

Brazoria County



Appraisal Manual

Brazoria County Appraisal District
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Chapter I – Introduction

Introduction

The purpose of this appraisal manual is to help and establish a set of uniform methods used by all appraiser in order to Appraise property within Brazoria County. It is not intended to replace the USPAP standards or to detail every thought process or judgment made by a residential appraiser.

Ethics

Public perception of the property tax profession is extremely important. In the past few years, ethical complaints against property tax professionals have increased dramatically. No single factor is more important to the success of a government agency than the public's opinion about the honesty and integrity of the staff and officials of the agency. It is more important to be perceived as honest and ethical than it is to be perceived as competent in your job. Any compromise on honesty and integrity can damage the agency, destroy careers, and tarnish reputations. The only way to guard against the loss of public confidence is to follow the highest standards of honesty and ethical behavior.

As Public servants, we exercise our authority and hold the tools of our trade as a public trust. The public has entrusted us with their authority and property so that we can do an important job for the public. Property tax professionals face many choices in their jobs that involve deciding what is right and wrong and every person has his or her own moral compass.

Property tax professionals must obey the state laws and ethical rules that apply to them including the code of ethics and the ethical rules adopted by the Board of Tax Professional Examiners. This is why an appraiser must observe the highest standards of professional ethics. It is also very important that as appraisers we do not advocate the cause or interest of any party or issue. This includes not accepting assignments that includes the reporting of predetermined opinions or conclusions.

It is also import as appraisers that we do not use or rely on unsupported conclusions relating to characteristics such as race, color, religion, national origin, gender, marital status, familial status, age, receipt of public assistance income, handicap, or an unsupported conclusion that homogeneity of such characteristics is necessary to maximize value.

The Texas Department of Licensing and Regulation has adopted the Code of Ethics (effective Jan. 18, 2010) which must be sworn and subscribed to by all those registered with the board. It consists of seven short statements of the ethical conduct expected of property tax professionals.

The Code of Ethics

- I. I will be guided by the principle that property taxation should be fair and uniform, and apply all laws, rules, methods, and procedures, in a uniform manner, to all taxpayers;
- II. I will not accept or solicit any gift, favor, or service that might reasonably tend to influence the registrant in the discharge of official duties, with the following exceptions:
 - a. the benefit is used solely to defray the expenses that accrue in the performance of duties or activities in connection with the office which are non-reimbursable by the state or political subdivision;
 - b. a political contribution as defined by Title 15 of the Election Code; or
 - c. an item with a value of less than \$50, excluding cash or a negotiable instrument;
- III. I will not use information received in connection with the duties of an appraiser, assessor, or collector for their own purposes, unless such information can be known by ordinary means to any ordinary citizen;

- IV. I will not engage in an official act that is dishonest, misleading, fraudulent, deceptive, or in violation of law;
- V. I will not conduct my professional duties in a manner that could reasonably be expected to create the appearance of impropriety;
- VI. I will not accept an appraisal, assessment, or collection related assignment that can reasonably be construed as being in conflict with the registrant(s) responsibility to their jurisdiction, employer, or client, or in which the registrant has an unrevealed personal interest or bias; and
- VII. I will not accept an assignment or responsibility in which the registrant has a personal interest without full disclosure of that interest.

Laws and Rules

The following is a list of the laws and rules that are important to know for all property tax professionals:

- 1) The Property Tax Professional Certification Act (Chapter 1151, Texas Occupations Code). This is a Texas State Law that applies to many government workers involved in ad valorem taxation appraisal, assessment, and collections.
- 2) The Code of Ethics adopted by The Department of licensing and regulation (Title 16 Chapter 94.100 of the Texas Administrative Code). This is a brief statement of ethical policies. Every person who registers with the board under the Property Tax Professional Certification Act must swear to obey the Code of Ethics.
- 3) The Responsibilities of a Registrant adopted by The Department of Licensing and regulations (Title 16 Chapter 94 of the Texas Administrative Code)
 - a) Rule 94.70 (General Principles)
 - b) Rule 94.71 (Equal and Fair Treatment)
 - c) Rule 94.72 (Conflicts of Interest)
 - d) Rule 94.73 (Use of Titles)
- 4) Parts of the Texas Penal Code that deal with ethics for public officials. The Texas Penal Code specifies crimes and punishment for many different types of offenses. It has several sections that deal specifically with ethical requirements for public officials.
 - a) Sec. 36.02 (Bribery)
 - b) Sec. 36.03 (Coercion of Public Servant)
 - c) Sec 36.04 (Improper Influence)
 - d) Sec 36.05 (Tampering with Witness)
 - e) Sec 36.06 (Obstruction or Retaliation)
 - f) Sec 36.07 (Acceptance of Honorarium)
 - g) Sec 36.08 & .09 (Gift to Public Servant)
 - h) Sec 37.10 (Tampering with Government Records)

- i) Sec 39.02 (Abuse of Official Capacity)
- j) Sec 39.03 (Official Oppression)
- k) Sec 39.06 (Misuse of Official Info.)

Rule 94.70 General Principles

- 1) A registrant must not violate any provision of the Act or this chapter.
- 2) A registrant must timely respond to the department's investigative requests including making a complete written answer to any complaint.
- 3) Registrants must inform the department within 30 days of any changes to their employment and change their registration as appropriate.
- 4) A registrant must not violate the property tax professional's Code of Ethics, referenced in §94.100, or aid or encourage another to violate the Code of Ethics.
- 5) A registrant must not engage in any practices that constitute acts of improper influence, conflict of interest, unfair treatment, discrimination, abuse of powers, or misuse of titles.
- 6) A registrant must be in compliance with any report issued by the Comptroller of Public Accounts under §5.102 of the Tax Code.
- 7) An appraisal registrant or assessor/collector registrant must pass the Class IV examination not later than five years after initial registration date.
- 8) A registrant must pass the Class III examination not later than three years after initial registration date.
- 9) A registrant may act in a purely private capacity regarding a personal tax matter so long as he does not use his official position to influence the outcome of such a dispute.

Rule 94.71 Equal and Fair Treatment

- 1) A registrant must apply equally and fairly any appraisal, assessment, or consulting service according to the Uniform Standards of Professional Appraisal Practice and generally accepted appraisal, assessment, or collection practices applicable to an assignment.
- 2) A registrant may not accept or solicit any benefit in return for favorable treatment.
- 3) A registrant must not knowingly testify falsely or withhold any information, or influence anyone into testifying falsely or withholding any information in any investigation or proceeding.
- 4) A registrant must not knowingly mislead any member of the public who makes a reasonable inquiry or request on tax matters.
- 5) A registrant must not predetermine the value or value range of a property or properties and then manipulate data to arrive at a predetermined conclusion.
- 6) A registrant must not perform calculations:
 - a) by methods other than those directed by law, rule, or written guidance of the Comptroller of Public Accounts, or

- b) that are designed to result in a predetermined effective tax rate, or rollback tax rate, current or delinquent collection rate, or other value, rate, or ratio used for official purposes.
- 7) A registrant must not provide, to any private party, information that is not provided to, or reasonably available to all persons.

Rule 94.72 Conflicts of Interest

- 1) A registrant must disclose in writing to the appraisal district or taxing entity any relationship of consanguinity within the third degree that may relate to an assignment so long as he holds a registration position.
- 2) A registrant must disclose in writing to the appraisal district or taxing entity any outside employment.
- 3) A registrant must disclose in writing to the appraisal district or taxing entity any financial interest in any private business or real property subject to the appraisal district or taxing entity where she is employed.
- 4) A registrant must not invest in property, interests, or transactions which create a conflict of interest or which affects independent judgment or performance in the official position.
- 5) A registrant must not engage in any activity or employment outside of the appraisal office or tax office if such engagement adversely affects his impartiality in the execution of his official duties or adversely affects the performance of his official duties.
- 6) A registrant must not use agency resources for the personal benefit of himself, any party in whom he has an interest, or any public servant; or for the benefit of any social or political organization unless any member of the general public could make similar use of the agency resources.
- 7) A registrant in their official capacity must not endorse the services or products of any person or firm.

Rule 94.73 Use of Titles

A person may not use the titles Registered Professional Appraiser, Registered Texas Assessor/Collector, or Registered Texas Collector unless he is an active and certified registrant with the department and performing official duties as a property tax appraiser, assessor/collector, or collector.

Chapter II – Classification

Introduction

The following chapter outlines the basic guidelines for various category and classes of residential dwellings. The materials are guidelines only and are not intended as a substitute for good appraisal judgment.

Why is Property Classification Important

The Comptroller's School District Report of Property Value includes category codes and appraisal roll values. These values are used to calculate market value estimates for each property category. Specifically, the reported value in a category divided by the Comptroller's appraisal ratio for the category equals the market value estimate for the category:

$$\text{Reported Value of Category A} / (\text{divided by}) \text{ The Appraisal Ratio} = \text{Category A Market Value Estimate}$$

The Texas Education Agency uses the Comptroller's market value estimates in determining the level of funding for each school district in the state. When properties are misclassified, values reported in various categories are probably incorrect. Incorrect reported values lead to inaccurate market value estimates, which can adversely affect school funding.

What Should be Considered in Determining Appropriate Property Classification?

Current property use is the primary consideration in determining appropriate property classification. Should a question come up about property use the appraisers should use their best judgment for use.

Property Classifications

Property classifications include these categories:

A: Real Property (Single-Family Residential)

B: Real Property (Multi-family Residential)

C1: Real Property (Vacant Lots and Tracts)

C2: Real Property: Colonia Lots and Land Tracts

D1: Real Property (Qualified Open-Space Land)

Sub Classifications for Agricultural and Timberland

A5N: Table 2B (Native Pastureland)

A4: Table 2A (Improved Pastureland)

A9I(1,2,3): Table 2EC(1,2,3) (Irr. Cropland)

A9D(1,2,3): Table 2GC(1,2,3) (Dry Cropland)

A8: Table 2J (Barren/Wasteland)

A0: Table 2N (Aquaculture)

A0W: Table 2W (Wildlife)

A9: Table 2M (Specialty Agriculture Uses ex. Turf, Horticulture, Truck Farms, & Tree Farms/Orchards)

D2: Real Property: Farm and Ranch Improvements on Qualified Open-Space Land

E: Real Property: Rural Land, not qualified for open-space land appraisal, and improvements

F1: Real Property (Commercial)

F2: Real Property (Industrial and Manufacturing)

G1: Real Property (Oil and Gas)

G2: Real Property (Minerals)

G3: Real Property (Other Sub-surface Interests in Land)

H1: Tangible Personal Property (Non-business Vehicles)

H2: Tangible Personal Property: Goods in Transit

J: Real and Tangible Personal Property (Utilities)

L1: Personal Property (Commercial)

L2: Personal property (Industrial Manufacturing)

M1: Mobile Homes (Owner different from land owner)
M2: Other Tangible Personal Property Only
N: Intangible Personal Property Only
O: Real Property (Residential Inventory)
S: Special Inventory
X: Totally Exempt Property and subcategories

Category A Real Property: Single-family Residential

Which Properties are Classified in Category A?

Category A property includes single-family residential improvements and land on which they are situated. Typically, Category A properties are single-family homes on tracts of land or platted lots. They may or may not be within the city limits or in close proximity to a city. Even large tracts of land should be classified as Category A property when the use is Residential. The use is residential when the land is primarily to enhance the enjoyment of the residence. Townhouses, condominiums, row houses and owner occupied duplexes are included as Category A property. Mobile homes located on land owned by the occupant are classified as Category A property.

Important Notes in Classifying Single-family Residential Property

- There is no acreage limit. Property use is the determining factor in single-family residential property.
- All non-farm or ranch, single-family residential property should be in Category A unless the property is real property inventory.
- The land and all residential improvements constitute one residence.
- If the residence has never been occupied and is residential inventory, it should be classified as Category O property.

Category A Classification Questions

- Q) A rural subdivision in my district is located 2.5 miles from the city limits. The lots in the subdivision are six acres or less. Currently, only one house has been constructed in the subdivision. How should this house be classified?**
- A)** If the use of the land and house is residential, this property should be classified as Category A property unless it is listed as residential inventory. Then it should be classified as category O property.
- Q) I received a homestead exemption application for a house located on a small farm of 40 acres. The owner requested that three acres be included in his homestead exemption. Is the house a Category A property?**
- A)** No. The use of most of the land in this example indicates that the primary use is not residential but agricultural. The house and three acres designated for residential use are a Category E property.
- Q) A number of houses owned by the resident are located in my district. The residents do not, however, own the land. Is this Category A property?**
- A)** Yes this is Category A property.
- Q) A mobile home and land are listed separately, but are owned by the occupant. In which categories should they be reported.**
- A)** When the mobile home and land are owned by the occupant, both accounts should be reported as Category A property. Listing each account separately does not change the principal use or category.
- Q) A single-family residence was included as Category A property. Before Jan. 1, the improvements were destroyed. How should the property be classified?**
- A)** If all improvements were removed, the remaining value would be attributable to the lot. Although the lot may have utilities in place, the principal use of the property would be a building site. The lot should be classified as Category C property.
- Q) One of our citizens owns a home and an adjacent lot. Both the home and lot are used as a residence. How should the appraisal district classify the adjacent lot? As a vacant lot under Category C or as a residential property under Category A?**
- A)** The classification of any property depends on its use. Since the adjacent lot is primarily residential, it should be classified as Category A.

Category B Real Property: Multifamily Residential

Which Properties are Classified in Category B?

Category B properties are residential improvements containing two or more residential units under single ownership. Properties classified as Category B generally include apartment complexes. If listed separately, apartments located above street-level stores or offices are also included in Category B. If not listed separately, the predominant use by value determines classification.

Important Notes in Classifying Multifamily Residential Property

- Do not confuse Category B properties with hotels and motels, even when their occupancy turnover rate is high. Hotels and motels are commercial real properties (Category F1) and are never classified as Category B property.
- Do not classify owner-occupied duplexes, triplexes and fourplexes as Category B property. They are classified as Category A property. Non-owner occupied duplexes, triplexes, and fourplexes should be classified as Category B property.
- Do not classify condominiums or townhomes as Category B property. They are classified as Category A property.
- If the property is owned by a developer or builder, has never been occupied and meets the other tests for Category O property, it should be classified as Category O.

Category B Classification Question

- Q) The owner of a duplex lives in one of the units. He applies for and receives a homestead exemption on the part of the duplex in which he resides. How should the duplex be classified?**
- A) Owner occupied duplexes, triplexes, and fourplexes are classified as Category A property. If the owner occupies one of the units, then all of the property becomes Category A property.
- Q) An attorney owns a three-story building on a main street. The street level floor contains an office and three apartments. The upper floors consist solely of apartments. How should this property be classified?**
- A) The predominant value of this building is multifamily and this property should be included as Category B property.
- Q) Are hotels and motels included as Category B property?**
- A) No. Hotels and motels are not considered multifamily residences. Their real property is classified as Category F1 property and the personal property belongs in Category L1.

Category C1 Real Property: Vacant Lots and Tracts

Which Properties are Classified in Category C?

Generally, Category C1 properties are small vacant tracts of land. These properties may be idle tracts in some stage of development or awaiting construction, tracts planned for residential structures, recreational lots or commercial and industrial building sites. Because property use determines classification, there is no minimum or maximum size requirement for Category C1 property. Category C1 properties are usually identified by subdivision name and lot and block number, abstract or section. If a vacant lot is held by a developer or builder and meets the other tests for Category O property, it is considered real property inventory and classified as Category O property.

Lots with nominal improvements that do not appear appropriate for classification as Categories A, B, E or F property are typically experiencing a change in highest and best use or have improvements with limited economic benefit to the land. In cases where the lot would be at least as valuable with the improvements removed, the lot should be classified as Category C1 property. Again, classification is determined by use. Generally, Category C1 property is most suited for use as a building site.

Important Notes in Classifying Vacant Lots

- Vacant lots are potential building sites or are reserved for recreational use.
- Vacant lots are usually described in terms of lot and block, abstract or section identified by a subdivision name.
- Vacant lots have no minimum or maximum size requirements.

Category C1 Classification Questions

- Q) A one owner property has 50 vacant acres located 30 miles outside the city limits. The land's primary use is to graze cattle. The owner has subdivided the land into 10 five acre tracts. Are these considered vacant lots?**
- A) No. In this example, the primary use of the land is agricultural, Category D.
- Q) A builder owns one unimproved three-acre parcel on which he intends to build a home for sale. Is this Category C1 property?**
- A) If this property is listed as inventory, it is considered a residential inventory property and would be classified as Category O property. If it is not then it would be listed as Category C1 property.
- Q) An individual has purchased a building site in anticipation of constructing a residence. The site has utilities, curbs, gutters, sidewalks and a street entrance. Should it be classified other than Category C property?**
- A) The principal use of the property determines the category. Although the site is prepared, it should be considered a vacant lot and classified as Category C1 property. Once the residence is constructed, the class should be changed from C1 to A.
- Q) If a lot has partially completed house that is not yet habitable, how is the lot classified?**
- A) The lot would be classified as Category A because it is residential.

Category D1 Real Property: Qualified Open-Space Land

Which Properties are Classified in Category D1?

All acreage qualified for productivity valuation under Texas Constitution, Article VIII, 1-d or 1-d-1, and Tax Code Chapter 23, Sub-Chapters C, D, E and H should be classified in Category D1 on the Report of Property Value.

Important Notes in Classifying Category D1 Property

- You must report each subclass of agricultural or timber use properties in EARS and on the Report of Property Value, and the land classes should be a part of the appraisal record of the property on the appraisal district's records system. If your school district wants to ask for an audit of previous years' values, the appraisal district must furnish a complete updated self-report, including the breakdown of the agricultural use category for each year in question to receive a new certification to the Commissioner of Education.
- Improvement value (such as barns or houses) should not be reported as Category D1 property; farm and ranch improvements must be reported as Category D2. However, fences and earth re-shaping (earthen dams, contouring, trenching etc.) are considered part of the land and should be included in Category D1. Farm and ranch improvements, other than residences, should be reported in Category D2. While the land under farm and ranch improvements can qualify as open-space land, the land under residences cannot. Residences and the non-qualifying rural land directly attributed to the residences should be reported in Category E.
- Any size tract may be reported in Category D1. If the land is appraised as open-space land, it should be reported in Category D1 regardless of size.

Category D1 Classification Questions

- Q) A farmer owns a 200-acre tract of land and the land is receiving productivity appraisal. Additionally, the farmer's primary residence (homestead) is located on the land. Which properties are classified as Category D1 property?**
- A) The acreage receiving productivity appraisal is classified as Category D1 property. The residence and land that is a part of the homestead is classed as Category E property.
- Q) A farmer owns three tracts of land. One is a 10-acre tract with four storage barns and the other is a 225-acre wheat and cotton farm. Both are qualified for productivity valuation. The third tract is on two acres on which the farmer has his primary residence (homestead). Which properties are classified as Category D1 property?**
- A) Category D1 property should include the 225-acre wheat and cotton farm and the 10-acre tract. Report the subclass for each agricultural use land class. The value of the four barns and the homestead's two acres and residence should be classified as Category E.

Category D2 Real Property: Farm and Ranch Improvements on Qualified Open-Space Land

Which Properties are Classified in Category D2?

Improvements, other than residences, associated with land reported as Category D1 property, should be reported as Category D2. These improvements include all barns, sheds, silos, garages and other improvements associated with farming or ranching.

Land separated from a larger tract for residential purposes should be included as Category E property. Other farm and ranch land that qualifies for open-space land appraisal should be included in Category D1 property.

Important Notes in Classifying Category D2 Property

- Farm and ranch improvements, such as barns and other structures, on qualified open-space land should not be reported as Category E property. They are properly classified as Category D2 property.
- Residences and rural land that are not qualified as open-space must be reported as Category E.

Category D2 Classification Questions

- Q. A farmer lives on a 4.5-acre tract of land on which he grows tomatoes. He claims a half-acre for homestead exemption purposes and receives productivity appraisal on the remaining land. What is the proper classification of the house?**
- A. The house and the half-acre is Category E property. The remaining four acres would be classified as Category D1 and listed according to the category of agricultural use.
- Q. A rancher owns a large cow calf operation on 1,000 acres. Located on the land are a barn and a number of sheds and other structures used in the agricultural operation. The owner provides residences for ranch hands on 5 acres. The land is also leased for hunting, and the owner allows day hunters to rent cabins and rooms in a lodge located on 10 acres. How this property classified?**
- A. The 985 acres used for the cow calf operation, including the land under the improvements used in the agricultural operation, are classified in Category D1. The barn, sheds and other structures used in the agricultural operation are classified as Category D2. The 5 acres and residential improvements provided to the ranch hands and the 10 acres and cabins and lodge are classified as Category E.

Category E Real Property: Rural Land, not Qualified for Open-Space Appraisal, and Residential Improvements

Which Properties are Classified in Category E?

Only rural land that is not qualified for productivity valuation and the improvements, including residential, on that land should be reported as Category E.

Important Notes in Classifying Farm and Ranch Improvements

- Any size tract may be reported in Category E. Use is the determining factor in classifying property. If the land is not used as residential inventory, commercial, industrial or other purposes that would require classification in another property category, and the land does not qualify as open-space land for productivity appraisal, then it should be reported in Category E.
- The number of acres included for homestead exemption purposes does not change the classification of these types of properties.
- The improvement value of all barns, sheds, silos and other outbuildings on qualified land is classified as Category D2 property.
- Land under barns, sheds, silos and other agricultural out buildings is classified as Category D1 property.
- The value of the land not receiving productivity appraisal and used for residential purpose is included in Category E.

Category E Classification Questions

- Q. A businessman recently purchased a 1,000-acre tract that he is holding to be developed into ranchettes. The tract is not qualified for productivity valuation and has not yet been subdivided or developed in any way. How should the 1,000-acre tract be classified?**
- A. The 1,000-acre tract should be classified in Category E since it is not qualified for open-space land appraisal and does not fit into any other property category.

- Q. A residential improvement lies 15 miles outside the city on 200 acres, eight of which are claimed as homestead. The other 192 acres of land are held for future sale; no farming or ranching activity exists. How should the improvement be classified?**

A. The entire acreage and the residential improvement would be classified as Category E because none of the acreage qualifies as open-space land.

Category F1 Real Property: Commercial

Which properties are Classified in Category F1?

Category F1 property includes land and improvements associated with businesses that sell goods or services to the general public. Some examples of commercial businesses are wholesale and retail stores, shopping centers, office buildings, restaurants, hotels and motels, gas stations, parking garages and lots, auto dealers, repair shops, finance companies, insurance companies, savings and loan associations, banks, credit unions, clinics, nursing homes, hospitals, marinas, bowling alleys, golf courses and mobile home parks.

Warehouses present a unique classification challenge because of the difficulty some appraisers have experienced in distinguishing between commercial real property (Category F1) and industrial real property (Category F2).

Warehouses that receive goods from more than one manufacturer or distributor to sell wholesale or retail should be classified as Category F1, commercial real property. The personal property should be classified as Category L1, commercial personal property.

Examples of warehouses that should be classified as Category F1, commercial real property, include:

- A warehouse that buys finished clothing from several manufacturers and sells it to wholesale or retail outlets.
- A warehouse that operates primarily as a retail outlet.

Warehouses that receive good from only one manufacturer to hold for distribution or that provide storage as part of a manufacturing process should be classified as industrial real property (Category F2). Industrial warehouses are normally owned by the manufacturer and are usually on or near the site of the manufacturing plant.

Examples of warehouses that should be classified as Category F2, industrial real property, include:

- A warehouse that stores various kinds of cloth, materials and supplies used by a manufacturing plant to manufacture clothing. The warehouse containing these items ensures the efficient operations of the manufacturing business by providing an uninterrupted supply of vital resources.
- A warehouse that only functions to receive the finished clothing from a manufacturing plant as it is manufactured, and then distributes it to wholesale or retail outlets. This warehouse enables the factory to maintain a regular and efficient production schedule by producing clothing even when there is no immediate buyer.

It cannot be overemphasized that personal property associated with either industrial real or commercial real properties should not be categorized as either Category F1 or Category F2, but should instead be categorized as either Category L1 (commercial personal) or Category L2 (industrial personal) property.

Important Notes in Classifying Commercial Real Property

- Include both the land and improvement value. The land may be appraised by the CAD and the improvement by an appraisal firm. The total land and improvement value is classified as F1 property.
- Do not include commercial personal property as Category F1 property.

Category F1 Classification Questions

Q) A development company owns a 360-unit time-share complex. How should this property be classified?

A) This property is operated as a commercial business. The real property value is classified as F1 property. The personal property should be classified as L1.

- Q) One of our citizens owns a business and an adjacent lot. Both the business and lot are used for commercial purposes. Should the appraisal district classify the adjacent lot as a vacant lot under Category C or as commercial real property under Category F1?**
- A) The classification of any property depends on its use. Since the adjacent lot is used in conjunction with a commercial business, it should be classified as Category F1.
- Q) A telephone store is owned and operated as an independent operation by AT&T. The store sells and repairs telephones. How is this property classified?**
- A) Even though a utility company owns this store, it is operated as a commercial business and is not a necessary component of utility operations. Classify the property as F1 property.
- Q) If a motel suite establishment, such as a motor inn, rents by the month is it classified as Category B property or F1 property?**
- A) The motor inn rents the units on a short-term basis. The property is classified as Category F1 property.
- Q) A discount store chain purchases merchandise from several manufacturers for distribution to their company stores. Should their warehouse be classified as Category F1 property?**
- A) Yes. The warehouse is not part of the manufacturing process. When property is used for storing merchandise purchased from more than one manufacturer, which will be distributed to retail outlets, it should be considered commercial property

Category F2 Real Property: Industrial

Which Properties are Classified in Category F2?

Category F2 properties are the land and improvements of businesses that add value to a product through development, manufacturing, fabrication or processing of that product. Some examples of industrial businesses are cotton gins, processing plants, paper mills, steel mills, refineries, warehouse storing for manufacturing facility, cement plants, chemical plants, canning companies and clothing manufacturers. (See discussion of Category F1, commercial real property, on previous pages for additional information on properly categorizing warehouses and their contents)

Important Notes in Classifying F2 Industrial Real Property

- Include the value of both the improvements and the land necessary to the industrial operation. The CAD may appraise the land and an appraisal firm may appraise the improvement. The total land and improvement value is classified as F2 property.
- Classify all equipment that would not normally be removed as F2 property improvement value. If removing the equipment would damage the structure to the extent that the cost to repair surpasses the market value of the property removed, the equipment is considered real property.
- Do not include additional tracts of land held by the company if that land is not a part of the manufacturing operation.

Category F2 Classification Questions

- Q) A paper company owns a paper mill on 350-acre tract of land. The mill, employee and visitor parking lot, warehouse, employee recreation area, and storage yard are included on 50 acres of land. Is the 350 acres of land classified as F2 property?**
- A) No. Only the 50 acres associated with the mill and mill facilities is classified as Category F2. The remaining 300 acres of vacant land should be classified as Category D property.
- Q) Is the equipment of a gas processing plant considered F2 property?**
- A) Classify the land, buildings and value of fixed equipment as Category F2 property. Include all inventories and other equipment value as L2.
- Q) A manufacturing facility stores inventory in a location across town. The manufacturing facility has insufficient storage area to warehouse inventory onsite. Should the warehouse be classified as Category F2 property?**
- A) Yes. The property is used as part of the manufacturing process and warehouses excess inventory that cannot be stored onsite. It should be classified as Category F2 property.
- Q) A grain elevator has storage and processing facilities for grain. Is this Category F2 property?**

- A) Yes, the processing and storage are necessary part of the operation and add value to the product. The property should be included as Category F2 Property.
- Q) An electric generation plant is built in your district, what category do you put the plant in?**
- A) You would put the plant in Category F2: Industrial.

Category G Oil, Gas, Minerals, and Other Subsurface Interests

Which Properties are Classified in Category G?

Category G includes the non-exempt value of oil and gas, other minerals and certain interests in subsurface land. Mines, quarries, limestone, sand, caliche, gravel and other substances that are part of the land are not minerals, but are classified in Category G, as subsurface interests in land. In addition, equipment used to produce products is considered Category G property and should be reported in the applicable sub-category.

Tax Code Section 11.146 states:

- a) "A person is entitled to an exemption from taxation of a mineral interest the person owns if the interest has a taxable value of less than \$500."
- b) "The exemption provided by Subsection (a) applies to each separate taxing unit in which a person owns a mineral interest and, for the purposes of Subsection (a), all mineral interests in each taxing unit are aggregated to determine value."

These exempt properties should be reported in Category XC (see page 16).

Oil and gas interests should be reported as Category G1 property. Other minerals should be reported as Category G2 property. Subsurface interests in land should be reported as Category G3.

Important Notes in Classifying Category G Mineral Properties

- The surface land value is not included as Category G property.
- The value of Category G property includes producing minerals and non-producing minerals unless they are exempt based on Tax Code Section 11.146.

Category G Classification Questions

- Q) An oil company has a mineral lease on 8,000 acres of an existing 20,000 acre ranch. Oil has been discovered on the leased land. What values are classified as Category G property?**
- A) The value of the producing and nonproducing reserves and the equipment used to bring the oil to the surface.
- Q) An oil company has a storage tank, which is fed by incoming lines from the oil field. How is this property classified?**
- A) Since the equipment is not used to bring oil to the surface, the property and storage tank are classified as L2.

Category H1 Tangible Personal Property: Non-business Vehicles

What is Classified in Category H?

Category H1 property includes automobiles, motorcycles and light trucks not used for the production of income and subject to taxation under Tax Code Section 11.14. Non-income-producing vehicles are exempt from taxation, unless the governing body of a taxing unit has taken an official action to tax them. Appraisal districts are not required to list or appraise exempt vehicles. If non-income-producing vehicles are on the appraisal roll as exempt property, they must be coded as Category XV.

Important Notes in Classifying Non-income Producing Vehicles

- Includes non-income producing vehicles only. Income producing vehicles are classified in Category L1.

Category H Classification Questions

- Q) A fast food restaurant has a delivery fleet of five small vans. Should the value of these vans be included as Category H1 property.**
- A) No. These vans are used for the production of income. They are business inventory Category L1 property.
- Q) An individual owns a sedan and a station wagon subject to taxation under Section 11.14, Property tax Code. Are these vehicles Category H1 property?**

- A) Yes. They are classified as Category H1 property since they are privately owned vehicles and not used for income producing purposes.

Category H2 Tangible Personal Property: Goods in Transit

Which Properties are Classified in Category H2?

Category H2 property includes personal property stored under a contract of bailment by a public warehouse operator and identified according to the provisions of Tax Code Section 11.253. While goods in transit are exempt under law, the provisions allow local taxing entities to elect to tax these properties. The value of these goods before the exemption amounts are applied is reported in Category H2.

Category J Real and Personal Property: Utilities

Which Properties are Classified in Category J?

Category J property includes the real and personal property of utility companies and co-ops. Subcategories of utilities are:

- J1 Water Systems
- J2 Gas Distribution Systems
- J3 Electric Companies and Electric Co-ops
- J4 Telephone Companies and Telephone Co-ops
- J5 Railroads
- J6 Pipelines
- J7 Cable Companies
- J8 Other

Important Notes in Classifying Utility Properties

- As a result of restructuring of the electric generation industry in Texas and the separation of businesses owning generation facilities from businesses owning electric transmission and distribution utilities, most electric generation plants and equipment should be classified in Categories F2 and L2. Transmission and distribution facilities and equipment will continue to be Category J. Generation facilities and electric utility companies serving Texas but outside the Electric Reliability Council of Texas operating area should be classified as Category J.
- Property owned by a utility company but not an operation component of the company is not classified as Category J property. The use of the property determines the classification.
- Construction work in progress to be use in the operation of the utility company is classified as Category J property.
- Railroad rolling stock used in the operation of a railroad is classified as Category J. Rail cars owned and operated by other entities are personal property and classified as L1 or L2 depending on use.

Category J Classification Questions

- Q) A large telephone company owns an office building that houses its regional staff. In addition, it owns a warehouse, garage and storage yard that houses trucks, equipment and inventory. How is this property classified?**
- A) All of this property is necessary to the operation of the telephone company, so it is all Category J property.
- Q) A railroad owns 10 acres of right of way through a 100 acre ranch under a different ownership. What is considered Category J property?**
- A) Only the 10 acres owned by the utility.
- Q) An oil company owns 15 drilling rigs. Is this Category J property?**
- A) No, This property is classified as Category L2 property.
- Q) An electric generation plant is located in your county and the company also owns the electric transmission lines that run from the plant. How is the property classified?**
- A) The electric generation plant is classified as F2 and the electric transmission lines are classified as J.

Category L1 Personal Property: Commercial

Which Properties are Classified in Category L1?

Category L1 properties include the personal property of businesses that sell goods or services to the public. (See discussion of Category F1, commercial real property categorizing warehouses and their contents).

Some examples of commercial personal property follow:

- Clothing store property classified as L1 property includes all merchandise inventory, supplies, computers, cash registers, other moveable business equipment, and furniture and fixtures in the store.
- Office building property classified as L1 property includes all furniture, fixtures, equipment, supplies and inventory located in the office building.

Important Notes in Classifying Commercial Personal Property

- Include all personal property of a commercial business.
- Do not include the real property of a business.
- Include commercial vehicles used for business purposes.
- Include the value of boats, aircraft and other recreational vehicles owned by a commercial business.

Category L1 Classification Questions

Q) A local developer owns a Lear jet that is used for business trips. How is this aircraft classified?

A) The aircraft is considered a part of the business operation. Classify it as Category L1 property.

Q) An oil company owns a number of drilling rigs. How is this personal property classified?

A) Drilling rigs add value to the product (oil and gas) by developing the lease and making the product available for recovery. These properties are classified as Category L2 property.

Q) Is a distribution warehouse inventory for a manufacturer that distributes its goods to wholesalers classified as Category L1 property?

A) No, it is considered a part of the manufacturing operation and classified as Category L2

Category L2 Personal Property: Industrial and Manufacturing

Which Properties are Classified in Category L2?

Category L2 properties include the personal property of businesses that add value to a product through development, manufacturing, processing or storage of that product.

Some examples of Category L2 industrial personal property are:

- Manufacturing machinery and equipment, computers, barges, commercial watercraft, trucks, heavy equipment, inventory stock, drilling rigs, portable tools, furniture and fixtures, raw materials, goods in process and finished goods.

Important Notes in Classifying Industrial Personal Property

- All personal property used in the production of a product is classified as Category L2 property.
- Automobiles, trucks, aircraft, watercraft, recreational vehicles and heavy equipment owned by an industrial firm are classified as Category L2 property.
- Do not classify the real property of an industrial firm as Category L2 property. It should be classified as Category F2 property.

Category L2 Classification Questions

Q) Is the personal property inventory of a well service company classified as Category L2 property?

A) No. Personal property inventory, supplies, equipment, furniture and fixtures of a commercial business are classified as Category L1 property.

Q) An oil company has a storage yard where equipment that services a drilling operation in the area is stored. How are these classified?

A) The land and any improvements are classified as Category F2 property. The equipment is classified as Category L2 property. Do not include this value in Category G.

Q) Are support facilities such as compressed air, steam and dehumidification in a manufacturer's building considered Category L2 property?

A) No. These are classified as Category F2 property since they are integral part of the building.

Category M Mobile Homes and Other Tangible Personal Property

Which Properties are Classified in Category M?

Category M properties should be classified as either Category M1 or Category M2. A mobile home on land owned by someone other than the owner of the mobile home should be classified as Category M1 property. This is an exception to the current use rule for classifying property. Even though the mobile home is used for residential purposes, it is classified as Category M1 property if the mobile home and land have different owners. Mobile homes on land owned by the same owner should be reported as one account and classified as category A or E depending on location.

Non-income-producing personal property includes boats, travel trailers and personal aircraft and is exempt under Tax Code Section 11.14, unless the governing body of a taxing unit takes an official action to tax non-income-producing personal property. If this property is exempt, it should be classified under Category XV.

If an appraisal district has taxable non-income-producing boats, travel trailers or personal aircraft on the appraisal roll, these items should be classified as M2 property. Travel trailers that are structures as defined by Tax Code Section 11.14(b) are taxable and should be coded in Category A or E (if on owned land) or Category M1 (if on rented land). The law requires PTAD to treat Category M2 as totally exempt in the PVS.

Boats, travel trailers and personal aircraft that are used to produce income are taxable and should be classified as Category L1 or Category L2, depending on whether they are used as part of a commercial business (L1) or an industrial business (L2). Some appraisal districts incorrectly classify income-producing property as Category M2. This incorrect classification reduces the accuracy of the taxable value estimates sent to TEA. If this type of error is identified, the taxable values will be adjusted appropriately.

Important Notes in Classifying Other Personal Property

- Personal property shown as Category M property must be individually owned.
- Properties owned by businesses or listed in the name of a business are not classified in this category.
- Category M properties are owned by individuals and are typically used for residential or recreational purposes and not for generating income.

Category M Classification Questions

Q) An insurance executive uses an airplane owned by his company and listed in the name of his company. Should the aircraft be included as Category M property?

A) No. The airplane, though it may sometimes be used for pleasure and recreation, is an asset of the company. Therefore, it is considered business personal property and should be classified as Category L1 property.

Q) A mobile home is located on the owner's land. He also owns a recreational boat and travel trailer subject to taxation. Are these properties Category M properties?

A) No. Only the boat and travel trailer are classified as Category M property. The mobile home and lot are classified as Category A property since both are owned by the resident and used for residential purposes.

Q) My district has a mobile home park consisting of eight acres. All the mobile home spaces are leases and a total of 35 mobile homes are located in the park. Which properties are classified as Category M property?

A) Category M property would include only the mobile homes in the park. The land should be classified as Category F1 property.

Category N Intangible Personal Property

Which properties are classified in Category N?

Properties defined as intangible pursuant to Tax Code Section 1.04(6) are classified as Category N property. Common examples are the stock values of insurance companies and savings and loan associations.

Important Notes in Classifying Intangibles

- Most intangible property is exempt for taxation by law pursuant to Tax Code Section 11.02
- Property with undetermined codes should not be coded as Category N property.

Category N Classification Questions

Q) Our district has a number of undetermined codes. Are these Category N properties?

A) No. Do not use Category N as a “catch-all” category.

Q) Since I have no intangible property in my district, do I need a Category N on my tax roll?

A) No, it is not necessary. However, the self reports do provide a place to record Category N property value. Reserve Category N for intangible value in the event it is needed in the future.

Category O Real Property: Residential Inventory

Which properties are classified in Category O?

Category O properties are residential real property held as inventory if all of the following apply:

- They are under the same ownership
- They are contiguous or located in the same subdivision or development.
- They are held for sale in the ordinary course of business.
- They are subject to zoning restrictions limiting them to residential use. If not subjecting to zoning, they are subject to enforceable deed restrictions limiting them to residential use, or their highest and best use is a residential property.
- They have never been occupied for residential purposes.
- They are not presently leased or producing income.
- The property is business inventory.

Important Notes in Classifying Residential Real Property Inventory

- All of the above criteria must be met for the property to be classified as Category O property.
- The land and improvement value are both classified as Category O property if the criteria are met.
- The property is appraised as a unit.

Category O Classification Questions

Q) A 300 acre tract of land is subdivided into one acre tracts. One house was built on a lot as a commercial venture. The house has never been occupied, nor any of the lots developed. They are for sale in the normal course of business. Are these Category O properties?

A) Yes. They are owned by the same person, contiguous and have never been occupied. They are appraised as a unit and classified as Category O properties.

Q) A local developer built 35 homes in a subdivision. Ten have sold and are occupied. The others are for sale but remain vacant. Which properties are classified as Category O property?

A) The 25 houses that are vacant are appraised as a unit and classified as Category O properties.

Category S Special Inventory

Which properties are classified in Category S?

Category S accounts include certain personal property of businesses that provide items for sale to the public. These personal property items are appraised based on total annual sales in the prior tax year. Special inventory and their applicable Tax Code provisions are defined as follows:

Sec. 23.121. Dealer's Motor Vehicle Inventory

Dealer's motor vehicle inventory means all motor vehicles held for sale by a dealer. A motor vehicle is defined as a towable recreational vehicle or a fully self-propelled vehicle with at least two wheels which has as its primary purpose the transport of a person or persons or property, whether or not the vehicle is intended for use on a public street, road or highway.

Sec. 23.1241. Dealer's Heavy Equipment Inventory

Dealer's heavy equipment inventory means items of heavy equipment that a dealer holds for sale or lease. This equipment includes self-propelled, self-powered or pull-type equipment, including farm equipment or a diesel engine, that weighs at least 1,500 pounds and is intended to be used for agricultural, construction, industrial, maritime, mining or forestry uses. This type of equipment must be held by a dealer as defined by law and must meet other requirements of law. Advice from legal counsel is necessary in order to determine whether this equipment qualifies for special appraisal. If it does not qualify, the property should be classified as Category L1.

Sec. 23.124. Dealer's Vessel and Outboard Motor Inventory

Dealer's vessel and outboard motor inventory means all vessel and outboard motors held for sale by a dealer and includes any watercraft, other than a seaplane on water, used or capable of being used for transportation on water. This does not include vessels of more than 65 feet in length, measured from end to end over the deck, excluding sheer; and canoes, kayaks, punts, rowboats, rubber rafts or other vessels under 14 feet in length when paddled, poled, oared or windblown. Vessel also includes trailers that are treated as vessels if it is designed to carry a vessel and is either a trailer or semitrailer. Outboard motor means any self-contained internal combustion propulsion system, excluding fuel supply, that is used to propel a vessel and detachable as a unit from the vessel.

Sec. 23.127. Retail Manufacture Housing Inventory

Retail manufactured housing inventory means all manufactured homes that a retailer holds for sale at retail. A **manufacture home** is a ready built home that is constructed so that the entire living area is contained in a single unit or section at a temporary location for the purpose of selling it and moving it to another location.

Category X Totally Exempt Property

Which properties are classified in Category X?

Exempt property must have the qualifications found in law, mainly the Tax Code. Owners of certain exempt properties need not file applications: public property (Section 11.11), implements of husbandry (Section 11.161), family supplies (Section 11.15) and farm products (Section 11.16). Other exemptions have local option provisions for taxation (Sections 11.111, 11.14, 11.24, 11.251, 11.252, 11.253 and 11.32). Yet other exemptions are partial, such as residence homestead exemptions and organizations constructing or rehabilitation low income housing. Businesses operating in a foreign trade zone usually seek tax-exempt status for their inventory (imported goods) through renditions.

The following listing is designed to categorize exempt property for reporting purposes only. Residence homestead exemption information is captured in EARS and school district self-reports. The listing below does not include all exemptions and is simply a reporting tool.

- XA 11.111 Public property for housing indigent persons
- XB 11.145 Income Producing Tangible Personal Property valued under \$500
- XC 11.146 Mineral interest property valued under \$500
- XD 11.181 Improving property for housing with volunteer labor
- XE 11.182 Community Housing Development Organizations
- XF 11.183 Assisting ambulatory health care centers
- XG 11.184 Primarily performing charitable functions
- XH 11.185 Developing model colonia subdivisions
- XI 11.19 Youth spiritual, mental and physical development organizations
- XJ 11.21 Private schools
- XL 11.231 Organizations Providing Economic Development Services to Local Community
- XM 11.25 Marine cargo containers
- XN 11.252 Motor vehicles leased for personal use
- XO 11.254 Motor vehicles for income production and personal use
- XP 11.271 Offshore drilling equipment not in use
- XQ 11.29 Intracoastal waterway dredge disposal site

XR 11.30 Nonprofit water or wastewater corporation

XS 11.33 Raw cocoa and green coffee held in Harris County

XT 11.34 Limitation on taxes in certain municipalities

XU 11.23 Miscellaneous Exemptions

XV Other Exemptions (including public property, religious organizations, charitable organizations and other property not reported elsewhere)

Category X Classification Questions

Q) A school district recently purchased a house that it now uses for administrative offices. How should the property be classified?

A) The property class should be changed from A to XV because the property is now owned by the district and used for public purpose and is therefore totally exempt.

Q) A doctor purchased an old school and converted it into offices. How should the property be classified?

A) The formerly totally exempt property is not a Category F1 property and is now taxable.

Brazoria County Appraisal District Classing System

The following material outlines basic guidelines for various classes of residential dwellings. These materials should be used as a guidelines and are not intended to substitute good appraisal judgment.

Class 1

Minimal Shelter of low quality and have low cost construction. Interior and exterior finishes are plain and inexpensive with little or no attention given to detail. Design is concerned with function, not appearance. Has minimal electrical, plumbing (3-4 fixtures) and living area, no garage or porch. Roof typically has less than 3/12 pitch (3" of vertical rise to each 12" of horizontal distance, this is not a vary steep roof) and no eaves. No cooling and heating limited to some form of space heater. One exterior door and few windows, all of low quality. Usually has less than 500 sq. ft of living area with a wall height of 8 foot. Class 1 examples:



Class 1



Class 1

Class 2

Inexpensive shelter of low quality and of low cost construction. Interior and exterior are plain and inexpensive with little or no attention to detail. Design is concerned with function, not appearance. Has minimal electrical, plumbing (4-5 fixtures) and living area with a small porch and possibly a small carport. No cooling and heating limited to some form of space heater. One exterior door and few windows, all low quality. Roof typically has less than 4/12 pitch and no eaves. Usually has less than 600 sq. ft. of living area with a wall height of 8 foot. Class 2 examples:



Class 2



Class 2

Class 3

Overall quality of materials and workmanship is below average, but not sub-standard. Design is from stock plans with ornamentation limited to the front elevation. Has minimal electrical and plumbing (5-7 fixtures) with small front and rear porches, one car garage or carport. Cooling usually limited to window units and heating may be space heaters or small forced air furnace with minimal ductwork. Front and rear doors, minimal windows, all of "builders grade" quality. Roof typically has 3/12 or less pitch with eaves less than 12". Usually has less than 1000 sq. ft. of living area with a wall height of 8 foot. Class 3 examples:



Class 3



Class 3



Class 3

Class 4

Average quality of materials and workmanship, but does not reflect custom design and craftsmanship. Ample electrical and plumbing (7-8 fixtures), front and rear porches and garage. Central heating and cooling, ample windows with average trim. Roof typically has pitch of 4/12 or less. Usually has less than 1800 sq. ft. of living area with a wall height of 8 foot. Class 4 examples:



Class 4



Class 4



Class 4



Class 4

Class 5

Above average quality of materials and workmanship. Some attention is given to design in both refinements and detail. More than ample electrical and plumbing (8-10 fixtures), central heating and cooling, large front and rear porches, 2-3 car garage. Exteriors have ample windows with ornamental materials or other refinements. Roof has greater than 4/12 pitch with hips and valleys of good quality shingles. Usually less than 2400 sq. ft of living area with wall heights exceeding 8 foot in dining, kitchen and living rooms. Class 5 examples:



Class 5



Class 5



Class 5

Class 6

Good Quality materials and workmanship. Attention is given to interior refinements and detail. More than ample electrical and plumbing (8-11 fixtures), central heating and cooling, large porches, 2-3 car garage. Exterior has more than ample windows with some custom ornamentation. Roof has good quality covering with design and 5/12 and greater pitch. Usually less than 3500 sq. ft. of living area with wall heights exceeding 8 foot. Class 6 examples:



Class 6



Class 6



Class 6

Class 7

High quality materials and workmanship. Individually designed with considerable attention given to detail. Generous electrical and plumbing (11-14 fixtures), central heating and cooling, large porches, 3 car or larger garage. Generous windows that are well designed with custom ornamentation and trim. Roof is of premium materials such as clay tile or slate and with design and 6/12 or greater pitch. Usually over 3000 sq. ft. of living area with high ceilings throughout the house. Class 7 examples:



Class 7



Class 7



Class 7



Class 7

Class 8

Highest quality materials and workmanship. Custom designed with considerable attention given to detail. Generous electrical and plumbing (14-18 fixtures), central heating and cooling, large porches, 3 car or larger garage. Generous windows that are well designed with custom ornamentation and trim. Roof is of premium materials such as clay tile or slate and with design and 6/12 or greater pitch. Usually over 3400 sq. ft. of living area with high ceilings throughout the house.



Class 8



Class 8



Class 8



Class 8

Waterfront Property Classing

The following are pictures to help with classing on waterfront and resort residential properties. Remember for classing purposes that the waterside is usually where the more architecture and design properties are located. See Chapter 8 for more info.



Class 2



Class 2



Class 2



Class 2



Class 3



Class 3



Class 3



Class 3



Class 4



Class 4



Class 4



Class 4



Class 5



Class 5



Class 5



Class 5



Class 6



Class 6



Class 6



Class 6



Class 7



Class 7

Chapter III – Land

Introduction

Importance of Accurate Land Values

Accurate land values are crucial to an effective assessment system. They contribute to the accuracy of appraisals and ensure that land owners pay their fair share of taxes. Accurate land values promote well informed land use decisions by both the public and private sectors.

Appraisal Principles Important in Land Valuation

Principles that are important to land valuation are supply and demand, highest and best use, surplus productivity, and change and anticipation.

Supply and Demand

Supply and demand is the cornerstone of the valuation theory. The forces of supply and demand interact to determine the market value of property, which is reflected in sales prices.

Supply and demand has special significance in land valuation because the supply of land is essentially fixed. This means that the price of land in a particular area will be determined by demand factors such as population density, rate of growth, local employment, income levels, the capacity of local transportation systems, and mortgage interest rates.

Although the total supply of land is fixed, the supply for a particular use may increase or decrease. For example, forest or farm land on the periphery of a city may be developed for residential use. The increased supply slows price increases. However, the practical limits to such development and continued growth in demand lead inevitably to higher prices and more intensive use, for example, smaller lots and the substitution of apartments for single family houses.

Zoning and other land use controls limit the available supply of land for a given use. This usually results in higher overall prices, but lower prices for land which the use is restricted.

The principles of supply and demand explain the large differences in land values between urban and rural areas, between different urban areas, and even between different neighborhoods in the same urban area. No other commodity exhibits such large variations in price. In general, the more immovable an item, the more its price will vary by area. Land, which is totally immovable, varies more in value than other economic goods, although transportation and accessibility can reduce locational differences.

Highest and Best Use

The principle of highest and best use means that the market value of property depends on potential use rather than on current use alone. The principle is most obvious in the case of vacant land, which commands value based on potential use. The more profitable the potential use, the higher the demand and market value. Vacant land in an urban area commands greater value than vacant land in a rural area.

The principle of highest and best use applies to improved land as well. Take, for example, a single family residence in an expanding urban area zoned for commercial use. The value of the land for commercial use may

far exceed its value for residential use, and may even exceed the combined value of the land and building for residential use. The property may then be purchased for commercial use, the residence removed or destroyed, and a commercial structure built in its place. Similarly, small, single story commercial structures are often destroyed to make way for large, multistory structures.

Important Note: See house bill 3613 from 81st Legislature session for more information on how highest and best use is used on a property that has a residential homestead. This bill makes the change that a residence homestead's market value for ad valorem tax purpose is determined solely on the basis of the property's value as a residence homestead, regardless of highest and best use. This will become effective January 1, 2010.

Surplus Productivity

Economists divide factors of production into four groups: land, labor, capital (buildings, machinery, equipment, and supplies), and management. The principle of surplus productivity states that returns attributable to land are what remain after returns to labor, management, and capital are satisfied. Hence, gross income less income paid for labor, management, and capital equals income residual to land.

The principle of surplus productivity underscores the unique position of land in production and helps explain why land values can vary dramatically. If two parcels are used for identical purposes and are similar in their labor, management, and capital requirements, but one, because of its location, produces greater gross income than the other, then the difference in net income will be capitalized entirely into differences in land values.

Change and Anticipation

Change and anticipation are closely related principles. The principle of change states that market value is determined by dynamic economic, political, and demographic factors such as zoning, rent controls, interest rates, transportation, and local economic conditions. Because the supply of land is fixed, its value is particularly affected by changes in these market forces.

The principle of anticipation, which underlies the income approach to value, states that market value equals the present value of future benefits. In the case of vacant commercial land, the principle means that land values will reflect the capitalized value of anticipated net incomes from commercial development of the land. Similarly, the value of vacant residential lands will reflect the capitalized value of rents (either actual or imputed) attributable to the land. The principle of anticipation and change underscore the need to estimate market value for assessment purposes as of a given date, the assessment date.

Factors Affecting Land Values

Factors affecting land values can be divided into four categories: economic; social; legal, governmental, and political; and physical, environmental, and locational.

Economic Factors

Economic factors relate to the general state of the international, national, regional, and local economies. Demand variables that affect land values include employment levels, wage rates, income levels and purchasing power, the availability of financing, interest rates, and transaction costs. Supply variables include the quantity of available land; development, construction, and financing costs; and taxes and other holding costs. These factors, particularly those that relate to the supply of land, can vary substantially from one area to another.

Social Factors

Social factors help explain patterns of land use as well as demand and price. Sociologists hold that people have basic desires for territory and companionship. These desires are manifested in the “clustering” of people near urban centers and in variations in the use of land. Prestige also plays a major role in land use, as individuals and groups seek particular locations for social and economic reasons. These motives lead to “invasion” and a “succession” of land uses. Invasion occurs as one population, for example, affluent retirees seeking waterfront homes, seeks to expand its territory and improve its position. Succession occurs as the new population displaces the old, for example, fishermen. This pattern occurs until a new equilibrium is achieved with an obviously different pattern of land use and values.

Legal, Governmental, and Political Factors

Legal, governmental, and political policies can increase or decrease the demand for land. Favorable policies promote efficient land use and development. At the national level, economic, fiscal, and monetary policies can either spur or retard economic growth and demand for land. State, provincial, and local governments often provide specific incentives or disincentives for land development through such mechanisms as taxation, zoning, land use controls, and rent controls. The quality of local governmental services, such as roads, schools, public transportation, and police and fire protection, also affects demand.

Physical, Environmental, and Locational Factors

These factors largely explain patterns of land values within a city or market area. In analyzing such factors, it is useful to distinguish the concepts of site and situation. Site attributes are the size, topography, and other physical features of a given parcel. Situation, or linkage, attributes focus on the location of the parcel relative to other places, such as the central business district, freeway access, shopping, schools, the oceanfront, or a dump. Site attributes affect land values because owners are able to use the land’s inherent resources; situation attributes affect value because of nearness or accessibility to other resources. A successful land valuation model must include site and situation variables.

Appraisal Process

The appraisal process evaluates all of the data that may affect the value of the property. The data can be classified broadly as general data such as the neighborhood, city, and region. A good example of a general factor that would be considered is the absorption rate for a neighborhood. The absorption rate is the number of months it would take to sell the entire inventory of houses in the neighborhood. A value of greater than 6 months could indicate oversupply which could lead to lower values. It can also be specific data, which is the information concerning the property itself.

Methods Used to Determine Market Value

There are three general methods that are used to determine the market value of land. These methods include the sales comparison, the cost approach, and the income approach. Not every property’s market value can be determined by all three approaches and usually there will be a best method for each property. Specific types of property will usually have the same best method.

The sales comparison approach and the cost approach are based on the economic principle of substitution. Substitution in this case means that one thing can be substituted for another, then their values will be comparable. Hence, the value of property will be comparable to either comparable properties with similar qualities or what it would cost to build an equivalent property from scratch.

In most cases the sales comparison approach will be the primary technique used in land valuation. When sufficient sales data are not available, the appraiser must use one of the other methods.

Land sales

All sales should be reviewed, confirmed, and maintained in a sales file. Careful review of vacant land sales is especially important. Characteristics such as size, shape, use, zoning, topography, or road frontage should be confirmed or updated as necessary. It is also important to maximize the ongoing utility of a vacant sale after the property has been improved. The continued availability of such sales for modeling and valuation is important because generally there are few vacant land sales. A good approach is to flag the sale as vacant and compare only the land value to the sale price to obtain the sales ratio that can then be used in the analysis to determine the market value.

Sales Comparison Approach

The sales comparison approach again in most cases will be the primary technique that is used to value land. The sales comparison approach estimates the market value of a subject property by adjusting the sales prices of comparable properties for differences between the comparables and subject. Appraisers use several sold properties as comparables. Three to five comparables are usually adequate, but a larger number improves confidence in the final estimate, increases the awareness of patterns of value, and stabilizes assessments over time. The sales comparison approach requires numerous adjustments for time, attribute differences, and other factors. There are two principal applications of the approach in land valuation: the comparative unit method and the base lot method.

The Issue of Comparability

Comparability is a measure of similarity between a sale and subject. Sale and subject should be similar with respect to date of sale, economic conditions, physical attributes, and competitiveness in the same market. Of these, the most important is competitiveness. If the comparable and subject do not compete in the same market, they do not face the same supply and demand forces, so value inferences from comparable to subject may be misleading.

Comparative Unit Method

In the comparative unit method, the appraiser determines the average or typical per unit value for each stratum of land. The average value can be found by calculating the median or mean sale price per unit. A typical value can be found by carefully considering the available data, analyzing this data, and making an informed judgment. High average deviations within the strata indicate the additional refinements may be necessary. When sales are few or are suspect, the appraiser may select a comparative unit value that is well above or below the mathematical mean or median. In any case, the figures chosen for each stratum should be rooted in market data whenever possible, but should also be reasonable and consistent among strata.

Once comparative unit values have been established for each stratum, they are refined to the individual parcel level.

Base lot Method

In the base lot method, the appraiser establishes the value of the standard, or “base” parcel in each stratum through a traditional sales comparison analysis, with the base lot serving as the subject parcel. The base lot may be an actual or hypothetical standard parcel. Once the base lot value is established it is used as a benchmark to establish values for individual parcels.

Confidence in the accuracy of base lot values can be gauged by examining the measure of dispersion. If the measures of dispersion are large, additional analyses are needed. Perhaps the strata should be redefined, or the adjustments applied to the comparables modified, or several base lots defined by substrata. In any case, base lot values will need to be adjusted for site characteristics in the valuation of individual parcels.

Comparison of Methods

If properly applied, the comparative unit value and base lot methods of land valuation are both good and should produce similar results. Each, however, has advantages and disadvantages. The base lot method has the advantage of being rooted in benchmark market comparison appraisals. When adjusting the sales to the base lot, the appraiser explicitly considers differences in location, size, traffic flow, accessibility, and other relevant factors. Thus, the method can produce accurate, supportable benchmarks and is conceptually superior to the comparative unit value method when parcels differ significantly in size, view, traffic flow, and other important site factors.

The primary advantage of the comparative unit value method is its relative ease and simplicity. Suppose there are ten to twenty vacant land sales in a residential neighborhood, that each has been adjusted to the assessment date, expressed in terms of a common unit, and plotted on a map of the neighborhood. An appraiser knowledgeable about the neighborhood could probably derive a reliable per square foot value for the neighborhood with little difficulty. Of course, this is only a starting point. The comparative unit value must then be refined by block and site adjustments applied at the individual parcel level, just as in the base lot method.

There is no reason to assume that either method must be used exclusively. The comparative unit value method is well suited to strata in which parcels vary substantially in size but are relatively homogeneous in other respects. In such cases, the appraiser might want to take advantage of the efficiency of the method. The base lot method, however is well suited to strata in which parcels are similar in size but vary substantially in site characteristics. The method helps the appraiser to adjust appropriately for such factors in establishing base lot values.

Site Adjustments

After establishing comparative unit values or base lot values by strata and, perhaps, by substrata or block face, the appraiser can determine individual parcel values by applying any necessary site adjustments. Site adjustments recognize the characteristics of individual parcels, such as size, shape, and topography. Site adjustments can be developed and applied in one of three ways:

1. By adding and subtracting dollar amounts
2. By adding and subtracting percentages
3. By multiplying factors

Types of Site Adjustments

Site adjustments required in land valuation can be grouped into the following categories:

- A. Depth Adjustments
- B. Other Size Adjustments
- C. Irregular Shape
- D. Corner Influence
- E. Location and Other

Depth Adjustments

Size is perhaps the most important site characteristic requiring adjustment, because larger parcels often sell for less per unit than smaller parcels. One kind of size adjustment, depth adjustments, are important when land is appraised on a front-foot basis. Assume, for example, that the comparative unit value of a block face in a

commercial area has been established at \$425 per front foot and that the standard depth of parcels in the area is 100 feet. The land value of a 100-foot by 100-foot parcel is the value of a lot 100 feet wide and 200 feet deep is probably more than \$42,500 but less than twice \$85,000.

Depth tables provide a means of adjusting front-foot values for parcels of nonstandard depth. The tables result in front foot values that increase with depth, but at a slower rate. Depth tables apply the principle of contribution, which states that the value of a characteristic is measured by its contribution to the value of the whole.

Depth factors should be based on market analysis. They can be developed by plotting sale price per front foot against depth and then drawing a smooth line or curve to fit the data. The relationship is not likely to be linear, so use of statistical techniques that assume a straight-line relationship should be avoided. In this case, manually fitting a smooth curve to the data is probably preferred. Sales used in the analysis should either have similar site characteristics or be adjusted for such characteristics.

A rule of thumb sometimes used to help construct depth tables is the “4-3-2-1 rule”. This rule states that the first 25 percent of depth represents 40 percent of value, the second 25 percent of depth represents 30 percent of value, the third 25 percent of depth represents 20 percent of value, and the final 25 percent of depth represents 10 percent of value. Although this rule of thumb can be helpful, actual depth tables should be supported by market data.

Depth factors for various zoning classifications and areas often differ greatly. In some cases, land values increase or decrease in proportion to direct depth. This is often so with industrial or farm property and some commercial properties, particularly shopping centers. At the other extreme, the front-foot, or strip value of commercial property may increase only slightly as depth increases beyond norms. Residential property usually falls somewhere between these two extremes.

Other size Adjustments

When land is appraised on a basis other than the front foot, size adjustments can be derived and applied in a manner analogous to that described for depth adjustments. For example, if the square foot is the unit of comparison, sale price per square foot should be plotted against square feet and an appropriate curve fit to the data. When the parcel or lot is used as the unit of comparison or when the base lot method is used, adjustments may be required for “excess” land or for undersized lots. As with depth tables, consistency in making such adjustments requires that the size (or range in size) of the standard parcel or base lot be specifically defined beforehand.

Irregular Shape

Irregular shape lots include lots that are triangular, trapezoids or other irregular shaped lots that are not square or rectangular. These lots must be valued differently due to the fact that irregular sized lots are worth less than a rectangular or square lot of the same area and frontage because of the lost utility of construction and general use.

A rule of thumb sometimes used in appraising triangular commercial lots is the “65-35 rule”. This rule states that the value of a triangular lot with its base on the facing street will be approximately 65 percent of that of a rectangular lot of the same frontage and depth. Similarly, the value of a triangular lot with its apex on the facing street will be 35 percent of that of a rectangular lot of the same frontage and depth.

Trapezoids and other irregular lots can be appraised in one of two ways. First, the lot can be divided by a series of lines drawn parallel to the facing street. The portion of the lot within each interval is approximated with a

rectangle and valued by a depth table. The total value of the lot is found by adding the values calculated for each of its parts. Second, the lot can be segmented by a series of lines drawn perpendicular to the facing street, the object being to divide the property into a number of rectangles or triangles. Again the value is found as the sum of the parts. In both cases, accuracy requires a set of carefully drawn parcel maps. The exercise of good appraisal judgment is always important in such cases.

Corner Influence

The effect of corner influence on value is largely a function of property type and location. Corner influence is most consistently found in commercial properties, especially retail stores, grocery stores, and gas stations. The advantages of a corner location for these properties include greater ease of entry and exit, accessibility to a higher volume of street traffic, and increased show window and advertising space.

Corner location can also influence residential land values, although the degree of influence is much smaller and less consistent. On the one hand, property values are raised by easier access and better landscaping opportunities. On the other hand, corner lots generally entail increased maintenance responsibilities, exposure to traffic, and added liability to special assessments for street maintenance and improvements. If a regional or local pattern is not evident, a reasonable policy is to ignore corner influence altogether in appraising residential properties. Nevertheless, it is relatively easy to test the effect of corner influence on residential property values through multiple regression analysis or other applications of the sales comparison approach to value.

Adequately adjusting for corner influence for commercial properties presents one of the most difficult appraisal problems. One theoretical question to resolve at the outset is how far corner influence extends. There are three possibilities. The first is to view corner influence as extending the full length of the corner lot. The second is to view corner influence as extending a certain distance, say 100 feet. The third is to view corner influence as extending a certain distance, perhaps less than, but not beyond, the corner lot.

There are also three basic approaches to computing the value of corner influence. The first is to compute corner influence simply as a percentage of the base land value. Assume, for example that a parcel is 100 feet square, the standard front foot value is \$375 per front foot, the standard depth is 100 feet, and corner influence increases values in the area by 50 percent. The corner influence factor is 1.50 and the indicated land value is:

$$100 \times \$375 \times 1.50 = \$56,250$$

Second, corner influence may be computed as a function of the ratio of side street to main street front foot values. Assume, for example, that standard front foot values are \$600 for the main street and \$400 for the side street. The estimated corner influence adjustment is 67 percent (\$400 divided by \$600) an adjustment factor of 1.67. This method recognizes the relative advantage of different side streets, applying a larger adjustment for side streets with higher value than for side streets with lower value.

The third method, known as the Bernard rule, is to appraise the corner lot as the sum of two separate lots, one facing on the main street and one facing on the side street. This method has been criticized as applying too much corner influence. However, it is easy to modify the approach. The value of the corner lot, for example, may be computed as the value of the facing lot plus, say, two thirds of the value of the lot viewed as facing on the side street. Note, however, that when the zone of corner influence is considered to extend beyond the boundary of the corner lot, the Bernard rule, or a modification of it, can be applied on to the corner parcel.

Such computations may not be practical or necessary in mass appraisal. Nonetheless, the appraiser should plot and analyze available market data and reflect market patterns in appraisal policies, guidelines, and tables. The resulting values should be consistent and explainable.

Location and other Adjustments

Land values will often vary significantly within an area due to proximity to schools, shopping centers, public transportation, nuisances, and so on. If comparative unit or base lot values have been refined at the block level, no further adjustments will be required for these factors. Otherwise, appropriate adjustments should be developed based on paired sales and other market analysis. Plotting sales and other market data on land maps can make such analysis easier.

Other site characteristics often requiring adjustments include view, topography, traffic flow, limited access, flooding susceptibility, noises and other nuisances, golf course or water frontage, soil conditions, and drainage. Such adjustments, however, are required only when some of the parcels in the neighborhood or stratum are affected. If none or all of the parcels are affected, no adjustments are required, because standard or common features are reflected in comparative unit and base lot values.

Land Valuation with Insufficient Sales

When vacant land sales are insufficient for the sales comparison approach, the appraiser must resort to one of the more less preferred methods. Successful application of these techniques requires careful research and good judgment.

Abstraction Method

In the abstraction method, also known as the land residual method, improvement values obtained from the cost model are subtracted from sales prices of improved parcels to yield residual land value estimates. These calculated values are then used as a supplement or alternative to vacant land sales in application of the sales comparison approach. The method is particularly useful in highly developed areas where there are few, if any, vacant land sales. It's reliability depends on the accuracy of the sales data and improvement values used in the analysis. In general, the method is more accurate for parcels with relatively new structures, for which replacement cost and depreciation are more easily estimated.

When sales of improved parcels are scarce, appraised values can be used in lieu of sales prices to obtain estimates of total property values. Improvement values are then subtracted from total values to obtain land residuals. Calculated land residuals are completely divorced from direct sales data. In such cases, the land residuals will on be as accurate as both the total and improvement estimates from which they are derived. Accordingly, appraiser should use the method only as a last resort when sales data for both vacant and improved parcels are inadequate and then only when the total and improvement value estimates have been carefully validated.

The land residual method should never be used to establish land values directly, because inconsistencies in land values from parcel to parcel will result. Instead, land residuals should be analyzed in the same way as vacant land sales in order to establish comparative unit or base lot values. Then estimation of land values for both vacant and improved parcels in the usual way will be uniform and consistent from parcel to parcel.

Allocation Method

The allocation method is also known as the land ratio method. In theory, for a given type of property and area there tends to be a consistent overall relationship between land and improvements values. Hence, when there are insufficient vacant land sales in a given area, the appraiser can seek comparable areas with sufficient land

sales, determine the typical ratio of land value to total value, and apply the ratio to sales of improved parcels or other benchmark parcels in the subject area.

As with the abstraction method, however, the allocation method should not be used to establish land values directly. Once obtained, the typical land ration is applied to sales prices to obtain a set of estimated benchmark values. The ratio may be applied to appraised values for selected parcels, but this is less desirable.

An advantage of the allocation method over the abstraction method is the estimated improvement values are not explicitly required in the analysis. This makes the allocation method particularly useful in older neighborhoods with few sales of vacant or newly improved parcels. The method can be reasonably accurate if applied with care and validated to ensure that calculated land and improvement value estimates are consistent with available sale price data.

Cost of Development Method

The cost of development method can be appropriate for newly subdivided land or land ripe for subdivision. The appraiser projects improvements to land, estimates the total revenues and development costs, and calculates the value residual to the land after subtraction all costs, expenses, and profit. The method is based on the principle of surplus productivity. Land value is calculated as a residual after the requirements of labor, capital, and management are satisfied.

For example, assume that the subject property is a 40 acre parcel zoned for residential use with four home sites allowed per acre. Developers are currently selling 1/4 acre lots in the area, with street improvements and utilities for \$17,500 to \$22,000 (\$20,000 is typical). Site preparation, street improvements, and utilities will cost approximately \$1,400,000. The planning, administrative, sales, and other overhead costs average 25 percent of gross sales in such projects and a reasonable allowance for interest expenses, other holding costs, and profit is 40 percent of net income. The estimated value would be calculated like this:

Projected sale price of lots		
(160 x \$20,000)	=	\$3,200,000
Site development costs	=	-\$1,400,000
Total overhead costs		
(25% of \$3,200,000)	=	<u>-\$800,000</u>
Net income before holding costs		
and profit	=	\$1,000,000
Holding costs and profit		
(40% of \$1,000,000)	=	<u>-\$400,000</u>
Indicated value of undeveloped		
Land	=	\$600,000

The method involves considerable speculation and should be used cautiously. The projected improvements must represent the most probable use of the land. Estimated costs should include the direct costs of site preparation, utility hookups, all indirect costs, and a reasonable allowance for profit. As long as the land is not subdivided, anticipated revenues and expenses should be discounted for time. Once subdivided, however, each parcel becomes an individual entity, and it's value should reflect its most probable sale price if exposed to the current market.

Special Land Valuation

Section 23.25 of the Tax Code deals with appraisal of land parcels that are used for single family residential purposes and are contiguous to land parcels under the same or family ownership or ownership by an affiliated entity, which are appraised under Subchapter C (1-D) or Subchapter D (1-D-1) of the Tax Code. If a parcel of residential land meets these criteria, it is appraised using the following steps:

1. Determine the amount of acres included in the land parcels that are contiguous.
2. Take the amount of acres as determined in step one and apply that acreage to the residential effective acreage.

Residential land that receives this treatment receives a form of special appraisal. It should also be noted that when the adjacent parcel loses its agricultural appraisal due to a rollback, change of use, or any other reason then the residential parcel will also no longer qualify for this special appraisal. The parcels would then be valued separately at their respected market values.

Monitoring Appraisal Accuracy

Every year to help and monitor the accuracy of land appraisal a ratio report will be created that is organized by school district. This ratio report is important because it helps to ensure that the level of appraisal is consistent from area to area.

Physical Reviews and Reappraisals

The interval for periodic field review and reappraisal of land will be set at every three years, unless market or physical conditions warrant an earlier reappraisal. These market conditions should be indicated by sales ratio studies or other market analysis.

Property Modifiers and Adjustments

During both field work and hearings it is the policy of BCAD to leave all modifiers and adjustments to the discretion of the appraiser. This includes physical, economic, function, % complete, flat values, improvement detail adjustments, building schedule adjustments, land adjustments, etc. The appraisers should always use their best judgment when applying the modifiers and adjustments that effect the contributory market value of all improvements and land. All applicable evidence should also be scanned into the property to include notes, pictures, and any other evidence that is available.

Land Types

The following are the land types used by BCAD.

Square Foot Method

S0—Misc - Wetland

S1—Primary Site

S2—Secondary Site

S3—Irregular Lot

S4—Waterfront Lot

S5—Waterview

S6—Canal Lot

S7—Lake Lot

S8—Golf Course Lot

S9—Lake Lot

S10—Beach Waterfront

S11—Bay Waterfront

S12—Bayou Waterfront
S13—Creek Waterfront
S14—Lagoon Waterfront
S15—Restricted Reserve
S16—River Lot
S17—Directors Lot
S18—Cul-de-sac
S19—Utility Lot
S20—Drainage Easement
S21—Townhome
S22—Cemetery
S23—Right-of-Way
S24—Park

Acreage Method

A0—Other
A1—Front Acreage
A2—Back Acreage
A3—Residual Acreage
A4—Improved Pasture
A5—Unimproved Pasture
A6—Waterfront
A7—Timberland
A8—Wasteland
A9—Tillable
A10—Beach Waterfront
A11—Bay Waterfront
A12—Bayou Waterfront
A13—Creek Waterfront
A14—Commercial Reserve
A15—Park
A16—Det-Ret Pond
A17—Landscape
A18—Drill Site &/or Oilfield
A19—Right-of-Way
A20—Sandpit or Sandpit Lake
A21—Restricted Reserve
A22—River Lot
A23—Wildlife Refuge
A24—Directors Lot
A25—Designated Wetlands
A26—Utility Lot
A27—Cemetery
A28—Golf Course
A29—Airport
A30—Drainage Easement
A31—Reserve
A32—Lake Lot

A33—Stock Pond
A34—Landfill
A35—Airfield Restricted

Site Value

G0—Misc Other
G1—Irregular Lot
G2—Site Value
G3—Waterfront
G4—Waterview
G5—Golf Course
G6—River Lot
G7—Creek Lot
G8—Bayou Lot
G9—Bay Lot
G10—Det-Ret Pond
G11—Reserve
G12—Landscape Reserve
G13—Park
G14—Sandpit or Sandpit Lake
G15—Drill Site
G16—Designated Wetlands
G17—Right of Way
G18—Directors Lot
G19—Utility Easement
G20—Drainage Easement
G21—Public Beach/Sand Dune
G22—Pipeline or Power Esmt
G23—Submerged Underwater Lot
G24—Waterwell Drill Site
G25—Lake
G26—Canal

Classes

The following are the classes used by BCAD

RU-21 OR RR-21

Subdivision of superior quality homes primarily in master-planned areas with multiple amenities within the subdivision or in close proximity. Strict restrictions with large degree of uniformity and architectural standards.

Streets – Concrete curb and gutter; cobblestone (possible secure entrance or private street)

Restrictions – Strict with high degree of conformity and/or architectural control

Access – Superior, close to major urban thoroughfares, bus stops, airports, and/or mass transit facilities.

Utilities – Public municipal, village, or MUD districts

Amenities – May include golf course, pool, gymnasium, tennis, or other club facilities.

Lot Size – Consistent with area standards

RU-19 OR RR-19

Subdivision of very good homes with either master planned, Country Club, or strict subdivision restrictions characteristics.

Streets – Concrete curb and gutter.

Restrictions – Strict with high degree of conformity.

Access – Superior; close to major urban highway arteries, bus stops, airports, or mass transit facilities.

Utilities – Public municipal, village, or MUD districts.

Amenities – May include golf course, community pool, or other club facilities.

RU-16 OR RR-16

Subdivision of average to above average homes with subdivision restrictions. Some variations in ages, architecture, etc. May or may not be Master Planned.

Streets – Concrete curb and gutter or well maintained asphalt.

Restrictions – Strict with high degree of conformity allowing for some differences in age, size, and architecture

Access – Good, close to major municipal thoroughfares and collector streets.

Utilities – Public municipal, village or MUD district. RR categories private systems meeting current sanitation standards.

Amenities – Generally good access to local public amenities (parks, etc). May or may not contain subdivision controlled amenities.

Lot Size – Consistent with area standards.

RU-13 OR RR-13

Subdivisions or mostly fair to average homes with or without subdivision restrictions. Variations in age, architecture, and quality may be present. Older subdivisions with evidence of re-development can fit this category.

Streets – Concrete curb and gutter or asphalt open ditch. May show signs of lower quality or deferred maintenance.

Restrictions – Minimal with various degrees of conformity.

Access – Average to good; generally close to municipal collector streets or county roads.

Utilities – Public municipal. RR categories have private systems meeting current sanitation standards.

Amenities – Minimal

Lot Size – Consistent with area standards

RU-11 OR RR-11

Subdivision of relatively low quality to fair quality construction generally without subdivision restrictions. Subdivisions in transition or undergoing re-development can fit in this category.

Streets – Concrete curb and gutter or asphalt with or without open ditch. Signs of neglect or deferred maintenance common.

Restrictions – Minimal; little attention to conformity.

Access – Average

Utilities – Public municipal. RR categories have private systems (may show signs of needing maintenance or upgrading).

Amenities – Minimal

Lot Size – Consistent with area standards. In some cases lot sizes may be smaller than the area norm.

RU-8 OR RR-8

Subdivision of low quality to very low quality construction with no restrictions. Mixed construction types with little or no uniformity. Overall condition of residences is poor.

Street – Concrete, asphalt, gravel, or dirt poorly maintained.

Restrictions – None

Access – Fair to poor; some neighborhoods actually isolated

Utilities – Public municipal, RR categories have private systems with many showing neglect, insufficiency, or inadequacy.

Amenities – None

Lot Size – Consistent with area standard. Undersized lots or higher than normal density may be evident.

RU – TOWNSITE

Townsite Areas: Predominantly older commercial and residential uses. These areas may be the original platted areas of a municipality. Mixture of land uses is normal. Residential quality and characteristics can vary greatly.

Streets - Concrete curb and gutter or well maintained asphalt.

Restrictions - Generally not restricted. Can be subject to special permit requirements or zoning ordinances.

Access – Good, generally close to major thoroughfares. Many times the heart of the city.

Utilities – Public

Amenities - Good access to public amenities.

Lot Size - Consistent with area standards. Many times platted in block pattern or grid. Alleys may be present.

RU-TH or RU-PH (Townhomes) or (Patio Homes)

Subdivisions designed for Townhome or Patio Home residential units. May be designed for zero lot line construction. Some designs may have structures sharing common walls.

Streets—Concrete curb and gutter in planned developments. May have open ditch lots in older townsite areas.

Restrictions—Strict with high degree of conformity. Most subdivisions will have common area maintenance provisions.

Access—Good; close to all major public services and urban areas.

Utilities—Public municipal, village, PUD and/or MUD districts.

Amenities—May include access to golf course, community pool, park, or other community amenities.

RU-MHP or RR-MHP

Subdivisions designed for manufactured home occupancy. Land and utilities are rented by occupants. Manufactured dwellings may be owner occupied or tenant occupied.

Streets—Mostly concrete curb and gutter in RU category; gravel, concrete, or asphalt in RR category.

Restrictions—Vary from strict RU category to minimal in RR category.

Access—Average to good; generally close to municipal collector streets or county roads.

Utilities—Public municipal. RR categories may have private septic systems with private community water systems.

Amenities—Vary; some urban areas may have community pool; minimal otherwise.

RU – BEACH or RR – BEACH

Subdivisions designed, platted, and developed for beach access. Residential structures of varying age, architecture, and size common. Uses vary from part – time second homes and rentals to full – time residences.

Streets – Surface varies from gravel or sand to asphalt or concrete.

Restrictions – May or may not be subject to subdivision restrictions. Land use restrictions can be from various jurisdictions including state and federal agencies.

Access – ingress and egress to subdivision typically via state or county road. Access to beach may be public or private.

Utilities – Public municipal, community water/sewer, or private septic.

Amenities – Access to beach area the predominant amenity. Some beach crossovers or decking may be present. May include Community Clubhouse.

Lot Size – Typically small SQFT <10,000 sq. ft. Some long and narrow lots may be present. Lot size can effect development potential due to private septic system regulations.

RU – BAY OR RR – BAY

Subdivisions designed, platted, and developed for bay access. Residential structures of varying age, architecture, and size common. Uses vary from part – time second homes and rentals to full – time residences.

Streets – Surface varies from gravel or sand to asphalt or concrete.

Restrictions – May or may not be subject to subdivision restrictions. Land use restrictions can be from various jurisdictions including state and federal agencies.

Access – Ingress and egress to subdivision typically via state or county road. Access to bay may be public or private.

Utilities – Public municipal, community water/sewer, or private septic.

Amenities – Direct access to the bay area the predominant amenity. Some dock facilities, boat launches, and lighting may be present. Clubhouse, parking area, or fish cleaning area may be present.

Lot Size – Typically small SQFT <10,000 sq. ft. Some long and narrow lots may be present. Lot size can effect development potential due to private septic system regulations.

Commercial/Industrial – Restricted (CR)

Subdivisions platted and created for commercial or industrial users.

Streets - Concrete curb and gutter or asphalt. In certain cases, the development may have a controlled access with its own private streets.

Restrictions - Subject to municipal building codes, zoning regulations, and/or planned development restrictions.

Access - Public access to urban streets and thoroughfares. Reasonable access to controlled access roads.

Utilities - Public municipal, village, MUD districts, or planned development facilities.

Lot Size - Consistent with area standards.

Commercial/Industrial – Unrestricted (CU)

Commercial sites developed in both urban and rural areas independent of subdivision or planned unit development standards.

Streets - Concrete curb and gutter or asphalt.

Restrictions - None, except in urban areas subject to municipal building codes or zoning ordinances.

Access - Public access to urban or rural streets and thoroughfares.

Utilities - Public utilities in urban area or private utilities in rural areas.

Lot Size - Consistent with area standards. In rural areas, lot size may not be consistent with surrounding land uses

Residential Square Foot Land Size Influence Table

<u>Sq. Ft. Size</u>	<u>% of Base</u>
000000 - 007200	100%
007201 - 007800	99%
007801 - 008400	98%
008401 - 009000	97%
009001 - 009600	96%
009601 - 010200	95%
010201 - 010800	94%
010801 - 012000	93%
012001 - 014400	92%
014401 - 021600	91%
021601 - 028800	90%
028801 - 036000	89%
036001 - 043200	88%
043201 - 050400	87%
050401 - 057600	86%
057601 - 062400	85%
062401 - 069600	84%
069601 - 076800	83%
076801 - 084000	82%
084001 - 091200	81%
091201 - 098400	80%

<u>Sq. Ft. Size</u>	<u>% of Base</u>
098401 - 105600	79%
105601 - 112800	78%
112801 - 120000	77%
120001 - 127200	76%
127201 - 134400	75%

Commercial Square Foot Land Size Influence Table

<u>Sq. Ft. Size</u>	<u>% of Base</u>
00000 - 22000	100%
22001 - 23000	98%
23001 - 25000	95%

25001	-	27000	92%
27001	-	29000	90%
29001	-	31000	88%
31001	-	33000	85%
33001	-	35000	82%
35001	-	38000	80%
38001	-	41000	78%
41001	-	44000	75%
44001	-	66000	72%
66001	-	88000	70%

Land Regression Tables

<u>Acreage</u>	<u>% of Base</u>
000.00 - 000.49	110%
000.50 - 000.74	105%
000.75 - 001.25	100%
001.26 - 001.75	95%
001.76 - 002.25	90%
002.26 - 002.75	85%
002.76 - 003.50	80%
003.51 - 004.75	75%
004.76 - 006.00	70%
006.01 - 008.00	65%
008.01 - 010.00	60%
010.01 - 015.00	55%
015.01 - 020.00	50%
020.01 - 030.00	45%
030.01 - 045.00	40%
045.01 - 060.00	35%
<u>Acreage</u>	<u>% of Base</u>
060.01 - 080.00	30%
080.01 - 100.00	25%
100.01 - 200.00	20%
201.01 - 350.00	15%
350.01 - 500.00	10%
500.01 - +	5%

Man Made Deterrents to Land Values Pipelines, Highlines, Shape, Restrictions, Access

<u>Acres</u>	<u>50% or More</u>	<u>25% to 49%</u>
0000 - 0000.99	30%	15%
0001 - 0004.99	20%	10%
0005 - 0009.99	15%	8%
0010 - 0024.99	10%	5%
0025 - 0049.99	5%	3%

0050 - 0099.99	3%		2%	
0100 - 0249.99	3%		2%	
0250 - 0499.99	2%		1%	
0500 - 0999.99	1%		0%	
1000 -	+	1%		0%

<u>Acres</u>		<u>10% to 24%</u>	<u>Under 10%</u>	
0000 - 0000.99	8%		4%	
0001 - 0004.99	5%		3%	
0005 - 0009.99	4%		2%	
0010 - 0024.99	3%		2%	
0025 - 0049.99	2%		1%	
0050 - 0099.99	1%		0%	
0100 - 0249.99	0%		0%	
0250 - 0499.99	0%		0%	
0500 - 0999.99	0%		0%	
1000 -	+	0%		0%

Land Regression Table

Brazoria County Appraisal District

Average Size	Base	10,000	9,500	9,000	8,500	8,000	7,500	7,000	6,500	6,000	5,500	5,000	4,500	4,000	3,500	3,000	2,500	2,000	1,500	1,000
00-.49	110%	11,000	10,450	9,900	9,350	8,800	8,250	7,700	7,150	6,600	6,050	5,500	4,950	4,400	3,850	3,300	2,750	2,200	1,650	1,100
50-.74	105%	10,500	9,975	9,450	8,925	8,400	7,875	7,350	6,825	6,300	5,775	5,250	4,725	4,200	3,675	3,150	2,625	2,100	1,575	1,050
75-1.25	100%	10,000	9,500	9,000	8,500	8,000	7,500	7,000	6,500	6,000	5,500	5,000	4,500	4,000	3,500	3,000	2,500	2,000	1,500	1,000
1.26-1.75	95%	9,500	9,025	8,550	8,075	7,600	7,125	6,650	6,175	5,700	5,225	4,750	4,275	3,800	3,325	2,850	2,375	1,900	1,425	950
1.76-2.25	90%	9,000	8,550	8,100	7,650	7,200	6,750	6,300	5,850	5,400	4,950	4,500	4,050	3,600	3,150	2,700	2,250	1,800	1,350	900
2.26-2.75	85%	8,500	8,075	7,650	7,225	6,800	6,375	5,950	5,525	5,100	4,675	4,250	3,825	3,400	2,975	2,550	2,125	1,700	1,275	850
2.76-3.50	80%	8,000	7,600	7,200	6,800	6,400	6,000	5,600	5,200	4,800	4,400	4,000	3,600	3,200	2,800	2,400	2,000	1,600	1,200	800
3.51-4.75	75%	7,500	7,125	6,750	6,375	6,000	5,625	5,250	4,875	4,500	4,125	3,750	3,375	3,000	2,625	2,250	1,875	1,500	1,125	750
4.76-6.00	70%	7,000	6,650	6,300	5,950	5,600	5,250	4,900	4,550	4,200	3,850	3,500	3,150	2,800	2,450	2,100	1,750	1,400	1,050	700
6.01-8.00	65%	6,500	6,175	5,850	5,525	5,200	4,875	4,550	4,225	3,900	3,575	3,250	2,925	2,600	2,275	1,950	1,625	1,300	975	650
8.01-10.00	60%	6,000	5,700	5,400	5,100	4,800	4,500	4,200	3,900	3,600	3,300	3,000	2,700	2,400	2,100	1,800	1,500	1,200	900	600
10.01-15.00	55%	5,500	5,225	4,950	4,675	4,400	4,125	3,850	3,575	3,300	3,025	2,750	2,475	2,200	1,925	1,650	1,375	1,100	825	550
15.01-20.00	50%	5,000	4,750	4,500	4,250	4,000	3,750	3,500	3,250	3,000	2,750	2,500	2,250	2,000	1,750	1,500	1,250	1,000	750	500
20.01-30.00	45%	4,500	4,275	4,050	3,825	3,600	3,375	3,150	2,925	2,700	2,475	2,250	2,025	1,800	1,575	1,350	1,125	900	675	450
30.01-45.00	40%	4,000	3,800	3,600	3,400	3,200	3,000	2,800	2,600	2,400	2,200	2,000	1,800	1,600	1,400	1,200	1,000	800	600	400
45.01-60.00	35%	3,500	3,325	3,150	2,975	2,800	2,625	2,450	2,275	2,100	1,925	1,750	1,575	1,400	1,225	1,050	875	700	525	350
60.01-80.00	30%	3,000	2,850	2,700	2,550	2,400	2,250	2,100	1,950	1,800	1,650	1,500	1,350	1,200	1,050	900	750	600	450	300
80.01-100.00	25%	2,500	2,375	2,250	2,125	2,000	1,875	1,750	1,625	1,500	1,375	1,250	1,125	1,000	875	750	625	500	375	250
100.01-200.00	20%	2,000	1,900	1,800	1,700	1,600	1,500	1,400	1,300	1,200	1,100	1,000	900	800	700	600	500	400	300	200
201.01-350.00	15%	1,500	1,425	1,350	1,275	1,200	1,125	1,050	975	900	825	750	675	600	525	450	375	300	225	150
350.01-500.00	10%	1,000	950	900	850	800	750	700	650	600	550	500	450	400	350	300	250	200	150	100
500.01 - +	5%	500	475	450	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50
JUDGMENT																				

Ex) Sales of 9 acre tracts are at \$3000 per acre. The tracts needed to be valued are 3 acre tracts. What is the indicated value?

- Locate the appropriate tract size for the known value. In this example, the 8.01 - 10.00
- Locate the known value within this row. The \$3000 value appears under the \$5000 base column.
- Now locate the Tract size in question. The 3 acre tract will fall in the 2.76 - 3.50 row.
- From this row you can do one of two things. The first column indicates that this tract should be valued at 80% of Base. We know the base value is \$5000 as this is the column located with our known values. Therefore $5000 \times 80\%$ (or $.8$) = \$4000. Or simply move across the 2.76 - 3.50 row to the \$4000 base column where you will find an indicated value of \$4000.

Chapter IV – Residential

Introduction

This chapter covers the appraisal of residential real property and explains the processes and procedures used to appraise such property. Compliance with the Uniform Standard of Professional Appraisal Procedures (USPAP) and the International Association Assessing Officers (IAAO) is required and should be followed at all times. Consistency in appraisal practices are also very important and BCAD is required by law to appraise all property with general uniformity. It is also the policy at BCAD that each property in the district is to be visited at least one time every three years so that property characteristics can be updated and any new improvements can be added.

Identifying Property

The appraiser's first task is to identify what is being appraised. This includes a physical description of the property, its location, specification of the property rights to be appraised, definition of the purpose and function of the appraisal, specification of the date of the appraisal, and to define the type of value to be determined. There are six basic rights associated with the private ownership of property and they are:

- The right to use
- The right to sell
- The right to lease or rent
- The right to enter or leave (for real property)
- The right to give away
- The right to refuse to do any of these

If any of these six basic rights are not present then this should be noted in PACS and on the property record card.

It should also be noted that the principle of consistent use should be followed when appraising property. This means that a property must be valued with a single use for the entire property. The improvement cannot be valued according to one use and the land valued based on another use.

Identifying Additions and New Improvements

In order to help identify additions and new improvements on parcels that are inside our county and cities it is required for residents to submit building permits. These building permits are collected quarterly from each of the entities that require permits like the county and cities. Some are electronically submitted and others require a employee from the appraisal district to pick them up. It is the policy of BCAD to get all permits and enter them into the PACS system. Appraisers will then visit each property with a permit and check for the new improvement or addition that could be on the property. If the improvement on the building permit is not started as of Jan. 1st then a re-check for the following year will need to be placed on the subject property. After checking the property for the new improvement the building permit in the system should be deactivated.

Preliminary Survey and Planning

During the preliminary survey and planning the appraiser should consider the potential highest and best use on the property and which valuation approaches are most valid and useful.

Highest and Best Use

The principle of highest and best use means that the market value of property depends on potential use rather than on current use alone. Highest and best use can be defined as the use which will generate the highest net return to the property over a reasonable period of time. To support a conclusion of highest and best use the following criteria must be met:

- It must be physically possible
- It must be legally possible
- It must be financially feasible
- It must be the most productive, resulting in the highest land/improvement value.

During the analysis of highest and best use it should be determined if the highest and best use will be to look at the land as though it is vacant or as it is currently improved. When the highest and best use will be with the land that is vacant then the appraiser will disregard any current improvement on the land and determine which land use would maximize land value.

To help and determine if the current improvement will be the highest and best use then the appraiser needs to determine if the current land use is the most profitable to the owner. The appraiser also needs to determine if the current improvement should be kept or razed.

To determine the value of a property that is not currently at highest and best use an alternative to the cost approach is required (cost approach can only be valid when there is consistent use). To determine value do the following:

- Estimate value of the land and current improvements assuming continuation in existing use.
- Subtract the cost of clearing the site from the highest and best use value of the site and add the salvage of the improvements, if any.
- Subtract the cost of conversion to alternate use from the value after conversion.

For example, you have a residential property in a commercial area. The residential property is not a homestead and is currently being used as rental property. The value as residential on the improvement is \$45,000 and the land value for residential use is \$18,500 giving the residential market value of \$63,500. Vacant lots of the same size and topography in the same commercial area have recently sold for \$95,000. It would cost approximately \$5,000 to remove the existing improvement. This would make the appraised value of the subject property using the highest and best use at \$90,000.

Important Note: See house bill 3613 from the 81st Legislature session for more information on how highest and best use is used on property that has a residential homestead. This bill makes the change that a residence homesteads market value for ad valorem tax purposes is determined solely on the basis of the property's value as a residence homestead, regardless of highest and best use. This bill became effective Jan 1, 2010.

Three Approaches to Value

There are three approaches to value that are used to specify the market value. They are as follows:

- Income Approach
- Cost Approach
- Sales Comparison Approach also known as Market Approach

For residential purposes the two main approaches to value will be the Cost Approach and Sales Comparison

Approach. The common element in all three approaches is that they must contain terms that represent the working of both the supply and demand sides of the market. Each approach, however, uses different sources of data to represent supply and demand.

The sales comparison approach uses sales prices as evidence of the value of similar properties. The price at which property sells is the price at which supply and demand meet at the time of sale.

The income approach uses income and expense data to represent supply and demand. The principles of anticipation and substitution are recognized in the income approach. Buyers want property because they anticipate a future stream of income. However the availability of other investments, which can be substituted for real estate investment, influences both the demand for and supply of income-producing property.

The cost approach assumes that the value of an existing improvement is the cost of constructing and equally desirable substitute. An investor has the option of buying an existing improvement or constructing a new one with equal utility. To estimate the value of an existing improvement, the appraiser calculates what it would cost to construct a functionally equivalent improvement and subtracts from the cost of an estimate of depreciation in the existing improvement.

Data Collection and Analysis

During this phase of the appraisal process the appraiser will start to collect specific information on the account that they are working in the field. This specific property information will include pictures of the property, measurements, notes specific to that property, measurements of new improvements, measurements of additions, etc..

When going in the field the appraiser should be ready to go out by 9 am. All personnel going into the field must take a partner. This is mandated not only to better insure accuracy, but also to provide safety. All appraisers should wear the district provided uniform shirts in the field and take identification, signs, etc..

While in the field all appraisers should stay alert about their surroundings at all times. The appraisers should be on the lookout for any new construction that might not have had a building permit taken out. If unsure about a property then the appraiser should mark their map and check the property when they get back to the office.

Data Collection Accuracy Standards

All BCAD residential building measurements are done from the exterior, with individual measurements rounded to the closest foot. This measurement includes all closet space, hallways, etc. Attached garages are not included in the square footage of the living area, but valued separately. Living area above attached garages is included in the square footage living area of the dwelling. Living area above detached garages is not included in the square footage living area of the dwelling but is valued separately.

This method is used on all residential properties in Brazoria County to ensure the uniformity of square footage of living area measurements district-wide. At all times the measurement data collected should be accurate to within one foot of the true measurement or within five percent of the total area. Any measurements that need to be estimated should be noted on the property record card that is turned and scanned into the account.

For all objective data categories at least 95% of the keyed entries should be accurate. This includes not only measurements, but all any attributes such as exterior wall material, number of bathrooms, waterfront view, etc... This means that out of 100 entries 95 should be correct.

For all subjective data categories at least 90% should be keyed correctly. This includes data items such as

quality grade, physical condition, and architectural style.

Property Modifiers and Adjustments

During both field work and hearings it is the policy of BCAD to leave all modifiers and adjustments to the discretion of the appraiser. This includes physical, economic, function, % complete, flat values, improvement detail adjustments, building schedule adjustments, land adjustments, etc. The appraisers should always use their best judgment when applying the modifiers and adjustments that effect the contributory market value of all improvements and land. All applicable evidence should also be scanned into the property to include notes, pictures, and any other evidence that is available.

Residential Inventory

Residential Inventory will encompass all properties that are classified under the state code category O in the classification portion of this manual per Section 23.12, Tax Code. The O1 category will be used for vacant land and the O2 category will be used for land with improvements. Properties which qualify for the O2 classification should have O2 placed on both the land and the improvement. All accounts coded with an O1 or O2 will have a 25% reduction in value placed on the land and/or improvements. If the property is in a Municipal Utility District then the prop code Special Inventory (SPINV) should be used. These Special Inventory accounts were created because the Municipal Utility District developers and their successors waived their right of tax exemptions. This means that any lot or lot with improvements in the developer and/or builder's name should receive O1/O2 valuations on any of their property. Accounts associated with these developers that are inside the boundaries of a Municipal Utility District should be left at 100% valuation. If the property is purchased after January 1 then the discount should stay on until the following year. If the property is purchased prior to January 1 then the discount should be removed for that tax year.

New Value and Natural Disasters

The pivotal issue in determining how to value recent reconstructive work on a homestead is to decide whether the work is a "new improvement" or "ordinary maintenance". This part of the manual covers this issue using the Attorney General Opinion No. GA-0091 issued August 20, 2003. The term "new improvement" includes repairs made following a natural disaster because the repairs are not "ordinary maintenance". Improvements that increase the pre-disaster value of the house such as new counter tops, new appliances, an extra bath, or additional Square footage, affect a homestead's valuation, under section 23.23 of the Tax Code, when the improvements are made in the course of repairs from a tropical storm or similar disaster. Upgrades to the residence homestead that increase its market value are not ordinary maintenance and are plainly new improvements. Their value must be included in the capped value of the calculation which would look like this: **(pre-storm cap value + 10%) + repairs (or new value))**

Example 1:

After a hurricane a property has a house that is 20 years old classed as 4- with a value of \$80,000 on the improvement and \$20,000 on land for a total of \$100,000 with an \$18,500 homestead cap has some major damage. The roof is partially torn off of the house during the hurricane and has to be completely repaired costing approximately \$8,500. Due to water getting into the house the carpet was damaged and was replaced with tile costing \$11,000. The kitchen cabinets were damaged beyond repair and the homeowner completely replaced all of them with brand new top of the line brand including a new marble countertop costing \$16,000. The homeowner decides to paint the outside of his house during this time also costing \$450. There were also six broken windows and the homeowner had the glass replaced costing \$1,400. What is new value what is not? Assuming that every new value item added 90% of its cost to the value of the home what would be the value?

New Value:

\$8,500	Roof
\$11,000	Carpet Replaced with Tile
\$16,000	Kitchen

Total: \$35,500

Ordinary Maintenance:

\$450	Paint
\$1,400	Glass Replaced

Total: \$1,850

Value = $((\$100,000 - \$35,500) + 10\%) + \$1,850 = \$102,900$

Example 2:

After a tropical storm, a house that is 10 years old classed as 4+ with a value of \$110,000 on the improvement and \$35,000 on the land for a total of \$145,000 with a \$40,000 homestead cap, has some minor damage. The house lost a few shingles on a 35 year roof and they were replaced by the warranty at a cost of \$200. Some water got into the house and ruined a few of the wood slats in the wood floor costing \$600 to replace the slats bringing the floor back to it's pre-storm condition. A few pieces of the wood siding on the back of the house got destroyed and it was replaced costing \$400. The entire back part of the house needed to be painted due to the replacing of the siding which cost \$150. While the repairs are being completed the homeowner adds an 8x10 patio, but does not take out a permit. The appraiser who inspects the house decides that the all the repairs are ordinary maintenance and picks up the patio as new value. What is the new homestead cap for the current year?

New Value:

\$165	Patio

Total: \$165

Ordinary Maintenance:

\$200	Roof
\$600	Wood Floor Repair
\$400	Wood Siding
\$150	Painting

Total: \$1,350

Value = $(\$105,000 + 10\%) + \$165 = \$115,665$

Homestead Cap = $\$145,165 - \$115,665 = \$29,500$

Basic Measuring Procedures

All BCAD residential building measurements are done from the exterior, with individual measurements rounded to the closest foot. This measurement includes all closet space, hallways, and interior staircases. Attached garages are not included in the square footage of living area, but valued separately. Living area above *attached* and detached garages is included in the square footage living area of the dwelling. This method is used on all residential properties in Brazoria County to ensure the uniformity of square footage of living area measurements district-wide. There can be a reasonable variance between the BCAD square footage and the individual's square footage measurement, especially if the square footage measurement was an interior measurement or an exterior measurement to the inch.

Using red ink complete the portions of the PRC (Property Records Card) that are easily observed. This should include: the foundation, exterior siding, fireplace, heating and air-conditioning, plumbing, etc. Begin forming an opinion of the class at this time and continue to observe the qualities and features that contribute to the determination as the improvement is measured.

Neatly sketch the outline of the improvement in the space provided on the PRC. It is best to write the measurements inside whenever possible. The front, or “street side” of the improvement should be drawn facing you, (the bottom of the drawing). Determine and label the different segments of the improvement (MA, FG, or OFP, etc...). A scale of 20 feet per inch works well with most houses. In the field it is usually impractical to draw to scale, but one should make sure to draw the segments proportionate to one another. A fifty foot wall should be approximately twice as long as a twenty-five foot wall. *See example 1.*

Ex)1



Changes in story height should be easily noticed. On simple 2 stories, use red ink for the 2nd story, black ink on the 1st or ground area as shown in the first example. Often copies of drawings are used in areas where a floor plan is repeated. In these cases highlight the 2nd story and the measurements that are exclusive to the 2nd story. On more complex multilevel houses or the type of houses found on the waterfront, it is better to draw each level separate from the other with a reference to the start of beginning. *See examples 2 and 3.*

DU12XL5,L18,D2XL2,L7,U2XL2,U20,R50,D32,L16

As the house is measured, a close look at the qualities and features should be made and a determination of the class and condition established. Although the class is an opinion of the appraiser, consistency with one's self and other appraisers needs to be maintained.

The number of plumbing fixtures also needs to be determined and should be written on the PRC. This can be accurately estimated from the builder's drawings or the building permit if a walk thru of the building is not possible. If a walk thru is not possible, there are no drawings provided, or the permit does not give any indication of the plumbing the appraiser should list the number of fixtures typical of the type of house being measured.

A level of completion for January 1st of the appraisal year should be determined as well. In most areas, field checks of completion levels are done as close to January 1st as possible. If not, interview the builder or homeowner for this information, or give the best possible estimate.

Measure and record any other improvements such as pools, detached garages and storage sheds. Make appropriate changes to the land segments.

If the property record card that is used in the field is destroyed and a new one printed then the appraiser should make a note in the comments section of the new property record card that states the original was destroyed.

Calculating Improvement Values

Make sure to note on the PRC the classification, class, size, effective age, functions, factors, economic multipliers and/or neighborhood adjustment factors for each improvement. In addition, be sure to note number of plumbing fixtures, fireplace(s) and what type of heating and cooling is present. A detailed step by step explanation on how to arrive at the value of a property based on the property record card is in the Appendix.

Definitions:

Determine the price per sq. ft. of main area:

Consult the frame dwelling price schedule in the residential cost manual appendix 2 to determine the appropriate base price by using the base price that corresponds with the total main area of improvement. Use the square footage without entering the next level of sq. footage. Example: 1801 sq. ft. and 1899 sq. ft. will use the same base price even though 1899 is closer to 1900 sq. ft.

It is also required to get the current depreciation value for the property. In order to get this you need to determine the age of the improvement by taking the year the property is to be valued and subtracting the effective year. See appendix 3.

Multiply this base price by the square footage, exterior wall multiplier, class multiplier and, if applicable, add or subtract any heating or cooling adjustments. Round up to the nearest 10.

Price per Sq. ft. (Unit Price) = (Base Class Price x Exterior Walls) +/- heating and/or cooling Rounded up to Nearest 10

Evaluating Improvement Segments

The first MA Segment will include any plumbing and/or fireplace adjustments.

Upper level MA Segments are valued at 95% of base value (95% of the Unit price of the MA).

Value MA S1 = (((((((((Price per Sq. ft. x Sq. ft.) +/- Improvement Factors) x Depreciation) x Physical) x Economic) x Function) x % Complete) x or +/- Improvement Detail) x NBHD) Rounded up to nearest 10)

All other Improvement Segments

Value = (((((((((Price per Sq. ft. x Sq. ft.) x Depreciation) x Physical) x Economic) x Function) x % Complete) x or +/- Improvement Detail) x NBHD) Rounded up to nearest 10)

Base price per sq. ft. values for various other improvements are found in the manual and listed as Class 4 value. Be sure to apply class adjustments.

After determining the individual segment values in each improvement, add each of the segments together to determine its total value. Finally, add all improvement values together to determine the *Total Improvement Values*.

Example: To determine price per square foot of: house built in 1999 being valued in 2010, Class 5, brick and frame house (R9), central heat/air, 11 plumbing fixtures, fireplace, 113% NBHD factor, 1960 sq. ft. of living area in good condition, 100 sq. ft. OMP, 420 sq. ft. BG, 400 sq. ft. MP. This property also has a 95% function for damage.

Imp 1	Base	Ext Wall	Price
MA	63.63	x 1.07	= 68.08
OMP	12.99	x N/A	= 12.99
BG	17.28	x N/A	= 17.28
MP	2.43	x N/A	= 2.43

Example: To determine final improvement value:

If MA

((((((((((Price per Sq. ft. x Sq. ft.) +/- Improvement Factors) x Depreciation) x Physical) x Economic) x Function) x % Complete) x or +/- Improvement Detail) x NBHD) Rounded up to nearest 10)

If Not MA

Value = (((((((((Price per Sq. ft. x Sq. ft.) x Depreciation) x Physical) x Economic) x Function) x % Complete) x or +/- Improvement Detail) x NBHD) Rounded up to nearest 10)

MA	(((1960 x 68.08) + 570 (plumbing) + 1360 (fireplace) x .92) x 1) x 1) x .95) x 1) x 1) x 1.13	= \$133690
OMP	(((100 x 12.99) x .92) x 1) x 1) x .95) x 1) x 1) x 1.13	= \$1280
BG	(((420 x 17.28) x .92) x 1) x 1) x .95) x 1) x 1) x 1.13	= \$7170
MP	(((400 x 2.4) x .92) x 1) x 1) x .95) x 1) x 1) x 1.13	= \$950
Total Imp. Value = \$143,090		

See Appendix 8 for more information

Condition Ratings

The following are the condition ratings used by BCAD and a description of each one.

- **Excellent (EX)** - Improvement is in perfect condition. All items that can normally be repaired or refinished have recently been corrected. This would include new roofing, paint, air conditioning, with good materials and craftsmanship. No deferred maintenance of any consequence and all major short-lived components in new condition.
- **Very Good (VG)** - Improvement is in near perfect condition. All items are well maintained, many have been overhauled or repaired. No deferred maintenance of any consequence and all short lived components in good working order.
- **Good (GD)** - Minor Deterioration. No obvious maintenance required, but not necessarily new. Appearance and utility are above the standard.
- **Average (AV)** - Normal wear and tear is apparent. Some evidence of deferred maintenance and normal obsolescence with age and a few repairs are needed, along with some refinishing. All major components are still functional.
- **Fair (FR)** - Marked deterioration, but quite usable. Much repair needed. Many items needing refinishing or overhauling; deferred maintenance obvious; inadequate building utility and services shortening the life expectancy.
- **Poor (PR)** - Deterioration is obvious. Repair and overhaul needed on painted services, roofing, plumbing, heating. Numerous functional inadequacies. Excessive deferred maintenance and abuse. Approaching abandonment or major reconstruction.
- **Very Poor (VP)** - Condition approaches unsoundness. Abandonment or major reconstruction required. Property still repairable, but unlivable in its current state of repair.
- **Unsound (UN)** - Building is definitely unsound and unusable. Property is beyond cost effective to repair. Remaining value in salvage state only. May be in a condemned state by a proper authority.

Stages of Completion for Improvements

The following percent completes should be noted on the property record card while at the property in the field. The percent complete should be as the property is, as of Jan 1st of the appraisal year. These are general descriptions and the appraiser should use their best judgment when deciding the percent complete.

- **25%** - Slab, plumbing, back fill, framing done
- **50%** - Roof weathered in, windows and doors set, air and heat ducts installed, wiring and plumbing generally roughed in, some sheet rock work done.
- **75%** - Bricked or sided, and trimmed out, sheetrock complete and painted plumbing fixtures set, most of the general trim work inside and outside complete.
- **100%** - Complete except for option items such as choice of carpet, choice of wallpaper, choice of paint/color scheme, minor landscaping, and hookup of central air and heating units.

Commonly Used Codes

Below are some commonly used codes for residential properties:

AD1	Horse Barn
AP1	Pole Bldg 4 Sides Closed (metal)
AP2	Pole Bldg 4 Sides Closed (wood)
AP3	Pole Bldg 1 Side Open (metal)
AP4	Pole Bldg 1 Side Open (wood)
AP5	Pole Bldg 4 Sides Open (metal)
AP6	Pole Bldg 4 Sides Open (wood)
AQ1	Quonset Bldg
AS1	Minimal Quality (attached stg)
AS2	Average Quality (attached stg)
AS3	Good Quality (attached stg)
AU	Attic Unfinished
AX1	Prefab Steel Bldg
BG	Brick Garage
BH1	Light Duty Bulkhead
BH2	Average Duty Bulkhead
BH3	Heavy Duty Bulkhead
BL1	Light Duty Boatlift
BL2	Average Duty Boatlift
BL3	Heavy Duty Boatlift
C12	Concrete Paving
CP	Carport
CPY	Canopy
DBG	Detached Brick Garage
DFG	Detached Frame Garage

EFP	Enclosed Frame Porch
EMP	Enclosed Masonry Porch
FG	Frame Garage
FU	Frame Utility
GA	Gazebo
GH	Greenhouse
MA	Main Area
MA 2.0	Main Area 2 Story
MAF	Main Area Frame
MAF2	Main Area Frame 2nd Level
MAM	Main Area Masonry
MAM2	Main Area Masonry 2nd Level
RD1	Light Boat Dock
RD2	Medium Boat Dock
RD3	Heavy Boat Dock
RP5	Gunit Pool
RS1	Inexpensive, kit type sheds
RS2	Average Quality (detached stg)
RS3	High Quality (detached stg)
RSE	Screen Enclosures
SM3	Canopy/Carport (MH)
MP	Concrete Patio
MU	Masonry Utility
OFP	Open Frame Porch
OMP	Open Masonry Porch

RB1	Boathouse
RC1	Detached Carport
RC2	Detached Canopy
MAMH1	Mobile Home Single Wide
MAMH2	Mobile Home Double Wide
SM1	Screened Porch
SM2	Metal/Glass Add
SM3	CPY or CP
SM4	Skirting (MH)
SM5	Wood Deck (MH)
SM6	Addition (MH)
SM7	Porch (MH)
TC1	Tennis Court
WD	Wood Deck

Residential Schedules

See Appendix 2.

Residential Matrix Schedules

See Appendix 14.

Residential Improvement Features

See Appendix 3.

Residential Depreciation

See Appendix 4.

Chapter V – Commercial

Introduction

Commercial property has a business or institutional purpose and may be an owner occupied property or may be an investment property which generates an income stream for the owner.

All three appraisal approaches are considered when valuing commercial property. Information from a variety of sources is obtained and detailed analysis is undertaken. Maintaining current cost tables and accurately estimating depreciation are critical functions of the cost approach. Obtaining adequate numbers of sales in the marketplace of similar commercial use properties is critical to accurate estimates using the Market Approach. Obtaining accurate income and expense information and data from the market place to establish economic rents and then developing market-reflected capitalization rates is important to estimating market value via the income approach.

Mass Appraisal of Commercial Property

Fundamental appraisal concepts, principles, and valuation techniques have been presented. Structuring a mass appraisal program that yields valid, accurate, and equitable property valuations at a reasonable cost and within a time span compatible with taxing jurisdiction requirements is the purpose of appraisal districts. To be effective, the mass appraisal program should:

- Incorporate the application of proven and professionally acceptable techniques and procedures.
- Provide for the compilation of complete and accurate data and the processing of that data into an indication of value approximating the prices actually being paid in the market place.
- Provide the necessary standardization measures and quality controls essential to promoting and maintaining uniformity throughout the jurisdiction.
- Provide the appropriate production controls necessary to execute each phase of the operation in accordance with a carefully planned budget and work schedule.
- Provide techniques especially designed to streamline each phase of the operations, eliminating superfluous functions, and reducing the complexities inherent in the appraisal process to more simplified but equally effective procedures.

In summary, the objective of an individual appraisal is to arrive at an opinion of value, the key elements being the validity of the approach and the accuracy of the estimate. The objective of a mass appraisal for tax purposes is essentially the same; however, in addition to being valid and accurate, the value of each property must be equitable to other properties. Additionally, these valid, accurate, and equitable valuations must be generated as economically and efficiently as possible.

Overview

The prime objective of mass appraisals for tax purposes is to equalize property values. Not only must the value of one commercial property be equalized with another, but it should also be equalized with each agricultural, residential, and industrial property within the political unit. The common denominator or the basis for equalization is market value (that price for which an informed and intelligent person, fully aware of the existence of competing properties and not being compelled to act, is justified in paying for a particular property.) In order to arrive at a reasonable estimate of the justified price, the appraiser must coordinate the approaches to value of the various classes of property so that

they are related one to another in such a way as to reflect the motives of the prospective purchasers of each type of property.

The prospective purchaser of special use commercial property is primarily interested in its overall utility value. In evaluating overall utility, one must give individual consideration to the land and each improvement thereon. Commercial buildings are generally of special purpose design, and as such, cannot readily be divorced from the operations for which they were built. If the operation becomes obsolete, the building likewise becomes obsolete. The upper limit of value is the replacement cost new. Its present day value is some measure of its present day usefulness in relation to the purpose for which it was originally designed.

Any effective approach to value must be patterned in such a way as to reflect the actions of buyers in the market place. As indicated previously, the motives influencing prospective buyers tend to differ depending upon the type of property involved. It follows the appraisers approach to value must differ accordingly.

The appraiser of commercial property may not be able to rely on the market data approach because of the absence of comparable sales; each sale generally reflecting different circumstances and conditions. Nor will the commercial appraiser always be able to rely upon the income approach because of the absence of comparable investments and due to the inability to accurately determine the contribution of each unit of production to the overall income produced. The appraiser must, therefore, rely heavily on the cost approach to value-determining the upper limit or replacement cost new of each improvement and the subsequent loss of value resulting overall from physical, functional and economic factors.

Data Inventory

Basic to the appraisal process is the collecting and recording of pertinent data. The data will consist of general supporting data which refers to the data required to develop the elements essential to the valuation process including neighborhood data (per-delineated neighborhood units, and specific property data for each parcel of property.) This data is then processed into an indication of value by the cost, market, and/or income approaches.

The data must be comprehensive enough to allow for the adequate consideration of all factors which significantly affect property values. In keeping with the economic of a mass appraisal program, it is costly and impractical to collect, maintain and process data of no marginal contribution to the desired objectives. The axiom "too much is better than insufficient data" does not apply. What does apply is the PROPER AMOUNT of data that is necessary to provide the database required to generate the desired output.

General Supporting Data

The appraisal staff will primarily be concerned with cost, sales and income data, but they will also find it necessary to research and compile general socio-economic information affecting the neighborhoods and regions in which properties are located. The information will serve to assist the staff during the analytical phase of the operations and should include, but not necessarily be limited to, population trends, prevailing geographical factors, primary transactions facilities, primary income sources, unemployment and income levels, institutional influences, the annual volume of new construction and ownership transfers, availability of vacant land, construction, labor and material costs, preponderance of rentals, and the occupancy levels.

Cost Data

The cost data must be sufficient to develop and/or select and validate pricing schedules and cost tables required to compute the replacement cost new of improvements in order to apply the cost approach. All data pertaining to the total cost of buildings in place should include the parcel identification number, property address, and date of completion, construction cost, source of information, structural characteristics, and other information pertinent to analysis. Cost information may be recorded on the same form used to record specific property data. The principle sources for obtaining cost data are builders and developers. It is generally advisable to collect cost data in conjunction with new construction when it is picked up.

Sales Data

The sales data must be sufficient to provide a representative sampling of comparable sales needed to apply the market data approach, to derive unit land values and depreciation indicators needed to apply the cost approach, and to derive gross rent multipliers and elements of the capitalization rate needed to apply the income approach. All sales data should include the parcel identification number, property classification code, month and year of sale, selling price, assessed value (land and total) as of the date of sale, source of information, i.e. buyer seller, agent, or fee, and a reliable judgment as to whether or not the sales is representative of a true arms length transaction. Sales data should be recorded on the same form used to record specific property data, and verified during the property listing phase. Sources for obtaining sales data may include developers, realtors, lending institutions, and individual property owners as well as reliable vendors.

Specific Property Data

The specific property data must be sufficiently comprehensive to provide the database needed to process each parcel of property to an indication of value, to generate the tax roll and related tax accounting output, to generate other specified output, and to provide the assessing officials with a permanent record to facilitate maintenance functions and to administer taxpayers assistance and grievance proceedings. Data should include parcel identification number, ownership and mailing address, legal description, property address, property classification codes, local zoning code, neighborhood identification code, site characteristics, and structural characteristics.

All data should be recorded on a single property record card customized to meet individual assessing needs. Each card is designed and formatted in such a way as to accommodate the listings of information and to facilitate data processing. In addition to property data items noted above, space must be provided for a building sketch, land and building computations, summarizations, and memoranda. In keeping with the economy and efficiency of a mass appraisal program, the card is formatted to minimize writing by including a sufficient amount of site and structural descriptive data comprehensive enough to be suitable for listing any type of land and improvement data regardless of class, with the possible exception of large industrial, institutional, and utility complex which require lengthy descriptions.

Field inspections must be conducted by appraisers or qualified data collectors under the close supervision of the appraisal staff. During this phase of the operation, the data collector must visit the property. After the field inspection is completed, the property record document must be submitted to data personnel. After the data is entered an analyst must complete an audit for accuracy and completeness of the data collected as well as the data entered into the system.

Complete and accurate data are essential to the program. Definite standardized data collections and recording procedures must be developed and followed if these objectives are to be met.

Processing the Data

Analysis of the data compiled and processing that data into an indication of value are the final steps in the process. During the analysis phase, cost, market, and income data are analyzed in order to provide valid cost schedules and tables. Data supported schedules and tables are necessary to compute replacement costs of improvements, to establish comparative land values, appropriate depreciation table and guidelines, to develop gross rent multipliers, economic rent, and operating expense norms, capitalization rates, and any other tables necessary to effect the mass appraisal of all property within a political unit on an equitable base.

After establishing the appropriate standards and norms, it remains to analyze the specific data compiled for each property by giving due consideration to the factors influencing the value of that particular property as compared to another and then to process the data in to an indication of value by employing the techniques described in the section of the manual dealing with the application of the traditional approaches to value. All three approaches to value, if applied properly, should lead to an indication of market value. In order to achieve a valid, accurate, and equitable appraisal, each property must be physically reviewed, during which time the reviewer must:

- Verify the accuracy of each characteristic recorded on review documents.
- Certify that the property schedules and cost tables were used in computing the replacement cost of each building and structure. (Marshall & Swift is used for buildings)
- Verify the property quality grade and design factor to be applied to each building to account for variations from the base specifications.
- Judge the overall condition, desirability and usefulness of each improvement in the process of verifying allowance for depreciation.
- Capitalize net income into an indication of value in order to determine the loss of value attributed to functional and economical obsolescence.
- Review the total property value in relation to the value of comparable properties.

At the completion of the review phase, the property review documents must be submitted to a final check for completeness and accuracy.

The techniques and procedures set forth herein, if applied skillfully, should yield accurate and equitable property valuations, and should provide a sound property tax base. It should be noted, however, that no program, regardless of how skillfully administered, cannot be expected to be error free.

Replacement Cost versus Reproduction Cost

Replacement cost is the current cost of reproducing an improvement of equal utility and it may or may not be the cost of reproducing a replica property. Reproduction cost refers to a substitute replica property. Although these concepts are frequently interchangeable, they are not necessarily so. Both have application in the Cost Approach with the difference in their indicated values being reconciled in the consideration of depreciation allowance.

In practice, few, if any, owners, builders or developers replace buildings- with the possible exception of properties with historical value. Logically it follows that if an appraiser's job is to measure the actions

of knowledgeable persons in the marketplace, the use of proper replacement costs should provide an accurate point of beginning in the valuation of most property improvements. Replacement cost includes the total cost of construction incurred whether preliminary to, during the course of, or after completion of construction of a particular building. Costs of construction include materials, labor, subcontractor costs, overhead and profit, professional fees (architects, engineers, attorney, etc.) and expenses, building fees, taxes, insurance, and the cost of interim financing.

Estimating Replacement Cost

There are various methods available to estimate replacement cost new. Methods widely used include quantity survey method, unit-in-place, component part-in-place, and the model methods.

The quantity survey method involves a detailed, itemized estimate of the quantities of various materials used, labor and equipment requirements, architect and engineering fees, contractor's overhead and profit, and other related costs. Contractors and cost estimators primarily employ this method for bidding and budgetary purposes. It is much too laborious and costly to be effective in every day appraisal work, especially in the mass appraisal field. This method does however have its place in that it is used to develop certain unit-in-place costs, which can be more readily applied to estimating for appraisal purposes.

The unit-in-place method is employed by establishing in-place cost estimates (material, labor, overhead, profit) for various structural components. The prices establishes for the specified components are related to their most common units of measurement such as cost per yard of excavation, cost per linear foot of footings, cost per square foot of floor covering, etc. Unit prices are multiplied by the respective quantities for the property being valued and the total of all components is the estimated direct cost of the building. Add to this sum of indirect costs, as applicable.

An extension of the unit-in-place methods is the model method or calculator method which involves taking the per square foot costs and developing a cost per cubic foot for total specified representative structures in place. These developed models serve to assist the appraiser in deriving the base unit cost of comparable structures. The base unit cost of the model most representative of the property being appraised is applied to the subject building and appropriate tables of additions and deductions are used to adjust the base cost to account for significant variations.

Developed and applied properly, these pricing techniques will assist the appraiser in arriving at valid and accurate estimates of replacement cost new as of a given time. That cost generally represents the upper limit of value of a structure. The difference between the replacement cost new and present value is depreciation.

Property Valuation Applying the Direct Sales Comparison Approach

An indication of the value of a property can be derived from analyzing the selling prices of comparable properties. This technique involves the selection of a sufficient number of valid comparable sales and the adjustment of each sale to the subject property to account for variations in time, location, and site and structural characteristics.

Selecting Valid Comparables

Since market value has been defined as the price which an informed and intelligent buyer, fully aware

of the existence of competing properties and not being compelled to act is justified in paying for a particular property, it follows that if market value is to be derived from analyzing comparable sales, that the sales must represent valid “arms-length” transactions. Due consideration must be given to the conditions and circumstances of each sale before selecting the sales for market analysis. Examples of sales that do NOT normally reflect valid market conditions include:

- Sales in connection with foreclosures, bankruptcies, condemnations, and other legal action
- Sales to or by federal, state, county, and local governmental agencies.
- Sales to or by religious, charitable, or benevolent tax exempt agencies
- Sales involving intra-corporate affiliations
- Sales involving the retention of life interests
- Sales involving cemetery lots
- Sales involving mineral or timber rights, and access or drainage rights
- Sales involving the transfer of partial interests

In addition to selecting valid market transactions, it is equally important to select properties that are truly comparable to the property being appraised. For instances, sales involving both real and personal property and chattels may not be used unless the sale can be adjusted to reflect only the real property portion of the transaction. Sales of non-operating or deficient industrial plants cannot validly be compared with operating plants. Comparables must exhibit the same or similar use, site, and structural characteristics at the property being appraised.

Processing Comparable Sales

All comparables must be adjusted to the subject property to account for variations in time and location. The other major elements of comparison will differ depending upon the type of property being appraised. The appraisal must give prime consideration to the same factor which influences the prospective buyer of particular types of properties. For instance, the typical purchaser of warehouse and light industrial plants is primarily concerned with a property’s capacity to produce relative to transportation, labor markets, and trade centers are all valid influences and concerns.

In applying the market data approach to commercial/industrial properties, appraisers will generally find it difficult to locate a sufficient number of comparable sales, especially of properties that are truly comparable in their entirety. Therefore, it may be necessary to select smaller units of comparison such as price per square foot, per unit, per room, etc. Great care must be exercised in selecting a unit of comparison that represents a logical common denominator for the properties being compared. A commonly used and proven effective unit of comparison is the Gross Rent Multiplier (GRM). Using such units of comparison enables an appraiser to compare two properties that are similar in use and structural features but differ significantly in size and other characteristics.

Having selected the major factors of comparison, it remains for the appraiser to adjust each factor to the subject. In comparing the site, adjustments are made for significant variations in size, shape, topography, and land improvements. In comparing the improvements, adjustments are made for size, quality, design, condition, and significant structural and mechanical components. The adjusted selling prices of the comparable properties will establish a range in value in which the value of the subject property will fall. Further analysis of the factors should enable the appraiser to narrow the range down to the value level most applicable to the property being appraised.

Property Valuation Applying the Income Approach

Since the justified price paid for income producing property is no more than estimating the amount of investment required to produce a comparable desirable return, and since the market can be analyzed in order to determine the net return actually anticipated by investors, it follows that the value of income producing property can be derived from the income which it is capable of producing. What is involved is an estimate of income through the collection and analysis of available economic data, the development of a property capitalization rate, and the processing of the net income into an indication of value by employing one or more of the acceptable capitalization methods and techniques. ****Please note**** Properties with special valuation and exemptions have to be distributed in order for the value to calculate correctly.

The Principles of Capitalization

Capitalization is the mathematical process of converting net income into an indication of value. The process evolves out of the principles of perpetuity and termination. Perpetuity affirms that the net income produced by land will continue for an infinite period of time. Termination affirms that the net income produced by a building (assuming normal repairs and maintenance) will stop after a certain number of years- this in effect is to say that all building at some time in the future will cease to have economic value.

If income flow produced by a building will terminate in the future, it is reasonable to suggest that an investor in the building is entitled to the return of his investment as well as a return on his investment. In the capitalization process, this recovery of the investment is referred to as recapture. Theoretically, the recovered capital would be used to replace the present structure when it ceases to have value. In actual practice, the investor usually used the return capital for debt service or for reinvestment in other projects. Several methods of capitalization are utilized by the appraisal industry. All methods recognize that an investor is entitled to both a return on and the recapture of his investment.

Exploring the Rental Market

Investigation of current economic rent in a specific area is required in order to establish a sound basis for estimating the gross income that should be returned from competitive properties. A distinction must be made between economic rent or the rent the property is currently expected to bring in the open market as apposed to contract rent or the rent that a property is actually realizing at the time of appraisal due to lease terms having been established at some time in the past. Acquisition of specific income and expense data of similar properties is necessary to develop economic rent and expenses for the property being appraised. The following factors should assist the appraiser in evaluating data in order to arrive at an accurate and realistic estimate of net income.

Questions Relating to Income Data

- Q) Was the reported income produced entirely by the subject property?**
- A) Frequently rental income will include an amount attributable to one or more additional parcels of real estate. In this case, it would be necessary to obtain the proper allocations of rent.
- Q) Are all sources of income attributable to the property accounted for?**
- A) Food and beverage, Laundromat, parking receipts, etc. are considered to be secondary sources of income attributable to a property.

- Q) Was the income attributable to the subject property as it physically existed at the time of the listing or did the property include the value of the leasehold improvements and remodeling which the owner amortized as a part of the rent over the term of lease?**
- A) If so, it may be necessary to adjust the income to reflect economic rent.
- Q) Does the reported income represent a full year's return?**
- A) It is often advisable to obtain both monthly and annual rental amounts as a crosscheck.
- Q) Does the income reflect current economic rent? Is either part or all of the income predicted on old leases? If so, what are the provisions for renewal options and rates?**
- A) It's important to use current market rents to estimate current market value.
- Q) Does the reported income reflect 100% occupancy? What percentage of occupancy is reflected? Is this percentage typical of this type of property or is it due to special non-recurring causes?**
- A) It's important to determine market occupancy rates for estimating vacancy and collection loss.
- Q) Does the income include rental for all marketable space? Does it include an allowance for space, if any, which is either owner or manager occupied? Is the allowance realistic? Is the income attributable directly to the real estate and conventional amenities? Is some of the income derived from furniture and appliances?**
- A) If so, it will be necessary to adjust the income or make provisions for reserves to eventually replace them- which local custom will dictate.

In many properties, actual rental income does not exist because the real estate is owner-occupied. In this event, it is necessary to obtain other information to provide a basis to estimate economic rent. The information required pertains to the business operation using the property. Proper analysis of the annual operating statement of the business including gross sales or receipts can provide an accurate estimate of economic rent.

Analysis of Expense Data

Only those expenses applicable to the cost of ownership are considered. Any portion of the expenses incurred either directly or indirectly by the tenant need to be considered. Reimbursement is included as income. Each expense item must stand the test of both legitimacy and accuracy. How do they compare with the established guidelines and norms? Are they consistent with the expenses incurred by comparable properties?

Management

Refers to the cost of administration. These charges should realistically reflect what a real estate management company would actually charge to manage the property. If no management fee is shown on the statement, a proper allowance must be made by the appraiser. If excessive management charges are reported, the appraiser must disregard the reported charges and use an amount deemed appropriate and consistent with comparable type properties. The cost of management bears a relationship with the risk of ownership and will generally range between 5% to 10% of gross income.

General

Include such items as the cost of services and supplies not charged to a particular category (unemployment, FICA, workman's compensation, and other employee insurance plans are legitimate deductions).

Miscellaneous Incidentals

This item should reflect a very nominal percentage of the income. If expenses reported here appear excessive the appraiser must examine them, determine if they are legitimate and then allocate them to their proper category.

Cleaning

General housekeeping and janitorial services including the total cost of labor and related supplies. All or a portion of the cleaning services may be provided by outside firms working on a contract basis. Cleaning expenses vary considerably and is particularly significant in operations such as offices and hotels. Rule-of-thumb norms for various operations are made available through national management associations. The appraiser should have little difficulty in establishing local guidelines.

Utilities

Generally legitimate and if reported accurately, need very little reconstruction by appraiser other than to determine if the charges are consistent with comparable properties. Local utility companies can provide an appraiser with definite guidelines.

Heat & Air Conditioning

Often reported separately and in addition to utilities, these expenses include the cost of fuel other than those included with utility expenses, and may include service personnel wages, cost of related supplies, inspection fees, and maintenance charges.

Elevator

Including wages and uniforms of attendants and cost of repairs and services. Repairs and services generally are handled through service contracts and can be regarded as fairly stable annual recurring expenses.

Decorating

(and minor alterations) are necessary to maintain the income stream of many commercial properties. Careful scrutiny of these figures is required. Owners tend to include the cost of major alterations and remodeling which are, in fact, capital expenditures and as such are not legitimate operating expenses.

Repairs & Maintenance

May not necessarily be a true indication of the average of typical annual expense or the items. For example, a statement may reflect a substantial expenditure for a specific year (possibly because the roof was replaced), yet the statement for the following year may indicate that repairs and maintenance changes were practically nil. If this expense is too far out of line with standard market parameters, market expense rate for the property type will be use.

Fixed Expenses

These items do not vary with occupancy and must be paid whether the space is occupied or not and they remain fairly constant from year to year.

Insurance

As was the case of some other expense items, the amount reported for insurance in any given year may not be indicative of the actual annual expense. Many owners obtain the more economical three-year coverage plans and expense the entire premium in one year. Furthermore, many owners obtain “blanket” coverage for more than one building and fail to make the property allocations of cost. It is generally more effective for an appraiser to establish guidelines being careful to include only items applicable to real estate. Fire, extended coverage and owner’s liability are the main insurance expense items. Separate coverage on different components of a building such as elevators, boilers and plate glass are also legitimate expenses. Other insurance covering tenants inventory and personal property are not operating expenses of the building.

Intangible Assets

Intangible assets are all of the elements relating to a business that exist after the monetary and tangible assets have been identified. Their existence is dependent on the presence, or the expectation of earnings.

Businesses have many different types of intangible assets. Many of these can be unique to a specific business, making it hard to compile a comprehensive list of intangible assets. Some of the common types include:

- Patents, copyrights and licenses
- Customer lists and relationships
- Non-compete agreements
- Favorable financing
- Software
- Trained and assembled workforces
- Contracts
- Leasehold interests
- Unpatented proprietary technology
- Trademarks/Trade names
- Etc.....

An appraiser should to the best of their ability attempt to identify all the intangible value for commercial properties. The owners or managers of the business are usually a good source of information when attempting to discover all the intangible value.

Intangible Value

The Brazoria County Appraisal District will consider the exclusion of Intangible value from the sale of commercial real property on a per case basis. This exclusion is considered based on the unique circumstances of that particular property. An exclusion of intangible value from the real property value should always begin with the determination of the tangible and intangible portions of both the real and personal property.

The difference between Tangible and Intangible property is best explained by determining the

definition of each term. According to The Dictionary of Real Estate Appraisal, (Appraisal Institute 3rd edition) the terms are defines as follows:

Intangible Property

1. Non-physical items of personal property, franchises, trademarks, patents, copyrights, and goodwill.
2. Deferred items such as a development or organization expense

Tangible Property

1. Property that can be perceived with the senses; includes land, fixed improvements, furnishing, merchandise, and other items of working capital used in an enterprise.

The procedure itself will be to first determine the Market Value of the subject property. The value of the different variables such as improvement(s), land, and personal property will be determined and verified with sales information, cost information, or any other supporting documentation. Once these values are identified and substantiated, these values will be subtracted from the sale price of the subject property. Questions of validity (on subject and comparable) need to be addressed and verified before making any final determinations. The following is an example:

Market Value (Sale Price):	\$2,500,000
Less Land Value:	- \$425,000
Less Improvement Value:	- \$1,450,000
Less Personal Property	- <u>\$125,000</u>
Total Market Value of Tangible:	\$2,000,000

Indicated Value of Intangible: \$500,000

Real Estate Taxes

In making an appraisal for tax purposes, the appraiser may find it more convenient to exclude the actual amount reported. Since future taxes will be based upon the appraised value, the appraiser can readily provide for this expense item by adding the tax rate to the capitalization rate and using the loaded capitalization rate. At notice the real estate taxes are generally a line item in the expenses, and calculated by the system using current value and prior year tax rate.

Other Taxes

Expenses reported in this category such as income, corporate, and franchise taxes usually do not pertain to the real estate and should be disregarded.

Depreciation

The appraiser provides for this expense by the recapture rate included in the capitalization rate. The amount reported for depreciation is a “bookkeeping figure” that the owner uses for IRS purposes and should not be considered in the Income Approach. In newer properties, this figure may provide an accurate indication of the original cost.

Interest

Interest on borrowed capital is not a legitimate expense. All property is appraised as if it were “free and clear”. It makes no difference to the appraiser whose money is used for purchasing the property. If a portion of the investment is borrowed capital, the owner is entitled only to a return on that portion of the property he owns while the return on the balance of the investment is assigned to the holder of the mortgage. Interest paid for borrowed capital is not deductible expense since interest on the total investment is considered in the capitalization rate.

Land Rent

Paid in lieu of purchasing the land and is generally not considered an expense item in the capitalization process. It is a significant item in that it may have a direct bearing on the market value of a property upward or downward depending upon whether or not they are favorable or unfavorable to a prospective buyer. It is therefore advisable to obtain the amount of terms of all leases whenever possible. Land lease value can be determined by capitalizing the income stream after appropriate adjustments are applied if the lease in effect is not consistent with current market terms.

Developing Capitalization Rates

It is virtually impossible and not practical to obtain a complete economic history on every commercial property being appraised. In most cases, the gross income and a list of the services and amenities furnished is obtainable. In order to insure a good appraisal, a number of the operating expenses necessary to maintain that gross income are best provided for by including percentage allowances in the land and building capitalization rates. These are, of course, in addition to the interest and recapture rates.

A capitalization rate established for use in appraising for ad valorem taxes will generally consist of the following factors:

- Recapture (or the annual rate of the depreciable items of a real estate investment)
- Interest rate (or the annual rate of return on a real estate investment)
- Tax rate. (Taxes generally appear as an expense calculated using current value and prior year tax rate at notice, but at times during protest the tax rate will be loaded into the capitalization rate. At which point the expense line will be taken out of the equation to find the Net Operating Income)
- Contingency rate (or the annual rate of return on the total real estate investment required to pay the annual cost of unusual and unanticipated expenses)

Recapture

The Straight Line Method of recapture is the simplest method and the one which seems to most reflect the action of investors in general. It calls for the return of capital in equal increments or percentage allowances spread over the estimated remaining economic life of the building.

50 Years Remaining Life = $100/50=2.0\%$ / Year

40 Years Remaining Life = $100/40=2.5\%$ / Year

25 Years Remaining Life = $100/25=4.0\%$ / Year

Interest Rate

There are several methods currently employed by appraisers to determine the acceptable normal rate of return expected by investors. The Band of Investment Method and the Direct Comparison Method are considered below. Repeating these procedures on an adequate, representative sampling should provide the appraiser with a pattern from which to select the most appropriate indicated rate of interest.

In the Board of Investment Method, it is necessary to determine the rate of return local investors require on their equity (cash outlay). It is necessary to obtain current interest rates and equity requirements of local lenders and then multiply the percentages of equity and mortgage by the investors and lenders rates. The sum of these products will indicate the actual rate of return as shown below:

Equity Rate 12% Mortgage Interest Rate 8%

Amount of Equity	20% x 12%	=	2.4%
+Amount of Mortgage	80% x 8%	=	6.4%

Indicated Rate of Return	8.8%

Equity Rate 15% Mortgage Interest Rate 8%

Amount of Equity	25% x 15%	=	3.75%
+Amount of Mortgage	75% x 8%	=	6.00%

Indicated Rate of Return	9.75%

In the Direct Comparison Method, the appraiser extracts the rate of return directly from actual market data. It can reasonably be assumed that informed investors fully aware of the existence of comparable properties will invest in those properties that are able to produce the required and desirable net return. The following steps are involved in determining the normal rate of return by the Direct Comparison Method:

1. Collect sales data on valid open market transactions involving properties for which the appraiser is able to accurately estimate both net income and the land or building value.
2. Allocate the proper amounts of the total sales price to land and building.
3. Estimate the remaining economic life of the building and compute the amount of return required annually for the recapture of the investment to the building.
4. Determine the net income before the recapture.
5. Deduct the amount required for the recapture from the net income. The residue represents the actual amount of interest.
6. Divide the actual amount of interest by the sales price to convert it into a percentage rate of return.

Example:

Sale Price	\$165,000
Amount allocated to land	\$64,000
Amount allocated to building	\$101,000
Remaining life	20 Years
Rate of capture	$100\% \times 5\% = \$5,050/\text{Year}$
Required annual income	$\$101,000 \times 5\% = \$5,050$
Net income before recapture	\$20,345
Less recapture	-5,050
Interest	\$15,295
Indicated Rate of Return	$\$15,295 / \$165,000 = 9.27$

Tax Rate

To make the proper provisions for real estate taxes, the appraiser must anticipate two factors:

- The tax rate per \$100 of assessed value
- The percentage of appraised value to be used for assessment purposes

The annual rate required to pay the cost of taxes can then be calculated by multiplying the tax rate in dollars per \$100 by the percentage level of assessment as shown below:

	<u>A</u>	<u>B</u>	<u>C</u>
Tax Rate/\$100 Assessment	\$2.00	\$3.10	\$6.00
Percent Level of Assessment	100%	100%	50%
Required Rate	2.0%	3.1%	3.0%

Contingency Rate

The percentage allowance for contingencies should be established at the local level. The element provides the appraiser some flexibility in arriving at a property market value based on the individual project requirements and providing some consideration for unusual expenses that may occur on properties appraised without the benefit of a detailed operating statement.

Total Land Rate

Land is not a depreciable item. Since the income produced by land will theoretically continue for an infinite period of time, it is not necessary to recapture the investment in land. The capitalization rate applicable to land is therefore the sum of the interest rate and the tax rate.

Total Building Rate

A building is a depreciable item. Since the income produced by a building will terminate in a given number of years, it is necessary to recapture the investment in the buildings. The capitalization rate applicable to buildings is therefore the sum of the interest rate, recapture rate, tax rate, maintenance rate, insurance rate, and contingency rate. Since it is the appraiser's job to interpret the local real estate market, it is quite obvious that the capitalization rates used must also reflect the actions of local investors.

Capitalization Methods

The most prominent methods of capitalization are Direct, Straight-Line, Sinking Fund, and Annuity. Each method is valid when capitalizing income into an indicated value. The basis for their validity lies in the action in the market that indicates that the value of income producing property can be derived by equating the net income with the net anticipated return utilizing the formula $\text{Value} = \text{Net Income} / \text{Capitalization Rate}$.

In Direct Capitalization, a single overall capitalization rate is determined by analyzing actual market sales of similar properties. Net incomes are developed and divided by the sales price to arrive at an overall rate providing an indication of value.

Mortgage Equity Capitalization is considered a sophisticated form of direct capitalization. The major difference between the approaches is in the development of the overall rate. In this method, equity yields and mortgage terms are considered influencing factors in construction of the lease rate. In addition, an adjustment is required to compensate for anticipated depreciation or appreciation. This adjustment can be related to the recapture provisions used in other capitalization methods and techniques.

The Straight Line and Sinking Fund methods are forms of Straight Capitalization with one using Straight Line and the other using Sinking Fund recapture. Both methods follow the same basic principles as Direct Capitalization, differing only in that they provide for separate capitalization rates for recapture. Straight line recapture calls for the return of investment capital in equal increments or percentage allowances spread over the estimated remaining economic life of the building.

Sinking Fund recapture calls for the return of invested capital in one lump sum at the termination of the estimated remaining economic life of the building. This is accomplished by providing for the annual return of an amount sufficient to invest, and annually re-invest, in “safe” interest bearing accounts such as government bonds or standard savings accounts. These “safe” investments will ultimately yield the entire capital investment during the course of the building’s economic life.

Annuity Capitalization involves valuation of the right to receive a specified income over a stipulated duration of a lease using annuity tables. In addition, the appraiser also considers the value that the property will have when it reverts back to the owner at the end of the lease. This reversion is valued by discounting the anticipated value against the present worth. The total property value is the sum of the capitalized income stream plus the present worth of the reversionary value.

At BCAD the capitalization method that is used most is Direct Capitalization, but it is up to the appraisers discretion on which method to use if another is better suited.

Property Modifiers and Adjustments

During both field work and hearings it is the policy of BCAD to leave all modifiers and adjustments to the discretion of the appraiser. This includes physical, economic, function, % complete, flat values, improvement detail adjustments, building schedule adjustments, land adjustments, etc. The appraisers should always use their best judgment when applying the modifiers and adjustments that effect the contributory market value of all improvements and land. All applicable evidence should also be scanned into the property to include notes, pictures, and any other evidence that is available.

Commercial ARB Overview The Approaches to Establishing Property

Value

Sales Comparison Approach

The sales comparison approach is used at property tax hearings for houses, land and owner-occupied buildings. It is sometimes used for income properties as a secondary method of valuation. To perform the sales comparison approach you need information on other sales of property similar to your property. You can obtain this information from a variety of sources including the appraisal district's real estate appraisers, brokers and third party vendors. Make adjustments for differences between the subject property and comparables. Adjust comparable sales to the subject property. Select sales as similar as possible to the subject property to minimize adjustments.

Income Approach

The income approach is typically used for income properties. The basic theory is that investors purchase income properties for the income stream they produce. This income stream can be converted to an indication of market value for the property. The primary steps in the income approach are to estimate the potential gross income using rent comparables and information regarding actual income at the subject property. An allowance for vacancy is estimated based on the performance of the subject property and average vacancy in the area. Operating expenses are estimated using actual expenses at the subject property and market expenses for similar properties. The net operating income is calculated by deducting vacancy and operating expenses from the potential gross income. Net operating income is converted to an indication of market value by dividing it by the capitalization rate.

Cost Approach

The cost approach is not typically used at the ARB hearings except for new buildings. Appraisal districts often use the cost approach for properties up to two or three years old. After that, the sales comparison approach or income approach depending on the type of property is used. The appraisal district will apply the cost approach for a new property by adding the market value of the land (typically the purchase price) to the construction costs for the building. In addition, they may add an allowance for soft costs and for entrepreneurial profit.

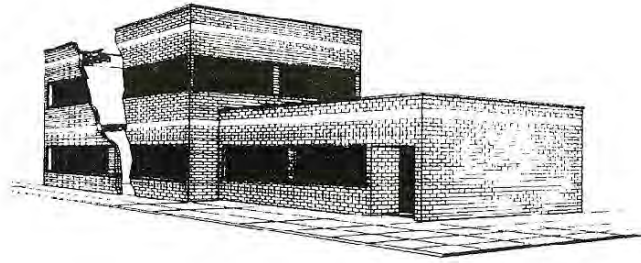
Uniform and Equal Approach

The Texas Property Tax Code was amended in 2003 to allow property tax for property owners to protest based on a "reasonable number of comparable properties appropriately adjusted." Using Uniform and Equal, compare data on assessed values for property similar to your subject. Make adjustments for significant differences between the assessment comparables and your property. This can include items such as building size, land size, site influences, age, etc. Make negative (downward adjustments) to an assessment comparable for items that are superior in the assessment comparable. After applying appropriate adjustments to the assessment comparables are arrayed in order of increasing or decreasing (on a per square foot value basis). Multiply the median per square foot assessed value times the size of your property (improved area) to calculate the value your improvement should be assessed for based on Uniform and Equal.

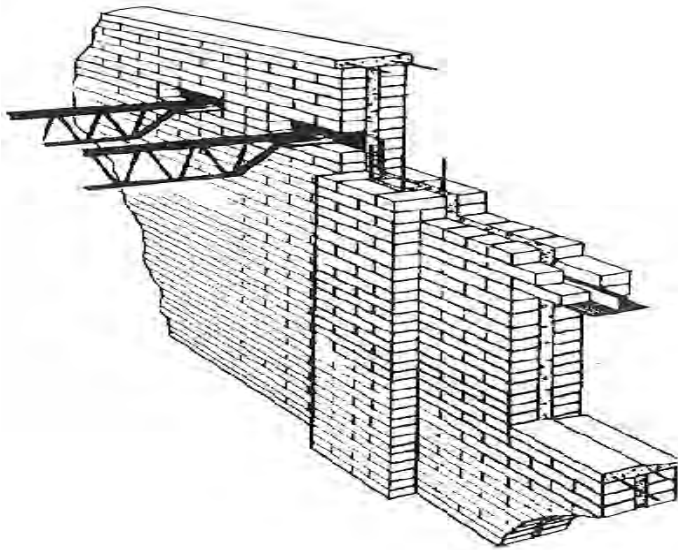
Building Class

Building Class refers to the architecture, design, and structure's frame. Commercial buildings have several different class options:

C Masonry Bearing Walls

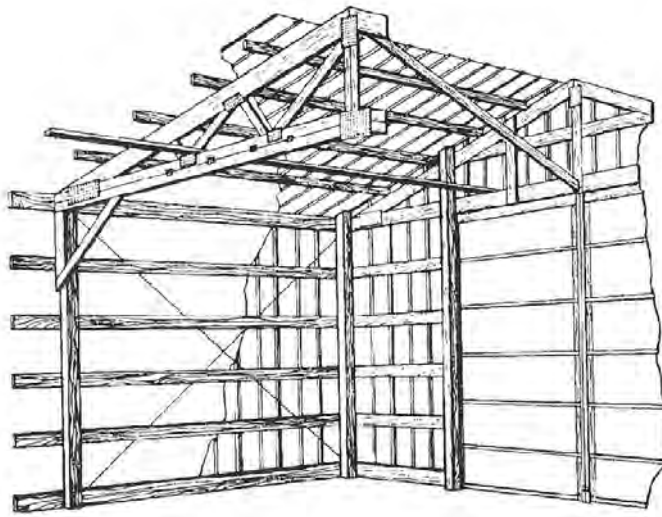


Masonry or reinforced concrete (including tilt-up) construction characterizes class C buildings. The walls may be load bearing (supporting roof and upper floors) or non-bearing (concrete, steel or wood columns, bents or arches supporting the load).



D Wood or Steel Stud Framed Exterior Walls

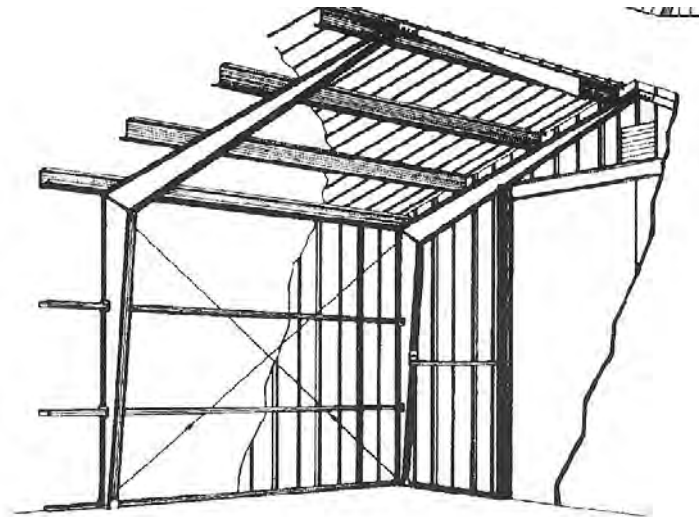




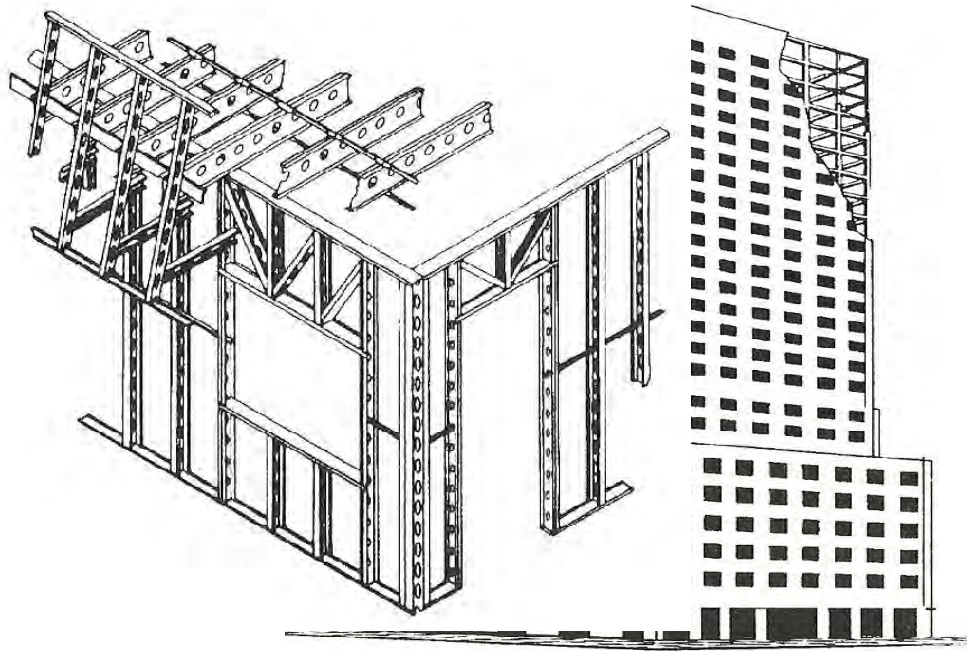
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Class D buildings are characterized by combustible construction. The exterior walls may be made up of closely spaced wood or steel studs, as in the case of a typical frame house. Exterior covers may be wood siding, shingles, stucco, brick or stone veneer, or some other type of material. Class D pole buildings have walls comprised of open wood skeleton post frame and trusses, with exterior coverings of prefabricated metal panels or sheet siding.

S Metal Frame Walls



Class S buildings are characterized by incombustible construction and prefabricated structural members. The exterior walls may be steel studs or an open-steel-skeleton frame with exterior single or sandwich wall coverings consisting of prefabricated panels or sheet siding. Floors and roofs are supported on steel joists or beams, or the floor may be concrete slab on grade. Upper floors or roofs may consist of metal deck, prefabricated panels or sheathing.

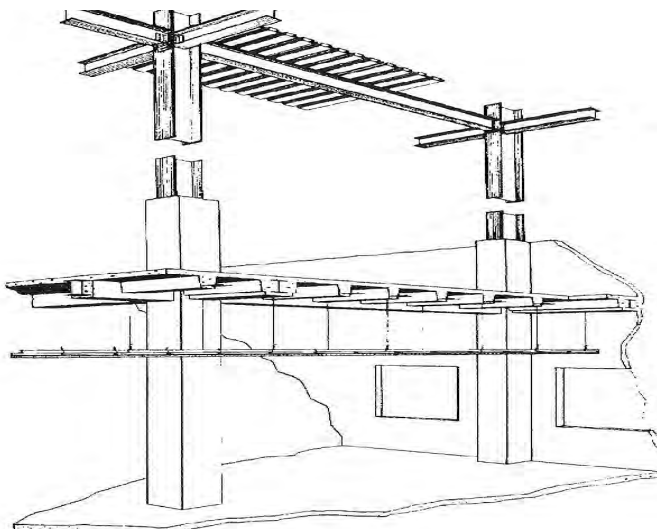


A High Rise with Steel Frame Walls

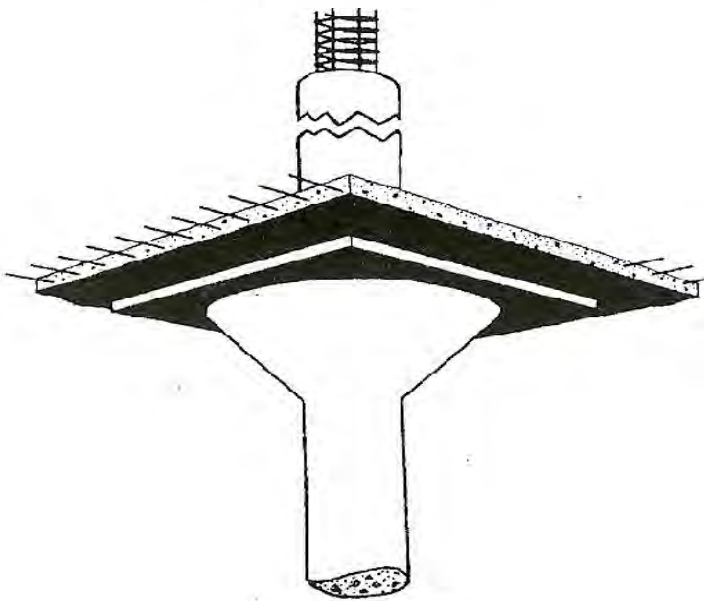
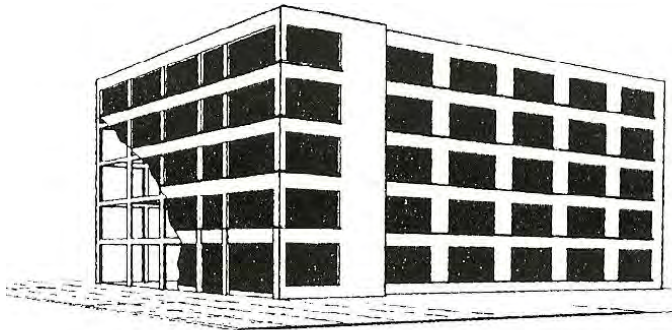
Class A buildings are typically constructed with the fireproofed, protected structural steel frame, which may be welded, bolted, or riveted together. The fireproofing may be masonry, poured concrete, plaster, sprayed fiber, or any type which will give a high fire-resistance rating. Floors and roofs in Class A structures are normally reinforced concrete on steel decking or formed slabs resting on the frame or poured so as to become integral with it. They may also be composed of prefabricated panels and may be mechanically stressed. Exterior walls will be curtain walls of masonry, concrete, steel studs and masonry, tile or stucco, or one of the many types of panels of metal, glass, concrete, and other materials.

B High Rise with Reinforced Concrete Frame

Class B buildings have the reinforced concrete frame in which the columns and beams can be either



formed or precast concrete. They may be mechanically stressed. It is a fire-resistant structure. Floors and roofs in Class B structures are formed or precast concrete slabs. The exterior walls will generally be masonry or reinforced concrete curtain walls or any type of wall panels of concrete, metal, glass, or stone, etc. In some class B buildings, the walls may be partially load-bearing. Interior partitions are often masonry, reinforced concrete or gypsum block.



Rank

The cost rank or quality determines the overall cost level in the report. The basic cost ranks are listed below.

Rank 1 Bad

Building is in such bad condition it is nearing condemnation. Property is beyond cost effective year, and remaining value may be salvage only.

Rank 1.5 Low

These buildings tend to be very plain buildings that conform to minimum building code requirements. Interiors are plain with little attention given to detail or finish. Typically, there are minimum mechanical and low-cost finishes throughout. Deterioration is obvious and there are marked signs of deferred maintenance.

Rank 2 Below Average

These buildings may meet building code requirements, but are lacking in ornamentation. They have the minimum necessary lighting and plumbing to service the occupants. Though still useable, deterioration is noted.

Rank 2.5 Average

These buildings are most commonly found and meet the building code requirements. All major components are usually functional, lighting and plumbing is quite adequate to service the occupants of the building.

Rank 3 Above Average

These buildings have adequate functional fixtures and have been well maintained. Care has been taken to maintain all major components and attention to exterior appeal is evident.

Rank 3.5 Good

These are generally well-designed buildings. Exterior walls usually have a mix of ornamental finishes. Interior walls are nicely finished, and there are good quality floor covers. Lighting and plumbing include better quality fixtures.

Rank 4 Excellent

Usually these buildings are specially designed, have high cost materials, and exhibit excellent workmanship. Both exteriors and interiors have custom ornamental features. Lighting and plumbing include high-cost fixtures

Height

The height is described as the vertical distance from the top of one floor to the top of the next floor. In a one-story building, measure store height from floor surface to the roof eave. Do not include parapets in the story height.

of Stories

For a multistory building, the number of stories is used to adjust the cost for high rise construction (by taking into consideration the additional framing required in multilevel buildings as well as the cost of raising material and labor to the upper floors.)

Shape

There are four options to enter the shape of the building, unless you know the perimeter in which case you may enter this figure for a more reliable cost estimate.

1= square

3= irregular

2= rectangle

4= very irregular

Age

There are several ways age is addressed in the cost approach. The year built is entered describing the year the property was first put on the roll. The base date indicates the date in which the data was entered into the system. The effective age is the difference between the year built and the base date. This number may be overwritten if there has been an enhancement done to the building after the primary construction. Depreciation tables will calculate the percentage depreciation depending on the

total life of the structure minus the effective age entered accordingly.

Occupancy

Occupancy refers to what use the building is built for, or in some cases, if there has been a remodel of the characteristics of the building, what the buildings current use is. Occupancy codes can be found along with their description and a table of “typical lives” within the Marshall & Swift Commercial Estimator Occupancy Reference. It is important to note that the occupancy code ties into a cost estimate that is unique for that occupancy. At times, a property may be constructed for more than one use. To properly calculate the cost on such a building, you must estimate the percentage that is attributed to each use and key accordingly assuring that the total equals 100%.

Codes

For quick reference purposes the code number along with the corresponding name is listed here.

173 Church Educational Wing
174 Pavilion
300 Apartment High Rise
301 Armory
302 Auditorium
303 Automobile Showroom
304 Bank
305 Barn
306 Bowling Alley
308 Church with Sunday School
309 Church
310 City Club
311 Clubhouse
313 Convalescent Hospital
314 Country Club
315 Creamery
318 Department Store
319 Discount Store
320 Dispensary
321 Dormitory
322 Fire Station (Staffed)
323 Fraternal Building
324 Fraternity House
326 Storage Garage
327 Governmental Building
328 Storage Hanger
329 Hanger, Maintenance and Office
330 Home For the Elderly
331 Hospital
335 Jail (Correctional Facility)
336 Laundromat
337 Library, Public
338 Loft
339 Lumber Storage Shed, Horizontal

340 Market
341 Medical Office
342 Mortuary
343 Motel
344 Office Building
345 Parking Structure
346 Post Office
348 Rectory
349 Fast Food Restaurant
350 Restaurant
352 Multiple Residence (Low Rise)
353 Retail Store
355 Fine Arts and Crafts Building (Primary School)
356 Classrooms (Primary School)
357 Commons
358 Gymnasium
359 Lecture Classrooms
360 Library, Media Center
361 Manual Arts Building
362 Multipurpose Building
363 Physical Education Building
364 Science Classrooms
365 Elementary School (Entire)
366 Junior High School
367 Arts and Crafts Building College
368 Classrooms College
369 Commons College
370 Gymnasium College
371 Lecture Hall College
372 Library College
373 Technical Trades College
374 Multipurpose Building
375 Physical Education Building
376 Science Classrooms
377 College
378 Stable
379 Theater, Live Stage
380 Theater, Cinema
381 Veterinary Hospital
384 Barber Shop
386 Mini Warehouse
387 Transit Warehouse
390 Lumber Storage Shed, Vertical
391 Material Storage Building
392 Industrial Engineering Building
393 Labor Dormitory
394 Transient Labor Cabin
403 Shower Building
405 Skating Rink

406 Storage Warehouse
407 Distribution Warehouse
408 Service Station
409 T-Hangar
410 Automotive Center
412 Neighborhood Shopping Center
413 Community Shopping Center
414 Regional Shopping Center
416 Tennis Club- Indoor
417 Racquetball-Handball Club
418 Health Club
419 Convenience Market
423 Mini-Lube Garage
424 Group Care Home
426 Day Care Center
427 Fire Station (Volunteer)
428 Horse Arena
431 Outpatient (Surgical Center)
432 Restroom Building
434 Car Wash, Self-Serve
435 Car Wash, Drive-Thru
436 Car Wash, Automatic
441 Cocktail Lounge
442 Bar/ Tavern
443 Central Bank
444 Dental Office/Clinic
446 Supermarket
447 Cold Storage Facility
450 Cotton Gin
451 Multiple residence, Senior Citizen (Low Rise)
453 Industrial Flex Building
454 Industrial Building, Shell
455 Auto Dealership, Complete
458 Warehouse Discount Store
459 Mixed Retail with Residential Units
460 Neighborhood Shopping Center, Shell
461 Community Shopping Center, Shell
462 Regional Shopping Center, Shell
465 Food Booth, Prefabricated
466 Boat Storage Shed
467 Boat Storage Building
468 Material Storage Shed
469 Freestall Barn
470 Equipment (Shop) Building
471 Light Commercial Utility Building
481 Museum
482 Convention Center
483 Fitness Center
484 High School (Entire)

485 Natatorium
486 Field Houses
487 Vocational School
488 Bookstore (Schools)
489 Jail (Police Station)
490 Kennel
491 Government Community Service Building
492 Shell Office Building
493 Flathouse
494 Industrial Light Manufacturing
495 Industrial Heavy Manufacturing
496 Laboratory
497 Computer Center
498 Broadcast Facility
499 Dry Cleaners/Laundry
508 Car Wash Canopy
511 Drugstore
513 Regional Discount Shopping Center
514 Community Center
515 Casino
516 Fellowship Hall
517 Narthex/Foyer
523 Golf Cart Storage Building
525 Mini Warehouse, High Rise
526 Service Garage Shed
527 Municipal Service Garage
528 Service Repair Garage
529 Snack Bar
530 Cafeteria
531 Mini-Mart Convenience Store
532 Florist Shop
533 Warehouse Food Store
534 Warehouse Showroom Store
537 Lodge
540 Motel Room, 2 Story, Double Row
541 Motel Room, 2 Story, Single Row
542 Motel Room, 1 Story, Double Row
543 Motel Room, 1 Story, Single Row
544 Office-Apartment (Motel)
551 Rooming House
552 Recreational Enclosure
554 Shed Office Structure
555 Light Commercial Arch-Rib, Quonset
559 Stables, High Value
560 Lean-To
571 Passenger Terminal
573 Arcade
574 Visitor Center
575 Dining Atrium

576 Atrium
577 Parking Levels
578 Mini Bank
580 Truck Stop
581 Post Office, Main
582 Post Office, Branch
583 Mail Processing Facility
584 Mega Warehouse
585 Mechanical Penthouse
586 Roadside Market
587 Multiple Residence (Low Rise), Shell
588 Motel, Extended Stay
589 Multiple Residence, Assisted Living (Low Rise)
594 Hotel, Full Service
595 Hotel, Limited Service
596 Apartment, (High Rise), Shell
597 Mixed Retail with Office Units
598 Relocatable Classroom
599 Relocatable Office
600 Administration Building
700 Mall Anchor Department Store
984 Luxury Apartment (High Rise)
985 Senior Clubhouse Center
987 Multiple Residence (Low Rise), Interior Space
989 Apartment (High Rise), Interior Space
990 Neighborhood Shopping Center, Interior Space
991 Community Shopping Center, Interior Space
992 Regional Shopping Center, Interior Space
993 Interior Space, Office Building
994 Interior Space, Industrial Building

Components

To build a proper cost estimate the components must be included. Examples of component types are as follows:

- Exterior walls
- HVAC– heating and air conditioning
- Elevator– by square foot
- Elevator (by count)
- Sprinklers
- Mezzanines
- Balconies
- Fire Alarm Systems

Each component attributes additional value to the base cost of the estimate. At times it will be important to estimate percentages of each component.

For example:

882	Brick Veneer	25%
812	Concrete Block	75%
611	Package Unit HVAC	50%

HVAC Heating and Cooling Options

All heating and Air Conditioning costs take into consideration all necessary ancillary components to support the system in question. Costs are averages of the cost ranges that might make up a system depending on the demand loads required by the occupancy, building design and/or climate encountered.

606	Space Heaters
611	Package Unit
616	Individual Thru-Wall Heat Pump
617	Complete HVAC
619	Refrigerated Cooling, Zoned
625	Refrigerated Cooling, Packaged
649	No HVAC

Exterior Walls

801	Masonry Adobe Block
802	Ashlar Stone Veneer, Block Back-up
803	Block with EIFS
804	Block with Stucco
805	Brick with Block Back-up
806	Brick with Clay Tile Back-up
807	Brick, Solid
808	Brick, SCR Modular (6"-8")
809	Cavity Concrete Block
810	Cavity Brick
811	Cavity Brick with Block Back-up
812	Concrete Block
813	Concrete Block, Glazed
814	Concrete Block, Slumpstone
815	Concrete Block, Textured Face
816	Concrete, Formed
817	Concrete, Precast Panels
818	Concrete, Tilt-up
819	Concrete w/Stay-in-Place Forming
820	Glass Block
821	Hollow Clay Block
822	Rubble Stone Veneer, Block Back-up
823	Solid Granite Stone
824	Solid Limestone
825	Solid Local Stone
826	Structural Clay Tile
840	Curtain Walls-Aggregate Siding Panels
841	Bronze and Glass Panels
842	Composite Stone Panels
843	Concrete and Glass Panels

844 EIFS Panels
845 Glass Fiber Reinforced Concrete Panels
846 Glazed Atrium
847 Marble Panels
848 Masonry Panels
849 Metal and Glass Panels
850 Stainless Steel Panels
851 Stainless Studs and Stucco
852 Stone Panels, Granite
853 Stone Panels, Local Stone
854 Stone Panels, Limestone
855 Wood Siding Panels
860 Pre-Engineered Cement Fiber Sandwich Panels
861 Cold Storage Metal Sandwich Panels
862 Cold Storage Stainless Steel Sandwich Panels
863 Fiberglass Sandwich Panels
864 Glass Exterior w/Metal Sandwich Panels
865 Metal Sandwich Panels
866 Texture Covered Metal Sandwich Panels
867 Pre-Fab Panels, Masonry Veneer
868 Pre-Fab Panels, Metal and Glass
869 Pre-Fab Panels, Metal with Block Back-up
870 Stone Veneer on Metal Panels
871 Stucco on Metal Panels
872 Porcelain Enamel Finish Additive
880 Stud walls-Asphalt Siding
881 Ashlar Stone Veneer
882 Brick Veneer
883 Block Veneer
884 Cement Fiber Siding
885 EIFS
886 Hardboard Sheet
887 Hardboard Siding
888 Metal Siding
889 Rubble Stone Veneer
890 Shingles
891 Stressskin Sandwich Panel Additive
892 Stucco
893 Synthetic Masonry Veneer
895 Vinyl Siding
896 Wood Siding
912 Cement Fiber on Wood Frame
913 Cement Fiber on Steel Frame
914 Fiberglass Panels on Wood Frame
915 Fiberglass Panels on Steel Frame
916 Metal on Steel Frame
917 Metal, Texture Covered on Steel Frame
918 Metal on Wood Frame
921--Stucco on Wood Frame

Chapter VI – Mobile Homes

Introduction

This chapter covers the BCAD mobile home procedures. Mobile homes can be very confusing, especially by comparison to residential appraisal work. The fact that they are “mobile” makes the possibility of duplication easy, especially if the label and serial #'s are not in our system.

It is of the utmost importance to the district for that information to be added as we obtain it. There are still some accounts both Real and Personal, which do not have this information, These are primarily older homes that no longer have or have never had a HUD label, or it has been covered with siding.

Mobile Home Discovery

Mobile home information comes to us in one of several ways including the following:

1. Building permits/during field checks
2. TDHCA title reports
3. Texas Department of Transportation moving report
4. Notification from Mortgage Companies
5. Notification of Mobile Home as Real Property by Title Companies
6. Owner Rendition
7. Mobile home park lists
8. Rendition forms

In the Field

If at all possible, check for label # (tag) on the mobile home. If there is not a label or the label cannot be gotten to, then get the dimensions of the home and determine as best you can the age of the home. Note any identification such as make or model. Example: Fleetwood (make) Festival (model), Manatee, Schult, etc...

Follow up: Use the label # (if available) to search TDHCA website for title information. Also check PACS to see if the home is already in our system (check all years, there may be an account that is deleted. If so, it can be reinstated for the new year). If there is, print the PRC, check ownership, location and taxing entities to see if they match the location of the field check. If not, make the necessary changes and link to the real property account.

If the title, now called a Statement of Ownership and Location, or SOL is available, check the information to see if the home is elected as “Real” or “Personal” property.

If the home has been elected as “Personal” property the mobile home needs to be set up on a Mobile Home Only account. Mobile home mortgage companies are now required to escrow for property taxes and need us to maintain a separate account for the home, apart from the land.

If there is not an active mortgage with a Mortgage Company, and there is not an active mortgage on the land, then the home can be combined to the land. Both land and home must be free and clear. Many people feel it is more beneficial than having two separate accounts or that it is easier to pay a single bill. However, with the Homestead Group option now available, they can receive full benefit for their exemptions, without having to

combine. It is much simpler to re-title a mobile home if it remains on Personal Property.

If SOL information is not available and the home is located on a piece of property, add the mobile home to the PRC, flag to send a rendition for the coming year, let the property owner give us the information. We have to account for the mobile home, whether or not “ownership” can be verified at this point, we have to assume that it belongs to the land owner, or at least it will be their responsibility to provide the ownership information so that we can make the correction. This is particularly common with older homes. When the rendition is received, check for title information and ownership. Then we can determine whether or not to leave the home on as real property or if a personal property account needs to be set up.

If the home has been designated as “Real Property”, it should be added to the Real Property account, and the title information added to the “legal” description, as well as the designation.

Note: Label and Serial # should be included in the legal of any account that includes a mobile home, whether it is “real” or “personal”, this is how they are tracked.

If it is determined that there is not an existing account and the home is designated as “Personal Property”, a mobile home only account needs to be setup. The mobile home data sheet needs to be completed, all legal information, taxing entities and property link etc...

TDHCA Monthly Report

This report is used to find ownership changes, movement of existing mobile homes and new homes. Each label # is checked in PACS to see if the mobile home is on the tax roll. If not found by label or serial #'s then check also by owner and location, in case we have the home on the roll, but do not have the label and serial in the system.

It is very important to have this information in the system for tracking each home and not duplicating. If this is the case, print the title and add the pertinent information to the legal. If the mobile home is determined to be on the tax roll, check the ownership and location information. If any information has changed, such as the ownership, print the title for documentation and make the ownership transfer.

If the home has also changed location, make the necessary changes (Such as taxing entities and property links). If we have the home on the roll and nothing has changed, check it off the list and move to the next.

If the home is not on the tax roll, print the title for field work. Whether or not the home is real or personal property, it still needs to be confirmed to be at the location listed. The information is not always correct, so do not assume it is there simply because you have a title that says so. Titles are sometimes obtained at one location and then moved.

Texas Department of Transportation Quarterly Reports

This report is found online and should be printed and worked quarterly. This report is given two ways, beginning county and ending county. The information provided in these reports enables us to track movement into and out of the county. As with the TDHCA report, use the Label # (or Serial #) to identify the home in question.

1. If the home has moved within the county, verify the new location by phone or field check. Then correct the situs, park #, property link, and taxing entities if any of these have changed.

2. If the home is new to the county, verify the placement of the home and setup the account if necessary.
3. If the home has moved out of the county, the account (or home, if on real property) will be deleted.

Notification from Mortgage Company

Notification from the various mortgage companies does not occur on a regular basis like the state title report. On occasion, a letter will be received about the placement of a mobile home in the county. The letter will contain an owner name, mailing address, location and the label and serial # of the home and the mortgage companies account #. Just as with the TDHCA titles, verify that the home is at the location that is stated in the letter.

Notification from Title Company

Primarily when we receive the information from the title company, the mobile home has been elected as “Real Property”.

Owner name, address and location, Title of the mobile home and the real property account are usually there. Determine whether or not the home is an existing home in the system, sometimes it is already included on the real property. We need always to compare all information and add any legal that has changed or that needs to be added, such as title #. There are times the home is on the tax roll on a Mobile home only account that will need to be deleted and combined to the real property account in question.

Owner Renditions

Property owners may inform us of the placement or purchase of a mobile home, usually for the purpose of qualifying for the homestead exemption on land that was previously vacant.

Mobile Home Park Lists

Mobile home parks are required to give us a listing of the homes and the owners in the park each year. The district generates a park list, consisting of the mobile home tax accounts which we have record of being in a particular park. It states the PID, the GEO, owner, legal, and space #. This is mailed to each park and we ask to receive it back with any additions, deletions or changes.

Particularly in parks where there is an abundance of older homes, many times these homes will change hands without anyone changing the Title work. The park list is often our only source of information. If there is an existing title, then use the name and then list the owner “%” (in care of) and then mail a rendition at the beginning of the year.

The ownership transfer is made referencing the park list and year as source. Title work is always checked for, but it is not always available. If there is no title, the owner name is changed to the person listed on the park list.

Renditions

When renditions are received, ownership information is reviewed. On occasion, we receive new owner information on these forms. (Title is always checked for) If the title work has not been done then use the title holder name “%” the new owner. If there is no title information, the owner name is changed to the person who has possession of the home.

Setting Up New Accounts

It should be stressed that all mobile home accounts set up on personal property should require a copy of the mobile home title. The purpose for having a copy of the title is to insure the ability of the taxing entities to file a tax lien against unpaid accounts. However, there are times when it is necessary to setup accounts without this information. It is not fair for us not to set up an account for a mobile home (even without legal) when we know the home is at a location and we have owner information.

This is usually going to be an older home in a mobile home park. If we have a home such as this outside of a park, the home should be valued together with the land until such information is gathered. Each mobile home in the county should be accounted for whether on personal or real property.

Assigning an Account Number for a Mobile Home

Account numbers are assigned by:

1. The School district where the home is located will determine the 1st four digits of the account number.
2. The 2nd set of digits is determined by whether or not the home is located in a park. If the home is in a park, each park has a “park number” that can be used. Or a park will have a particular series of number that has been used for previous accounts. Look to see if there are a repetitive number of the accounts located there to determine this number. If the home is not located in a park, the 2nd set of digits may be determined in one of two ways. In the case of the of the home being on leased land, and having no familial ties to the land owner, the 2nd set of digits should be any number 5000 or above. If the home has the same ownership as the land and in a subdivision, use the four digit S/D number, or the abstract number.
3. The 3rd set of numbers is usually determined by the space # if it is in a park, or by the lot or tract #, if on leased land.

The most important thing to remember is to make sure and not duplicate an existing or deleted account number. Always check the proposed account number against “all years” before assigning and using. It is also a good idea to check a proposed number against the tax office website, for delinquent deleted accounts that may no longer be in our database.

Use the following to determine the account numbers by school district, the 1st for digits as explained above.

9610 Alvin
9620 Angleton
9630 Brazosport
9640 Damon
9650 Danbury
9670 Pearland
9680 Sweeny
9690 Columbia-Brazoria

Second set: by park number or S/D or miscellaneous

M2400 Oakcrest MHP—use 2400

S3690 Easton Subdivision—use 3690

A0568 Abstract—use 0569

Miscellaneous (particularly if an account is being split and removed) example: 5000 to 9999

Example 1:

Mobile home located at Oakcrest Mobile home park (M2400), space #3, which is in the Alvin ISD.

9610-2400-003

Example 2:

Mobile home located in Grasslands S/D (S6850), lot 115, which is in the Angleton ISD.

9620-6850-115

Any mobile home not located in a mobile home park will use M9600 as it's park number on the mobile home data sheet. Then use S/D number, block, and lot, or Abstract and Tract number for space number.

Note to appraiser: complete the mobile home data sheet with field work notes, date, and initial. Then turn into the appropriate personnel for account number assignment.

Park Lists

Late December or early January, a computer printout will be generated that lists all the mobile homes coded to a particular mobile home park. This list is then sent to the park owner/management for verification of occupants and accuracy of information, any changes in ownership, additions or removals from the park. These lists will be asked to be returned by March 1. When the printouts are returned they should be processed as soon as possible (they may submit their own list).

Mobile home parks can be researched through abstract/subdivision by entering "M" and the 4 digit park number, or by calling up by name in the S/D database.

When the park list is worked, this is a replacement for a field check. The appraisal date is changed to the date the list is worked and in the remarks field a note is made, "PL2008", PL stands for park list and then the year.

For mobile homes no longer in the park:

1. Check for new owner or location
2. Check for moving permits
3. Phone call to owner
4. Mail rendition if we have a good mailing address, with a designated date to check for response.
5. If a new location for the home can be determined. Make the necessary corrections, park number and space number, suits, taxing entities, and property link if applicable.
6. If after all avenues have been exhausted and the home cannot be located, delete the account. If at a later date the home is located, the account can be reinstated at the new location.

For mobile homes new to the park list:

1. Check to see if an account already exists at another location, if so, correct park, space number, situs,

and taxing entities. Remember, check by label and/or serial number and ownership.

2. If new to the tax roll, mail a rendition, which includes the homestead exemption application.
3. Situs should be listed as the physical location and the space number.
4. The park list should provide ownership, label and/or serial number of the homes listed in the park. Complete a mobile home data sheet, with whatever information is provided. Mail a rendition, make phone calls to park manager/owner, check TDHCA website, field check as necessary. Exhaust all avenues to obtain the information needed.

For mobile homes that remain the same with a new owner listed:

1. Search TDHCA website to see if a new Title has been issued to a new owner.
2. If the website does not provide new information, it will depend on which Park being dealt with as to how you proceed.
 - a) Parks that “deal” mobile homes will usually provide a sales contract if requested, or when the homestead is applied for (i.e. Sun Meadow, Magnolia Place).
 - b) There are some parks that primarily house older homes, some of which have not had a title change in years. In these cases, the park list is our best and only source of information. An ownership transfer is done, the park list and year is referenced as to where the information came from and then a rendition is mailed out to the new owner of record (per the list). Usually we will have had “return mail” to the previous owner. These homes exist within the parks and must be accounted for in all fairness to the other mobile home owners, who do hold title to their homes.

Label and Serial Number Report

An in-house duplicate label and serial report should be generated periodically. This is one way to check for duplicate mobile homes. This can happen if both label and serial are not in the system when checking for accounts, when field work has not been keyed or when the account is not linked properly to the real property.

Deleted Accounts

When an account is deleted, the jacket should be pulled from the file, marked with a “D” and the year deleted. The jacket should then be filed with the deleted accounts. These need to be accessible, because there are occasions when an account is deleted because the home cannot be located and it will resurface at a later date. When a deleted mobile home resurfaces, reinstate the existing account and make the necessary corrections to ownership, situs, taxing entities and any other pertinent information.

Processing Renditions

Renditions are mailed at the beginning of the year to any new homes or new owner. When the rendition is received back in the office, it should be processed by clerical staff. The rendition date and value, if rendered is entered on the Mtg-Permits screen in the appropriate fields. The information on the rendition is then reviewed to look for ownership changes, situs, property links, and additions to the account (such as porches, storage buildings or carports).

Any changes should be hi-lighted and processed. If there are additions to the mobile home, these also should be hi-lighted, a PRC printed, attached and given to an appraiser for the appraisal work to be completed.

Rendition forms also have a homestead exemption application on the reverse side. If the homestead application is completed it should also be processed provided the required documentation is included or already present in the system.

Homestead Exemptions

Mobile homes are homesteadable, whether they are in a park or on leased land. A homestead exemption should not be applied unless the owner can produce proof of ownership, such as a title (SOL) or Contract of Sale. All other requirements are the same as on any other property. Owner occupied on January 1 of a given year. Applications for a new statement of ownership and location can be given to the individual so that a title can be obtained in the current owner name.

TDHCA-Statement of Ownership and Location

For a purchaser to apply for and obtain a new SOL, a Tax Certificate or Statement of No Taxes Owed, must be submitted with the application to TDHCA. Tax Certificates and Statements of No Taxes Owed are obtained from the tax office for a fee. If there are taxes owed on a mobile home, an SOL will not be issued.

In cases where a mobile home has changed hands more than once, a separate "Form A" must be filled out for each transaction. Example, Form A for transaction for John Smith to Jim Jones, a second Form A for Jim Jones to Mary Brown, and so on. Suggest to individual to call TDHCA, 1-800-500-7074, and go over the application with them before mailing to make sure all requirements have been met and the appropriate fee is included.

Because of the requirements of TDHCA, to obtain a Tax Certificate for issuance of a SOL, the appraisal district works closely with the tax office. When the tax office is issuing a Tax Certificate, they will require from us, the current year value and a tax estimate, so the taxes can be collected up front. Then send a PRC of the current year and a screen print of the tax estimate. There are times, particularly in the case of a repossession, when a mobile home has been valued together with real property it must be split to a mobile home only account. With the new laws in place for mobile home tax escrow, this is not as common as it once was, but does still occur. The mortgage company will request this usually by a phone call and then ask for them to fax a written request. Often there will be multiple years involved and need to have the years involved and a promise to pay from them because of the tax lien laws.

Request for mobile homes to be split from land accounts also come from mobile home dealers who are trying to obtain a current SOL on the home. These requests come at any time of the year as these repossessions or purchases occur. The parties involved are usually in need of the information quickly and rely on us to help them in this process.

Mail

Returned mail is worked by the clerical staff, same as real property. All avenues to obtain a current mailing address are used. If a current mailing address is not located, a field check may be required to see if the home is still at the location. If the mobile home is located in a park, new information will be provided on the next park list.

Mail includes letters, memo's, returned tax statements with owners notifying us of the sale of the mobile home, or that they no longer own the home. If no sale information is included, a phone call should be made requesting the information in writing. If there is not a phone number to call a letter requesting the information should be sent along with a rendition or a mobile home affidavit. Notification of placement or request from mortgage

companies for account numbers of mobile homes that are located in our county so that the taxes may be escrowed properly.

Phone Calls

The appraisal district fields a variety of phone calls concerning mobile homes. Primarily callers are searching for mobile home account number to obtain a tax certificate. This may be from a mortgage company, tax office, dealer, or an individual. The districts database is easier to use when searching by label number to see if a particular home is included on the tax roll. Remember to include all years when searching for a mobile home, this way deleted accounts will be called up.

Requests for mobile homes to split from real property, usually from mortgage companies or dealers needing a tax certificate to obtain a new SOL. Ask them to make the request in writing, this will usually then be faxed to us

Chapter VII – Personal Property

Introduction

The Brazoria County Appraisal District Personal Property Department is responsible for the discovery, listing, and appraisal of all business personal property within the jurisdiction boundaries of Brazoria CAD. The department consists of a supervisor, appraisers and an assistant.

The Texas Property Tax Code and Texas law outline information regarding the appraisal of personal property. Since personal property is movable and easily concealed, discovery becomes one of the most difficult tasks encountered by an appraisal district. The law requires that all property not specifically exempt be taxed.

Items not permanently affixed to real estate are generally considered to be personal property. Furniture, fixtures, machines, vehicles, store merchandise and business inventory are examples of personal property. Real property is land, buildings, homes, parking lots, mines, quarries, minerals in place, standing timber, or an interest in any of these types of real property. Generally, an item is personal property if it can be removed without damage to the real estate or to the item itself.

The Personal Property discovery process generally begins in August of each year. All existing properties are printed in situs/driving order. The department conducts situs checks annually. Building permits, field inspections, property owners, newspaper articles, telephone listings, and comptroller records are some of the sources used in discovering new property.

After discovery, property is defined, a legal description is assigned and taxable jurisdiction is determined. The square foot method is the most common medium used when estimating value. When comparable property values are available they are considered also.

By January/February all fieldwork is complete. Renditions are mailed to the property owners. Appraisers process renditions as they are received and reach a proposed appraised value for each business. Notices of appraised value are mailed May/June. The property owner is then given an opportunity to protest values. The roll is certified to the taxing jurisdictions and tax rates are calculated and assessed.

Personal Property Area Analysis

Brazoria County is located approximately thirty miles south of downtown Houston and is strongly influenced by the Houston economy. The county consists of eight school districts as well as sixty-five additional taxing entities; consisting of cities, mud, drainage, and other special districts.

There is a broad diversity of personal property located within the district's boundaries. Properties range from small locally owned retail business to heavy industrial and manufacturing facilities.

The retail area includes such developments as one major mall, a town center, large chain stores, and numerous shopping strips. There are also a variety of restaurants, hotels and motels. The coastal area is host to chemical companies, ports for the shrimping industry, as well as resort properties. There are four hospitals that serve the residents of this area. Pearland has consistently grown over the past years both in the business and residential properties. The remainder of the county has experienced growth but at a much slower rate.

Discovery of Personal Property

1. **Rendition:** Taxpayers must render all tangible business personal property used in the production of income, which they own or control as of January 1 of the taxable year. To expedite the rendition process, the chief appraiser should publicize legal requirements related to properly filing renditions and availability of forms. Also, the district should mail to the property owners a rendition form along with the legal requirements and specific instructions to complete the form correctly. Renditions assist appraisers in the discovery of businesses and the value of their assets.
2. **Personal Property Field Audits:** Renditions are valuable for obtaining information about taxable personal property; however, it cannot be a substitute for personal inspection of each business within Brazoria County. All new businesses are inspected and contact is made, preferably in person, with the owner. The new business owners are given guidelines which describe requirements for rendering. This initial personal contact with the owner of the new business ensures collection of correct data. All personal property is inspected annually. These inspections ensure all businesses and other establishments with taxable personal property are listed on the tax roll, identified by proper owner name, address and type of business classification. During each on site visit, appraisers record vital information regarding business size (square footage), quality, density and condition of inventory, furniture and fixtures, machinery and equipment, and vehicles used in each business.

The on-site inspection of inventory strives to determine the type of inventory record keeping system applicable to the business' inventory in order that appropriate appraisal techniques can be uniformly applied. Inventory record systems that are considered are the Perpetual, Periodic and Specific Identification. (See the Inventory Accounting Methodology and Guidelines Section for more details)

Density Methods are sometimes called "personal inspection" methods. The personal inspection of inventory should be accomplished whenever possible, in general or in conjunction with any personal property appraisal method. This personal inspection consists, essentially, of examining items and measuring the area in which merchandise inventory is stored so that density cost factors may be applied to these measurements to arrive at estimates of market value.

Square Foot Method is a specific method for using area measurement and a density cost factor to estimate the market value of inventory. This method is a mass appraisal concept. It is based on the assumption that the value of inventory at comparable places of business that have the same type and mix of inventory can be measured by multiplying dollar per square foot increments times the total used building square footage. It is based on the appraisal principle of substitution: No buyer will pay more for an inventory than he or she would have to pay to acquire an acceptable substitute in an equivalent amount of time. The substitute inventory should be one in the same line of business and who carries the same quality of merchandise at the same level of trade.

This method is most commonly used at the retail level of trade and for stores that have a wide variety of merchandise items. It is most often used for small chain-type convenience stores and fast food operations, but also may be used for drugstores, grocery stores, optometrist offices with merchandise inventory, auto parts stores, and other establishments, as long as the inventories are very similar. Large chain-type department stores normally should not be appraised using this method because each outlet will adjust the type, quality, and amount of goods to local or neighborhood conditions. However, this method may be used to check values rendered by such stores.

Situs of Taxable Personal Property

Determining situs of personal property for purposes of taxation can prove to be a difficult assignment. This holds especially true when considering the movable nature of most personal property. This section deals with certain legal provisions and examples of tax situs. Essentially, tax situs means jurisdiction to legally tax the personal property in question.

The Texas Property Tax Code states that tangible personal property is taxable in a taxing unit if:

1. It is located in the unit on January 1st of the taxable period for more than a temporary period;
2. It is normally located in the unit even though it may be temporarily outside the unit on January 1st of the taxable year;
3. It is normally returned to the unit between uses elsewhere, and it is not located in any one place for more than a temporary period; or
4. The owner resides or maintains his principle place of business in the taxing unit and the property is taxable in the State of Texas, but does not have a taxable situs according to #1 through #3 listed above.

The "Mobilia Rule" establishes a guideline for determining taxable situs of personal property, which is constantly moving. If tangible personal property does not acquire an actual situs of its own by being more or less permanently located at one place, such that it may be fairly regarded as being a part of the general mass of property within that jurisdiction, then it is taxable at the domicile of its owner. For property to acquire situs at a place separate from the owner's domicile, the appraiser must view the facts to determine if the property is used in the jurisdiction on more than a purely transitory basis.

Uniform Assessment of Personal Property

All three approaches to estimating value may be used to establish market value. The **definition of market value** is the highest monetary estimate that an item will bring if that item is exposed for sale in the open market for a reasonable time, with both the buyer and the seller aware of its best use, with the buyer nor the seller in a position to take advantage of the other. Property Tax Code defines the **market value of inventory** as "the price for which it would sell as a unit to a purchaser who would continue the business".

North American Industry Classification System (NAICS)

The North American Industry Classification System (NAICS) is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy. NAICS was developed under the auspices of the Office of Management and Budget (OMB), and adopted in 1997 to replace the [Standard Industrial Classification \(SIC\) system](#).

The NAICS system is currently used by BCAD to group businesses which have similar characteristics. This classification system assists in uniform appraisals of like businesses. The ability to group businesses with comparable assets has proven valuable to the appraisal staff when creating new accounts, re-valuing existing accounts and in supporting values during protest hearings.

Personal Property Mass Appraisal

The following is basic information on mass appraisal as used in personal property.

Identification

All Personal Property in Brazoria County must be assigned a name and legal description. The name assigned is the DBA or the owner's name. The legal description is the description of the property being appraised.

Purpose of Appraisal

The function of the Personal Property Mass Appraisal is to provide an equitable market valuation of all property in this taxing jurisdiction for ad valorem tax purposes in accordance with state law.

Definition of Market Value

According to the Texas Property Tax Code "Market Value" means the price at which a property would transfer for cash or its equivalent under prevailing market conditions if:

1. Exposed for sale in the open market with a reasonable time for the seller to find a purchaser.
2. Both the seller and the purchaser know of all the uses and purposes to which the property is adapted and for which it is capable of being used and of the enforceable restrictions on its use; and
3. Both the seller and purchaser seek to maximize their gains and neither is in a position to take advantage of the exigencies of the other.

Property Rights Valued

Brazoria County Appraisal District Personal Property valuation is based on assumed fee simple interest in property. However, restrictions, encumbrances, leasehold interests, special assessments, etc. are considered on an individual basis.

Date of Value Estimate

The date of value for all properties included in the mass appraisal assignment is as of January 1 of that given year.

Collection, Verification, Analysis, and Reconciliation of Data Available, Adequately Identified and Described, to Indicate a Value Conclusion

Data gathered in the field through on-site inspection is utilized to classify and value personal property. (See field inspection procedures on page 2) The following guidelines are considered and observed.

1. Highest and Best Use-Generally current use of personal property is considered Highest and Best Use. However, alternative uses which may be more profitable, legal and physically possible are considered.
2. The appraiser must identify, define, and analyze the appropriate market consistent with the purpose of the appraisal. There are distinct levels of trade (i.e. retail or wholesale) and each may have a distinct value. Therefore, the appraiser must consider the subject property within the correct context.
3. Appraisers will consider the market conditions at the time of the valuation including market acceptability of the property as well as supply, demand, scarcity or rarity.
4. Appraisers will consider a sufficient quantity of data and any prior sales of the subject within a sufficient period of occurrence to reach an appropriate estimate of value.
5. Appraisers will consider the cost, and sales comparison approaches and their degree of applicability in the valuation of personal property. The selection of valuation approaches to be used should be

based on the availability of data and the purpose of the appraisal.

6. Appraisers will consider effects on value caused by attributes such as condition, style, quality, manufacturer, author, materials, origin, age, provenance, alterations, and restorations.
7. Appraisers will identify any real estate, real property, trade fixtures or intangible items that are not personal property but are included in the appraisal

Personal Property Appraisal Resources

- State Comptroller Density cost Schedules
- Marshall and Swift
- NADA Appraisal Guide
- Commercial Vehicle Registration Listing
- Aircraft Bluebook
- Renditions
- Previous Year Appraisal Roll

Personal Property Accounts

After the property has been discovered, the appraiser must begin the process of creating the personal property account. It is the policy of BCAD that all new accounts created must be inspected during the year that they are created. The guidelines below must be followed to ensure proper creation/posting of new accounts:

Creating New Personal Property Accounts

1. Find the Real Property link to the Personal Property Account to be created by entering the address where the Personal Property is located. Write the account number for the link and entities on the New Account Listing sheet or other paperwork associated with the Personal Property.
 - a. ***Note: This information may already be entered on the New Account Listing sheet by the Appraiser(s) who collected the new account information.***
2. In PACS go to the **"File"** tab in the upper left corner. Click **New**. Click **Property**. This will bring the **"Create Property"** wizard up.
3. Click **Personal** under **"Select Property Type"**.
4. Click **Next** to go to the Identification screen. Click the **"Add"** button to enter the Situs address. Enter the address where the Personal Property is located.
5. Enter the 1st 4 digits of the GEOGRAPHICAL ID (see prefixes for GEO ID numbers on page 9). The rest of the GEO ID will be entered after the account is created.
6. Enter the name of the business (DBA) in **"Doing Business As"** box under Primary DBA. Use the drop down box to enter an alternate DBA if needed.
7. Enter the NAICS Code. (This information should be entered on the Listing Sheet; if not, see NAICS Code list for correct code according to business type).
8. Click **Next** to go to the legal description. The legal is generally: FURNITURE FIXTURES EQUIPMENT OTHER PERSONAL PROPERTY.
 - a. ***Note: This can be adjusted to include inventory, vehicles, or other types of Personal Property if necessary.***
9. Click **Next** to go to the Owner Name screen. Click the **"Change"** button under Current Owner. A search box will pop up. Click the **"Search"** button. Enter the DBA in the "File As" box to search for current owner. If there is an Owner ID already set up with the exact owner information needed (same DBA, Owner Name and Address), click on that owner and hit **"Next"** to accept the owner information. If there is **not** an Owner ID already set up, hit **"New"** in the search box to create a new

- owner. Use the DBA as the File As name; the name of the owner is listed in the *ADD'L NAME* box. After entering the complete mailing address and phone number(s), enter "New Owner" in the **"Change Reason"** box. (PACS will not let you save the owner information without a Reason Code). Click OK. Click Next and finish to complete the owner information. Review the owner information that was created for accuracy. Click Next.
10. Click the **"ADD/REMOVE"** button on the right of the screen to enter the entities. Select Entities box will pop up. Click on the available entity box and add each entity for the account. When finished click OK. Click Next.
 11. Click the **"SEGMENT DETAIL VIEW"** button. Click **"NEW"** tab.
 12. Bring drop down box next to "TYPE". Scroll down until you see the type of asset needed. (equipment, autos, etc.).
 13. Check the **"NEW SEGMENT"** box .
 14. In the Comment box, key any notes on appraised value per New Account Listing Sheet.
 - a. **Example: "ESTIMATED VALUE" or "VALUE PER COMP TO ACCT 123456"**
 15. Go to the **"APPRAISED VALUE"** tab. Click the Flat Value button. Enter the value for that segment. Hit Recalculate to accept value. Click Cancel.
 16. Repeat steps 11-14 for all segments needed.
 17. Click Next. Enter: Field Check on **"OTHER"** Box. Enter the appropriate zone (if needed) in the **"Zoning"** box.
 18. Next, select the Appraiser info tab, enter the initials of the Appraiser(s) who collected the New Account information in the **"LAST APPRAISER"** box. Enter the date of the field check (the date the new account information was acquired) in the **"LAST INSPECTION DATE"** box. Enter any comments about the account in the **"REMARKS"** box.
 - a. **Example: (2010) New Account Created per F/C-spoke to Joe**
 19. Finish the GEO ID. Select New Search in PACS **UNCHECK THE BOX NEXT TO GEO ID**. Enter the 1st 4 digits of the GEO ID. Enter the first initial of the DBA in the **"DOING BUSINESS AS"** box. Click Search. This will bring up the accounts with the same four digits and owners with the DBA beginning with the letter entered in the **"DOING BUSINESS AS"** box. Sort by DBA. Scroll until the new account being created is found. Now choose a GEO ID that falls between the two numbers above and below the new account being created.
 20. Enter the GEO ID you have chosen in the Identification screen of the new account. Click Recalculate. A **"DUPLICATE IDS"** box will appear if the GEO ID entered has already been used. Click "NO" to save changes, if the GEO ID shows a duplication. Now enter the number you chose with different ending numbers.
 - a. **Example: 9751-1055-000 is entered and the Duplicate ID box popped up. Click "no". Enter new number as 9751-1055-010. A variation of numbers may be keyed several times before an available number is found.**
 21. Click on "SPLIT MERGE-LNK" screen. Click Add. Click Search. Enter R# (Real Property #) Link in Property ID box. Click Search. When Property Link appears, select, (if not highlighted). Click Finish.
 22. Scan New Account Listing Sheet along with attached documentation into account using the **"IMAGE"** tab. (See procedure for document imaging.)
 23. Click on **"SUMMARY"** tab. Click "Print Appraisal Card", then Print. Attach the PRC to the New Account Listing Sheet.

Creating New Lease Accounts

1. Find the entities where the leased assets are located by entering the address listed on the rendition.

Write the entities on the rendition.

2. In PACS go to the **"FILE"** tab in the upper left corner. Click New. Click Property. This will bring the **"CREATE PROPERTY"** Wizard up.
3. Click Personal under **"SELECT PROPERTY TYPE"**.
4. Click Next to go to the Identification screen. Click the **"ADD"** button to enter the Situs Address. The address is entered in the **STREET** block.
 - a. **Note: the Situs Address for Lease Accounts is either the city where the assets are located or the school district if the assets are not inside the city.**
 - b. **Example: If entities are CPL DR4 GBC RDB SPL, the address would be "PEARLAND" because it is inside the city of Pear land. If the entities are DR4 GBC RDB SPL, the address would be "PEARLAND ISD" because it is in Pearland ISD, BUT NOT inside the city.**
5. Enter the 1st 4 digits of the GEO ID (see prefixes for GEO ID numbers). The rest of the GEO ID will be entered after the account is created.
6. Enter the Doing Business As (DBA) information. The DBA for Lease Accounts is entered as Leased Equipment (or vehicles, computers, etc.), the city or school district where the equipment is located.
 - a. **Example: If the entities are CPL DR4 GBC RDB SPL, the DBA would be "LEASED EQUIPMENT, PEARLAND". If the entities are DR4 GBC RDB SPL, the DBA would be "LEASED EQUIPMENT, PEARLAND ISD"**
7. Enter the NAICS Code. (see another account for NAICS code).
8. Click Next to go to the legal description. The legal is going to match the DBA except **"Personal Property"** will be added after **Leased Equipment**.
 - a. **Example: LEASED EQUIPMENT PERSONAL PROPERTY, PEARLAND**
9. Click Next to go to the Owner Name screen. Click the **"CHANGE"** button under Current Owner. A search box will pop up. Click the **"Search"** button. Click in Taxpayer ID section. Enter the Owner ID number that is on the folder and click search button. Check the owner information to be sure the correct owner information is in the box. Click Next and then Finish. The owner information will be shown. Click Next.
10. Click the **"ADD/REMOVE"** button on the right of the screen to enter the entities. Select entities box will pop up. Click on the available entity box and add each entity for the account. When finished, click next.
11. Click the **"SEGMENT DETAIL VIEW"** button. Click **"NEW"** tab.
12. Bring drop down box next to **"TYPE"**. Scroll down until you see the type of asset needed (equipment, autos, etc.).
13. Click the **"NEW SEGMENT"** box.
14. Go to the **"APPRAISED VALUE"** tab. Click the Flat Value button. Enter the value for that segment. Hit Recalculate to accept value. Click Cancel.
15. Click Next. On right side of screen under **"ADD/REMOVE"** button, next to **"FAST ADD"**, enter **"LSE"** and click the **"ADD"** tab (this is to add the prop code to indicate this account is a lease account). Click Next (nothing is needed on this screen). Click Finish.
16. Finish the GEO ID. Do a New Search. **UNCHECK THE BOX NEXT TO GEO ID**. Enter the 1st 4st digits of the GEO ID. Enter the 1st initial of the owner name in the File As box. Click Search. This will bring up the accounts with the same four digits and owners with the name beginning with letter entered in the **"File As"** box. Sort by taxpayer. Scroll until the new account being created is found. Choose a GEO ID that falls between the two numbers above and below the new account being created.
17. Enter the GEO ID you have chosen in the identification screen of the new account. Click

Recalculate. A "DUPLICATE IDS" box will pop up if the GEO ID entered has already been used.

- a. **Example: 9751-1055-000 is entered and the Duplicate ID box popped up. Click "no". Enter new number as 9751-1055-010. This may have to be done several times to get an available number.**

GEOGRAPHICAL ID ACCOUNT NUMBERS

The first four digits of each account number are area defined. Each area is listed below and is the general guide when an appraiser is assigning Geo Id.

9100	Outside city of Alvin
9103	City of Alvin
9130	City of Hillcrest Village
9135	City of Iowa Colony
9142	City of Liverpool
9145	City of Manvel
9200	Outside city of Angleton
9206	City of Angleton
9209	City of Bonney
9210	City of Bailey's Prairie
9232	City of Holiday Lakes
9300	Outside Brazosport Area
9318	City of Clute
9327	City of Freeport
9336	City of Jones Creek
9339	City of Lake Jackson
9348	City of Oyster Creek
9354	City of Quintana
9357	City of Richwood
9360	City of Surfside
9400	Outside city of Damon
9421	City of Damon
9500	Outside city of Danbury
9524	City of Danbury
9700	Outside city of Pearland
9715	City of Brookside
9751	City of Pearland
9800	Outside city of Sweeny
9863	City of Sweeny
9900	Outside city of Brazoria/West Columbia
9912	City of Brazoria
9966	City of West Columbia

Personal Property Guidelines

The following are guidelines for personal property. This is not to be considered a complete list, but just general guidelines.

Data Collection Procedures

1. Field Procedures – Data collection requires organization, planning, and teamwork. Accurate data is vital in order to ensure proper listing of a business and its assets. This data is typically collected from renditions and field inspections. Each appraiser is required to assign each new account an account number, NAICS code, and map zones (location indicators) when needed. During field inspections, the appraiser is often verifying information on existing accounts to ensure the continued accuracy of the appraisal records.
2. Data Entry – When an appraiser conducts a field inspection they will record all pertinent data on the field data sheets. The field data sheets must contain accurate and complete information. All field data sheets are given to an appraisal support clerk for entry into BCAD's computer system.
3. Verification – The quality of work is extremely important in producing an accurate appraised value for each business. The appraiser is ultimately responsible for all information recorded on each account; therefore it is vital that the appraiser reviews the records after being entered by the clerk into the computer system. Appraisers review values, descriptions, and classifications on each new account created annually. All changes made to existing accounts must also be reviewed. A minimum of two appraisers will verify/review information in order to ensure accuracy and prevent errors.

Sources of Data Collection

1. Prior Year's Appraisal Roll – The prior year's appraisal roll is typically the best starting point when discovering taxable personal property. The personal property has been rendered, the owner has received a notice, the equalization process has been completed and the roll has been certified.
2. Building Permits – The district receives duplicate building permit applications filed with the county engineer's office and various city offices. These applications are included in the situs/field work to discover new businesses and/or changes in existing businesses (square footage, signage, etc.).
3. Property Owners – Property owners are generally helpful in providing information about their property. Owners will often file renditions and provide sales data.
4. Media and Other Publication – Local newspapers, telephone and business directories, sales tax permits, vehicle and aircraft registration reports, and referrals from other departments are the most widely used data collection sources.

Processing Renditions

Renditions are opened and stamped with the date received immediately upon arrival to BCAD. If the rendition is received late, the envelope is attached to the back of the last page for future verification. A rendition is considered late after April 15 or after the date of the requested extension of time to file. Generally, if an extension was requested and granted, the rendition is considered late after May 15.

The renditions are separated by department and forwarded to the appraisers which will key the values. All information is considered confidential; therefore a high level of discretion is required of all appraisers during this process.

After all information is verified and keyed, each appraiser will write the total appraised value and their initials on the top right corner of the document. Each rendition is scanned into the computer system, then stored and held for the required retention period.

Penalty for Failure to Render

Penalties will be assessed on the taxable value of each business which fails to render timely each year. The business owner or his fiduciary is required by law to render all assets used in the business by April 15. A penalty may be removed if the owner can provide a copy of a rendition which was signed and dated timely. In extreme circumstance, such as death of the owner or employee responsible for rendering, a penalty may be waived if authorization is given by the Chief Appraiser.

Depreciation Schedules

In an effort to keep furniture, fixtures, equipment and vehicles depreciating in a uniform manner, a depreciation schedule is applied when performing calculations. (see appendix 4) When provided evidence of excessive wear/use, an additional reduction may be applied to machinery and vehicles.

Instructions for Using Depreciation Tables

1. Identify the personal property to be appraised.
2. Using the list at the bottom of the *Percent Good Table* in the appendix, determine the appropriate *Life Schedule* to be used.
3. Determine the *Year Acquired* and the original cost of the personal property.
4. Find the appropriate *Percent Good* by cross-referencing the *Life Schedule* with the *Year Acquired*.
5. Multiply the *Original Cost* x *Percent Good*.

Leased Assets Guidelines

Renditions are mailed to each leasing company in January of each tax year. As the renditions are returned to BCAD, the jurisdiction codes are applied according to the physical location or situs. The account assets are then valued either by applying the appropriate age-life depreciation factor to the original cost provided by the leasing company or by accepting the opinion of value (good faith estimate) provided by the leasing company. If neither the original cost nor good faith estimate is provided, then resource guides such as NADA are used. Each leasing company has an account for each jurisdiction code groupings. This can result in as many as 50 or more accounts per company.

Vehicle Guidelines

The Personal Property Department values vehicles used in a commercial capacity. The main source of commercial vehicle discovery is the Texas Vehicle Registration listing received annually.

This listing provides data on all licensed vehicles (automobiles, pick-up trucks, trailers, tractors, etc.) in Brazoria County, which are registered to a business or its owners as of January 1 of each tax year.

Vehicle Affidavits

The following list of circumstances allows the deletion of vehicles from the tax roll. Vehicle Exemption/Affidavit forms should be required from the property owner and should be notarized when the following exists:

Affidavit Concerning Vehicle Use – This exemption/affidavit form should be required from the property owner who contends that the vehicle(s) are not being used in the production of income. If the vehicle(s) is being depreciated for federal income tax purposes (the owner is claiming the business usage of the vehicle on his income tax return), such vehicle(s) are subject to taxation. All property owners who sign this form should

be advised that they have been asked to share this information with the I.R.S. Taxpayer Identification Number is required to be included on the form. The property owner may be requested to produce a copy of the business federal income tax return as proof that the vehicle(s) are not being depreciated for I.R.S. purposes.

Affidavit Concerning Vehicle Situs – When the property owner contends that the vehicles in question are not taxable in Brazoria County, a notarized affidavit is required. Vehicles registered in Brazoria County are typically taxable by BCAD unless the following applies:

1. The vehicle(s) was located in another county on January 1 for more than a temporary period;
2. The vehicle(s) is normally located in another county even though it may have been temporarily absent on January 1;
3. The vehicle(s) is normally returned to another county between uses elsewhere and is not located in any one place for more than a temporary period.

If the owner claims to have been taxed on the vehicle(s) in another county, tax bills or notices of appraised value from the respective counties should be provided. All effort should be made to assure that the vehicle(s) in question are actually identified and included in the tax accounts of that business in other jurisdictions. Property owners should be advised that BCAD is required to notify the chief appraiser of other counties of property that should have taxable situs in those counties (See Section 22.25 of the Property Tax Code).

Affidavit Concerning Interstate Commerce – This affidavit should be used when a vehicle or vehicles are registered or have situs in Brazoria County, but are used in other states. The Texas Property Tax Code, Section 21.03, allows for vehicles, which are driven, both in Texas and other states to be taxed on an allocated value. This allocated value is the market value of the vehicle(s) multiplied by a ratio calculated as follows:

$$\frac{\text{Total tax-year Texas miles}}{\text{Total tax-year miles}}$$

For example, a truck driven 65,000 miles in Texas and 35,000 miles in other states is entitled to 65% allocation.

$$\frac{65,000}{100,000} = .65$$

If the vehicle(s) is taxable in Brazoria County, the Texas portion of the allocation is taxable in Brazoria County. Texas law does not permit allocation among counties. The property owner may be asked to produce records showing total mileage and mileage in Texas and in other states.

Affidavit Concerning Vehicle Ownership – This affidavit should be used as support documentation for the vehicles no longer owned by the property owner. This includes vehicles that have been sold, stolen, scrapped, etc. The sound judgment of the appraiser is the key factor in determining taxability. If more interpretation is needed on any of the previous vehicle guidelines, consult the department supervisor.

Private Aircraft Guidelines

Listing Aircraft – The following guidelines will assist an appraiser in determining ownership, use, situs and descriptive information (make, model, etc.).

Determine Ownership

1. FAA Registration (Name of Owner)

2. List from Airport Manager
3. Owner Renditions

Determine Use

1. FAA Registration (Corporation, Personal, or Partnership)
2. Owner Renditions
3. Business Publications

Determine Aircraft Specifications

1. Make
2. Model
3. Year
4. Serial Number

Determine Taxable Situs

1. FAA Registration
2. Field Inspections
3. Owner Renditions

Valuation of Aircraft(s)

An aircraft registered in an individual or company name is typically taxable by BCAD if:

1. The aircraft is used for business purposes, such as, transporting the owner, and/or personnel to business conferences, workshops or other business related functions;
2. The aircraft becomes a financial benefit if deductions for fuel, maintenance, repairs, hanger/storage fees and other expenses are included on the federal return of the owner;
3. The aircraft is viewed as a financial benefit or income producing when depreciated as an asset on the federal return which reduces the tax liability of the owner.

An Aircraft owner may qualify to be exempt from taxation if the following documentation is provided:

1. Federal return(s) which do not list the aircraft as a depreciable asset, investment, or other financial benefit and,
2. Expense reports or receipts for the aircraft(s) indicating the fuel and housing of the aircraft is paid by an individual, and the expenses are not deducted on the federal return as a benefit to the owner.

Estimate Market Value of Typical Aircraft (January 1)

1. Aircraft Blue Book
2. Special Marketing Companies
3. Market Information and Analysis

Estimate Value and Adjust for Non-typical Features

1. Additional Amenities
2. Type and Number of Radios
3. Any other Non-Typical Features

Estimate and Adjust for Non-Typical Deterioration

1. High Engine Time
2. High Aircraft Time
3. Air worthiness Inspection Failure
4. Damage History
5. Any other Non-Typical Deterioration

Inventory

Equal and Uniform Appraisal of Inventory

Merchandise consists of all items of personal property that are to be bought and sold for the purpose of making a profit. Merchandise items are items, which are not being used for their intended or ultimate purpose. The specific merchandise items which an owner has on hand at a particular time, constitutes the owner's merchandise inventory. Merchandise inventory can include stock-in-trade, consigned goods, good in storage, leased area of department stores, and supplies.

The owner may be a primary producer, manufacturer, distributor, wholesaler, or retailer. These different levels of ownership are called levels of trade. The appraiser must know the level of trade of the items being appraised because each level of trade has a different value.

When appraising merchandise inventory, the appraiser should recognize the level of trade at which the property is situated. Also, the appraiser should be aware of the principle that property normally increases in value as it progresses through production and distribution channels. Such property normally attains its maximum value at the consumer level. The levels of trade are as follows:

1. Primary Producer – Inventories in the hands of the primary producer consist of raw materials such as oil, gas, logs, gravel, etc. These items are considered to be inventory when there are markets established by regular buyers of the property. The estimate of the market value as inventory is based on the number of items and the sale price of the items less the direct operating cost of preparing the property for market and less the cost of moving the items to the market place at which the sale price is applicable.
2. Manufacturer – Inventories in the hands of the manufacturer consists of raw materials, goods in process, and finished goods. The estimates of market value of the inventories are based on the dollar amount for which they would transfer to other manufacturers having the same end products.
3. Wholesale/Distributors – Wholesaling and distribution, normally called the wholesale level, may actually be one of two levels of trade depending of the system under which particular products are distributed to retailers.
4. Retailer – Inventories in the hands of the retailer who holds them for sale, lease, or rental has a market value equal to the dollar amount for which it would transfer to other retailers of similar or like property. The estimate of the retail market value is calculated by establishing the cost of the inventories to the retailer.

Stock-in-trade consist of commodities comprising both goods and equipment if these are held for sale. Most stock-in-trade in the hands of the retailer and wholesalers belongs to the merchant who holds them. A manufacturer's inventory includes raw materials, goods in process, and finished goods.

Consigned goods are goods owned by one person that are being offered for sale by another person. When the owner delivers the goods for sale, he retains title and is known as the consignor. The person who receives the goods and offers them for sale is called the consignee. Consigned goods are taxable to the owner or consignor. Since the property is found in the hands of the consignees, an assessment is sometimes made against consignees. This assessment should be made against the owner, since the consignee has no title to the goods in question. If the owner is unknown, the holder or consignee should be assessed until the owner can be identified. Consigned goods are taxable and should be assessed.

Goods-in-storage are taxable by the jurisdiction in which they are located. Operators of warehouses and other places of public storage are required by Section 22.01 of the Texas Property Tax Code to furnish to the chief appraiser, upon demand, a list of the property stored in their facilities along with the names and addresses of the respective owners.

Freeport goods (tangible personal property transported outside the state) can be found in the Texas Property Tax Code under Section 11.251. This section defines Freeport goods and discusses conditions under which part, or all of the owner's inventory may be tax exempt. Federal law provides for the exemption for goods traveling in INTERSTATE commerce. As long as the goods are in transit, they are not taxable. Appraisers consider goods to be in transit when the owner delivers them to a carrier for shipment or the owner actually starts moving them on their journey. They need not be moving all the time to keep the Freeport exemption. For example, goods may stop for normal transportation delays or for enough other goods to make a full load. The owner may even store them temporarily, if storage is required for safe and efficient transport. Temporary interruptions in the journey related to safe and efficient transportation do not make the property taxable. If goods in interstate commerce stop on their journey for "business advantage," the property may be taxable wherever the interruption takes place. "Business advantage" is any situation that is not related solely to safe and efficient transportation. Goods become taxable when the carrier delivers them to a distribution point and unloads, repackages, mixes them with other goods, or holds them for sale.

Leased Department Some larger stores do not operate the entire store themselves. They lease certain sections to separate businesses. For example, many automotive departments in discount stores are leased. As these businesses render their inventory, there is no guarantee either will be rendered separately. It is a good practice when a field appraiser inspects the business (particularly discount department stores, grocery stores and convenience stores) each year to ask the management personnel if any departments are leased. Also, the office or company responsible for reporting the inventory figures should be made aware to render the respective lease departments, approximate area of lease, and terms of lease indicating whether there is a minimum amount of inventory that must be kept on hand. Once the existence of such departments is established, the inventories can be treated as small stores of a particular type and valued by the appraiser.

Supplies are items that are used in connection with the operation of a business or profession but are not for sale. Supplies also include manufacturing supplies and shipping containers.

Merchandising Practices – Floor Planning: A retailer may finance the purchase of merchandise under the floor plan agreement. A lending institution buys products from a supplier and hold title to the products which are then placed on the "floor" of the retailer and offered for sale. When one of the items is sold, the retailer pays the lending institution a release price on that item. Thus, the retailer possesses property which is owned by a lending institution. Floor plan agreements usually state that the retailer, in possession of the inventory, will pay the property taxes.

Inventory Accounting Mythology and Guidelines

Inventory: All items of Personal Property that are to be bought and sold for the purpose of making a profit, or the raw materials and the items which are manufactured or produced from raw materials, and distributed through levels of trade to consumers. Inventory items are items that are not being used for their intended or ultimate purpose. They are items held for the purpose of making a profit.

Market Value of an Inventory: The price for which it would sell as a unit to a purchaser who would continue the business.

Inventory Accounting Systems: This is the process of determining the quantity of each type of merchandise in inventory. There are two principle systems of inventory: Perpetual and Periodic.

1. The Perpetual Accounting System employs accounting records that continuously disclose the amount of inventory.
2. When the Periodic Accounting System is used, the inventory figures may show totals as of various dates depending on the company's fiscal year end. In this case, adjustments may be required to bring inventory figures forward or backwards to January 1.
3. A third and less common system is the Specific Identification System. This system is the most accurate. It lists each item separately and is used primarily in businesses that contain a small number of high priced items (i.e., automobile dealers, heavy equipment dealers, etc.).

Inventory Accounting Methods: The inventory accounting methods are those methods used in costing inventories. A significant complication in determining cost results when particular units have been acquired at different prices during the year.

Adjustments to Inventory Cost: Three types of adjustments may be necessary to inventory cost figures: depreciation, appreciation and accounting adjustments.

1. **Depreciation:** New inventory normally does not depreciate however, if inventory has suffered some depreciation either physical or functional, the appraiser should lower the value. Businesses usually have ways to document losses from spoilage or theft. These documents should be presented before any depreciation adjustments are made.
2. **Appreciation:** Use caution making appreciation adjustments. A study of the market forces in the district may be necessary to make accurate appreciation adjustments.
3. **Accounting Adjustments:** Adjustments to inventory costs should be made only when circumstances call for adjustments. Original cost and any deductions must be documented.

Inventory in a declining market may require an adjustment if the market prices indicate a reduction should be applied. Discounts for bulk or obsolete inventory may be considered on a case-by-case basis with proper documentation.

Corrections may be necessary to adjust value to January 1 when the accounting period or fiscal year ends before or after January 1. Most corporations (1120 corporate tax returns), most partnerships (1065 partnership tax returns), and all individuals (1040 tax returns) have a fiscal year that ends on December 31.

Procedure for Processing Return Mail

1. Be certain the GEO ID account number is on the front of the envelope.
2. If a forwarding address has been given on the envelope simple enter the change in the computer and file the return mail.
3. If no forwarding was given by the postmaster:
 - a) Call the phone number attached to this account in the computer.
 - b) Clarify all information on the account with the manager/owner if available.
4. If the phone number has been disconnected:
 - a) Attempt to contact the real property owner for closure information and a forwarding address.
 - b) Check various websites to see if there is an alternate phone number/address is listed for the company.
 - c) Check images for alternate phone numbers on the set-up (blue) sheet.

Percent Good Tables

See Appendix 6

Chapter VIII – Waterfront Property

Introduction

This chapter covers water front and resort properties. For more classing information see chapter two Classification. All residential measuring techniques apply to waterfront and resort properties unless otherwise noted.

Waterfront and Resort Properties

Waterfront and Resort properties often should be drawn facing the street, as this is where the appraiser will be identifying the property. Remember for classing purposes, that the waterside is usually where the architecture and design is located.

Waterfront and Resort type properties often have numerous amenities not common to other properties. This makes it necessary for the appraiser to carefully examine these items and report a contributory value. The following pages contain guidelines of some items with significant contributory value and how best to report them.

Boat Docks

Decking located over the water is considered a dock (excluding 2nd level decks); over the land is a wood deck.

- RD1 – Light duty (3” – 6” Diameter Piling, 1½” Deck)
- RD2 – Medium duty (8” – 10” Diameter Piling, 2” Deck)
- RD3 – Heavy duty (12” + Diameter Piling, 3” Deck)

Bulkheads

Bulkheads will be reported as a linear foot measure. They will be classified, given a condition rating, an effective year and depreciated accordingly.

- BH1 – This is a light duty bulkhead, consisting of 1 ½” lumber and pilings of less than 6”. Both lumber and pilings are of minimal treatment such as typical treated lumber from a discount lumber company.
- BH2 – This is the typical residential bulkhead, consisting of full 2” lumber with heavy creosote of equivalent treatment. The pilings will be 6” to 10” with heavy treatment. Synthetic materials will also be covered in this category.
- BH3 – This will be typical of commercial properties, however some residential applications exist. The lumber will be 3” or greater, and the pilings 10” or greater with heavy treatment on both. This will also include heavy concrete bulkheads.

The condition and effective age are critical to determining the proper value. Most often, the effective age will be the actual age on a bulkhead. Conditions should be reported as follows:

- E – Excellent – Like new condition

- **G** – Good – Bulkhead is maintained and no obvious structural damage is evident.
- **A** – Average – Some minor repairs may be necessary, but the bulkhead is functioning as intended
- **F** – Fair – Bulkhead needs immediate attention, yet is for the most part functional.
- **P** – Poor – Bulkhead has salvageable components, but is not functional and is in need of major repair.
- **U** – Unsound – Bulkhead is neither functional nor salvageable.

Boat Lifts

Boat lifts will have a unit value based on classification, condition and effective age.

- **BL1** – Light duty boatlift, often home made with low-grade components and design.
- **BL2** – Typical residential quality manufactured lift with good components and design.
- **BL3** – Heavy duty manufactured or built with high quality materials and workmanship.

The condition and effective age are critical to determining the proper value. Most often, the effective age will be the actual age on a boat lift. Conditions should be reported as follows:

- **E** – Excellent – Like new condition.
- **G** – Good – Boat lift is maintained and no obvious structural damage is evident
- **A** - Average – some minor repairs may be necessary, but the boat lift is functioning as intended.
- **F** – Fair – Boat lift needs immediate attention, yet is for the most part functional.
- **P** – Poor – Boat lift has salvageable components, but is not functional and is in need of major repair.
- **U** – Unsound – Boat lift is neither functional nor salvageable.



BL2—in good working order



Typical Class 4 BH2—6" to 10" Pilings, 2" Treated Lumber



Typical Class 5 BH2—Quality Synthetic Materials, Trimmed in Treated Material



Typical Class 4 BH2—6" to 10" Pilings, 2" Treated Lumber



BH2—Class 4 Still Structurally Sound, Fill Maintained, Yet only in Average to Fair Condition.



BH2—Class 5 Synthetic Material in Excellent Condition.



BH2—Class 4 Most of Bulkhead has given way, yet fill has been maintained. Fair to Poor.



1. BH2 in Good Condition for the Width of Lot
2. WD Leading to the Dock
3. RD2 "U" Shaped with Large Pier Area
4. RC1 Detached Carport
5. BL2 Boat Lift



1. BH2 in Good Condition for the Width of Lot and Perimeter of Slip
2. RC1 Detached Carport
3. BL2 Boat Lift



1. BH2 in Good Condition for the Width of Lot and Perimeter of Slip
2. WD Leading to Dock
3. 2—BL2's
4. RD2 "U" Shaped

Chapter IX – Agriculture

Introduction

This chapter sets out both appraisal procedures and eligibility requirements for agricultural appraisal. Appraisal districts are required by law to follow the methods described in this chapter.

The Agriculture Appraisal Laws

The agricultural appraisal laws have a number of popular names. The Section 1-d-1 laws (Art. VIII, Sec. 1-d-1, Texas Constitution, and Secs. 23.51-23.57, Property Tax Code) are often called “open-space” laws, because the sections use the term “open-space land.” They are often also called 1-d-1 laws, after the number of the section of the constitution. Because 95 percent or more of the eligible land in Texas now qualifies under the newer law, this chapter emphasizes its procedures and requirements. The older laws are still in effect, and occasionally land does qualify under them. These laws are often called “ag-use” or 1-d laws (Art. VIII, Sec. 1-d, Texas Constitution, and Secs. 23.41-23.46, Property Tax Code). In this chapter, when we refer to a procedure under the older law, we will refer to it as 1-d, 1-d agricultural appraisal, or 1-d productivity valuation to distinguish it from the newer 1-d-1 procedures.

The special appraisal technique also has several popular names, including productivity appraisal, special appraisal, and agricultural appraisal. We will use the term agricultural appraisal or productivity valuation throughout this chapter. Several elements are common to both laws:

- A property owner must apply for agricultural appraisal. The owner must file a special form with the appraisal district before the deadline.
- The agricultural appraisal applies only to land, fences, and certain appurtenances. It doesn't apply to improvements or equipment.
- The chief appraiser must act on each application they receive and notify the property owner if they deny the application or need more information.
- A property owner may appeal denial of agricultural appraisal and a change of use determination to the appraisal review board.
- Land that receives agricultural appraisal is subject to a tax penalty (the “rollback tax”) when taken out of agricultural use. Land appraised under 1-d is also subject to a rollback if it is sold or otherwise transferred to a new owner.

There are also some key differences in the two laws:

- 1-d requires the property owner to reapply every year. 1-d-1 requires reapplication only when the property changes ownership or agricultural-use class or when the chief appraiser requires a new application.
- 1-d requires the property owner to be an individual. 1-d-1 allows both individuals and corporations to qualify.
- 1-d requires that agriculture be the owner's primary occupation and principal source of income. The property owner must show that agriculture is conducted for profit. 1-d-1 has no occupation, income, or profit requirements. Instead, it focuses on whether the land is used to the degree of intensity typical in the area for a particular agricultural enterprise.

- 1-d requires that land be devoted principally to agriculture for the three years immediately preceding qualification. 1-d-1 requires devotion principally to agriculture for five of the seven preceding years.
- 1-d requires a rollback tax when the property is taken out of agricultural use or when it is sold. The rollback recaptures taxes for the three preceding years. 1-d-1 requires a rollback tax only when agricultural operations cease or the use changes, and the rollback recaptures taxes for the five preceding years.

The roles of tax officials are the same under both laws.

The Chief Appraiser:

- Creates a land classification system covering each type of agricultural land typical in the district.
- Calculates typical net income, based on a variety of sources, for prudently managed agricultural operations.
- Determines land use and degree of intensity standards for qualifying land.
- Provides applications and acts separately on each agricultural appraisal application.
- Determines if and when a change of use occurs and sends notice of the determination to the property owner.
- Appraises each property and prepares appraisal records listing information on agricultural property; and notifies the property owner of the appraisal district's actions if the Property Tax Code requires it.

The Tax Assessor:

- Calculates taxes on the property.
- Delivers tax bills as usual and calculates and delivers a rollback tax bill when the rollback tax becomes due.

Qualification of Land Under Section 1-d-1

The Texas Constitution permits special agricultural appraisal only if land and its owner meet specific requirements defining farm and ranch use. Land won't qualify simply because it is rural or has some connection with agriculture. Neither will it qualify because it is open land that has no other possible use. The law does not guarantee a tax break for everyone who makes a living from the land. Casual uses such as home vegetable gardens do not really constitute agriculture.

Section 23.51 of the Property Tax Code sets the standards for determining whether land qualifies: "Qualified open-space land means land that is currently devoted principally to agricultural use to the degree of intensity generally accepted in the area."

To qualify his land for agricultural appraisal, the property owner must show the chief appraiser that his land meets the Sec. 23.51 standard. To do so, the property owner must apply for the appraisal. The owner must give the chief appraiser all the information he needs to determine whether the land qualifies. The property owner must also inform the chief appraiser of any changes in the status of his land.

This section will explain each eligibility requirement for chief appraisers and property owners. Brief descriptions of each requirement appear below:

- Agricultural appraisal applies to the land and not to other property that may be connected with the land.
- The land must be currently devoted principally to agricultural use.
- The land must be devoted to an agricultural use to the degree of intensity that is typical in an area.
- The land must have been used principally for agriculture or timber production for any five of the preceding seven years.

- Land owned by a foreigner is ineligible for agricultural appraisal. Land inside city limits has more stringent qualification requirements and may be ineligible. Property owners may waive the right to 1-d-1 appraisal.
- Land used as an ecological laboratory may qualify for agricultural appraisal.
- The property owner must file a valid application form.

Each of these seven requirements is discussed in detail below.

1-d-1 Land

Agricultural appraisal applies to the “land” and not to other property that may be connected with the land

Agricultural appraisal applies only to land. It does not apply to improvements on land, minerals, or agricultural products. For example:

Improvements—buildings and structures such as barns, sheds, silos, and other farm outbuildings must be appraised separately at market value. However, fences are treated as appurtenances and are not appraised separately. Land beneath farm buildings and other agricultural improvements does qualify for the special appraisal because it is used in connection with the agricultural operation.

Minerals—oil, gas, or any hard mineral—must be appraised separately at market value. Products of the agricultural operation—peaches, cotton, peanuts, grain, cattle, etc.—in the hands of the producer are generally exempt from taxation because of other provisions of Texas law. Farm and ranch equipment designed and used primarily for agriculture—implements of husbandry—are also exempt.

Some man-made alterations of, or additions to, agricultural land are valued as a part of the land. These appurtenances to the land—canals, water wells, roads, stock tanks, and other similar reshaping of the soil—are included in the value of the land and are not separately appraised. Standing timber is real property. Decorative trees, windbreaks, fruit trees, or nut trees are appurtenances to land. Although a water well is an appurtenance, pumps, windmills, and other fixed attachments are valued separately at market value.

The law also states that riparian water rights—the landowner’s right to use natural streams of water adjoining his land—are appurtenances and included in the special appraisal of the land. Statutory water rights, which in the absence of a riparian right require a permit from the Water Commission, are appraised separately at market value. For example, a right granted by permit to divert water from a stream would be valued separately at market value.

Agricultural Use

Land must be currently devoted principally to agricultural use. Section 23.51(2), Property Tax Code, defines the term “agricultural use” as including the following activities:

- Cultivating the soil.
- Producing crops for human food, animal feed, or planting seed or for the production of fibers.
- Floriculture. Floriculture is the cultivation and management of ornamental and flowering plants.
- Viticulture. Viticulture is the cultivation of grapes.
- Horticulture. Horticulture is the cultivation of fruits, vegetables, flowers, herbs, or other plants.

- Raising or keeping livestock. “Livestock” means a domesticated animal that derives its primary nourishment from vegetation, supplemented as necessary with commercial feed. Livestock includes meat or dairy cattle, horses, goats, swine, poultry, and sheep. Wild animals are not livestock.
- Raising exotic game for commercial use. Exotic game means a cloven-hoofed ruminant mammal that is not native to Texas and is not “livestock.” Raising such game may qualify, but must meet the primary use test discussed on previous page.
- Participation in a government program and normal crop rotation. Land left idle to participate in a government program is used for agriculture. Land left idle for crop rotation qualifies until it is left idle for longer than the crop rotation period typical for the crop in the area.
- The term also includes the use of land to raise or keep bees for pollination or for the production of human food or other tangible products having a commercial value, provided that the land used is not less than 5 or more than 20 acres.

This list is not exhaustive. Production of any commercially valuable livestock, fish, or poultry product probably constitutes agricultural use as well. For example, the Texas Attorney General has ruled that agriculture includes the term “mariculture” and that land used to produce fish and other forms of aquatic life can qualify for an agricultural appraisal. Op. Tex. Att’y Gen. No. JM-87 (1983).

Land used to harvest wood for building uses may qualify in specific circumstances. To qualify, the land must be adjacent to qualified 1-d-1 land owned by the same person. Also, the wood must be used only to build or repair fences or agricultural improvements on the adjacent property.

Some agriculture-related activities that do not qualify land for agricultural appraisal are:

Harvesting native plants or wildlife. Harvesting shrubs that grow wild on the land—mountain laurel, yaupon, etc.—or harvesting or hunting native wild animals such as deer or turkey will not qualify land.

Processing plants or animals.. Activities that take place after the crop or animal has been raised and harvested do not qualify land for special appraisal. Activities such as pasteurizing and bottling milk; fermenting grapes and bottling wine; or slaughtering, dressing, and packing meat will not qualify land for agricultural appraisal.

By definition, any activities a non-producer carries out on agricultural products constitute processing. A non-producer cannot qualify property for agricultural valuation. For example, the operator of a grain silo who purchases grain for storage and re-sale cannot receive agricultural valuation for the land the silo occupies.

Under certain circumstances, however, primary producers may also process agricultural products. In these cases, the land devoted to processing activities does not qualify for agricultural valuation. In such cases, the line between production and processing activities can become extremely fine. Chief appraisers must be certain to gather all facts necessary for making an accurate distinction. No hard-and-fast rules clearly distinguish between production and processing. In general, however, an activity must meet at least one of the following standards before it counts as processing:

- Processing begins with those steps typically carried out at the first level of trade beyond production. Storage or packaging for wholesale trade would constitute “processing,” as would slaughtering livestock. The producer’s interim storage prior to sale to a wholesaler or other middleman would not. Goods in storage would be exempt as farm products in the hands of the producer, and land devoted to storing them would be eligible for agricultural valuation.

- Processing begins when primary agricultural products are broken into smaller parts or combined with other products. Grain, for example, is processed when it is milled. Milk is processed when it is separated into butter, milk, and other dairy products. Grapes are processed when they are washed, sorted, or crushed. Vegetables and fruits are processed when they are washed and packaged for sale at the wholesale or retail level.
- Processing begins when activities occur that enhance the value of primary agricultural products. Milling grain, pasteurizing milk, and ginning cotton constitute processing. Packaging products for transport to market would not constitute processing, but packaging them for sale would.

Primary Use

According to the statute, land must be devoted principally to an agricultural use. If the land is used for more than one purpose, the most important or primary use must be agriculture. For example, pleasure gardening isn't the principal use of residential land.

Other uses do not prevent land from qualifying if the primary use is agriculture. For example, land used primarily to graze cattle could also be leased for hunting. Leasing land for deer hunting is compatible with a primary use of land for grazing cattle. The appraiser must determine which use is primary. If one of these other uses replaces agriculture as the primary use of land, then the land is no longer principally devoted to agricultural use and cannot qualify for agricultural appraisal.

Exotic Game

The primary use test is particularly important for exotic game since only production for food or other commercially valuable products qualifies. Exotic game is defined to include axis deer, nilga antelope, red sheep, and other "cloven-hoofed ruminants" not native to Texas. The owner must raise the game to produce human food or tangible products that have commercial value, such as leather or hides.

Many game ranches also offer recreational hunting as a way of earning income and managing a herd of breeding stock. Because hunting is recreation, an exotic game ranch devoted solely to hunting could never qualify for agricultural appraisal.

A ranch that produces exotic game products and conducts recreational hunts may or may not qualify for special appraisal. Qualification in such a case depends on which use is primary. A chief appraiser should consider all relevant information to determine the primary use. Relevant questions include:

- Are there physical improvements such as high fences to control the herd?
- Are there stocking levels to justify the investment and ensure a reasonable future income?
- Is there a breeding and herd management procedure that emphasizes commercially valuable products (meat or leather) over recreational products (trophy heads)?
- Is there an active business plan showing herd size, harvesting schedules, and harvesting reports?
- Do state or federally approved inspectors supervise slaughter and dressing?

Fish

Chief appraisers should analyze the raising of fish or fish products using the same standards they apply to exotic game. Commercial fish production differs from keeping game fish for purely sporting or recreational purposes. This difference is not necessarily related to the scale of the operation, nor is it related to any intent to produce income or make a profit. Raising fish is a qualified agricultural land use when all the elements of a bulk harvest are present. Taking fish by individual line is clearly a recreational activity.

Horses

Land used primarily to raise or keep horses qualifies for agricultural appraisal. Land used primarily to train, show, or race horses, to ride horses for recreation, or to keep or use horses in some other manner that is not strictly incidental to breeding or raising horses does not qualify. Similarly, land used as a stable, where horses are kept, fed, and cared for, is not being used primarily for an agricultural purpose, unless the stable is incidental to breeding and raising horses.

Bees

The use of land to raise or keep bees for pollination or for the production of human food or other tangible products having a commercial value, provided that the land used is not less than 5 or more than 20 acres.

Current Devotion to Agricultural Use

The land must be “currently devoted” to the agricultural use. The land must qualify on January 1. In the event that agricultural use is not evident on January 1, the chief appraiser should grant productivity valuation if the owner can show evidence that he intends to put the land into agricultural use and that agriculture will be the primary use for the bulk of the calendar year covered by the application.

Degree of Intensity Test

Land must be devoted to an agricultural use to the degree of intensity that is typical in an area. The degree of intensity test measures whether the land is being farmed or ranched to the extent typical for agricultural operations. The previous section described whether a particular use was primarily “agricultural.” To receive a productivity appraisal, however, the land must also be used for an agricultural purpose to the degree of intensity typical in the area. This test is intended to exclude land on which token agricultural use occurs in an effort to obtain tax relief.

The law does not state what degree of intensity qualifies a particular type of land. The chief appraiser must set the standards according to local agricultural practices. Because of the variety of soil types, climatic conditions, and crops in a state as large as Texas, no single statutory definition could cover all possible uses.

Setting Degree of Intensity Standards

The degree of intensity test measures what the owner is putting into his agricultural enterprise—in time, labor, equipment, management, and capital—and compares it with typical levels of these “inputs” for the same type of enterprise in the area generally.

To set degree of intensity standards, the chief appraiser analyzes each type of commodity production in his area. This analysis should break down the typical steps in producing the commodity and attempt to specify how much time, labor, equipment, and so on is typical for each level.

For example, farming dry land cotton requires tilling soil, planting, applying herbicides, and harvesting. Tilling soil requires a certain amount of specific labor and equipment, as do each of the other steps. The chief appraiser should try to determine the typical minimum levels involved for each step.

Similarly, raising beef cattle requires fences, proper management of land for long-run forage, enough animal units to match the land’s carrying capacity, and a herd management procedure to get the animals to market.

What kind of fencing is typical? How frequently is it maintained? How many animal units are typically carried? Degree of intensity specifications address these levels of input in detail for each step of the enterprise.

Degree of intensity standards will vary from one type of agricultural operation to another. In most cases, property owners must prove that they are following all the common production steps for their type of operation and putting in typical amounts of labor, management, and investment. However, an operation is not disqualified simply because it differs from the typical operation. Appraisers should not, for example, disqualify a labor intensive farm because most comparable operations are capital intensive. The total effort finally determines whether a given agricultural operation qualifies, not the level of each separate “input.”

Defining an Area

The chief appraiser’s decision on what constitutes an “area” will define “typical” agricultural intensity. The size of the area can vary with the commodity. For a common crop, the chief appraiser may be able to look to farming practices within the county. Rarer crops may require the chief appraiser to consider a multi-county region to decide the typical agricultural inputs. Finally, where the landowner applies different practices than are typical, the chief appraiser should be careful not to discourage experimentation or innovation. The agricultural appraisal laws should not be interpreted to discourage innovations in agricultural production.

Time Period Test

The land must have been used principally for an agricultural use or timber production for any five of the preceding seven years

The five out of seven years’ use requirement is self-explanatory. Use principally for agriculture in any five of these seven years qualifies land for agricultural appraisal. A property owner can also point to a history of timber production in meeting the five-year test. Land used primarily for either timber or agricultural production during any five of the previous seven years may qualify.

As long as agriculture was the principal use in the preceding years, the land qualifies even if that use did not meet the degree of intensity requirement in all or some of those years. *Reiss v. Williamson County Appraisal District*, 735 S.W.2d 633 (Tex.App—Austin,1987 writ denied).

Ineligibility

Some land is automatically ineligible for qualification under 1-d-1. Even if land meets all the preceding conditions, two situations may block approval of an application. These situations are discussed in detail below.

Land Located Within the Boundaries of a City or Town

Land within the boundaries of a city often will not qualify. Land located within an incorporated city or town must meet the criteria applicable to all land and must meet one of the following:

- The city must not provide the land with general services comparable to those provided in other parts of the municipality having similar features and population; or
- The land must have been devoted principally to agricultural use continuously for the preceding five years.

Land Owned by a Non-Resident Alien or Foreign Government

Some kinds of foreign ownership disqualify land. If the property owner is a non-resident alien (a non-U.S. citizen who does not reside in the U.S.), the land can’t qualify.

Similarly, a corporation can't qualify its land if non-resident aliens, foreign governments, or both control the corporation. These owners are required by federal law to report ownership or transfers of agricultural land. Sec. 23.56(2) and (3), Property Tax Code, bars these owners from qualifying.

The registration law also applies to resident aliens who leave the country and to land that is put to agricultural use after the alien acquires it.

Registration is required by federal law—the Agricultural Foreign Investment Disclosure Act of 1978. The information is used to prepare reports to Congress and the President on the effect of foreign holdings upon family farms and rural communities.

Tax assessors and chief appraisers can obtain copies of Foreign Investment Disclosure reports from the Agricultural Stabilization and Conservation Service office. All acreage under the same ownership in one county is reported on one form. No additional federal filing is necessary until a later change of ownership or use occurs.

Land on Which 1-d-1 Appraisal is Waived

An owner may waive his right to 1-d-1 appraisal. A 1-d-1 waiver is effective for 25 years and applies to the land even if ownership changes. Owners may file a waiver even if the land does not qualify for 1-d-1 appraisal. Waivers may be filed with some or all of the units that tax the property.

A waiver filed before May 1 becomes effective when it is filed. For good cause, the chief appraiser may extend the May 1 deadline for 60 days. Waivers filed after the deadline become effective the year following the filing year.

To revoke a waiver, the owner must file an application for revocation with the governing body of each taxing unit where the waiver is effective. The unit's governing body must vote to approve the revocation and make a finding that the revocation will not affect any of the unit's debt obligations.

The Water Commission is authorized to make rules ensuring that waivers submitted to conservation and reclamation districts are properly and timely executed and are irrevocable. The State Highways and Public Transportation Commission has authority to make the same rules for waivers submitted to road utility districts within the commission's jurisdiction. Commissioners courts have this authority for waivers submitted to road districts created by the commissioners court.

Ecological Laboratories

Land used as an ecological laboratory may qualify for agricultural appraisal. Land used principally as an ecological laboratory by colleges or universities may qualify for agricultural appraisal. The property owner must follow the same application procedures required to qualify other 1-d-1 land. The land must be principally used as an ecological laboratory. In determining use, appraisers should apply the same principles they use to identify the primary use of agricultural land.

Application

A property owner must file a valid application form. To be valid, the application for agricultural valuation must be on a form provided by the appraisal district and adopted by the State Property Tax Board.

The appraisal district may copy the SPTB form and offer it for use by local property owners. SPTB rules allow appraisal districts to use a form that varies somewhat in format and Wording from the SPTB form, but the

district's form must contain the same elements and ask for the same information as the SPTB form. The rules do not permit appraisal districts to add additional questions to the initial application. If, however, the initial application does not contain all the information the district needs in order to rule on a particular application, the chief appraiser can require the applicant to supply additional information. This procedure is described later in this section.

Where the district offers its own form, the applicant may choose between the SPTB application form and the district's form. The applicant must completely provide all information that is requested on the SPTB form.

Landowners must file applications with the chief appraiser in the appraisal district where the land is located. Taxpayers whose land is appraised by more than one appraisal district must file an application in each district.

A property owner may file a single application form covering all tracts within an appraisal district. He does not have to file a separate form for each tract so long as he provides sufficient information to show that all tracts qualify under the law.

The chief appraiser should encourage the owner to file a single form if the owner is farming or ranching several tracts as a unit. The chief appraiser must view the entire agricultural operation as a unit—not with respect to the activities on each individual parcel. The single application form notifies the appraisal district of the unity of operation.

Filing Deadline

The deadline for applications is “before May 1,” meaning the application form must be postmarked or filed no later than midnight April 30. For good cause and only on the property owner's request, the chief appraiser may extend the filing deadline in individual cases for not more than 60 days. An extension should be granted in writing and must be requested before the May 1 deadline.

The Property Tax Code does not define “good cause.” However, it is commonly something the applicant can't control. Being sick or injured and not able to transact normal business for a period that effectively prevents filing on time is usually good cause. Being out of town on business or vacation or simply forgetting about the filing deadline is never enough.

Late Applications

Even if he misses the deadline, the property owner can file a late application until the appraisal review board approves records for that year (usually about July 20). However, there is a penalty for late application. An application filed after April 30 is subject to a penalty equal to 10 percent of the difference between the tax if imposed at market value and the tax imposed at the agricultural productivity value. If the chief appraiser extended the deadline for that property owner, this penalty does not apply.

The chief appraiser must note the penalty in the appraisal records. He must also send the property owner written notice of the penalty explaining the reasons. The tax assessor of the taxing unit adds the penalty amount to the tax bill and collects the penalty along with the annual tax payment.

A lien attaches to the property until the penalty is paid. If the penalty remains unpaid on February 1 of the following year (or a later delinquency date if tax bills are mailed late), penalty and interest on the penalty amount accrue as if it were a delinquent tax.

Failure to File the Application Form

If a person does not file a valid application before the appraisal review board approves the appraisal roll, the land is ineligible for an agricultural appraisal in that tax year.

One-Time Application

Once the application is filed and approved under 1-d-1 requirements, the land continues to receive agricultural appraisal every year without a new application unless the ownership changes, the land's eligibility changes, or the chief appraiser requires a new application. If the chief appraiser requires a new application, the property owner must meet the deadlines that apply to a new applicant.

Notification of Changes

If the land's ownership, eligibility, or use-type changes, the property owner must notify the appraisal office in writing before the next May 1. If the owner fails to do so, one or more penalties will apply.

If the land remains under the same ownership and the owner fails to inform the appraisal district that he has converted it from one qualifying agricultural use to a second qualifying use, the property owner must pay a penalty equal to 10 percent of the difference between the taxes imposed under the prior use-type and the taxes that would have been imposed under the new use-type. This penalty applies for each year the property received the incorrect agricultural valuation, but for no more than 10 years.

If the property erroneously receives agricultural appraisal because a new owner failed to file his own application or because an owner's use of the land no longer qualifies, the chief appraiser must calculate the difference between the land's market value and its agricultural value. The owner must pay taxes and penalties on the difference between these values for the time that the land erroneously received agricultural appraisal. He must also pay a 10 percent penalty on these taxes. This additional tax and penalty may not cover a time period exceeding 10 years. In the year he discovers the change, the chief appraiser should add this value to the appraisal roll as property omitted in a prior year.

For example, if a farmer reduces the scale of his operations and no longer meets the degree of intensity requirements, his land will not be eligible for agricultural appraisal. If the landowner fails to notify the appraisal district and therefore receives agricultural appraisal, the land is back-assessed. For each year in question (not to exceed ten years), the owner must pay the difference between the taxes based on agricultural valuation and the taxes based on market value. He must also pay the 10 percent penalty on that difference. Since the land has not been taken completely out of agricultural use, it is not subject to rollback taxes.

When a penalty is imposed, the chief appraiser must notify the property owner. This notice must include a brief explanation of the procedures for protesting the penalty. The chief appraiser notes the penalty in the appraisal records, and the tax assessor adds the penalty to the property's annual tax bill.

Chief Appraiser's Action

The chief appraiser must review each application and decide whether to:

- Approve it and grant agricultural appraisal;
- Disapprove it and ask for more information; or
- Deny the application.

The chief appraiser must determine the validity of all timely filed applications before they turn all appraisal records over to the district's appraisal review board. The deadline is May 15 or as soon afterward as is practicable.

The chief appraiser usually gives the appraisal records to the appraisal review board (ARB) by May 15. The ARB spends about two months reviewing them, including a review to make sure that all applications for agricultural appraisal have been correctly granted. Property owners who were denied agricultural appraisal may file a protest with this board. Taxing units that believe special appraisal was erroneously granted to any property owner may seek to remove that grant by filing a challenge with the review board.

The chief appraiser must rule on all late-filed applications before the appraisal review board approves the records for the year. If he denies the application, he must notify the applicant, in writing, within five days. This notice must explain the reasons for the denial and the procedures for protesting it. The applicant has 10 days from the date the notice is mailed to file a protest with the ARB.

Additional Information

If the initial application form does not contain all the information needed to determine whether property qualifies, the chief appraiser may request additional information. The chief appraiser may request only additional information that is necessary to determine whether the land qualifies for 1-d-1 appraisal.

Information contained in income statements, income tax returns, land lease rates, and lease agreements is not necessary to determine whether the land qualifies. If the chief appraiser asks an owner for this type of information, the request should clearly state that the owner is not required to give the information to qualify for 1-d-1 appraisal.

The applicant must provide additional information within 30 days after the date of the request or his application will be denied.

If there is good cause, the chief appraiser may extend the deadline to allow additional information. An extension cannot exceed 15 days.

When an Application is Denied

If a chief appraiser denies an application, they must deliver a notice of the denial to the applicant within five days of the denial. The notice must contain a brief explanation of the procedures for protesting to the appraisal review board.

A Summary of the 1-d-1 Application Process

The property owner must file a completed application to qualify his land for agricultural appraisal.

- An application must be filed in every appraisal district where the owner's property is located.
- Where the applicant owns several parcels of property within one appraisal district, he may file a single application form covering all the parcels. The deadline for filing an application form is April 30.
- The chief appraiser may extend the deadline 60 days. The applicant must request an extension and must show good cause for extending his deadline.
- Good cause is generally a reason not within the applicant's control that prevents timely filing.
- Late applications may be filed any time before the appraisal review board approves records for that year. Late applications are subject to a penalty.

- Failure to file an application before the records are approved for the year makes the land ineligible for agricultural appraisal in that tax year.
- After the land is approved for agricultural appraisal, no other applications are necessary unless the chief appraiser requests one or changes occur in the status of the property.
- Change of use, change in the class of use, and change of ownership require a new application.
- If the land is taken entirely out of agricultural use, the land is ineligible for agricultural appraisal.
- If the property erroneously receives agricultural appraisal, it is subject to “back assessment” and a penalty.
- Failure to notify the appraisal district of a change in agricultural use subjects the property to a penalty, but not a “back-assessment.”

When the chief appraiser receives an application they must review it and take one of the following three actions: they may approve it; they may ask for additional information; or they may deny the application.

- The chief appraiser must approve or deny all timely-filed applications before May 15.
- The chief appraiser must notify the applicant, in writing, of his denial of an application and explain his reasons for denial.

Agricultural Appraisal Process

Rural land’s market value is typically the cash or cash equivalent price at which land would sell from a willing seller to a willing buyer in an arm’s-length transaction. Three different factors influence land’s value:

Production. Buyers and sellers in the production market are interested in the land’s ability to produce agricultural income.

Investment. Buyers and sellers in the investment market are primarily interested in land’s potential appreciation in value. A buyer purchases the land in order to resell or develop it.

Consumption. Those in the consumption market are primarily interested in the satisfaction of owning land. A buyer purchases the land for a weekend home, for a hobby farm, or simply for the pride of ownership.

The price land could command in any or all of these markets influences its market value. The agricultural use value of land arises only from its agricultural production.

In estimating productivity value, the appraiser considers only those factors associated with the land’s capacity to produce marketable agricultural products. The appraiser ignores the possibility that the land may command a higher price on the investment or consumption market. Neither of these market influences can be considered.

A market value appraisal of rural land might consider all three approaches to value cost, market, and income. A productivity appraisal, however, uses only a modified income approach and converts an estimate of the property’s income into an estimate of the property’s value. The appraiser first estimates the property’s annual income, then divides the income by a capitalization rate. The result is an estimate of the property’s value.

Full income-approach appraisal can be considerably more complicated than this description, but in productivity appraisal the process is relatively simple because the law sets the capitalization rate and the procedure for projecting income.

By law, the capitalization rate is the greater of 10 percent or the interest rate specified by the Federal Land Bank of Houston plus 2 1/2 percentage points. The capitalization rate is published in STATEMENT (the SPTB's monthly news and information bulletin) and provided to the appraisal districts as part of the agricultural information the SPTB distributes each year.

The law requires the appraiser to base the annual income estimate on the five-year period preceding the year before the year of the appraisal. For example, an appraisal in 1988 was based on income from 1986 (two years before the appraisal), 1985, 1984, 1983, and 1982.

The appraiser determines the net income the land would have generated under an average owner of ordinary prudence during each year of the five-year period. The appraiser then averages the annual net income for each of these years. The resulting average, or "net to land," is the amount capitalized in the appraisal.

From a practical standpoint, tax appraisers cannot appraise each individual tract of land. Instead, the appraisal office must develop a system of appraisal that allows the office to value a large number of tracts. To put an effective productivity appraisal system into action, the appraiser must complete five steps:

1. Develop a land classification system. Such a system groups land into principal types of agricultural uses.

In most instances, such a system will recognize at least seven broad agricultural use classes:

1. Irrigated cropland
2. Dryland cropland
3. Orchard
4. Improved pastureland
5. Native pastureland
6. Waste land
7. Other land

Not all counties will have all classes. Some counties may need to add classes. Districts might, for example, need to develop a class for unusual or intensive land uses such as truck farming, egg producing, or commercial poultry production. In many cases, the chief appraiser will need to split broad classes into sub-classes.

1. Estimate the net to land per acre for each class or sub-class. This annual income is based upon the five-year period preceding the year before the appraisal.
2. Divide the classes net to land by the year's capitalization rate to find the value per acre in each class. These values form a productivity appraisal schedule.
3. Classify all qualified agricultural land according to the land classification system.
4. Use the schedule to calculate the productivity value of individual parcels of land. Typically, the productivity value schedule will show a value per acre for each land class. For any given parcel of land, the number of acres times the per acre value determines the agricultural use value.

In addition, the law requires the chief appraiser to estimate and record the market value of property appraised under 1-d and 1-d-1. Thus, the system must also provide for a market value appraisal according to generally accepted methods. The Rural Land section of the General Appraisal Manual describes market value appraisal methods for rural land.

Sources of Information

The chief appraiser is solely responsible for establishing the land classes and determining the average annual “net to land” for each class. To do so, they will need to obtain certain information from state and federal agencies. The following sources can provide information on which to base these determinations, but the chief appraiser bears ultimate responsibility for the land classes and the net to land estimates.

Agricultural Advisory Board

One of the chief appraiser’s most important sources of information is the appraisal district’s agricultural advisory committee. The committee’s purpose is to advise the chief appraiser on the appraisal and use of agricultural land. The chief appraiser is required to appoint, with the advice and consent of the board of directors, an agricultural advisory committee composed of at least three members. Appraisal district employees, appraisal review board members, and members of the board of directors of the appraisal district are ineligible to serve on the committee.

The code requires the advisory committee to meet at least three times per year. Committee members are not entitled to compensation.

One of the three committee members must be a representative of the agricultural stabilization and conservation service in the county in which the appraisal district is located. The other two members must have been residents of the appraisal district for at least five years and must own property in the appraisal district that is qualified for 1-d, 1-d-1, or 1-d-1 timber appraisal.

Board members serve staggered terms of two years. In making the first round of appointments, the chief appraiser should appoint half the members for one year and half the members for two years. If the committee has an odd number of members, one fewer than a majority of the initial membership should be appointed for one year terms.

The Texas Agricultural Extension Service

Local county extension agents have information on the typical crops in each county, typical yields, production practices, general price, and lease and production cost information.

The Extension Service develops regional budgets for crop and livestock production. These budgets may be helpful in developing the average net to land, but they are general in nature. They may apply to several counties, are projected rather than historical, and are not designed for calculating net to land values. This information is simply another source of data, not the sole basis for net income calculations.

Agricultural Stabilization and Conservation Service (ASCS)

Local ASOS committee members and ASOS staff members have information on crops and crop yields typical for the area. Information on commodity prices, production practices, and government payments is also available from this source.

Soil Conservation Service (SCS)

The SOS has comprehensive information related to the productive capacity of soils. This information is helpful in establishing land classes and sub-classes. In most counties, the SCS can provide detailed soil surveys that will also assist in classifying individual parcels of land. SOS personnel are familiar with typical crops, yields, carrying capacities for livestock, production practices, and typical lease arrangements.

Texas Agricultural Statistical Service

The Texas Agricultural Statistical Service sometimes has publications containing specific information for each county on the number of acres planted and harvested for each crop and on average county yields.

The service computes the average yield per acre, per crop. Its numbers do not break out yields received from richer or poorer land, nor do they reflect other variations that influence yields, such as the level of water application on irrigated lands. Since appraisers must estimate yields based on a prudent, typical operation, they will generally need to supplement the service's estimates with further information.

Information on prices paid for various commodities on a regional or state-wide basis is also available. Again, this information should only be used if the values it shows are typical for the specific area.

Farmers Home Administration (FmHA)

The FmHA is a government agency in the U.S. Department of Agriculture. The local FmHA committees consist of three members, of whom at least two must be farmers. Information on crop yields, production practices, and leasing rates should be available from this committee.

Production Credit Association

Production Credit Associations generally serve fairly large areas but may have information for specific counties. They can provide information about crop yields, production practices, and leasing rates.

Universities and Colleges

Local college and university agriculture departments often have information not available from the above sources.

In addition, the State Property Tax Board distributes an information packet every year containing information about agricultural costs, prices, and yields.

Local agricultural suppliers and producers have information useful to the appraiser. Local lenders who make agricultural loans may also be willing to furnish information useful in determining net to land. The appraiser should also meet with the county U.S.D.A. Rural Development Committee, which includes representatives of the U.S.D.A. agencies operating in the county, to obtain other needed information.

Establishing Land Classes

Land classes should be based on the district's most common land uses. The Property Tax Code lists some typical classes of land, such as irrigated cropland, dry cropland, improved pasture, native pasture, orchard, and waste. Unusual or intensive land uses such as truck farming, egg producing, or mass-producing poultry may also require a separate land class. (Although the Code refers to land categories," this manual follows common usage and designates them land "classes.")

Appraisers must often divide broad classes into sub-classes based on factors that influence productive capacity. A particular land class may include land with different soil types, soil capacity, levels of irrigation, topography, or geographical factors. These differences may affect productivity enough to define sub-classes.

For record-keeping and ease of identification, the simplest way to name each sub-class is to attach a number or letter to the class name. For example, if the class is Irrigated Cropland, and there are four sub-classes based on differences in soil types, each different soil type could be designated as Irrigated Cropland I, Irrigated Cropland II, etc.

From a practical standpoint, appraisal districts cannot develop a classification system that reflects all minor differences in productivity. Appraisers should therefore use common sense in subdividing classes. A few acres of land devoted to a specific use will not define a class or sub-class. These few acres should be placed in a more typical use-class with the same or similar productivity.

Where available, soil surveys can be extremely helpful in establishing classes and subclasses. Surveys can reveal the major soil types. Grouping soil types to reflect a reasonable range of productive capacities will limit the number of sub-classes established.

The slope of the land often influences productivity as much as the soil type. The same soil type may have differing productive capacities under different land slope conditions. This is especially true on irrigated cropland. Appraisers must analyze factors and combine them in a classification system. For example, the system might classify a given soil type as Irrigated Cropland I if it has a Class A Slope, but Irrigated Cropland II if it has a Class B Slope.

The appraiser may base sub-classes for pastureland on typical stocking rates or carrying capacity. Some native pastureland, for example, may have a soil type that produces more feed and can support more livestock than the same native pastureland with a different soil type. As is the case with cropland, districts must establish a reasonable grouping of major differences in carrying capacities or stocking rates. The classification system cannot account for minor differences.

Currently Brazoria County classifies its land as Native Pasture, Improved Pasture, Marsh Pasture, Irrigated Crop, Dry Crop, Aquaculture, Wildlife, and Specialty Agriculture. The land around Brazoria County is relatively flat and consists of mainly Deep Non-Saline Soils which are of the type Lake Charles and Pledger-Brazoria. Due to all information available currently the classifications above are sufficient to classify the agricultural land types and to successfully divide each category of open-space land that influence the productivity capability of the category according to the Tax Code Section 23.51(3). The need for any other classes or sub-classes will continue to be researched until such a time that another class or sub-class is determined to be needed.

Determining Net to Land Values

Net to land, remember, is the average annual net income that a class of land would be likely to have generated over the five-year base period. Until 1987, appraisers based net to land primarily on owner-operator budgets. The law now requires appraisers to determine net to land using a cash or share lease method.

Under a lease method, net to land is the rent that would be due to the property owner under a cash lease, share lease, or other typical lease arrangement, less expenses typically paid by the owner. In a cash lease, the rent is a fixed amount. In a share lease, the rent is a share of the gross receipts for the year, less a share of certain expenses.

Cash Lease Method

A cash lease (cash rent) is an agreement between landowner and tenant to lease for a fixed cash payment. This payment is usually in terms of dollars per acre for a period of one year. When the land owner leases on a cash basis, he ordinarily has no labor or operating capital costs. If the landowner has no expenses relating to the agricultural use of the land, the cash lease payment is virtually equivalent to a return to the land. If the prudent owner typically does pay some expenses, appraisers should deduct them from the lease payment to determine net to land.

Terms of Lease

The cash lease used for a specific land class should represent the payment to a prudent property owner. In some cases, the most common or typical lease agreement within an area may not be prudent for either the property owner or tenant. This situation may occur when the most common lease agreements are between family members.

The property owner's expenses typically include certain fixed costs such as property taxes, depreciation on irrigation equipment if the property owner also owns the equipment, depreciation of fences and typical structural improvements, and water depletion. Appraisers should calculate property taxes on the basis of agricultural use appraisal rather than market appraisal.

Additional Costs

The property owner also incurs a cost of management, covering such activities as finding a tenant, keeping records, and making sure that the tenant meets the contract agreement. In many cases the cost of management is insignificant when calculated on a per acre basis. Although the "typical" cash lease landlord has few or no expenses, some leases may require him to pay additional expenses. Appraisers should adjust these leases to typical terms before using them to estimate typical net lease payments.

In summary, the net to land value is the typical cash lease rate minus the typical expenses incurred by the landowner.

Steps in a Typical Cash Lease Approach

1. Gather cash lease rates from knowledgeable persons in the area. This data is not always readily available. Do not use leases of an unusual nature, long-term leases with options to buy, or leases between family members. Leases of this type are not considered normal arm's length transactions and may not indicate the actual income producing capacity of the soil.
2. Gather as many leases as possible for each year of the five-year period. In most cases, you will need at least four to six leases per year to develop a reliable net to land value for a specific land class. Typical leases will usually fall within a narrow dollar range. You must choose one value to serve as a typical lease rate for the year.
 - (a) For example, assume you discover four grazing leases and four hunting leases for native pastureland. The payments are \$4.50 per acre, \$4.75 per acre, \$4.75 per acre, and \$5.00 per acre for each year, respectively. The four hunting lease rates are \$3.50 per acre, \$3.50 per acre, \$3.50 per acre, and \$3.25 per acre for each year, respectively.
 - (b) You should not assume that the typical lease rate is an average of the lease rates collected. The typical lease rate is the most common or most likely lease rate. In the previous example, \$8.25 per acre would appear to be typical. This lease rate is based on a \$4.75 per acre grazing lease and a \$3.50 per acre hunting lease.
 - (c) Use the same procedure to establish a typical lease rate for each of the remaining four years of the five-year qualifying period.
 - (d) If a lease provides for an unusual owner expense such as maintaining fences adjust the payment by subtracting that expense. Suppose, for example, that fence maintenance in one lease costs the owner 40 cents per acre, per year. The nominal lease payment is \$4.75 per acre. After adjustment, the payment is \$4.35 per acre.
 - (e) Lease rates for grazing land are often a function of livestock carrying capacity. Appraisers measure livestock carrying capacity by the number of acres required to carry or support one animal unit. An animal unit is a standard for comparing different types of livestock that equals 1,000 pounds of live weight. A cow and its calf constitute one animal unit, as do six sheep or seven goats. When carrying capacity varies in the jurisdiction because of soils, topography, or other factors, sub-classes under the native pasture class should reflect the differences.

3. Determine typical landowner expenses. In the example above, assume that the landowner has a “cost” of 50 cents per acre per year for depreciation of fences, and 47 to 52 cents per acre per year for property taxes (based on agricultural appraisal).
 - (a) Calculate the depreciation cost offenses by dividing the cost of the fences on a typical operation by their life expectancy, then dividing by the typical number of acres. Half of the cost of property line fences is attributed to the typical parcel; the other half of the cost is attributed to the land across the fences.
 - (b) Again, the appraiser should determine typical expenses according to actual practice in the area. Isolated unusual expenses in a single lease (like fence maintenance) are handled by adjusting the individual lease. However, if fence maintenance appears to be a typical expense, do not adjust the individual lease rates. Instead, include the fence expense as typical and subtract it from the typical lease rate.
4. For each of the five base years, subtract the expenses from the typical lease rate. The remainder is the net to land value. Average the five net to land values for each of the five years to obtain the overall net to land value for the land class for the five-year period. Divide this net to land value by the capitalization rate to obtain the agricultural use value for the class.

Sound net to land values for one sub-class can often be adjusted to fit other sub-classes. For example, land with a carrying capacity of one animal unit per 20 acres can support twice as many animals as land with a carrying capacity of one animal unit per 40 acres. If the annual payment is \$3.00 per acre for the better land, one would reasonably expect the annual payment to be \$1.50, or half as much, for land that can support half the animals.

In many areas agricultural land is also leased for hunting and other recreational purposes. The calculation of net to land should include income from hunting leases in areas where native pasture and timberland are commercially leased for deer hunting or where a prudent manager would supplement his agricultural income with hunting lease income (e.g. where native pasture is also leased for hunting).

Like other lease income, hunting income should be net income. You should deduct typical owner’s expenses from total income. However, items like property taxes and depreciation, or any expense attributable to both leases, should only be deducted once. Do not subtract them from both hunting and agricultural income.

Share Lease Method

Appraisers must estimate net to land values from share leases as well as cash leases. Under a share lease, the landowner (usually) pays a share of production expenses and receives a prearranged share of the gross receipts rather than a fixed dollar amount. Share leases may vary from location to location and usually vary from crop to crop.

When choosing the sample of share leases to develop a typical share-lease amount for specific land classes, appraisers should pick only leases with terms under which a prudent landowner would lease the land. Leases may vary in terms. Selecting the typical lease is a matter of judgment and careful investigation, not mathematical averaging. In some cases, the most common or typical lease agreement within an area may not be a prudent lease agreement, especially when the most common lease agreements are between family members or are not at arm’s length.

For example, suppose one lease provides that an owner receives 40 percent of income, while others in the same land class provide for the owner to receive 33 percent. After investigation, the appraiser discovers that the property owner receiving the higher percentage provides his tenant with irrigation equipment that other

owners do not supply. Subtracting annual depreciation and maintenance expense on the irrigation equipment from the owner's 40 percent share brings his net income down to the same 33 percent the other owners are making.

This example shows the need to analyze lease terms. The 40 percent return only seemed higher than the 33 percent return. Returns may also seem higher or lower when a lease requires the owner to pay a greater or lesser share of expenses or to pay expenses that other owners in the area do not. The appraiser must investigate the terms of the leases he chooses to rely on and use careful judgment in making his choices.

To calculate net to land for share leases, appraisers need the following information:

- Typical crops: Determine the principal and typical crops grown in the area for the land class under consideration.
- Lease agreements: Determine the typical lease agreement between property owner and tenant. What percentage of gross income and expenses does the owner share in? What types of expenses are typical? For example, in a common share lease agreement for dry land grain sorghum, the property owner receives one-third of the gross receipts and pays one-third of the fertilizer, harvest, and hauling costs.
- Yield estimates: Determine the typical yield for the crops and land class being considered. Calculate the estimated yield per planted acre. If a portion of the area's crop is destroyed by a hailstorm or not harvested for some reason, the yield per acre should reflect the acres planted, not the acres harvested. Appraisers can use one of two methods to convert yield per harvested acre to yield per planted acre.

Method 1

Harvested Acres

Planted acres

X

Yield per harvested acre

=

Yield per planted acre

Method 2

Total yield for all acres

Planted acres

=

Yield per planted acre

- Price estimates: Determine the typical price farmers receive for the crops under consideration.

- **Government Programs:** Determine whether the crops being considered are typically enrolled in government support programs, such as the deficiency payment program. If they are, then any income the owner received from the programs should be included in the calculation of net to land. If government support programs are typical, you will need further details. In the deficiency payment program, this information includes typical base (five-year average yield), the government payment rate, and the amount of acreage the program requires to be set aside or idled. (NOTE: Do not use income from CRP payments. The CRP program is discussed later in this chapter).
- **Cost estimates:** Determine the typical variable and fixed expenses.
- **Additional income:** Determine any additional income farmers typically receive and share with the property owner. For example, this amount would include the income received from grazing cattle on wheat fields as well as any other income incidental to producing crops or raising livestock. In areas where grazing land is commonly set aside to rejuvenate the cover, adjust grazing income to reflect that fact.

After collecting and reviewing the above information, the next step is to choose a method for determining net to land. The two available methods are:

- **Five-year average lease income:** Use five-year averages of crop yields, prices, additional income, and expenses to determine typical net to land for each class.
- **Five yearly leases:** Calculate the annual net to land for each of the five years, then average them.

Because leasing practices and government farm programs change, the second method, using separate calculations for each year, is preferable.

Calculating Net Income for a Typical Share Lease

Calculating net to land for a share lease requires four steps:

1. Calculate the landowner's share of gross income.
2. Calculate the landowner's share of expenses.
3. Subtract the owner's expenses from the owner's gross income.
4. Repeat the preceding steps for the four years remaining in the base period.

The following discussion shows how to complete these steps. It uses the example of dry land grain sorghum and assumes that the owner receives one-third of gross receipts and pays one-third of the fertilizer, harvest, and hauling expenses.

The typical yield for one year in the five-year period was 2,165 pounds per acre. The typical price received on the yield was \$4.35 per hundredweight (cwt.).

The typical property owner shared the following costs with his tenant: \$15.00 per acre for fertilizer, \$10.00 per acre for harvesting, and \$.25 per cwt for hauling.

In this area, farmers typically participate in the grain sorghum deficiency payment program. During the year, the average base for government payments was 2,420 pounds per acre, with a payment rate of \$.79 per cwt. The farmer had to set aside 10 percent of his land to participate. The property owner does not share in the variable expenses associated with the set-aside land but is responsible for 100 percent of the fixed costs.

Property taxes were approximately \$1.75 per acre.

1. Calculate the landowner's share of gross income. Multiply the average price received times the typical yield per planted acre times the landowner's share times the percentage planted. The percentage planted takes into account the land set aside in government programs. In the example, 10 percent of the land is set aside and 90 percent planted. In our example, the gross income for the year in question would be calculated as follows:
 - (a) Grain Sorghum = \$ 4.35 per cwt x 21.65 cwt x .333 x .90 = \$ 28.22
 - (b) Deficiency Payment = \$.79 per cwt x 24.20 cwt x .333 x .90 = \$5.73
 - (c) Gross Income = \$ 28.22 + \$ 5.73 = \$ 33.95
2. Calculate the landowner's share of shared expenses. Multiply the cost per unit or acre times the number of units times the owner's share times the percentage planted.
 - (a) Fertilizer = \$15.00 per acre x 1 acre x .333 x .90 = \$ 4.50
 - (b) Harvest = \$10.00 per acre x 1 acre x .333 x .90 = \$ 3.00
 - (c) Hauling = \$.25 per cwt x 21.65 cwt per acre x .333 x .90 = \$ 1.62
 - (d) Share Expenses = \$4.50 + \$3.00 + \$1.62 = \$9.12
3. In addition, expenses include the property taxes (based on agricultural use appraisal). The tax was \$1.75 per acre.
4. Subtract the owner's shares of expenses and property taxes from the owner's share of gross income. The remainder is the net to land value for the year in question.
 - (a) \$ 33.95 - \$ 9.12 - \$ 1.75 = \$ 23.08
5. Repeat these three steps for each of the other four years in the five-year period. In most cases, more than one crop is typical and prudent in an area, so appraisers must calculate more than one net to land value for each year. To develop a net to land value for a land class, you must combine the net to land values for each crop.

Appraisers combine the net to land values established for each of the crops according to the percentage of crop mix. Suppose the dry land mix was 40 percent grain sorghum, 30 percent cotton, and 30 percent wheat. The net to land value for the individual crops was \$26.25 for grain sorghum, \$27.59 for cotton and \$19.05 for wheat. The net to land value for the class is determined by calculating a weighted average:

	Mix		Crop to land		Crop Net Net to land	Combined
Grain Sorghum	.40	x	\$26.25	=	\$10.50	
Cotton	.30	x	\$27.59	=	\$ 8.28	
Wheat			.30	x	\$19.05	= \$ 24.50

The five-year average of the annual net to land values can then be used to determine the productivity value for the land class.

Unavailable Leases-Alternative Methods

In some cases, neither share nor cash leases will be available for comparison within the immediate area. For example, fish farms and exotic game ranches are rare, and finding five to eight leases within the entire state may be difficult.

If leases are unavailable, the chief appraiser must use alternative methods to determine the amount a reasonable lessee in the area would pay to lease the land on either a cash or share basis. The chief appraiser may go outside the appraisal district to find the nearest comparable lease operations.

Using their best judgment, the chief appraiser must decide whether he can reasonably compare these leases with operations in the district.

Appraisers must also decide whether to supplement out-of-district leases with an owner operator budget. If no reasonably comparable leases are available, the chief appraiser may rely entirely on the owner-operator budget method to determine what a reasonable lessee would pay to lease the land in question. Owner-operator budgets may provide the only method of estimating lease amounts for intensive or unusual agricultural operations such as truck farms or poultry farms geared toward mass production.

Developing the Appraisal Schedule

After calculating the average net to land values for each class and sub-class, the appraiser develops an agricultural appraisal schedule. Dividing the class net to land by the capitalization rate gives the class's agricultural use value. Using information from the previous examples, the following chart shows a typical class schedule:

Land class	to Land	Net Rate	Cap Appraisal
Irrigated Cropland I	42.00 .14		\$300.00
Dry Cropland I	24.50 .14		\$175.00
Native Pasture I	4.90 .14		\$ 35.00

Appraising Individual Parcels

If Farmer A owns a section of qualifying land (640 acres) of which 160 acres are classified as Irrigated Cropland 1, 300 acres are classified as Dry Cropland 1, and 180 acres are classified as Native Pasture, the total agricultural value of the land would be calculated by applying the appraisal schedule, as shown on this page, to the breakdown of acres:

Land Class	of Acres	Number	Ag Use	Total Ag Use
		Value	Value	
Irrigated Cropland I	160 x	\$300 =	\$ 48,000	
Dry Cropland I	300 x	175 =	\$ 52,500	
Native Pasture	<u>180</u> x	35 =	<u>\$ 6,300</u>	
Total		640		\$106,800

In addition, the appraiser must estimate the market value of the land, based on accepted market appraisal techniques. The appraiser may appraise the total parcel or have a market value schedule that follows the same classes as the special appraisal schedule. The choice will depend on local market conditions and on the feasibility of a schedule approach. Often a market value schedule considers the size of the tract and its location, rather than its land classification or agricultural use.

Assuming a market schedule based on use classifications is appropriate, appraisers should apply the appropriate market value schedule to the number of acres in each land class. If the market value schedule reflects \$500 per acre for Irrigated Cropland I, \$300 per acre for Dry Cropland I and \$200 per acre for Native Pasture, the calculation of market value would be as follows:

Land Class	of Acres	Number	Market	Total
		Value	Market Value	

Irrigated Cropland I	160	x	\$ 500	=	\$ 80,000	
Dry Cropland I	300	x	\$ 300	=	\$ 90,000	
Native Pasture	<u>180</u>	x	200	=	<u>\$ 36,000</u>	
Total			640			\$ 206,000

A Word About Federal Farm Programs

The federal government aids the agricultural industry through direct grants, low-interest loans, commodity subsidies, and a variety of other measures. In some cases, participation in these programs affects the agricultural productivity value off arm and ranch land. This portion of the manual summarizes the federal subsidy programs that were most common during the mid-1980s and gives information about whether—and how—to adjust net to land calculations to account for federal financial aid.

The two main programs are called the Conservation Reserve Program and “deficiency payments”. The Conservation Reserve Program (CRP) provides a ten-year payment in exchange for removing land from agricultural production. Deficiency payments provide an income subsidy based on the USDA-announced target price.

The Conservation Reserve Program

The Conservation Reserve Program (CRP) began in 1985. The program removes land from agricultural production to reduce farm surpluses. Under CRP, the federal government makes a 10-year contract with the property owner. The owner takes the land out of production and plants ground cover to deter erosion and support wildlife. The owner may lease the land for hunting but cannot allow any grazing, harvesting, or other commercial use of any crop from the land covered by the contract.

In return for participation, the federal government makes an annual payment to the property owner. The amount per acre depends on a bid price determined in the original contract. However, no owner can receive more than \$50,000 per year.

Normally, a maximum of 25 percent of any county’s total agricultural land may be placed in the CRP. That ceiling can sometimes be exceeded if putting more acreage in the program will not adversely affect the local economy.

Since Section 23.51 of the Code defines agricultural use to include “leaving land idle for the purpose of participating in any governmental program, CRP land can qualify for agricultural appraisal under Sec. 1-d-1. On the other hand, CRP acreage may not receive a special appraisal under the old Section 1-d. Section 23.42 of the Property Tax Code (implementing 1-d) requires that an owner intend to use land for agriculture as an occupation or business venture for profit during the current year. The CRP program is an incentive to not use land for agriculture. There is no way to reconcile these differences; as a result, an owner may not receive 1-d status for his CRP land.

CRP land should be placed in the land class the property was in before it qualified as CRP land. The agricultural use as well as the principal use of CRP land is participation in a government program. Although the land is planted with ground cover, it is not in production. The only evidence of the land’s classification is the property’s land class before it qualified for the CRP program.

Since CRP payments aren't based on farm production, they should not be considered in calculating a net to land—no matter how typical CRP participation may be in the area. CRP land should simply receive the per acre value of other land within its land class.

Deficiency Payments

Deficiency payments are a widely used farm subsidy. About 20 percent of all Texas cropland qualified for deficiency payments in 1986. A deficiency payment is paid whenever the national average market price for a commodity produced in any one crop year falls below the USDA-announced target price for that commodity for that year.

The amount of deficiency payment per unit of proven yield is limited to the difference between the target price and the higher of the national average price or the Commodity Credit Corporation loan price. Beginning with the 1987 crop year, the total deficiency payment per farmer is limited to \$250,000. Prior to that year, the payment was potentially unlimited.

Landowners receiving deficiency payments can qualify their property under either 1-d or 1-d-1. The land itself is still being used for agricultural production the only difference is another source of income for the commodity.

Unlike a CRP payment, a deficiency payment is attributable to the land's productivity. Appraisers should include deficiency payments in the calculation of gross income when such payments are typical in an agricultural class.

Whether an individual property owner actually received a deficiency payment in any given year does not matter. If an average owner exercising ordinary prudence would have received deficiency payments during the five-year period, the payment income must be included.

Other Federal Programs

Congress is likely to enact new forms of farm subsidies in the coming years. Amendments to this manual will acknowledge significant changes in federal financial aid. Until then, a chief appraiser should review each program carefully to determine whether it affects local productivity value for agricultural lands.

Future subsidies may not reach all classes of land and certainly will not reach all property owners within a specific class. A good rule-of-thumb to use is that the income from a federal subsidy will affect a class' net to land only when the program subsidizes production.

Rollback Procedure on 1-d-1 Land The "Rollback" Tax

The law imposes a "rollback" tax on 1-d-1 land when the owner stops using it for agriculture. The same is true for 1-d land, but selling 1-d land also triggers a rollback. Under 1-d-1, the rollback tax is a penalty for taking the land out of agricultural production.

This penalty is commonly called a rollback because it recaptures the taxes the owner would have paid had his property been taxed at market value for each year covered by the rollback. This section discusses 1-d-1 rollbacks. It explains what triggers a 1-d-1 rollback and shows how to calculate the rollback tax.

The law imposes a “rollback” tax on 1-d-1 land when it is taken out of agricultural use. The rollback tax equals the difference between the taxes the owner actually paid in the five years preceding the change in use and the taxes the owner would have paid on his property’s market value.

Technically, the tax is a new, additional tax imposed bylaw on the date the cessation or change of use occurs. It has its own delinquency date, and it does not exist until the event that triggers the rollback occurs.

The property owner can trigger the rollback by ending agricultural operations or diverting the property to a non-agricultural use. Selling the property doesn’t trigger the 1-d-1 rollback. If the property owner diverts only part of a property to a non-agricultural use, the rollback tax only applies to the changed portion.

The chief appraiser determines if and when the change of use occurs and must send the owner written notice of the determination. If the owner does not protest the determination or the appraisal review board decides the use has changed, the tax assessor will calculate the amount of additional tax due, add the appropriate amount of interest, and send a rollback tax bill.

What Qualifies as Change of Use?

A change of use is a physical change. The owner must stop using the land for agricultural purposes.

If the owner continues to use the land for agriculture but does not maintain the degree of intensity typical for the area, the land may lose its eligibility for 1-d-1 appraisal without suffering a rollback. Reduced intensity that results from the owner’s free choice will cause a loss of agricultural appraisal. Reduced intensity resulting from agricultural necessity will not. If the land remains in agricultural use, however, neither kind of reduction will trigger a rollback.

Suppose, for example, that the typical ranching operation in a district has one animal unit for every 10 acres of pasture. A land owner who has been receiving agricultural appraisal gets tired of ranching and sells off his entire herd. Since he has stopped all agricultural activity, he will lose agricultural appraisal and suffer a rollback.

If, however, the rancher reduces his herd so that he has one animal unit for every 50 acres of pasture, he will lose his eligibility for agricultural appraisal without suffering a rollback. Since the land remains in agricultural use, the rollback penalties do not apply. The same result occurs when the land is sold to a non-resident alien or when agriculture ceases to be the primary use of the land.

Special situations such as freezes, droughts, or severe fires can create an agricultural necessity that extends the normal time the land remains out of agricultural production. In such cases, the land remains eligible for agricultural appraisal until the owner clearly evidences an intent to give up agriculture permanently. For example, a drought might deplete water and feed supplies, requiring ranchers to sell off their herds and leave the land idle until native pasture is restored. If, after one year, the typical rancher restocks his herd and resumes production, those ranchers who keep their land out of agricultural use more than one year will lose their eligibility for 1-d-1 appraisal and suffer a rollback. The same general principles would apply if a drought damaged the land and required farmers to suspend agricultural operations for a period exceeding the normal soil rotation period or if freezes destroyed citrus groves.

If agricultural necessity forces a property owner to postpone agricultural operations on part of a larger tract, he can retain agricultural appraisal on the entire tract, and he will not incur a rollback on any portion of the property. For example, fire might destroy 200 acres of a 2,000 acre range, forcing the owner to postpone

agricultural operations on those 200 acres until the native pasture restored itself. The owner would continue to receive agricultural appraisal on the entire tract.

Chief appraisers must exercise great care in determining when a change of use triggers a rollback. Rollback is a serious economic penalty that should not be imposed when circumstances beyond a property owner's control cause an abnormally long but temporary suspension of agriculture. Appraisers must keep in mind that change of use issues are often unclear and require a delicate balance between fair applications of the law and good decisions based on the facts of each situation.

Some changes of use do not trigger a rollback. Property condemned or sold for right of way won't be rolled back even if its use changes. Filing a waiver of special appraisal will not trigger a rollback if the use does not change. Also, a property owner can divest part of the land for use as his own residence homestead without triggering a rollback. If, however, an owner builds a residence homestead on land that formerly qualified for 1-d-1 appraisal, he avoids rollback only as long as he continues to use the home as a residence. Selling the home may trigger a rollback on the land making up the homestead. In effect, the owner must occupy the house for five years to avoid a rollback tax accruing for the years the land was not taxed at market value.

The Change of Use Determination

On determining either that agriculture has stopped or that the land has been diverted to a non-agricultural use, the chief appraiser must send the owner written notice of the determination. The notice must explain the owner's right to protest the determination.

The owner may protest the change of use decision by filing a protest with the appraisal review board within 30 days after the notice is mailed. The appraisal review board must hear a timely protest even if appraisal records have been approved for the year.

Steps in Rollback Procedures for BCAD

Rollbacks will be completed as soon as possible. The entire process should not take more than sixty days unless a protest is filed and then more time may be required. All steps for rollbacks should be completed in a timely manner.

1. Rollback Field Work is to be completed by the Ag Specialist. This includes taking pictures, completing the rollback inspection report, and keeping evidence that will be used to show a change of use.
2. After all field work is completed and the pictures are scanned into the account the Deputy Chief of Appraisal will give approval to start the rollback process.
3. The appraiser assigned to processing of rollbacks will then verify all paperwork has been completed and scanned into the account.
4. The Notice of Change of Use Determination letter will then be generated and given to the Deputy Chief of Administration for approval before mailing to the taxpayer.
5. Thirty days are given after the notice is mailed to protest the change of use. If a protest is submitted in the thirty days then the protest will be processed. If needed an ARB will be scheduled.
6. Once the thirty days are up or a protest has been completed with a finding that a rollback is needed. The appraiser will conduct the calculations needed and key the required information.
7. After keying final approval will be obtained from Deputy Chief of Administration.
8. The appraiser will then notify the appropriate taxing jurisdictions of the rollback.

Taxes for the Year that the Use Changes

If land changes to a non-qualifying use from a qualifying one after the appraisal review board has approved the appraisal records, the land is back assessed for the difference between the property's market value and its agricultural use value. The assessor sends a supplemental bill for taxes on the added value. This amount becomes delinquent on the same date as the original tax bill for the property. If those taxes have been paid, the supplemental bill becomes delinquent on February 1 of the year following the date the bill is mailed or the first day of the next following month that allows the property owner 21 days to pay the tax, whichever is later.

Gaps in the Five-Year Period

It could happen that the five-year rollback period will include years when the property didn't qualify for agricultural use appraisal. If the property had been taxed on market value in 2005 the rollback tax would have been computed for 2004, 2006, 2007, and 2008

It could also happen that the property owner switched from 1-d to 1-d-1 designation during the five year period. Calculation in these cases is discussed in Part V, dealing with 1-d rollbacks.

When are Rollback Taxes Due?

The rollback tax is due when the rollback tax bill is mailed. It becomes delinquent if not paid before the February 1 that is at least 20 days after the tax bill is mailed. For example, if the bill is mailed on January 9, it becomes delinquent on the next February 1 because there are 20 days between February 1 and January 9. However, if the bill is mailed January 30, it becomes delinquent the February of the following year. On the delinquency date the entire amount begins to draw penalty and interest at the same rate as delinquent taxes.

A tax lien attaches to the land on the date the use changes. The lien covers payment of the additional tax, interest, and any penalties.

If land is sold at about the same time the use changes, the buyer and seller may dispute liability. Under the law, the person who has title to the property on the date the use changes is personally liable for the rollback, but the lien may be foreclosed against the land regardless of who is liable for taxes. Tax certificates on land that receives agricultural appraisal must note the appraisal and state that the land may be subject to additional taxes.

Does the Rollback Tax Apply to Land Bought and Changed by an Exempt Organization or Government Entity?

Exemptions that apply to ordinary property taxes do not apply to rollback taxes. Even if the land might be exempt from ordinary taxes in the new owner's hands, the rollback tax still becomes due if that owner takes the property out of agricultural use. In most cases, the owner will be personally liable for the rollback tax, and the tax lien can be enforced against the property. Where the state or a political subdivision buys the land and changes the use, the rollback will be triggered but the lien cannot be foreclosed. The tax can't be collected unless the governmental entity chooses to pay it. However, the lien against the land continues and could be enforced against a later buyer.

Questions About Rollback Procedures

Q. Is a rollback triggered if land loses its eligibility for special appraisal or if the owner does not reapply?

A. No. Only an end to all agricultural use or an affirmative change of use triggers rollback under 1-d-1. If the land continues in agricultural use but no longer qualifies, it will be taxed at market value. However, there will be no rollback tax.

Q. Is a rollback automatically triggered if the property owner files documents to plat his land?

A. No. Evidence that the actual use of the land has changed triggers the rollback. Plat documents provide some evidence but must be accompanied by physical change, such as ceasing agricultural operations, cutting roads, or installing utilities. Even in that case, the change of use may affect only part of the platted land.

Q. Does sale of the land to an alien trigger a rollback?

A. No. An alien's residency status can affect eligibility for special appraisal, but only cessation or change of use triggers a 1-d-1 rollback. See page 11 for a discussion of resident and non-resident aliens.

Q. Do discounts for early payment apply to rollback taxes?

A. No. Discounts to encourage prompt payment of taxes apply only to regular property taxes. They do not apply to rollback taxes.

Agricultural Appraisal Under Section 1-d

The beginning of this chapter pointed out that Texas has two different agricultural appraisal Laws Article VIII, Section 1-d, of the Texas Constitution and Article VIII, Section 1-d-1, of the Texas Constitution. Much of the agricultural land in Texas could qualify for an agricultural appraisal under either law, but virtually all the land that receives a special value in Texas today is qualified under Section 1-d-1.

This chapter summarizes the application, qualification, appraisal, and rollback procedures under Section 1-d.

On January 1, the land must be devoted exclusively to or developed continuously for agricultural use for three years before the current year. Agricultural land is land that is used to produce plant or animal products under natural conditions. It does not include land used to process agricultural products after harvest. It doesn't include the production of timber or forest products.

The landowner must use and intend to use land as an agricultural occupation or business venture for profit during the current year. The land must be owned by an individual. Land does not qualify under 1-d if it is owned by a corporation, partnership, trust or other association.

Agriculture must be the owner's primary occupation and source of income. Primary here means "chief or largest." If the owner conducts several different occupations, then agriculture must take more of his time and effort than any other occupation. This doesn't necessarily mean that agriculture must take up a majority of his time; it means that agriculture should take more time than any other single occupation or business venture.

Similarly, agriculture must provide more of the person's gross income than any other single occupation or business venture. In making this comparison, the chief appraiser considers only agricultural income and income produced from other activities or business ventures in which the owner works or gives continuing supervision or attention. Proceeds from land sales, interest income, social security, rentals from inherited commercial property, and oil and gas income are specifically excluded.

To determine a person's primary occupation and source of income, average the time spent and gross income earned from each occupation for no more than five consecutive years immediately before January 1 of the current year. If the owner has not been in agriculture as an occupation for the entire year before January 1, only the owner's time and income since beginning the agricultural occupation has any bearing on the property's qualification.

Suppose, for example, that land has been in continuous agricultural use for four years. On June 1, 1989, it sells to someone new to farming. The purchaser files an application for 1-d appraisal in April of 1990. Since the land

has been in continuous agricultural use for over four years, it may qualify. The chief appraiser should examine the time between June 1, 1989, and April of 1990 to determine whether the purchaser meets the time and income requirements.

As long as agriculture is the owner's primary occupation and primary source of income, land may receive 1-d appraisal if it is used for non-agricultural purpose (such as hunting) that is secondary to and compatible with the agricultural use of land.

Application Procedures

To receive a 1-d appraisal, a property owner must file an application each year. A person who has received agricultural use appraisal in the prior year only needs to report that all previously filed information is unchanged. The use of the SPTB form is not mandatory, but the district's application must substantially comply with the SPTB form.

Owners must file applications with the chief appraiser in the appraisal district where the land is located. Farmers or ranchers whose land is appraised by more than one appraisal district must file an application in each district.

Application deadlines for 1-d appraisal are the same as those for 1-d-1. The application must be filed before May 1. In individual cases, and only if good cause is shown, the chief appraiser may extend the May 1 deadline by a single period not to exceed 60 days. An extension must be given in writing and prior to May 1.

In addition, when extension for good cause is not granted, owners may file a late application until the appraisal review board approves records for that year (usually about July 20). However, a late application is subject to a penalty equal to 10 percent of the difference between the tax if imposed at market value and the tax that would be due if imposed at the agricultural productivity value.

Land is not eligible for special appraisal unless each year an application for agricultural use designation is filed on time.

The chief appraiser is required to:

- Send a 1-d application form before February 1 of each year to every owner whose land was designated for agricultural use during the preceding year.
- Briefly explain how to qualify for agricultural designation.
- Publicize the application process and availability of forms in a manner that is reasonably designed to come to the attention of all residents in the district.

Late Applications

An application may be filed after April 30 and still permit special appraisal for that year if it is filed before the appraisal review board approves records (usually about July 20). Late applications for 1-d appraisal are processed under the same guidelines as applications for 1-d-1 appraisal.

Chief Appraiser's Action

The chief appraiser must review each application and decide whether to:

- Approve it and designate the land as agricultural use
- Disapprove the application and request additional information or
- Deny the application.

The chief appraiser must determine the validity of all timely filed applications before May 15 of each year. At that time, the chief appraiser turns all appraisal records over to the district's appraisal review board. The board spends about two months reviewing all appraisal records, including a review to make sure that all applications for agricultural appraisal have been correctly granted. Property owners that were denied agricultural use appraisal may file a protest with this board. Taxing units that believe special appraisal was erroneously granted to any property Owner may seek to remove that grant by filing a challenge with the review board.

During the agriculture application time period from January 1 to April 30th the appraiser will check agricultural compliance and any application that is recommended for denial will be kept separate from approved applications.

Whenever the chief appraiser or designee has made a decision to deny the application, the district must notify the applicant within five days of the denial. The notice must contain a brief explanation of the procedures for protesting to the appraisal review board. This notice will attempt to be sent out prior to May 15th or shortly thereafter.

Additional Information

If the chief appraiser requests additional information, the property owner must respond within 30 days after the date of the request or the application will be denied.

For good cause, the chief appraiser may extend the deadline to allow additional information. An extension cannot exceed 15 days.

Confidentiality of Applications

To qualify for agricultural appraisal under Section 1-d the owner must provide a great deal of personal information that is not required of a person applying under Section 1-d-1. Because of this, an application for 1-d designation is confidential and may not be disclosed except:

- to an appraisal office employee who appraises property
- in a judicial or administrative proceeding following a lawful subpoena
- to the person who filed the application or to his representative authorized in writing to receive the information
- to the director of the State Property Tax Board and employees he authorizes in writing to receive the information
- to an assessor or a chief appraiser who makes a written request
- in a judicial or administrative proceeding relating to property taxation to which the person who filed the application is a party
- for statistical purposes, if the released information does not identify specific property or a specific property owner and
- to the extent the information is required to be included in a public document or record that the appraisal office is required to prepare or maintain.

A person with legal access to the confidential information commits a class B misdemeanor if he knowingly allows an unauthorized person to inspect the information or discloses the confidential information to an unauthorized person.

Appraisal Procedures for 1-d Land

Section 23.41, Property Tax Code, establishes the appraisal procedure for 1-d agricultural use land. Districts must base their appraisals on the land's capacity to produce agricultural products. Taxable value is determined by "capitalizing the average net income the land would have yielded under prudent management from production of agricultural products during the five years preceding the current year." This statute must be read in conjunction with its constitutional counterpart Article VIII, Section 1-d. Portions of that section state that agricultural land must be valued upon "consideration of only those factors relative to such agricultural use".

Together, these provisions require an income approach for agricultural land, considering only the income from agricultural production. On the surface, this appears identical to the income approach required in valuing 1-d-1 land. However, Sec. 23.53 of the Property Tax Code, which applies only to the appraisal of 1-d-1 land, fixes the capitalization rate for the income appraisal. That rate, under today's conditions, far exceeds a market-based rate that would be derived from sales of agricultural land.

The State Property Tax Board suggests that a chief appraiser value 1-d land using the methods and procedures described in this manual for 1-d-1 land. A chief appraiser should classify land qualified under Section 1-d. The land would receive the same per acre value as if it had been qualified under Section 1-d-1.

Rollback Procedures for 1-d Appraisal

The law imposes a "rollback" tax on 1-d land when the owner takes it out of agricultural use or sells it. The rollback period is three years (rather than the five-year period under 1-d-1). The tax is measured by the difference between the taxes the owner actually paid in a year and the taxes the owner would have paid if his property had been taxed at market value. Unlike a rollback on 1-d-1 land, the rollback tax does not include interest from the date the difference would have become due. Instead, the owner has one full business day after triggering the rollback to pay it without accruing interest. Otherwise, he must pay one percent interest per month from the date of the rollback.

Generally, the 1-d rollback is similar to the 1-d-1 rollback discussed in Part IV in the following respects:

- The rollback tax recoups the tax the owner would have paid if his land had been taxed at market value for the years covered by the rollback.
- The rollback tax is a new, additional tax imposed on the date the event that triggers it takes place.
- A tax lien attaches to the land on the date the rollback is triggered.
- 1-d-1 rules for determining whether a cessation or change of use has occurred also apply to 1-d land.
- The owner can use part of the land for a residence homestead without triggering a rollback.
- The chief appraiser determines whether a cessation or change of use has taken place and mails the SPTB notice of the determination. The owner may protest the determination within 30 days after the notice is mailed.
- If the owner does not protest, the appraisal review board determines a change of use has occurred, or the land is sold, the assessor prepares a bill for additional taxes and delivers it to the property owner. The tax is due and becomes delinquent if not paid before the February 1 that is at least 20 days after the bill is mailed. Delinquent taxes (including interest on the rollback) accrue the same penalty and interest as ordinary property taxes.
- Owners may waive the right to 1-d appraisal in the same manner as 1-d-1 waiver. Filing a waiver of 1-d appraisal does not trigger a rollback if agriculture continues on the property.
- Tax certificates on 1-d property must state that the land is receiving special appraisal and that additional taxes may be imposed. There may be disputes between buyers and sellers over who is liable

for the tax. These disputes don't involve the tax collector. The lien can be foreclosed against the land regardless of personal liability.

There are three significant differences in 1-d rollbacks:

- The rollback period is the three calendar years preceding the year the rollback is triggered rather than the five preceding years.
- The owner has a one-day grace period after triggering a rollback before interest starts to run. However, it accrues at one percent per month or fraction of a month from that day forward.
- Sale, as well as, cessation of agricultural operations or change to a non-agricultural use triggers a rollback.

Taxes for the Year that the Use Changes

If land changes to a non-qualifying use from a qualifying one after the appraisal review board has approved the appraisal records, the land is back assessed for the difference between the property's market value and its agricultural use value. The assessor sends a supplemental bill for taxes on the added value. This amount becomes delinquent on the same date as the original tax bill for the property. If those taxes have been paid, the supplemental bill becomes delinquent on February 1 of the year following the date the bill is mailed or the first day of the next following month that allows the property owner 21 days to pay the tax, whichever is later.

Combining 1-d and 1-d-1 Rollbacks

Occasionally property owners switch from one type of designation to the other. If the property owner switches from 1-d to 1-d-1 designation or from 1-d-1 to 1-d, no rollback occurs. If, however, the property owner switches from one designation to the other and then takes the property out of agricultural use, he triggers rollbacks for both designations. Suppose the property owner received 1-d ag use designation in 1984, 1985, and 1986, and received 1-d-1 designation in 1987, 1988, and 1989. The land changes use November 1, 1989.

The rollbacks are as follows:

1-d-1: Preceding Five Years

1988: Rollback tax + seven percent interest from October 1, 1988 (or date tax bill was mailed) to November 1, 1989.

1987: Rollback tax + seven percent interest from October 1, 1987 (or date tax bill was mailed) to November 1, 1989.

1986-1984: No rollback because the land wasn't under 1-d-1 in these years. 1-d: Preceding Three Years

1d: Preceding Three Years

1988-1987: No rollback because the land wasn't under 1-d in these years.

1986: Rollback tax. Tax will also accrue interest at one percent per month unless paid on or before November 2, 1989.

1985-1984: No rollback because the 1-d rollback covers only three years.

Because the 1-d rollback covers only three years, there is no rollback on 1-d designation in the 4th and 5th preceding years. If the property owner had switched to 1-d-1 in 1986 instead of 1987, he would have paid 1-d-1 rollback taxes for 1988-1986, and no 1-d rollback taxes.

Should the property owner switch from 1-d-1 to 1-d and change the use, the same principles apply. However, if the owner sells the property, he may trigger a 1-d rollback without triggering a 1-d-1 rollback. Suppose the example above were reversed. The property received 1-d-1 designation for 1984-1986 and 1-d designation for 1987-1989. The property sells November 1, 1989, but there is no change of use. There is no 1-d-1 rollback. The 1-d rollback is calculated as follows:

1988: Rollback tax. Tax will also accrue interest at one percent per month unless paid on or before November 2, 1989.

1987: Rollback tax. Tax will also accrue interest at one percent per month unless paid on or before November 2, 1989.

1986-1984: No rollback tax. Property was under 1-d-1, and sale does not trigger 1-d-1 rollback.

BCAD Procedures for Determining the Agriculture Productivity Values

For step by step procedures please see Appendix 1 Determining the Agriculture Productivity Values.

BCAD Ag Procedures

Ag requirements are a combination of:

1. Information provided in this section of the manual that was determined to be necessary knowledge for all Agriculture Employees.
2. Requirements that are set by the State Comptrollers Agriculture Manual.
3. Information acquired through research of lease information obtained through AG questionnaires, talking with farms, information gained from the AG board, etc...
4. Information from other districts (examples would be their AG guidelines, questionnaires, etc.)

All this information is compiled to arrive at BCAD's guidelines and values with the final approval by the Chief Appraiser.

Processing of New Ag Applications

The customer service department is responsible for mailing out applications at the first of the year for 1-D and 1-D-1 applicants. As a courtesy BCAD will mail an application to new property owner on the accounts that had an agricultural value the previous year. BCAD will give guidance on filling out the application and answer any general questions that the taxpayers may have. When taking the application the employee should make sure there is a contact phone number on the application so that the taxpayer can be reached if needed. It is also important to make sure the application is signed. The application should be signed by the owner of the property and cannot be accepted if it is signed by the lessee. All applications need to be stamped "date received" and either mail or counter written on the application. All applications received over the counter need to have the historical jacket pulled and taken to the customer service employee who is currently assigned to the AG department for further processing. Applications received after April 30 and before the appraisal review board approves records will be processed as late. Each application will be stamped with the current date and Late will be written at the top of the application.

Reviewing Ag Applications

1. Verify owners name, address, etc.
2. Compare legal description, compare acres on account to number of acres applied for (some acreage may be not be AG)
3. Make sure the application has been completed with all required information.

Ag Contact Sheet

1. This is a cover sheet that is used in the field by the appraiser. The historic jacket will be reviewed by the appraiser for any history that would be beneficial to the appraiser will be included.
2. The appraiser will also be putting his/her recommendation with comments on the form after field checking.
3. Each contact sheet will be entered on the building permit screen in the computer to have a record of all applications-outstanding or worked.
4. The appraiser will completed the contact sheet entering the required information and deactivating the contact sheet.

Ag Appraisal Department

The appraiser will pick up the AG applications. They will go back into the building permit screen to put appraisers initials of the appraiser who is handling the field check. There will be about a two-week turnaround on a field check and the completed contact sheet will be filled out by the appraiser giving a definite:

1. Approval or Denial (circling reason at the bottom of page)
2. Notes to defend decision
3. Completing acreage and AG codes on land screen section.

Contact with the applicant or lessee will be attempted to let them know of the decisions and to see if there is any extra information that can be provided. The field notes are very important to help and defend the approval or denial of a property. The appraiser that field checked the property should be the employee who handles any protest by the property during protest time.

Ag Approvals

When the AG is approved the contact sheet needs to be encoded on the land screen and the contact sheet needs to be closed out, then filed away in the historical files.

Ag Denials

The letters of denial will be typed and copies made to be put in the jacket. Ag Denials are sent out by certified mail at the same time as the property value notices. The historic jackets will be kept downstairs in a filing cabinet out front. After the ARB certifies the appraisal records, all incoming applications will be processed as denials.

Yearly Ag Checks

Starting in August of each year we will have our AG appraiser start reviewing accounts by school district. The school districts will rotate on a three cycle according to size and location. The appraiser will review each Ag account and document in writing if the account still qualifies for the special appraisal or do we need an updated application to verify the property is still being used for Ag. Each account that is questionable will be mailed a letter along with an Ag application giving the owner at least 30 days to complete and return to our office. When the applications are received they will be forwarded to the Ag appraiser to be processed. The appraiser will either approve or deny the application in the same manner as any other application.

Ag Rollbacks

Starting in August of each year we will review accounts for rollback. A list will be generated comparing the previous year's accounts that had an Ag value to the current year's accounts that the Ag has been removed. These accounts will be field checked by an appraiser to determine if the use has changed to a non-Ag use or the property is no longer being used for Ag. The accounts that are noted for a rollback will be mailed a letter stating the property is subject to a rollback and giving the property owner/agent 30 days to protest the rollback. After the 30-day deadline has passed the accounts will be processed for the rollback and the tax entities will be notified with the rollback values.

Ag Reset

Starting in September of each year we will work the reset list on the accounts where the deed was executed after January 1. Data processing will run a list of accounts that have been coded to reset. Each account will be reviewed to verify that an Ag application is not on file and the Ag will be removed for the next year. All of these accounts will have a new Ag application sent to the owner as stated above.

Ag Values

The Texas Property Tax Code requires the chief appraiser to appraise agricultural land, using accepted income capitalization methods applied to an average net to land as described in the Ag manual. Each November we will mail out a Productivity Questionnaire asking property owner for information relating to their land, along with a self-addressed stamped envelope. The questionnaires will be mailed to a randomly selected number of owners in each agricultural category. When the questionnaires are mailed back to the district they are reviewed. When questions arise from the questionnaires the district will attempt to get in touch with either the owner or the lessee of the property to clarify any detailed information. Using the information from the questionnaires, talking with the Brazoria County Ag Extension agency, and the Agricultural Advisory Board the district calculates the Ag value using the guidelines set out in the agricultural appraisal manual.

Agricultural Advisory Board

The district has an agricultural advisory board as described by Sec. 6.12 of the property tax code. The board has six members appointed by the chief appraiser with the consent of the board of directors. The board will meet at least three times a year and the meeting will be upon the call of the chief appraiser. The board has no decision-making authority or responsibility; it is only an advisory board. The board is a valuable source of information in dealing with local degrees of intensity, typical productivity practices, lease and production cost, crop yields, and typical net to land estimates.

Chapter X – Ratio Studies

Introduction

The ratio study is used as a generic term in this manual for sales-based studies designed to evaluate appraisal performance. Ratio studies are used as a primary mass appraisal testing procedure and performance analysis tool. The ratio study is used to assist in providing fair and equitable assessments of all properties throughout Brazoria county. Ratio studies also provide a means for testing and evaluating our mass appraisal valuation models to ensure that the value estimates meet attainable standards of accuracy which are required by USPAP.

Sampling

A ratio study is a form of applied statistics, because the analyst draws conclusions about the appraisal of the population (the entire jurisdiction) of properties based only on those that have sold during a given time period. The sales ratios constitute the sample that will be used to draw conclusions or inferences about the population.

To determine the accuracy of appraisals with absolute certainty, it would be necessary for all properties in the population to have been sold in arm's length, open market transfers near the appraisal date. Since this is not possible, ratio studies must use samples and draw inferences or conclusions about the population from these samples.

The number of parcels in the population (the jurisdiction or stratum) is not an important determining factor of a statistically valid and reliable sample.

Users of sales ratio studies should be aware of the following cautions associated with use of sale samples:

- Sales are not “randomly selected” from the population, in the strict technical sense
- Value related characteristics of a sale sample may not represent all the value related characteristics of the population
- Adjustments to sale prices may be difficult to support or may be subjective.

Data Accuracy and Integrity

The finding of a ratio study can only be as accurate as the data used in the study. Appraisers and support staff that are involved in collecting, screening, and adjusting sales data or making appraisals will need to be familiar with real estate conveyance practices.

Uses of Ratio Studies

Key uses of ratio studies are as follows:

- Measurement and evaluation of the level and uniformity of mass appraisal models
- Internal quality assurance and identification of appraisal priorities
- Determination of whether administrative or statutory standards have been met
- Determination of time trends
- Adjustment of appraised values between reappraisals

Note: Ratio studies cannot be used to judge the level of appraisal of an individual parcel. Such studies can be

used to adjust assessed values on appealed properties to the common level.

Ratio studies should be kept as simple as possible while consistent with its purpose. Ratio Studies are not all alike and should be tailored to an intended use.

Steps in a Ratio Study

Ratio studies generally involve the seven basic steps listed below.

1. Define the purpose, scope and objectives
2. Design
3. Stratification
4. Collection and preparation of market data
5. Matching of appraisal and market data
6. Statistical analysis
7. Evaluation and use of results

Define the Purpose, Scope and Objectives

The first step in any ratio study is to determine and state clearly the reasons for the study. This crucial step of identifying the purpose of the study determines the specific goals, scope, content, depth, and required flexibility.

Design

In the design of the study the appraiser must consider the quantity of sale data and the resources available for conducting the ratio study. Although absolute accuracy cannot be ensured, all reasonable, cost effective steps should be taken to maximize reliability.

The appraiser should identify the following factors:

- The groups or classes of properties to be included in the study
- Important legal, physical, and economic characteristics of the properties selected for study
- The quantity and quality of data available
- The values being tested and sales period being used
- Available resources, such as the number and expertise of staff, computer hardware and software applications, and additional limiting conditions

Stratification

Stratification divides all the properties within the scope of the study into two or more groups or strata. Stratification facilitates a more complete and detailed picture of appraisal performance and can enhance sample representativeness.

Each type of property subject to a distinct level of assessment could constitute a stratum. Other property groups, such as neighborhoods, age, and size ranges could constitute additional strata.

When the purpose of the study is to evaluate appraisal quality, flexibility in stratification is essential. The general goal is to identify areas in which the assessment levels are too low or lack uniformity and property group for which additional reappraisal work may be required. In such cases, it is highly desirable to stratify on

the basis of more than one characteristic simultaneously.

Stratification can help identify differences in level of appraisal between property groups. In large jurisdictions, stratification by geographic areas is generally more appropriate for residential properties, while stratification of commercial properties by either geographic area or property subtypes (i.e. office, retail, and warehouse/industrial) can be more effective.

Collection and Preparation of Market Data

The reliability of a ratio study depends in part on how well the sales used in the study reflect market values. The underlying principle for review of sales data is to optimize the sample size, but at the same time to exclude sales that provide invalid indicators of market value. A ratio study sample with fewer than five sales tends to have exceptionally poor reliability and is not very useful.

Matching of Appraisal and Market Data

The physical and legal characteristics of each property used in the ratio study must be the same as when sold. This implies two essential steps. First, the appraiser must ascertain whether the property descriptions match. If a parcel is split between the appraisal date and the sale date, a sale of any of its parts should not be used in the ratio study.

Second, the appraiser must ascertain whether property rights transferred, the permitted use, and the physical characteristics of the property on the date of assessment are the same as those on the date of sale. If the physical characteristics of the property have changed since the last appraisal, adjustments may be necessary before including the property in a ratio study. Properties with significant differences in these factors should be excluded from the ratio study.

When statutory constraints are imposed on appraisal methods, the resulting assessment may be less than market value. In such cases a sales ratio study may not provide useful performance information. Constraints typically apply to land that qualifies for agricultural use value, subsidized housing, mineral land, and timberland.

Statistical Analysis

After a ratio is computed for each parcel in the study, measure of appraisal level, uniformity, and reliability for the entire jurisdiction and each group or stratum should be computed. The sample also could undergo exploratory data analysis to reveal patterns or features of the data.

Evaluation and Use of Results

A properly designed ratio study is a powerful tool for analyzing appraisal performance, evaluating CAMA system models, and suggesting strategies for improvement. A ratio study also can identify weakness in appraisal system performance. Unexpected study results may indicate a need to respecify or recalibrate an appraisal model or to reevaluate the data elements used in the valuation process. However, users of ratio studies should recognize the inherent limitations of this tool, as follows:

1. A ratio study cannot provide perfect information about appraisal performance. Lack of sufficient sales or over representation of one geographic area or type of property can distort results.
2. Ratio study validity requires that sold and unsold parcels be appraised at the same level and in the same manner. Violation of this condition seriously undermines the validity of the study.
3. Findings should be used only in ways that are consistent with the intended use(s) for which the study

was designed.

4. Ratio study data is subject to statistical sampling errors and other processing (non sampling) errors, but these limitations do not invalidate their use for informed decision making.

Frequency of Ratio Studies

The purpose of a ratio study indicates how often it should be conducted. Regardless of the reappraisal cycle, ratio studies should be conducted at least annually. This frequency enables potential problems to be recognized and corrected before they become serious.

When there is a revaluation, appraisers should conduct at least four ratio studies to establish the following:

1. A baseline of current appraisal performance
2. Preliminary values so that any major deficiency can be corrected
3. Values used in assessment notices sent to taxpayers
4. Final values after the completion of the first, informal phase of the appeals process

The final study can be used in planning for the following year. In addition, ratio studies can be conducted as needed to evaluate appraisal procedures, investigate a discrimination complaint, or answer a specific question.

Sample Representativeness

In general, a ratio study is valid to the extent that the sample is sufficiently representative of the population.

The distribution of ratios in the population cannot be ascertained directly and appraisal accuracy can vary from property to property. By definition, a ratio study sample would be representative when the distribution of ratios of properties in the sample reflects the distribution of ratios of properties in the population. Representativeness is improved when the sample proportionately reflects major property characteristics present in the population of sold and unsold properties. As long as sold and unsold parcels are appraised in the same manner and the sample is otherwise representative, data calculated in a sales ratio study can be used to infer appraisal performance for unsold parcels.

However, if parcels that sell are selectively reappraised based on their sale prices and if such parcels are in the ratio study, uniformity inferences will not be accurate (appraisal appear more uniform than they are). In this situation, measure of appraisal level also will not be supportable unless similar unsold parcels are appraised by a model that produces the same overall percentage of market value (appraisal level) as the parcels that sold. For this reason it is important to incorporate a quality control program that includes checks and audits of the data. This will ensure that sold and unsold parcels are appraised at the same level.

Operationally, representativeness is improved when the following occur:

1. Appraisal procedures used to value the sample parcels are similar to procedures used to value the corresponding population
2. Accuracy of recorded property characteristics data for sold property does not differ substantially from that of unsold property
3. Sample properties are not unduly concentrated in certain area or types of property whose appraisal levels differ from the general level of appraisal in the population
4. Sale prices provide valid indicators of market value

The first requirement generally is met unless sampled parcels are valued or updated differently from non-sampled parcels, or unless appraisals of sample parcels were done at a different time than appraisals of non-sampled parcels. For example, it is unlikely that the sample is representative of unsold parcels when the sample consists mostly of new construction, first-time sales of improved properties, condominium conversions, or newly platted lots.

The second requirement is met only if value related property characteristics are updated uniformly for all property in a class as opposed to being updated only upon sale.

The third requirement relates to the extent to which appraisal performance for the sample reflects appraisal performance for the population.

The fourth requirement generally is met when the sales to be used in the sample are property screened adjusted if necessary, and validated.

Acquisition and Validation of Sales Data

Sales data are important in ratio studies and play a crucial role in any credible and efficient mass appraisal system. In some instances, it may be necessary to make adjustments to sales prices so they are more representative of the market. When there is more than one sale of the same property during study period, only one of the transactions should be used in the ratio study.

Ratio Study Statistics and Analysis

Once data have been properly collected, reviewed, assembled, and adjusted, outlier handling and statistical analysis can begin. This process involves the following steps:

1. A ratio should be calculated for each observation in the sample by dividing the appraised (or assessed) value by the sale price
2. Graphs and exhibits can be developed that show the distribution of the ratios
3. Exploratory data analysis, including outlier labeling/identification, and test of the hypotheses of normality may be conducted
4. Ratio study statistics of both appraisal level and uniformity should be calculated
5. Reliability measure should be calculated

Data Displays

Displays or exhibits that provide a profile or picture of ratio study data are useful for illustrating general patterns and trends, particularly to non-statisticians. The particular form of the displays, as well as the data used (e.g., sales prices, sales ratios, and property characteristics) depends on the purpose of the particular display. Types of displays useful in ratio studies are arrays, frequency distributions, histograms, plots, and maps.

Graphic displays can be used to

- Indicate whether a sample is sufficiently representative of the properties in a stratum
- Indicate the degree of non-normality in the distribution of ratios
- Depict the overall level of appraisal
- Depict the degree of uniformity

- Depict the degree of value bias (regressivity or progressivity)
- Compare the level of appraisal or degree of uniformity among strata
- Detect outlier ratios
- Identify specific opportunities to improve mass appraisal performance
- Track performance measure over time

Outlier Ratios

Outlier ratios are very low or high ratios as compared with other ratios in the sample. The validity of ratio study statistics used to make inferences about population parameters could be compromised by the presence of outliers that distort the data computed from the sample. One extreme outlier can have a controlling influence over some statistical measures. However, some statistical measures, such as the median ratio, are resistant to the influence of outliers and trimming would not be required. Although the coefficient of dispersion (COD) is affected by extreme ratios, it is affected to a lesser extent than the coefficient of variation (COV) and the mean. The price related differential (PRD) and weighted mean are sensitive to sales with high prices even if the ratios on higher priced sales do not appear unusual relative to other sales.

Outlier ratios can result from any of the following:

1. An erroneous sales price
2. A non-market sale
3. Unusual market variability
4. A mismatch between the property sold and the property appraised
5. An error in the appraisal of an individual parcel
6. An error in the appraisal of a subgroup of parcels
7. Any of a variety of transcription or data handling errors

In preparing any ratio study, outliers should be:

1. Identified
2. Scrutinized to validate the information and correct errors
3. Trimmed if necessary to improve sample representativeness

Measures of Appraisal Level

Estimates of appraisal level are based on measure of central tendency. They should be calculated for each stratum and for such aggregations of strata as may be appropriate. Several common measures of appraisal level (central tendency) should be calculated in ratio studies, including the median ratio, mean ratio, and weighted mean ratio. When one of these measures is calculated on the data in a sample, the result is a point estimate, which is accurate for the sample but is only one indicator of the level of appraisal in the population. Confidence intervals around the measures of level provide indicators of the reliability of the sample statistics as predictors of the overall level of appraisal of population. Note that noncompliance with appraisal level standards cannot be determined without the use of confidence intervals or hypothesis tests.

Median

The median ratio is the middle ratio when the ratios are arranged in order of magnitude. If there is an even number of ratios, the median is the average of the two middle ratios.

The median always divides the data into two equal parts and is less affected by extreme ratios than the other measure of central tendency. Because of these properties, the median is the generally preferred measure of central tendency for evaluating overall appraisal level, determining reappraisal priorities, or evaluating the need for a reappraisal.

Arithmetic Mean

The arithmetic mean (aka mean or average) ratio is the average of the ratios. It is calculated by summing the ratios and dividing by the number of ratios. In a normal distribution the mean equals the median. In a distribution skewed to the right (typical of ratio study data), the mean is greater than the median. This mean is affected more by extreme ratios than the median.

Weighted Mean

The weighted mean ratio is the value weighted average of the ratios in which the weights are proportional to the sales prices. The weighted mean is the ratio of the average assessed value to the average sales price value. The weighted mean gives equal weight to each dollar of value in the sample, whereas the median and mean give equal weight to each parcel. The weighted mean is an important statistic in its own right and is used in computing the PRD, a measure of uniformity between high and low value properties.

The weighted mean also can be calculated by summing the appraised values, summing the sales prices, and dividing the first result by the second. The weighted mean is also called the aggregate ratio.

Contrasting Measures of Appraisal Level

Because it gives equal weight to each ratio and is unaffected by extreme ratios, the median is the preferred measure of central tendency for evaluating appraisal performance. Although the mean ratio is also a parcel-based measure, it can be affected appreciably by extreme ratios and can be relied upon only if the sample is of adequate size and contains few outliers.

Measures of Variability

Measures of dispersion or variability relate to the uniformity of the ratios and should be calculated for each stratum in the study. In general, the smaller the measure the better the uniformity, but extremely low measure can signal one of the following:

Acceptable causes:

- Extremely homogeneous properties
- Very stable markets

Unacceptable causes:

- Lack of quality control
- Calculation errors
- Poor sample representativeness
- Sales chasing

Note that as market activity changes or as the complexity of properties increases, the measure of variability

usually increases, even though appraisal procedures may be equally valid.

Coefficient of Dispersion

The most generally useful measure of variability or uniformity is the COD. The COD measures the average percentage deviation of the ratios from the median ratio and is calculated by the following steps:

1. Subtract the median from each ratio
2. Take the absolute value of the calculated differences
3. Sum the absolute differences
4. Divide by the number of ratios to obtain the average absolute deviation
5. Divide by the median
6. Multiply by 100

The COD has the desirable feature that its interpretation does not depend on the assumption that the ratios are normally distributed. In general, more than half the ratios fall within one COD of the median.

Other Measures of Variability

Other useful measures of variability or the distribution of ratio study data are as follows:

- Range
- Percentiles
- Quartiles
- Inter-quartile range
- Median absolute deviation (MAD)
- Median percent deviation
- Coefficient of concentration
- Standard deviation
- Coefficient of variation (COV)
- Weighted coefficient of dispersion
- Weighted coefficient of variation

Note that the typical percentage error is not the COD, but is expressed by the median percentage deviation statistic. Also, it is the inter-quartile range, not the COD, that brackets the middle fifty percent of the assessment ratios.

Measures of Reliability

Reliability, in a statistical sense, concerns the degree of confidence that can be placed in a calculated statistic for a sample (for example, how precisely does the sample median ratio approximate the population median appraisal ratio?). The primary measure of importance to the local appraiser is the confidence interval. A confidence interval consists of two numbers (upper and lower limits) that bracket a calculated measure of central tendency for the sample. There is a specified degree of confidence that the calculated upper and lower limits bracket the true measure of central tendency for the population.

Measure of reliability explicitly takes into account the errors inherent in a sampling process. In general, these measure are tighter (better) when samples are relatively large and the uniformity of ratios is relatively good.

Measures of reliability indicate whether there is a desired degree of confidence that a given level of appraisal has not been achieved. This does not mean that an appraiser should tolerate measure of central tendency that fail to meet goals whenever measure of reliability are wide due to small samples, poor uniformity, or both. Such cases require either additional data for proper analysis or alternative action, such as a reappraisal, if poor uniformity is the cause. Such correction might include reappraisal, trending of strata, and respecifying or recalibrating mass appraisal models.

Vertical Inequities

The measures of variability discussed above relate to “horizontal,” or random, dispersion among the ratios in a stratum, regardless of the value of individual parcels. Another form of inequity can be systematic differences in the appraisal of low and high value properties, termed “vertical” inequities. When low value properties are appraised at greater percentages of market value than high value properties, assessment regressivity is indicated. When low value properties are appraised at smaller percentages of market value than high value properties, assessment progressivity is the result. Appraisals made for tax purpose of course should be neither regressive nor progressive.

An index statistic for measuring vertical equity is the PRD, which is calculated by dividing the mean ratio by the weighted mean ratio. This statistic should be close to 1.00. Measures considerably above 1.00 tend to indicate assessment regressivity. Measures below 1.00 suggest assessment progressivity. When samples are small or the weighted mean is heavily influenced by several extreme sales prices, the PRD may not be a sufficiently reliable measure of vertical inequities. A scatter plot of ratios versus appraised values or sale prices is a useful diagnostic tool. A downward (or upward) trend to the data indicates systematic regressivity (or progressivity). Assuming representativeness, high PRDs generally indicate low appraisals on high priced properties. If not sufficiently representative, extreme sales prices can be excluded in calculation of the PRD. Similarly, when samples are very large, the PRD may be too insensitive to show small pockets in which there is significant vertical inequity.

When these tests show vertical inequities, such inequities should be addressed through reappraisal or other corrective actions. In some cases, additional stratification can help isolate the problem. Measures of level computed for value strata should not be compared as a way of determining vertical inequity because of the boundary effect that is most pronounced in the highest and lowest strata.

Uniformity Among Strata

Although the goal is to achieve an overall level or appraisal equal to 100 percent of the legal requirement, ensuring uniformity in appraisal levels among strata is also important. The level of appraisal of each stratum (class, neighborhood, age group, market areas, and the like) should be within 5 percent of the overall level of appraisal of the jurisdiction. For example, if the overall level of appraisal of the jurisdiction is 1.00, but the appraisal level for residential property is only 0.93 and the appraisal level for commercial property is 1.06, the jurisdiction is not in compliance with this requirement. This test should only be applied to strata subject to compliance testing. It can be concluded that this standard has been met if 95 percent confidence intervals about the chosen measure of central tendency for each of the strata fall within 5 percent of the overall level of appraisal calculated for the jurisdiction. Using the above example, if the upper confidence limit for the level of residential property is 0.97 and the lower confidence limit for commercial property is 1.01, the two strata are within the acceptable range.

Ratio Study Standards

The ratio study performance standards are setup to be consistent with state and/or provincial standards. In general, when these standards are not met then reappraisal or other corrective measures should be taken. To make these standards valid all steps possible should have been taken to maximize representativeness and validity in the underlying ratio study. The ratio standards for the district can be seen at the bottom of this page. These standards can also be seen on page 17 of the Standard on Ratio Studies approved by the IAAO in July 2007 or page 109 of Property Appraisal and Assessment Administration published by the IAAO 1990 edition.

Alternative Uniformity Standards

The above standards may not be applicable to properties in unique, depressed, or rapidly changing markets. In such cases the need to develop target standards based on an analysis of past performance or results in similar markets will be needed. Such an analysis can be based on ratio study results for the past five years or more.

Natural Disasters on Ratio Study Standards

Natural disasters such as earthquakes, floods, and hurricanes can have a substantial impact on the interpretation and use of ratio studies. In particular, they do the following:

- Increase the difficulty of accurately identifying the physical and economic characteristics of property on the dates of sale and appraisal
- Increase the difficulty of producing sufficiently reliable appraised values
- Decrease the availability of usable sales and other market data
- Disrupt the supply and demand equilibrium in the neighborhood, community, or region.

As a result of these potential problems, a number of unreliable sample properties may need to be excluded and sample sizes may be unavoidably reduced. Then all these factors should be considered when ratio study standards are being applied to study results from areas substantially affected by disasters. Such considerations must not result in unwarranted relaxation of applicable standards. When faced with such situations, appraisers must use informed, reasoned judgment and common sense to produce a sufficiently reliable ratio study, based upon the best information available.

Restriction on the Release of Sales Information

The HB 2188, which became effective June 18, 2007, makes confidential any information about properties that an appraisal district obtains from private sources. Because of this change in law, we are no longer able to publicly disclose (or display on the BCAD website) property sales information that is obtained from private sources. All sales books are no longer available for public information & assistance.

Sales that we used or considered in arriving at a particular value will continue to be available to property

Type of property—General	Type of property—Specific	COD Range**
Single-family residential (including residential condominiums)	Newer or more homogeneous areas	5.0 to 10.0
Single-family residential	Older or more heterogeneous areas	5.0 to 15.0
Other residential	Rural, seasonal, recreational, manufactured housing, 2-4 unit family housing	5.0 to 20.0
Income-producing properties	Larger areas represented by large samples	5.0 to 15.0
Income-producing properties	Smaller areas represented by smaller samples	5.0 to 20.0
Vacant land		5.0 to 25.0
Other real and personal property		Varies with local conditions

owners who timely file a value protest, and will be included as part of any online electronic protest filing system that is implemented.

This law in no way affects the district's ability to use sales, regardless of from whom they were obtained in the valuation process.

A property owner or agent who receives confidential sales information from BCAD in conjunction with the protest evidence is required by HB 2188 to hold that information in confidence. Failure to do so is a criminal violation of the Texas Public Information Act.



Texas Property Tax Law Changes 2009

Property Tax Assistance • January 2010

Property Tax Bills: 81st Texas Legislature

This publication summarizes changes in property tax laws made in the regular session of the 81st Texas Legislature. Changes are listed in the order in which they appear in the Property Tax Code. Proposed amendments to the Texas Constitution are noted. Other code amendments are included on a selective basis.

This publication is a summary of complex new laws. Do not rely on it to implement the new legislation. Some legislative changes that affect property tax administration may not be included. A supplemental publication may be prepared to correct any errors or omissions. Please read each new law carefully and consult with your attorney before implementation. To see an enrolled version of a bill, visit the Texas Legislature Online at www.legis.state.tx.us and search by bill number.

Table of Contents

Chapter 1. General Provisions	2
Chapter 5. State Administration.....	2
Chapter 6. Local Administration.....	3
Chapter 11. Taxable Property and Exemptions.....	3
Chapter 22. Renditions and Other Reports.....	5
Chapter 23. Appraisal Methods and Procedures	6
Chapter 24. Central Appraisal	7
Chapter 25. Local Appraisal	7
Chapter 26. Assessment	7
Chapter 31–34. Collections and Delinquency	8
Chapter 41. Local Review	9
Chapter 41A. Appeal Through Binding Arbitration	10
Chapter 42. Judicial Review	10
Chapter 311. Tax Increment Financing.....	11
Chapter 312. Tax Abatement Agreements	12
Chapter 313. Texas Economic Development Act	12
Agriculture Code	13
Civil Practices and Remedies Code.....	14
Education Code.....	14
Election Code	14
Government Code	15
Local Government Code	16
Occupations Code	17
Texas Constitution	19

The following acronyms are used in this document:

ARB	appraisal review board
BTPE	Board of Tax Professional Examiners
CAD	county appraisal district
CPA	certified public accountant
HB	House Bill
HJR	House Joint Resolution
OAG	Office of the Attorney General
PVS	property value study
SB	Senate Bill
SOAH	State Office of Administrative Hearings
TAC	tax assessor-collector
TCEQ	Texas Commission on Environmental Quality
TDLR	Texas Department of Licensing and Regulation

The Property Tax Assistance Division at the Texas Comptroller of Public Accounts provides property tax information and resources for taxpayers, local taxing entities, appraisal districts and appraisal review boards.

For more information visit our Website at www.window.state.tx.us/taxinfo/proptax or call toll-free (800) 252-9121. In Austin call (512) 305-9999.

 Sign up to receive e-mail updates on the Comptroller topics of your choice at www.window.state.tx.us/subscribe.



Chapter 1. General Provisions

Section 1.111

HB 1030 adds subsection (j) to entitle an authorized person who is exempt from registration as a property tax consultant and files a protest on behalf of a property owner to receive from the CAD all notices concerning the property under protest until the authority is revoked. These are the authorized persons: a person acting under a general power of attorney, an attorney, an in-house company tax agent, a lessee designated by property owner as an agent, a public employee who assists a property owner as part of public duties, a CPA or a real estate agent or appraiser who assists on farm and ranch or residential property protests only.

Effective June 19, 2009.

HB 1203 amends subsection (b) to prohibit an agent from signing a fiduciary form and requires signing by the owner or a representative (other than designated agent). To be in effect, the form must be filed with the CAD. Subsection (i) was amended to define the timeliness of filing an agent authorization as submission at the time and place designated by the ARB.

Effective May 26, 2009.

Chapter 5. State Administration

Section 5.04

HB 2447 requires that the Comptroller enter into a memorandum of understanding with TDLR for approving curriculum and materials for training appraisers and assessor-collectors. The Comptroller may contract or enter into a memorandum of understanding with other public agencies, educational institutions or private organizations in sponsoring courses of instruction and training.

Effective Sept. 1, 2009.

Section 5.041

HB 2317 amends subsection (a) to require the Comptroller to supervise a comprehensive training course for ARB members and adds subsections (e-1), (e-2) and (e-3) requiring the Comptroller to approve curricula and provide materials for use in a continuing education course for ARB members. An ARB member failing to complete the new course within two years is ineligible for reappointment. Successful completion is required annually. The Comptroller can contract with service providers for the course, but the course cannot be provided by a CAD or a taxing unit. The Comptroller can assess a fee to recover a portion of the costs of the continuing education course of up to \$50 per person.

Effective Sept. 1, 2009.

Section 5.10

HB 8 amends subsection (a) to change the frequency of the CAD study that determines the degree of uniformity and median level of appraisal from every year to at least every other year.

Effective Jan. 1, 2010.

Section 5.101

Repeals the Comptroller's Technical Advisory Committee.

Effective Jan. 1, 2010.

Section 5.102

HB 8 amends subsection (a) to require the Comptroller to review each CAD's governance, taxpayer assistance, operating standards, appraisal standards, appraisal procedures and appraisal methodology at least once every two years. The bill allows the Comptroller to adopt rules for conducting and scoring the review after consulting with the Comptroller's Property Value Study Advisory Committee. The bill amends subsection (b) to allow the Comptroller to copy or print any record or report of a CAD. It amends subsection (c) to require the Comptroller to deliver a written report to the chief appraiser, CAD board of directors and each superintendent and board of trustees in school districts in the CAD. It amends subsection (d) to require the Comptroller to notify TDLR if the CAD does not take remedial action reasonably designed to ensure substantial compliance with each recommendation in the report within a year after the report is issued. TDLR must ensure that the Comptroller's recommendations are implemented as soon as practicable. It amends subsection (e) to require TDLR to determine, with the assistance of the Comptroller, whether the recommendations in the report were substantially implemented and notify the chief appraiser and CAD board of directors of the determination.

Effective Jan. 1, 2010.

Section 5.12

HB 8 amends subsection (e) to prohibit taxing units or taxpayers from requesting a CAD performance audit during a year that the Comptroller is conducting a CAD review under Tax Code Section 5.102.

Effective Jan. 1, 2010.



Chapter 6. Local Administration

Section 6.053

SB 2148 requires chief appraisers to provide information and assistance to emergency management authorities regarding disaster mitigation or recovery, including assisting in the estimation of damage from an actual or potential disaster event.

Effective June 19, 2009.

Section 6.41

HB 1030 adds subsections (d-1) through (d-9) to create an exception to the existing process by which ARB members are selected in certain counties. In counties with a population of 3.3 million or more, or in an adjacent county of 350,000 or more (Harris and Fort Bend), the ARB members would be appointed by the local administrative district judge with selections from ARB commissioners. The administrative district judge could appoint from three to five persons to perform the duties of ARB commissioner in facilitating the selection of the ARB members. The terms of the judge-appointed ARB commissioners would be one year, with reappointment at the discretion of the judge. This bill does not affect the term of an ARB member serving a term that began prior to Dec. 31, 2009, and expires Dec. 31, 2010.

Effective Jan. 1, 2010.

HB 3611 adds subsection (g) to allow boards of directors of two or more adjoining CADs to provide for a consolidated ARB by interlocal contract and is contingent upon voter approval of HJR 36.

Effective June 19, 2010.

Section 6.411

SB 771 amends subsections (c) and (d) and adds subsection (c-1) to specify that communications involving the chief appraiser CAD employee and a member of the ARB are not prohibited ex parte communications if they are confined to administrative, clerical or logistical matters related to the scheduling and operation of hearings, the processing of documents, the issuance of orders, notices and subpoenas and the operation of the ARB. The bill changes prohibited ex parte communications from a Class C to a Class A misdemeanor.

Effective Jan. 1, 2010.

Section 6.42

HB 2317 amends subsection (a) to give the CAD board of directors the authority to select the ARB chairman and secretary and to encourage the board of directors to select as chairman a member, if any, who has a background in law and property appraisal.

Effective Sept. 1, 2009.

Chapter 11. Taxable Property and Exemptions

Section 11.131

HB 3613 requires an exemption, effective for the 2009 tax year, of the total appraised value of homesteads of Texas veterans who receive 100 percent disability compensation from the U.S. Department of Veterans Affairs and have either 100 percent disability rating or individual unemployability as determined by the U.S. Department of Veterans Affairs.

Effective June 19, 2009.

Section 11.135

HB 770 and **HB 1257** require the continuation of a homestead exemption when a residence is temporarily uninhabitable due to a casualty or to wind or water damage only if a homeowner begins repairs within one year. The continuation is limited to two years and is not available if the owner establishes a homestead exemption on another residence. This bill imposes an additional tax to recapture the tax lost to the continued exemption if the owner sells the property before the completion of a replacement structure. The bill requires a lien to be attached to the property to secure payment of the additional tax and

interest. The Comptroller is required to adopt rules and forms to implement this new section.

Effective Jan. 1, 2010 (HB 770); and June 19, 2009 (HB 1257). Applies only to a tax year beginning after the effective date.

Section 11.18

HB 2628 adds subsection (d)(23) and adds subsection (p) to exempt improvements to property owned by a charitable organization that has been in existence for at least 10 years and provides housing and related services to the chronically homeless and disabled. It must also be located on a single campus owned by a municipality with a population between 600,000 and 700,000.

Effective Jan. 1, 2010.

SB 2442 amends subsection (d)(3) to specify that providing training and employment to the handicapped for producing commodities or services under 41 U.S.C. Sections 46-48c is an eligible charitable function; adds subsection (d)(23) to exempt radio stations that broadcast education, cultural or other public



Chapter 11. Taxable Property and Exemptions (continued)

interest programming, including classical music, and in the preceding five years have received or selected to receive grants from the Corporation for Public Broadcasting; adds subsection (p) to exempt real property owned by a charitable organization and leased to an institution of higher education to the same extent as if the institution of higher education owned the property.

Effective Jan. 1, 2010.

Section 11.181

HB 2555 amends subsection (b) to increase the period for which property used exclusively for building or repairing housing to sell without profit to qualified low income persons may be exempt from three to five years.

Effective June 19, 2009.

Section 11.184

HB 2555 repeals subsection (b) to change the exemption for organizations engaged primarily in performing charitable functions from optional to mandatory. The bill amends subsection (c) and adds subsections (l), (m) and (n) to allow corporations that do not qualify as a charitable organization under Section 11.18 to qualify for an exemption under this section if they are exempt from federal income taxation under certain provisions of the Internal Revenue Code.

Effective Jan. 1, 2010.

Section 11.22

HB 3613 amends subsection (a) to conform the Tax Code bracket limits for the disabled veteran's partial exemption to the bracket limits in the Texas Constitution (30 percent, 50 percent and 70 percent disability ratings to the next highest bracket).

Effective June 19, 2009.

Section 11.231

HB 770 adds this section to provide an exemption for property owned by qualified nonprofit community business organizations that provide economic development services to a local community. The organization must have existed for the preceding five years, be a nonprofit corporation formed under Texas law, have an IRS Section 501(c)(6) exemption, have maintained dues-paying membership of at least 50 members, have an unpaid board elected by the members, engage primarily in specified activities and be supported primarily from membership dues and activities related to its primary functions. It may not be a statewide organization and cannot qualify if it is, has formed, or financially supports a political committee. The exemption applies to buildings and tangible personal property used exclusively by nonprofit community business organizations to perform their primary function, and includes incomplete improvements with the usual restrictions. Qualifying activities include the following: promoting the common economic interests of commercial enterprises; improving

the business conditions of one or more types of business or otherwise providing services to aid in economic development.

Effective Jan. 1, 2010.

Section 11.26

HB 770 and **HB 1257** make identical amendments to add subsection (n) which prevents a tax ceiling from expiring because the property has been rendered uninhabitable (see new Section 11.135). They also add subsection (o) to specify that a replacement structure that meets the requirement of Section 11.135 is not to be treated as a new improvement for the purpose of calculating the tax ceiling.

Effective Jan. 1, 2010 (HB 770); also June 19, 2009 (HB 1257), but applies only to a tax year beginning after the effective date.

Section 11.261

HB 770 and **HB 1257** make identical amendments to add subsection (l) which prevents a tax ceiling from expiring because the property has been rendered uninhabitable (see new Section 11.135). They also add subsection (m) to specify that a replacement structure that meets the requirements of Section 11.135 is not to be treated as a new improvement for the purpose of calculating the tax ceiling.

Effective Jan. 1, 2010 (HB 770); also June 19, 2009 (HB 1257), but applies only to a tax year beginning after the effective date.

Section 11.31

HB 3206 and **HB 3544** add subsections (g-1) and (n) to specify that rules adopted by TCEQ must apply uniformly to all applications for pollution control property determinations. These bills also require TCEQ to establish a permanent advisory committee. The committee includes representatives of industry, CADs, taxing units, environmental groups and members who are not representatives of any of those entities but have substantial technical expertise in pollution control technology and environmental engineering.

Effective Sept. 1, 2009, but applies only to a tax year beginning after that date.

HB 3544 amends subsection (d) to allow the director of TCEQ to send notices and determinations to chief appraisers by electronic means.

Effective Sept. 1, 2009.

Section 11.34

SB 252 adds this section to permit cities with a population of less than 10,000 to call elections to enter into agreements with owners of property located in or adjacent to areas operated with funding from Texas Department of Agriculture to limit property taxes for five years. If the population of the city exceeds 10,000 during the life of the agreements, the validity of this law is not affected. The agreement made by the city is



Chapter 11. Taxable Property and Exemptions (continued)

binding on all taxing entities in which the property has situs. If the city approves property taxes pursuant to voter approval, the appraisal office shall appraise the property to which the limitation applies and calculate taxes as on other property, but if the tax so calculated exceeds the limitation, the tax imposed is the amount of the tax as limited by the city's voter-approved policy. An agreement to limit tax increases must be entered into prior to Dec. 31 in the tax year the election is held. Tax limitations approved under this section expire on Jan. 1 of the sixth year after the adoption of the limitation; on Jan. 1 of the first tax year in which the owner of the property ceases to own the property eligible for the limitation; or on Jan. 1 of the year in which the majority owner sells or transfers his or her ownership interest if the property has more than one owner. This change applies to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Effective June 19, 2009.

Section 11.42

HB 770 amends subsection (d) to make the exemption for a non-profit community business organization providing economic development services (Section 11.23) effective immediately upon qualification.

Effective Jan. 1, 2010.

Section 11.43

HB 770 amends subsection (c) to provide that application for the non-profit community business organization providing economic development services need not be submitted annually.

Effective Jan. 1, 2010.

HB 2814 amends subsection (c) to provide that applications for exemptions on motor vehicles used for production of income and for personal activities (Section 11.254 as renumbered) need not be submitted annually.

Effective Jan. 1, 2010.

HB 3613 amends subsection (c) to provide that applications for the disabled veteran's homestead exemption need not be submitted annually.

Effective June 19, 2009.

Section 11.431

HB 3613 gives a disabled veteran up to one year after the delinquency date to apply for a late disabled veteran's homestead exemption. It adds subsection (d-1) so that a residence homestead that receives an exemption under Section 11.131 in the year that is the subject of the PVS is not considered taxable property.

Effective June 19, 2009.

Section 11.438

SB 798 amends subsection (c) to clarify that a veteran's organization is eligible for a refund if a late application is approved and the taxes were paid under protest. The bill specifies that the standard refund application deadline does not apply.

Effective Jan. 1, 2010.

Chapter 22. Renditions and Other Reports

Section 22.27

HB 2941 adds subsections (8) and (9) to allow disclosure of information confidential under that section to an employee or agent of a taxing unit responsible for auditing, monitoring or reviewing the operations of a CAD and to an employee or agent of a school district involved in preparing a protest of the Comptroller's PVS.

Effective Jun. 19, 2009.



Chapter 23. Appraisal Methods and Procedures

Section 23.01

HB 1038 adds subsection (c) to provide that a chief appraiser, in appraising a residence homestead, may not exclude from consideration other property in the neighborhood that sold at foreclosure in any of the three years preceding the tax year and was comparable at the time of sale, or declined in value because of the economy.

Effective Jan. 1, 2010.

HB 3613 amends subsection (c) to require that the market value of a residence homestead be determined solely on the basis of the current use of the property regardless of its highest and best use.

Effective Jan. 1, 2010 contingent on voter approval of HJR 36.

SB 771 amends subsection (b) and adds subsection (c) to require that all available evidence specific to a property's value be taken into account in determining its market value. The bill sets the appraised value of a property at the value finally determined by an ARB, an arbitrator or a court. It prohibits the chief appraiser from increasing the appraised value of the property in the following tax year unless the increased value is reasonably supported by substantial evidence or by presenting evidence showing that an inequality in the appraisal of property was corrected. The burden of proof is on the chief appraiser to support an increase in the appraised value of property under the circumstances described by this subsection.

Effective Jan. 1, 2010.

Section 23.013

SB 771 amends subsection (a) and adds subsections (b), (c) and (d) to provide that a sale may not be considered a comparable sale unless it occurred within 24 months of the appraisal date. An exception may be granted if enough comparable properties were not sold during that period to constitute a representative sample. The bill provides that comparable sales must be appropriately time-adjusted and that comparability must be determined based on similarities in location, square footage of the lot and improvements, property age, property condition, property access, amenities, views, income, operating expenses, occupancy and the existence of easements, deed restrictions or other legal burdens affecting marketability.

Effective Jan. 1, 2010.

Section 23.014

SB 771 amends this section to provide an exception to the requirements for analyzing the effect of personal property on the value of real property (see Section 23.24).

Effective Jan. 1, 2010.

Section 23.121

HB 2071 amends various subsections within sections 23.121, 23.122, 23.124, 23.1241, 23.1242, 23.125, 23.127 and 23.128 to require dealers and retailers of certain special inventories to submit each month their inventory tax statement to the county TAC where the inventory was located, regardless of whether an item was sold. The tax statement should include a description of each item sold. If no items are sold, a dealer must file a statement that indicates no sales were made. This bill amends various subsections by adding a penalty for dealers and retailers of certain special inventories who fail to timely file a retailer's tax statement, in addition to those who fail to file.

Effective Sept. 1, 2009.

Section 23.23

HB 770 and **HB 1257** make identical amendments to subsection (f) to require that the replacement structure of a property qualified for the 10 percent limitation on appraised value increases be appraised at the appraised value the structure would have in the preceding year had the casualty not occurred, unless the square footage exceeds that of the replacement structure or if the exterior is of higher quality construction and composition than that of the replaced structure.

Effective Jan. 1, 2010 (HB 770); also June 19, 2009 (HB 1257), but applies only to a tax year beginning after the effective date.

Section 23.24

SB 771 adds subsection (b) to prohibit a chief appraiser from separately appraising or accounting for personal property that is already included in appraisal of real property for which the income approach to value was used. This will serve as an exception to Section 23.014, which requires the separate listing and appraisal of personal property if the income approach is not utilized.

Effective Jan. 1, 2010.

Section 23.51

SB 801 amends subdivision (7)(A) to expand the definition of land qualified for appraisal as open-space land used for wildlife management to include land that was qualified for appraisal as timberland.

Effective Jan. 1, 2010.

Section 23.52

SB 801 adds subsection (g) to codify the current practice of appraising open-space land in wildlife management use based on its previous agricultural use.

Effective Jan. 1, 2010.



Section 23.522

SB 771 adds this section to permit temporary cessation of agricultural use during drought. Qualified open-space land does not become ineligible for the special appraisal when a drought declared by the governor has created the necessity to cease agricultural use for longer than the normal time and when the owner intends to return the land to agricultural use to the degree of intensity that is typical in the area when the drought ends.

Effective Jan. 1, 2010.

Section 23.56

SB 801 adds subsection (1)(c) to expand land qualifying for appraisal as open-space land to include land inside a city limits if it has been devoted principally to agricultural use or timber production continuously for the preceding five years and is also used for wildlife management.

Effective Jan. 1, 2010.

Chapter 24. Central Appraisal

Section 24.38

HB 1309 amends this section to change the date the Comptroller certifies the apportioned market value of railroad rolling stock to county TACs from before Aug. 1 to before July 26.

Effective Jan. 1, 2010.

Chapter 25. Local Appraisal

Section 25.025

HB 559 amends subsection (a) to add justice of the peace to the definition of state judge for purposes of confidentiality of home addresses in appraisal records.

Effective Sept. 1, 2009.

SB 281 amends subsection (a)(6) to add the spouse of a state or federal judge to the list of officials whose home address information is confidential.

Effective Sept. 1, 2009.

SB 390 amends subsection (a) to add certain U.S. criminal investigators, police officers or inspectors to the list of officials whose home address information is confidential.

Effective Sept. 1, 2009.

Chapter 26. Assessment

Section 26.01

HB 3646 amends subsection (e) to change the deadline for the chief appraiser to prepare and certify estimates of the taxable value to county, municipality and school district assessors from June 7 to April 30.

Effective Sept. 1, 2009.

Section 26.05

HB 2291 amends subsection (b) by changing the wording of the motion used to adopt a tax rate that exceeds the effective tax rate. The wording for an ordinance resolution or order must give the percent increase above the effective tax rate. The

wording for an ordinance resolution or order must be made in the following form: "I move that the property tax rate be increased by the adoption of a tax rate of (specify tax rate), which is effectively a (insert percentage by which the proposed tax rate exceeds the effective tax rate) percent increase in the tax rate." If the tax rate exceeds the effective maintenance and operations (M&O) rate, the following statement must be included: "The tax rate will effectively be raised by (insert percentage by which the tax rate exceeds the effective M&O rate) percent and will raise taxes for maintenance and operations on a \$100,000 home by approximately \$(insert amount)."

Effective June 19, 2009.



Chapter 26. Assessment (continued)

HB 3646 adds subsection (g) that allows a school district that elects to adopt a tax rate before the adoption of a budget to use the certified estimate of taxable value it receives from the CAD to set the tax rate. In such a case, the school district's effective and rollback rates are calculated using the certified estimate of taxable value.

Effective Sept. 1, 2009.

Section 26.08

HB 3646 and **SB 2274** add subsection (p) to require that if a school district's adopted M&O tax rate for the prior year was less than its effective M&O rate for that year, the district's current-year rollback tax rate is calculated as if its prior-year adopted M&O rate was equal to its prior-year effective M&O rate.

Effective June 19, 2009.

SB 1024 adds subsections (d-1) and (d-2) to require that TACs prepare and mail corrected tax bills if the school district's proposed tax rate is not adopted by the voters and to require the school district to refund the difference between the amount of taxes paid and the amount due under the subsequently adopted rate if the difference between the amount of taxes paid and the amount due under the subsequent rate is \$1 or more. The delinquency date is extended to equal the number of days between the date the tax bills were originally mailed and the date the corrected bills were mailed.

Effective Sept. 1, 2009.

Chapters 31–34. Collections and Delinquency

Chapter 31

Section 31.01

SB 562 amends subsection (a) to allow TACs a choice on whether or not they wish to put "RETURN SERVICE REQUESTED" on the envelopes of tax bills.

Effective Sept. 1, 2009.

Section 31.032

HB 1257 amends subsection (a) and adds subsection (h) to extend an installment payment option to certain property damaged in a disaster and owned or leased by a business entity with \$5 million or less in annual gross receipts. The Comptroller is required to adjust the gross receipts limit for each subsequent tax year to reflect inflation.

Effective June 19, 2009, but applies only to a tax year beginning after the effective date.

Section 31.06

HB 3646 amends subsection (a) to make it mandatory that TACs take credit cards or electronic funds transfers for payment of taxes. It deleted language that allowed a TAC and a person to enter into an agreement under which the person pays taxes by electronic funds transfer.

Effective Sept. 1, 2009.

Section 31.11

HB 1205 amends subsection (a) by increasing the dollar limit for which taxing unit approval is required for refunds of overpayments or erroneous tax payments from \$2,500 to \$5,000 in a county with a population of 2 million or more.

Effective Jan. 1, 2010.

SB 798 amends subsection (a) to make a determination of erroneous or excessive payment the TAC's responsibility with approval from the auditor, instead of the auditor's responsibility. It removes the requirement that a taxpayer apply for a refund from a TAC who collects taxes for a taxing unit in a county with a population of 2 million or more, if the refund amount is \$5 to \$5,000.

Effective Jan. 1, 2010.

Chapter 32

Section 32.06

HB 1465 amends subsection (i) to allow a taxing unit to join a tax lien transferee when it files suit to foreclose its own lien for delinquent property taxes. Once joined, a transferee is entitled to foreclose its lien, notwithstanding the current law that generally prohibits foreclosure within one year of the date on which the lien is recorded and regardless of whether the loan secured by the lien is delinquent. It authorizes a transferee to pay all taxes, penalties, interest, court costs and attorney's fees owing to the taxing units in the suit.

Effective Sept. 1, 2009.

SB 1620 amends subsection (a-4) to require the Finance Commission of Texas by rule to prescribe the form and content of the sworn document under Subsection (a-1) relating to another person being authorized to pay certain taxes by filing a sworn document and the certified statement under subsection (b) relating to issuance of tax receipts.

Effective Sept. 1, 2009.



Chapter 33

Section 33.445

HB 1465 allows a taxing unit to join each transferee of a tax lien in a suit. It allows the transferee to pay all the taxes, penalties and interest and acquire rights to foreclosure.

Effective Sept. 1, 2009.

Chapter 34

Section 34.021

HB 406 requires a person conducting a foreclosure sale to pay any excess proceeds held by the court clerk within 10 days of the sale and specifies the method for handling the excess proceeds.

Effective Sept. 1, 2009.

Section 34.04

HB 406 amends several subsections to add that former owners must meet certain requirements before receiving any proceeds of a tax sale, preventing a former owner from establishing a claim to the proceeds if the former owner acquired the property after the date of the judgment, placing additional restrictions

on the assignment or transfer of an owner's interest and limiting participation in the owner's recovery. The bill restricts attorney fees for obtaining excess proceeds for owners, prohibits non-attorneys from charging a fee to obtain excess proceeds for an owner and restricts the amount of excess proceeds that a court may order to be paid to an assignee or transferee.

Effective Sept. 1, 2009.

Section 34.21

HB 1407 amends subsection (f) and adds subsection (f-1) to require that an owner of real property sold at a tax sale who seeks to redeem the property by paying the TAC rather than the purchaser must include in the redemption affidavit a statement that the owner's statutory redemption period has not expired, and changes the location for redemption by the owner of a property sold at a tax sale from "the county in which the property described has been redeemed" to "the county in which the property was sold." The bill requires the TAC to accept the assertions in the redemption affidavit and relieves the TAC from liability for performing legal duties in reliance on the assertions contained in the affidavit.

Effective Sept. 1, 2009.

Chapter 41. Local Review

Section 41.415

SB 873 adds a section requiring CADs that maintain a Web site to allow electronic filing of a protest on a residence homestead for excessive appraisal or unequal appraisal, including electronic communications regarding that protest. These provisions are effective on Jan. 1, 2013 for counties with a population of 250,000 or less. It requires that CADs allow for electronic statements.

Effective Jan. 1, 2011.

HB 1030 adds a similar section, except that it provides that the system does not apply if a property owner is represented by a tax agent.

Effective Jan. 1, 2010.

Section 41.45

HB 1030 amends subsection (e) to require an ARB to postpone a hearing on a showing of "good cause" instead of "reasonable cause." The chairman of the ARB is permitted to make the determination (currently, the full ARB must deny a postponement).

Effective June 19, 2009.

HB 1030 amends subsections (e-1) and (e-2) so that a property owner who does not have an agent and who fails to appear at a hearing is entitled to a new hearing if he writes to the ARB within four days detailing "good cause" for failing to appear and requests a new hearing. "Good cause" is defined as a reason that includes an error or mistake that was not intentional or was not the result of conscious indifference and will not cause undue delay or injury to the person authorized to extend the deadline or grant a rescheduling.

Effective June 19, 2009.



Chapter 41A. Appeal Through Binding Arbitration

Section 41A.01

SB 771 amends this section to allow binding arbitration for ARB orders determining a protest filed under Section 41.41(a) (1) [market or appraised value] on real and personal property valued at \$1 million or less and to allow binding arbitration for all residence homesteads, including those valued at more than \$1 million.

Effective Jan. 1, 2010.

Section 41A.03

HB 4412 adds subsection (a-1) to allow a property owner of contiguous land that has two or more ARB orders of determination to pay only one arbitration deposit.

Effective Sept. 1, 2009.

SB 771 amends the section to provide an expedited arbitration option with a reduced deposit of \$250 (see new section 41A.031).

Effective Jan. 1, 2010.

Section 41A.031

SB 771 provides for an expedited binding arbitration upon request of the property owner. The arbitration is limited to one

hour of argument and testimony per party. The Comptroller must adopt rules for the conduct of expedited arbitration.

Effective Jan. 1, 2010.

Section 41A.06

SB 771 amends subsection (b) to include licensed attorneys and certified public accountants as occupations that may initially qualify to serve as arbitrators.

Effective Jan. 1, 2010.

Section 41A.061

SB 771 requires arbitrators to complete eight hours of continuing education and file a renewal application within two years of being added to the arbitration registry. The Comptroller must remove an arbitrator from the registry if the arbitrator fails to meet these conditions.

Effective Jan. 1, 2010.

Section 41A.08

SB 771 amends this section to provide that parties to an arbitration proceeding may be represented by a certified public accountant (among others previously authorized).

Effective Jan. 1, 2010.

Chapter 42. Judicial Review

Section 42.08

SB 1359 amends subsection (d) and adds subsections (e) and (f) to require that a person making a motion for a hearing regarding a party's non-payment of property taxes send a notice of the hearing to the collector for each taxing unit that imposes taxes on the property at least 45 days before the hearing. The bill specifies that a taxing unit that imposes taxes on the property may intervene in the appeal and participate in the proceedings for the limited purpose of determining whether the property owner has complied with this section (Forfeiture of Remedy for Non-Payment of Taxes) regardless of whether the taxing unit received proper notice.

Effective June 19, 2009.

Section 42.21

HB 986 amends subsection (a) to extend the deadline for appeal to district court from 45 to 60 days after a party receives notice that a final ARB order has been entered. The bill clarifies that the party may file the appeal between the date of the hearing and the notice date.

Effective June 19, 2009.

Section 42.29

HB 1030 amends subsection (a) to allow a property owner who prevails in a court appeal concerning an ARB determination on a motion filed under Tax Code Section 25.25 to receive attorney fees.

Effective June 19, 2009.

Section 42.43

HB 986 amends subsection (c) and adds (b-1), (e), (f), (g), (h) and (i) to change the property owner refund procedures following appeals to district court. The bill specifies that a refund is not considered made until the proper person receives the refund as specified by this section and that a refund cannot be sent before the earlier of the 21st day after the final determination of the appeal or receipt of a form designating a person to whom the refund must be sent, whichever occurs first. If a form designating a person other than the property owner is not filed before the 21st day after the final appeal determination and if the court does not designate a person other than the property owner, the taxing unit must send the refund to the property owner. The Comptroller must prescribe the form for the designation of the person to receive the refund.

Effective June 19, 2009.



Chapter 311. Tax Increment Financing

Section 311.003

HB 1770 amends subsection (a) to allow cities to designate a contiguous or noncontiguous geographic area that is in the corporate limits of the municipality, the extraterritorial jurisdiction of the municipality or both as a reinvestment zone. It also allows a county to make the same designation to a contiguous geographic area in the county.

Effective June 19, 2009.

Section 311.0085

HB 752 amends subsection (a) to change the population limit to fewer than 130,000 for cities that have territory in three counties to enter into an agreement with a school district to dedicate revenue from a tax increment fund to the district for the acquisition, construction or reconstruction of an educational facility. Population figures are determined by 2000 U.S. census.

Effective May 19, 2009.

Section 311.010

SB 576 amends subsection (b) to allow the use of TIF funds for the construction of infrastructure in or out of the zone, including the purchase of real property necessary to build that infrastructure. The bill removes the authority to dedicate TIF funds to a neighborhood enterprise association.

Effective June 19, 2009.

Section 311.012

HB 1770 amends subsection (a) to allow a taxing unit the option to calculate its tax increment based on taxes levied and assessed rather than taxes levied and collected on the captured appraised value of real property taxable by the unit and located in a reinvestment zone. The governing body of the taxing unit determines which basis is used to calculate the amount of the unit's tax increment.

Effective June 19, 2009.

Section 311.013

HB 1770 amends subsection (c) to provide that notwithstanding any termination of the reinvestment zone under Section 311.017(a) as amended by this bill, the required payment to the fund is unchanged. The amendment to subsection (i) provides that notwithstanding the changes to Section 311.012(a) a taxing unit is not required to pay into a tax increment fund the applicable portion of a tax increment attributable to delinquent taxes until those taxes are collected.

Effective June 19, 2009.

SB 576 amends subsection (g) to include municipalities in the entity authorized to grant a tax exemption to the owners of taxable real property within a TIF in lieu of paying a portion of its tax increment into the TIF. It adds the requirement that an agreement to exempt real property from ad valorem taxes be approved by the board of directors of the reinvestment zone and the governing body of each taxing unit that imposes taxes on real property in the zone and deposits any of its tax increment into the TIF.

Effective June 19, 2009.

Section 311.017

HB 1770 amends subsection (a) to allow a termination date later than the original date that was specified when creating the zone. The bill adds subsection (a-1) to provide that a taxing unit, other than the municipality or county that created the zone, is not required to pay any of its tax increment into the tax increment fund for the zone after the termination date designated in the ordinance or order creating the zone unless the governing body of the taxing unit enters into an agreement to do so with the governing body of the municipality or county that created the zone.

Effective June 19, 2009.



Chapter 312. Tax Abatement Agreements

Section 312.006

HB 773, HB 3896 and SB 1458 reauthorize the Property Redevelopment and Tax Abatement Act through Sept. 1, 2019.

Effective June 19, 2009.

Section 312.007

HB 3896 and SB 1458 add this new section to allow taxing units to defer the commencement of the 10-year abatement period for an unspecified length of time mutually agreed upon by the taxing unit and the taxpayer.

Effective June 19, 2009.

Section 312.402

HB 3896 and SB 1458 clarify language that allows counties to grant an abatement on tangible personal property.

Effective June 19, 2009.

Chapter 313. Texas Economic Development Act

Section 313.007

HB 3676 extends from Dec. 31, 2011 to Dec. 31, 2014 the expiration date of significant portions of this chapter.

Effective Sept. 1, 2009.

Section 313.021

HB 469 amends subsection (4)(C) to provide a qualifying time period of five years beginning on or after the third anniversary of a project approval for advanced clean energy projects. The school district and the property owner may agree to a shorter time period.

Effective Sept. 1, 2009.

HB 3676 amends subsections (1)(A), (2) and (5) to clarify, rather than change, existing law.

Effective Sept. 1, 2009.

Section 313.024

HB 3676 amends subsection (b)(8) to add to the list of eligible property a computer center primarily used in connection with one or more activities described in Section 313.024(b)(1)-(7) and clarifies subsection (e).

Effective Sept. 1, 2009.

Section 313.025

HB 3676 amends subsection (a) to clarify existing law and adds subsection (a-1) requiring school districts to submit to the Comptroller copies of applications, agreements and any economic analyses (or any revisions of those documents) within seven days of receipt and to require the Comptroller to post each document on the Comptroller's Web site and for districts to have links to the Comptroller Web site. The bill amends subsection (b) to lengthen the application review period from 120 to 150 days and amends subsection (d) to lengthen the

period of time for Comptroller review of the application from 60 to 90 days. Subsection (d-1) is added to provide that when the Comptroller recommends disapproval of an application, a district can only approve that application with at least a two-thirds vote of the school board. The bill adds subsection (h) to require the Comptroller to determine whether the property described in the application meets the eligibility requirements of the chapter, and offer applicants the opportunity for a hearing on project eligibility conducted by the SOAH. The applicants could seek judicial review of the eligibility determination in a Travis County District Court. The bill adds subsection (i) to provide that if the Comptroller's determination was upheld by the appeals process, the Comptroller is not required to provide the economic impact evaluation or recommendation otherwise required by the chapter.

Effective Jan. 1, 2010.

Section 313.026

HB 3676 amends subsections (a) and (b) to expand the Comptroller's economic impact evaluation to include the impact a project would have on the state and individual units of government instead of the region. It requires the economic impact evaluation to include tax and other revenue gains, direct or indirect, that would be realized and economic effects of the project, including the impact on jobs and income, during the qualifying time period, the limitation period, and a period of time after the limitation period considered appropriate by the Comptroller are also required in the evaluation.

Effective Sept. 1, 2009.

Section 313.0265

HB 3676 requires the Comptroller to designate applications and certain other documents related to value limitation applications and projects as "substantive" and post them within 15 days of their creation or receipt on the Comptroller's Web site. The



Comptroller must maintain them until the expiration of the limitation (at least 10 years and four months). School districts are required to have links to the Comptroller's Web site.

Effective Jan. 1, 2010.

Section 313.027

HB 3676 amends subsection (f) to allow agreements to include a provision for payments from the owner to the school district for "extraordinary education-related expenses" related to the project. The bill adds subsections (h) to allow a school board and property owner to delay indefinitely the beginning of the qualifying time period as long as the qualifying time as not begun. Subsection (i) is added to limit "supplemental payments" from the project owner to the district to \$100 per student per year for a time not to exceed the qualifying limitation and tax credit settle-up periods.

Effective Sept. 1, 2009.

Section 313.0275

HB 3676 specifies that the owner of the project must make the minimum qualified investment and create the required number of qualifying jobs. It provides that the property owner is liable to the state for a penalty equal to the amount computed by subtracting from the market value of the property for that tax year the value of the property as limited by the agreement and multiplying the difference by the maintenance and operations tax rate of the school district for that tax year. The bill provides that such a penalty imposed under subsection (b) becomes delinquent if not paid on or before Feb. 1 of the following tax year.

Effective Sept. 1, 2009.

Section 313.028

HB 3676 amends this section to specify that confidential information be segregated in the application from information not considered confidential, and that certain information cannot be considered confidential business information.

Effective Sept. 1, 2009.

Section 313.029

HB 3676 repeals this section which prohibited school districts with Chapter 313 agreements from holding tax rate rollback elections in the two tax years following the approval of a value limitation application.

Effective Sept. 1, 2009.

Section 313.051

HB 3676 amends subsection (a)(1) to allow school districts to be classified as rural under Subchapter C of Chapter 313 if the school district has territory in an area that was previously designated as a strategic investment area immediately prior to the expiration of subchapter O, Tax Code Chapter 171. The bill deletes subsection (a)(2)(B) which prevents school districts partially or wholly located within a metropolitan statistical area from being classified as rural under the subchapter.

Effective Sept. 1, 2009.

Section 313.103

HB 3676 deletes subsection (a)(3) to allow companies to file a tax credit application with the school district at any time, rather than before Sept. 1 of the third year of an agreement, as specified in current law. The bill adds subsection (b) that an application or any information provided by the school district to the Texas Education Agency in regard to the tax credit is not confidential.

Effective Sept. 1, 2009.

Section 313.104

HB 3676 amends this section for school boards to perform certain tasks prior to granting a tax credit, rather than within 90 days of the application filing.

Effective Sept. 1, 2009.

Agriculture Code

Section 1.003

HB 375 amends subsection (3) to define elk and hybrid elk as livestock.

Effective May 27, 2009.



Civil Practices and Remedies Code

Section 17.091

HB 1804 amends provisions relating to the service of process for nonresidents for suits concerning delinquent taxes. The section will apply regardless of whether the defendant has resided in Texas. It requires duplicate copies of the process issued by the clerk of the court to be served on the Secretary of State (SOS). SOS is required to mail a copy of the process by certified mail, return receipt requested, with the postage prepaid to the non-resident and certify to the court that SOS has complied.

Effective Sept. 1, 2009.

Education Code

Sections 42.2523 and 42.2524

HB 4102 adds Sections 42.2523 and 42.2524 requiring the Commissioner of Education to adjust the taxable value of a property of a school district located within a declared disaster area as necessary to ensure that the district receives funding as soon as possible based on property values as affected by the disaster. The bill provides that the state may reimburse school districts for remediation related to a declared disaster under certain circumstances.

Effective June 19, 2009.

Section 45.001

HB 3646 amends this section to allow a district to retire debt early and to include that early payment in the calculation of the debt rate.

Effective June 19, 2009.

SB 2274 amends subsection (a) to authorize a governing board of an independent school district to levy, pledge, assess and collect annual ad valorem taxes sufficient to pay the principal and interest bonds as or before the principal and interest becomes due.

Effective June 19, 2009.

Election Code

Section 3.005

HB 3646 amends this section to allow a school district to order an election to ratify a tax rate not later than the 30th day before the election date. The bill reduces the advance notice from 62 days.

Effective Sept. 1, 2009.



Government Code

Section 403.3011

HB 8 changes the definition of an eligible school district to mean that a school district must have an invalid finding in the current study, have valid findings in the previous two studies by the Comptroller, and have its appraisal district be in compliance with the most recent review of the appraisal district. Eligible school districts are entitled to receive funding based upon local tax roll values, even though the Comptroller has found those values to be invalid in the current study.

Effective Jan. 1, 2010.

Section 403.302

HB 8 changes the frequency of the PVS from every year to every other year, unless the study reveals invalid findings, in which case, the study is conducted every year until the school district receives valid findings. The bill creates the Comptroller's Property Value Study Advisory Committee, including a Speaker-appointed House member, a Lieutenant Governor-appointed Senate member, two Comptroller-appointed appraisal district representatives, two Comptroller-appointed school district representatives, and three additional appointments by the Comptroller. The bill directs the Comptroller to review each CAD every other year concerning governance, taxpayer assistance and compliance with generally accepted appraisal standards, procedures and methodology.

Effective Jan. 1, 2010.

HB 3676 provides that properties not taxed at full market value because of actions taken by a school district under subchapter B or C, Chapter 313, before the expiration of the subchapter, are deducted from the Comptroller's PVS, and the Comptroller is not required to deduct from the PVS the value of any Chapter 313 projects that are applied for after May 1, 2009, and not recommended by the Comptroller.

Effective June 19, 2009.

Section 403.304

HB 8 requires any governmental entity to promptly comply with a Comptroller's written or oral request for information for conducting the PVS and that the Comptroller keep confidential information obtained under a promise of confidentiality.

Effective Jan. 1, 2010.

Section 418.016

HB 3851 gives the governor authority to waive or suspend a deadline on a political subdivision, including a deadline relating to a budget or ad valorem tax, if the waiver or suspension is reasonably necessary to cope with a disaster.

Effective June 19, 2009.

Section 418.1075

HB 3851 amends subsections (a) and (b) to allow a deadline under local law relating to a budget or ad valorem tax to be suspended. The presiding officer of a political subdivision or, if there is no presiding officer, the political subdivision's governing body may issue an order ending the suspension of a deadline under this section. A deadline may not be suspended for more than 30 days after the date the presiding officer or governing body makes the proclamation.

Effective June 19, 2009.

Section 552.024

SB 1068 amends subsection (c) and adds subsections (c-1) and (c-2) to allow a governmental body to redact certain information from any information disclosed without the necessity of an OAG decision, allowing the requestor of the redacted information the right to request an opinion from the OAG.

Effective June 4, 2009.

Section 552.1175

SB 1068 adds subsections (f), (g) and (h) to allow a requestor of information the right to request a review and opinion from the OAG before being required to sue for a writ of mandamus or seek a declaratory judgment. The OAG shall establish procedures and deadlines for receiving information necessary to decide the matter and must render a decision no later than 45 business days after a request.

Effective June 4, 2009.

Section 552.137

HB 3544 adds subsection (c)(5) to permit disclosure of e-mail addresses provided to a governmental body for the purpose of providing public comment on or receiving notices related to a license as defined by Government Code Section 2001.003(2) or receiving orders or decisions from a governmental body.

Effective Sept. 1, 2009.

Section 552.138

SB 1068 adds subsections (c), (d) and (e) to allow a governmental body to redact information maintained by a family violence shelter center or sexual assault program without the necessity of an OAG opinion. The requestor has the right to seek an OAG opinion.

Effective June 4, 2009.



Government Code (continued)

Section 552.148

HB 2941 amends subsection (c) and adds subsections (d) and (e) to give school districts the same authority that property owners have to obtain information, including confidential information, from the Comptroller and CADs relating to any protested finding in the PVS before the protest is filed.

Effective June 19, 2009.

SB 1813 adds subsection (d) to make sections of the Government Code that except from disclosure certain information received from a private entity applicable to counties with populations of 20,000 or more.

Effective June 19, 2009.

Section 552.151

SB 1068 amends this section to allow a governmental body to exempt information about an employee or officer when it could cause substantial threat or physical harm to the employee or officer.

Effective June 4, 2009.

Section 552.228

HB 3544 amends this section to omit language permitting the use of paper copies to respond to public information requests so that only the medium acceptable to the requestor must be used.

Effective Sept. 1, 2009.

Section 552.275

SB 1629 adds subsection (j) so individuals who, for a substantial portion of their livelihood or for substantial financial

gain, gathers, complies, prepares, collects, photographs, records, writes, edits, reports, investigates, processes or publishes news or information for radio, television, newspaper or certain magazines are not required to pay personnel costs for public information.

Effective Sept. 1, 2009.

Section 2003.901

HB 3612 adds subchapter Z to establish a pilot program allowing property owners to appeal ARB determinations for certain real or personal properties to SOAH. The pilot program will be implemented in Bexar, Cameron, El Paso, Harris, Tarrant, and Travis counties for a three-year period beginning Jan. 1, 2010, and is limited to 3,000 appeals. Owners of real or personal properties appraised at more than \$1 million will be able to protest to SOAH determinations of ARBs resulting from disputes of appraised and market value or unequal appraisal. Mineral and industrial property are excluded. A SOAH determination precludes a district court appeal. SOAH has rulemaking authority to implement the pilot program. The bill authorizes education and training for SOAH administrative law judges from the Comptroller's ARB training courses and sets out notice and procedural requirements. SOAH and chief appraisers for counties included in the pilot program will submit a report including recommendations for future action at the end of the pilot program to the Legislature. The pilot expires Jan. 1, 2013.

Effective Jan. 1, 2010.

Local Government Code

Section 175.001

SB 654 amends the section to include CAD employees in counties with a population of 75,000 or more, and who are entitled to receive retirement benefits from the CAD, among those employees eligible to purchase continued health coverage after their retirement. The bill expands the meaning of political subdivision to include a political subdivision of "any other state." The change applies to all eligible persons who leave employment with a CAD on or after Jan. 1, 2010.

Effective June 19, 2009.

Section 324.099

SB 1638 adds subsection (l) to require entities managing timeshare properties to collect and remit all district taxes if the managing entity advertises for the property owner or collects

rent for the property owner. This bill adds subsection (m) to allow managing entities to file a certificate executed in good faith with the district informing them they do not collect rent or advertise for the property owner.

Effective Sept. 1, 2009.

Section 375.115

HB 871 amends subsection (c) to allow flexibility to municipal management districts to notify property owners of scheduled hearings either using certified mail or another method that a municipal management district's board determines is adequate proof that the notice was timely disseminated.

Effective Sept. 1, 2009.



Occupations Code

Section 1151

HB 2447 changes the heading of subchapter B to read “Texas Tax Professional Advisory Committee” instead of “BTPE.”

Effective Sept. 1, 2009.

Section 1151.002

HB 2447 amends subdivision (5) and adds subdivisions (7-a), (7-b) and (7-c) to change the word “board” to “commission;” defining “commission” as the “Texas Commission on Licensing and Regulation.” HB 2447 also defines “committee” as the “Texas Tax Professional Advisory Committee;” and defining “department” as “TDLR.”

Effective Sept. 1, 2009.

Section 1151.004

HB 2447 amends subsection (b) to change the word “board” to “department.”

Effective Sept. 1, 2009.

Section 1151.051

HB 2447 amends this section to abolish BTPE and create the Texas Tax Professional Advisory Committee consisting of two registered property appraisers, two registered tax assessors or registered tax collectors and three public members appointed by the presiding officer of the commission with the approval of the commission. Vacancies on the committee are filled in the same manner as the original appointment. The presiding officer of the commission shall designate one member of the committee as its presiding officer. Government Code Section 2110.008 does not apply to the committee.

Effective Sept. 1, 2009.

Section 1151.0511

HB 2447 amends this section changing the word “board” to either “committee” or “department” and adding subsection (5) so a person may not be a member of the committee if the person has at any time served on an ARB.

Effective Sept. 1, 2009.

Section 1151.0512

HB 2447 amends subsections (b) and (c) so a person may not be a member of the committee if the person or the person’s spouse is required to register as a lobbyist under Government Code Chapter 305.

Effective Sept. 1, 2009.

Section 1151.052 and 1151.055

HB 2447 amends these sections to change the word “board” to “committee.”

Effective Sept. 1, 2009.

Section 1151.101

HB 2447 amends this section so the commission, with the advice of the committee, shall establish reasonable and necessary fees to cover the costs of administering the programs and activities under this chapter.

Effective Sept. 1, 2009.

Section 1151.1015

HB 2447 amends this section to require the Comptroller to enter into a memorandum of understanding with the department under which the Comptroller shall provide the following:

- Information on the education needs of and opportunities for tax professionals;
- Review and approval of all required educational courses, examinations and continuing education programs for registrants;
- A copy of any report issued by the Comptroller under Tax Code Section 5.102, and if requested by the TDLR, a copy of any work papers or other documents collected or created in connection with a report issued under that section; and
- Information and assistance regarding administrative proceedings conducted under the commission’s rules or this chapter.

Effective Sept. 1, 2009.

Section 1151.108

HB 2447 amends this section to require the committee to recommend to the commission rules and standards regarding technical issues relating to tax professionals; to provide advice to the commission regarding continuing education courses and curricula for registrants; to provide advice to the commission regarding the contents of any examination required by the commission under this chapter; and to educate and respond to questions from the commission and the department regarding issues affecting tax professionals.

Effective Sept. 1, 2009.

Section 1151.154

HB 2447 amends this section to require a nonrefundable processing fee and nonrefundable registration fee with submission of an application for registration. The \$50 limitation for processing was repealed.

Effective Sept. 1, 2009.



Occupations Code (continued)

Section 1151.156

HB 2447 amends this section prohibiting the department from refusing to register an applicant because of race, color, disability, sex, religion, age or national origin.

Effective Sept. 1, 2009.

Section 1151.158

HB 2447 amends this section so, unless otherwise provided by the commission, registration is valid for one year and renewed annually and the registrant must pay an annual fee. The \$75 limit on registration fees was repealed. The commission by rule may adopt a system under which registrations expire on various dates during the year. TDLR shall notify a registrant under this chapter of the impending expiration of the registration.

Effective Sept. 1, 2009.

Section 1151.1581

HB 2447 amends this section to require the Comptroller to review and approve all continuing education programs for registrants; require registrants to participate in programs to the extent required by the department; and allow the commission and the Comptroller to set fees for continuing education courses and providers of continuing education courses in amounts reasonable and necessary to cover TDLR's costs in administering their respective duties under this section.

Effective Sept. 1, 2009.

Section 1151.161

HB 2447 amends this section to require an applicant for examination to apply in the manner prescribed by TDLR. TDLR may accept, develop or contract for the examinations required by this section, including the administration of the examinations. The Comptroller must approve the content of an examination accepted, developed or contracted for by TDLR. TDLR may require a third-party vendor to collect a fee associated with the examination directly from examinees.

Effective Sept. 1, 2009.

Section 1151.163

HB 2447 amends this section changing "board" to "department" and "license" to "registration."

Effective Sept. 1, 2009.

Section 1151.202

HB 2447 is amended to allow TDLR to deny an application for registration or take other disciplinary action against a person who violates this chapter or commission rules. The

commission by rule shall adopt written guidelines to ensure that denials of registration and other disciplinary actions are administered consistently. Before imposing an administrative penalty, TDLR must consider evidence that the registrant did the following: attempted in good faith to implement or execute a law, policy, rule, order budgetary restriction or other regulation provided by the laws of this state, the Comptroller or the governing body or the chief administrator of the CAD or taxing jurisdiction that employs the registrant; acted on the advice of counsel or the Comptroller; or had discretion over the matter on which the complaint is based, if the complaint is based solely on grounds that the registrant decided incorrectly or failed to exercise discretion in favor of the complainant. TDLR may notify the local governmental entity that employs a registrant of a complaint against the registrant by sending a copy of the complaint letter to the local governmental entity.

Effective Sept. 1, 2009.

Section 1151.204

HB 2447 amends this section to allow that, after investigation, TDLR may dismiss a complaint without conducting a hearing if the complaint challenges only the appraised value of a property or another matter for which Tax Code Title I specifies a remedy and does not credibly allege a violation of this chapter or the standards established by the commission for registrants under this chapter; and the disagreement has not been resolved in the complainant's favor by an ARB or court.

Effective Sept. 1, 2009.

Section 1151.252

HB 2447 amends this section to clarify that a person commits an offense if the person performs appraisal functions with a registration or certification that is not active.

Effective Sept. 1, 2009.

Section 1151.253

HB 2447 amends this section to allow a person to file a complaint with TDLR concerning a violation of this chapter or a rule adopted by the commission under this chapter.

Effective Sept. 1, 2009.

Sections 1151.102-1151.107, 1151.151-1151.153, 1151.155, 1151.157, 1151.160, 1151.162, 1151.164, 1151.205, 1151.251, 1152.103

HB 2447 amends these sections changing the word "board" to either "department" or "commission."

Effective Sept. 1, 2009.



Occupations Code (continued)

Section 1152.156

HB 2591 amends subsection (a) to increase the number of classroom hours required to register as a property tax consultant from 15 to 40, including at least four hours of instruction on Texas laws and legal issues related to property tax consulting. A property tax consultant will also need to pass a competency exam.

Effective Sept. 1, 2009 but applies only to applications submitted after March 1, 2010.

Section 1152.160

HB 2591 amends this section to direct TDLR to adopt a competency exam for registrants and to accept, develop or contract for administration of the examination.

Effective Sept. 1, 2010.

Section 1152.231

HB 2591 adds this section describing general actions prohibited by property tax consultants. A registered senior property tax consultant may not supervise more than 10 registered property tax consultants unless the tax consultant sponsored or supervised has been employed as a tax consultant on a full-time basis, performed tax consultant-related services as an employee of a property owner or performed licensed appraisal services for the previous six months. A property tax consultant may also not file a protest under Chapter 41 without approval of a property owner; may not falsify an agent appointment, exemption application, protest or other legal document; and may not file a motion or protest concerning residential property on behalf of a person whom the registrant does not represent, unless the registrant has authorization from that person or another person, agent or firm authorized by the person to designate agents.

Effective Jan. 1, 2010.

Section 1152.232

HB 2591 adds this section to prohibit a person required to register under this chapter from soliciting a property tax consulting assignment by assuring a specific outcome.

Effective Jan. 1, 2010.

Section 1152.233

HB 2591 adds this section to prohibit a person required to register under this chapter from maintaining a Web site for any purpose associated with the provision of tax consulting services by the registrant that has a domain name or other Internet address that implies that the Web site is a government Web site and from maintaining a Web site for the purpose of soliciting clients if the Web site does not identify the company prominently on the homepage.

Effective Jan. 1, 2010.

Section 1152.234

HB 2591 adds this section to prohibit a person required to register under this chapter from engaging the services of an attorney for purposes of filing an appeal under Chapter 42 without prior consent of the client.

Effective Jan. 1, 2010.

Section 1201.217

HB 2238 amends subsection (d) to clarify how a lien is perfected on a manufactured home and specifies that the tax lien shall be filed by the tax collector for any taxing unit having the power to tax the manufactured home.

Effective Sept. 1, 2009.

Texas Constitution

Section 1, Article VIII

HJR 36 would amend Section 1, Article VIII to authorize the Legislature to provide for taxation on residence homesteads to be based on value solely as a residence and not according to "highest and best use" of the property. This amendment will be put before voters in an election to be held on Nov. 3, 2009.

Section 18, Article VIII

HJR 36 would amend Section 18(c), Article VIII to authorize the Legislature to allow for a single board of equalization (ARB) for two or more adjoining appraisal entities that elect to have consolidated equalizations. This amendment will be put before voters in an election to be held on Nov. 3, 2009.

Section 23(b), Article VIII

HJR 36 repeals the existing requirements that enforcement of uniform appraisal procedures originate in the county where the tax is imposed. Instead that would be prescribed by general law.

Property Tax Information Services
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Texas Property Tax Law Changes 2011

Property Tax Assistance • September 2011

Property Tax Bills:

82nd Texas Legislature, Regular and First Called Session

This publication includes highlights of recent legislation relating to property tax. The highlights are general summaries and do not reflect the exact or complete text of the legislation highlighted. Not all legislation impacting property tax is addressed. Please be advised that this information is being provided solely as an informational resource. The information provided is not intended for use in lieu of, or as a substitute for, the legislation referenced herein and should not be relied upon as such. Additionally, the information provided neither constitutes nor serves as a substitute for legal advice. Questions regarding the meaning or interpretation of any information included or referenced herein should, as appropriate or necessary, be directed to an attorney or other appropriate counsel.

Table of Contents

Chapter 1. General Provisions	2
Chapter 5. State Administration.....	2
Chapter 6. Local Administration.....	3
Chapter 11. Taxable Property and Exemptions.....	4
Chapter 22. Renditions and Other Reports.....	6
Chapter 23. Appraisal Methods and Procedures	7
Chapter 25. Local Appraisal	10
Chapter 26. Assessment	11
Chapters 31–34. Collections and Delinquency	12
Chapter 41. Local Review	14
Chapter 42. Judicial Review	15
Chapter 111. Collection Procedures.....	16
Chapter 311. Tax Increment Financing.....	16
Business Organizations Code.....	19
Civil Practices and Remedies Code.....	19
Education Code.....	19
Election Code.....	20
Finance Code.....	21
Government Code	21
Health and Safety Code.....	26
Local Government Code	27
Occupations Code	28
Penal Code	31
Property Code	31
Transportation Code	33
Water Code	36
Session Law.....	36
Texas Constitution	36

The following acronyms are used in this document:

ARB	appraisal review board
CAD	county appraisal district
CASS	Coding Accuracy Support System
1st CS	First Called Session
HB	House Bill
HJR	House Joint Resolution
SB	Senate Bill
SJR	Senate Joint Resolution
SOAH	State Office of Administrative Hearings
TALCB	Texas Appraiser Licensing and Certification Board
TCEQ	Texas Commission on Environmental Quality
TDHCA	Texas Department of Housing and Community Affairs
TDLR	Texas Department of Licensing and Regulation
TxDOT	Texas Department of Transportation

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Chapter 1. General Provisions

Section 1.07

HB 843 amends subsection (a) to allow an official or agency to deliver a required notice by a method other than regular prepaid first class mail, if another provision of the Property Tax Code requires or authorizes (formerly only “requires”) a different method of delivery.

Effective January 1, 2012.

Section 1.085

HB 3216 amends subsection (a) to add CADs and ARBs to the entities that may agree to communicate electronically, and specifies that any combination of the named entities may communicate electronically.

The bill amends subsection (b) to allow an agreement between a chief appraiser and a property owner or the property owner’s designee to be communicated electronically, and requires the agreement to be signed by the property owner (or designee) in a form acceptable to the chief appraiser.

The bill amends subsection (d) to provide that an agreement for electronic communication remains in effect until rescinded in writing by the property owner or property owner’s designee.

The bill amends subsection (f) to allow a chief appraiser to determine the medium, format, content and method to be used in electronic communication if the Comptroller has not prescribed these items.

The bill amends subsection (g) to except any CAD located in a county with a population of 200,000 or less from electronic delivery of notices of appraised value.

The bill adds subsections (h), (i), (j), (k) and (l) to:

- require the chief appraiser to publicize the availability of electronic communication agreement forms;
- require a property owner or designee to notify the CAD of a change in electronic email address;
- provide that, unless required under this section, a decision by the chief appraiser not to enter into an electronic communication agreement may not be reviewed by the ARB and

is not subject to protest, a suit to compel, a district court appeal or an Occupations Code complaint;

- provide for confirmation of receipt of electronic communication; and
- make other changes to this section to facilitate electronic communication.

Effective September 1, 2011.

Section 1.111

HB 1887 amends subsection (j) to require ARBs and CADs to send notices regarding a property subject to a protest to a person who is exempt from registration as a property tax consultant and is filing a protest on behalf of a property owner if that exempt person is not supervised, directed or compensated by a person required to register as a property tax consultant. If the exempt individual is not designated by the property owner to receive notices, tax bills, orders and other communications, he or she is required to file a statement with the protest that includes identifying information, the basis for a request for exemption from registration and a statement that the individual is acting on behalf of the property owner.

Effective September 1, 2011.

HB 3216 amends subsection (b) to require each CAD in a county with a population of 500,000 or more to implement a system that allows the designation of a property tax agent to be signed and filed electronically.

The bill adds subsection (k) to require that, on written request by the chief appraiser, an agent who electronically submits a designation of agent form must provide the chief appraiser with the electronic signature of the person who signed the form, the date on which the person signed the form and the Internet Protocol address of the computer the person used to complete the form.

The bill adds subsection (l) to prohibit false entries in, or false alterations of, signed designation of agent forms.

Effective September 1, 2011.

Chapter 5. State Administration

Section 5.041

HB 1887 amends subsections (c) and (e-3) to prohibit chief appraisers, CAD staff, CAD board of directors, and members of ARBs from providing ARB training.

Subsection (g) is added to prohibit communications concerning the Comptroller’s training course or any matter presented or discussed during the course from the following individuals:

- a chief appraiser,
- a CAD employee,
- a member of the CAD board of directors,

- a taxing unit officer or a taxing unit employee and
- attorneys who represent (or whose firm represents) the CAD or a taxing unit that participates in the CAD for which the ARB is established.

The bill amends subsection (e-1) to require the Comptroller to provide a detailed explanation of Tax Code Section 25.25 in the continuing education course. The bill adds subsection (h) to provide that an ARB may retain a certified appraiser for instruction on valuation methods if the CAD budgets for the instruction.

Effective September 1, 2011.



Section 5.05

SB 1 (1st CS) amends subsection (c) to repeal the requirement that the Comptroller provide certain publications without charge to local government officials who are responsible for administering the property tax system. The Comptroller must publish electronically these materials and may charge for the costs of preparing, printing and distributing these materials.

Effective September 28, 2011.

Section 5.06

SB 1 (1st CS) amends subsection (a) to provide that the Comptroller electronically publish the taxpayer remedies pamphlet. The bill repeals subsection (b).

Effective September 28, 2011.

Chapter 6. Local Administration

Section 6.05

HB 2387 amends subsection (d) to prohibit a chief appraiser from employing a general counsel for the CAD and adds subsection (j) to permit the board of directors to employ a general counsel. The general counsel serves at the will of the board, provides counsel directly to the board, performs other duties as assigned by the board, and is compensated through the budget adopted by the board.

Effective June 17, 2011.

Section 6.12

HB 361 amends subsection (b) to remove the requirement that one member of an agricultural advisory board be a representative of the county agricultural stabilization and conservation service and amends subsection (d) to require the board to meet at least once a year, rather than three times a year, at the call of the chief appraiser.

Effective September 1, 2011, but applies only to a member appointed on or after the effective date; does not affect the entitlement of a member serving on the board immediately before the effective date to continue to carry out the board's functions for the remainder of the member's term, and does not prohibit a qualified member of the board on the effective date from being reappointed to the board.

Section 6.28

HB 2104 amends subsection (c) to establish a minimum amount of \$2,500 for a county assessor-collector's bond for county taxes and to allow the commissioners court of a county with a population of 1.5 million or more to set the maximum amount of the bond in an amount greater than \$100,000.

The bill amends subsection (d) to except a county that has legally set the assessor-collector's bond for county taxes higher than \$100,000 from the requirement that the total of the state and county bonds not exceed \$100,000.

Effective September 1, 2011.

Section 5.09

SB 1 (1st CS) amends subsection (a) to require that the Comptroller biennially report the total appraised values and taxable values of property by category and the tax rates of each county, municipality and school district in effect for the two years preceding the year in which the report is prepared, rather than annually report on CAD operations.

The bill amends subsection (b) to require that the report be electronically published on the Comptroller's website not later than December 31 of each even-numbered year. Notification that the report is available on the website must be delivered to the governor, lieutenant governor, and legislature.

Effective September 28, 2011.

Section 6.41

HB 2702 amends subsection (d-1) to provide for appointment of ARB members by the local administrative judge in counties with a population of 550,000 (previously 350,000) or more that are adjacent to a county with a population of 3.3 million or more.

Effective September 1, 2011.

Section 6.411

HB 1887 amends subsection (a) to make a communication between an ARB member and a member of the CAD board of directors in violation of Section 41.66(f) a Class A misdemeanor.

The bill also amends subsection (b) to prohibit communications with an ARB member with the intent to influence an ARB decision by the following persons:

- a chief appraiser,
- an employee of the CAD,
- a member of the CAD board of directors or
- a property tax consultant or attorney representing a party to an ARB proceeding.

The bill amends subsection (c-1) to permit communications involving a chief appraiser, CAD employee or a member of the board of directors with an ARB member (1) during a hearing on a protest or other proceeding before the ARB; (2) that constitutes social conversations; or (3) about certain administrative and procedural matters related to ARB operations and appointments.

Effective September 1, 2011, but applies only to an offense committed on or after the effective date.

Section 6.412

HB 1887 amends subsection (a) to include individuals related to a member of the CAD's board of directors within the third degree by consanguinity (blood relationship) or within the



second degree by affinity (relationship by marriage) in the list of individuals who are ineligible to serve on an ARB.

Effective September 1, 2011.

Section 6.414

HB 896 adds this section to allow a CAD board to appoint auxiliary ARB members to hear taxpayer protests. A majority of the CAD board may select by resolution the number of auxiliary ARB members.

Auxiliary board members are appointed in the same manner and for the same term as regular board members and are subject to the same eligibility requirements. Auxiliary board members may hear taxpayer protests before the ARB and serve on hearing panels. Auxiliary board members are considered regular board members for all purposes related to the conduct of their hearings. They may not vote on any ARB determination, may not be counted toward a quorum and may not serve as chairman or secretary of the ARB.

Effective June 17, 2011, but applies only to the appointment of an auxiliary member of an ARB for a term beginning on or after January 1, 2012.

Section 6.43

HB 1887 amends subsection (a) to repeal the provision allowing the ARB to use the staff of the appraisal office for clerical assistance and adds subsection (f) to authorize the appraisal office

to provide clerical assistance to the ARB, including scheduling and arranging hearings.

The bill adds subsection (b) to prohibit an attorney from serving as legal counsel for an ARB if, within the prior year, the attorney or any member of the attorney's law firm represented the CAD, a property owner in the CAD or a taxing unit in the CAD in certain matters. The bill adds subsection (c) to provide that the county attorney may provide legal services to the ARB even if that attorney or an assistant attorney represents or has represented the CAD or a taxing unit in any matter.

The bill adds subsection (d) to prohibit an attorney who serves as legal counsel for an ARB from acting as an advocate in a hearing or proceeding conducted by the board. That attorney may, however, provide advice to the board during a hearing and is required to disclose all legal authority in the controlling jurisdiction known to the attorney to be relevant and not disclosed by the parties. The bill requires the ARB's attorney to disclose a material fact that may assist the board in making an informed decision, even if the fact is adverse to a party.

The bill adds subsection (e) to permit a CAD to specify in its budget whether the ARB is required to use the county attorney or may employ legal counsel, but prohibits a CAD from requiring the employment of a specific attorney. Reasonable compensation must be provided in the budget for the ARB's legal counsel if such employment is authorized.

Effective September 1, 2011.

Chapter 11. Taxable Property and Exemptions

Section 11.11

HB 1201 amends subsection (j) to repeal the reference to the Trans-Texas Corridor.

Effective June 17, 2011.

Section 11.131

SB 516 adds subsection (c) to provide a property tax exemption of the total appraised value to the surviving spouse of a 100 percent or totally disabled veteran for the same property to which the disabled veteran exemption applied. This surviving spouse is entitled to the exemption if he or she has not remarried since the death of the disabled veteran and the property was the residence homestead of the surviving spouse when the disabled veteran died and remains the residence homestead of the surviving spouse.

Subsection (d) is added to provide that, if a surviving spouse qualifies for the exemption and then subsequently qualifies a different property as a residence homestead, the surviving spouse is entitled to an exemption in an amount equal to the dollar amount of the exemption of the former homestead in the last year in which the surviving spouse received an exemption. To receive an exemption in a subsequent residence homestead, the surviving spouse cannot have remarried since the death of the disabled veteran. The bill provides for the chief appraiser of the CAD in which the surviving

spouse's former residence homestead was located to provide the surviving spouse a written certificate so that the amount of the exemption in the subsequent qualified household can be determined.

Subsection (a) is amended to define "surviving spouse" as the individual who was married to a disabled veteran at the time of the veteran's death.

Effective January 1, 2012, contingent on voter approval of SJR 14, but applies only to a tax year beginning on or after January 1, 2012.

Section 11.18

SB 1303 amends subsection (d) and (p) to make a technical correction by renumbering subsections.

Effective September 1, 2011.

HB 2702 amends subsection (p) to increase the population bracket to more than 750,000 and less than 850,000 (formerly 600,000 and 700,000, respectively).

Effective September 1, 2011.

Section 11.181

HB 3133 amends subsection (b) to prohibit the exemption of certain property that received an exemption under Section 11.1825 and that was subsequently transferred to an organization



described by this section. Property may not be exempted under subsection (a) after the fifth anniversary of the date on which the transferring organization acquired the property.

Effective June 17, 2011, but applies to the taxation of real property beginning with the 2011 tax year.

Section 11.1825

HB 3133 amends subsection (f) to provide that an exemption under this section may be granted for multifamily and single-family housing.

The bill adds subsection (p-1) to provide that the transfer of property from an organization described by this section to a nonprofit organization that claims an exemption for the property under Section 11.181(a) is a proper use of and purpose for owning the property under this section.

The bill amends subsection (q) to require the chief appraiser to use the income method of appraisal described by Section 23.012 regardless of whether the chief appraiser considers that method to be the most appropriate method.

Effective June 17, 2011, but applies to the taxation of real property beginning with the 2011 tax year.

HB 2702 amends subsection (s) and (v) to increase the population minimums to 1.8 million (formerly 1.4 million).

Effective September 1, 2011.

Section 11.1827

SB 402 adds this section to provide a local option property tax exemption for land owned by a community land trust created or designated under Local Government Code Section 373B.002, together with housing units located on the land if the units are owned by the trust. The exemption must be adopted by the governing body of the taxing unit before July 1. To receive the exemption, the trust must meet certain requirements of a charitable organization under Sections 11.18 (e) and (f); own the land for the purpose of leasing it and selling or leasing housing units located on the land; and engage exclusively in the sale or lease of housing as provided in this section. This property cannot be exempted after the third anniversary of the date on which the trust acquires the property unless the trust is offering to sell or lease or is leasing the property as provided by Local Government Code 373B.

The section also provides a property tax exemption for any real or tangible personal property the trust owns and uses in the administration of its acquisition, construction, repair, sale or leasing of property. This property must be used exclusively by the trust, except for use by persons for activities incidental to the trust's use that benefit the beneficiaries of the trust.

To receive an exemption, a trust must have an annual independent audit with specified information and send that audit to specified local governments and the chief appraiser within a certain time period.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 11.253

SB 1 (1st CS) amends subdivision (a)(2) to modify the definition of "goods-in-transit" to mean tangible personal property stored under a contract of bailment by a public warehouse operator at one or more public warehouses that are not in any way owned or controlled by the owner of the personal property, rather than prohibiting direct or indirect ownership interest. The terms "assembling," "manufacturing," "processing" and "fabricating," are deleted from the definition as acceptable activities to qualify for the exemption.

The bill adds subdivision (a)(5) and (a)(6) to create the definitions for "bailee" and "warehouse," assigning the same meanings as in Business and Commerce Code Section 7.102, and defines "public warehouse operator" to mean a person who is both a bailee and a warehouse owner and stores tangible personal property owned by other persons solely for their account and not for the operator's account.

The bill modifies subsection (e) and (h) to make conforming changes.

To tax personal property that would otherwise qualify for the "goods-in-transit" exemption, the bill adds subsection (j-1) to require taxing units to take official action on or after October 1, 2011 after holding a public hearing. Official action to tax the property must be taken before January 1 of the first tax year in which the governing body proposes to tax the property. If such official action is taken, the property remains subject to taxation by that taxing unit until the unit by official action rescinds or repeals its previous action to tax the property.

Subsection (j-2) is added to allow taxing units to continue to tax "goods-in-transit" if the taxing unit took action to tax the property before October 1, 2011 and pledged those taxes to the payment of debt until the debt is discharged.

Effective January 1, 2012, but applies only to an ad valorem tax year that begins on or after January 1, 2012, except for provisions (j-1) and (j-2) relating to taxing units taking official action to tax goods-in-transit which are effective October 1, 2011.

Section 11.31

HB 2280 amends subsection (n) to require that at least one member of the advisory committee that advises TCEQ regarding determinations related to pollution control property tax exemptions be a representative of a school district or junior college district in which property is located that is or was subject to an exemption under this section.

Effective June 17, 2011.

Section 11.42

SB 201 adds subsection (e) to allow a person who qualifies for the 100 percent or totally disabled veteran exemption under Section 11.131 after January 1 of a tax year to receive the exemption for the applicable portion of that tax year immediately on qualification for the exemption.

Effective January 1, 2012, but applies only to an ad valorem tax year that begins on or after the effective date.



Section 11.43

SB 402 amends subsection (c) to add the exemption for community land trusts to those exemptions that do not have to be claimed in subsequent years once allowed until the ownership changes or the person's qualifications for the exemption changes.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year that begins on or after the effective date.

HB 645 amends subsection (f) to require that the exemption application forms prescribed by the Comptroller allow charitable organization applicants to provide the organization's federal tax identification number instead of a driver's license number, personal identification certificate number or Social Security account number.

Effective September 1, 2011 but applies only to an application for an exemption from ad valorem taxation of property owned by a charitable organization filed with a chief appraiser on or after September 1, 2011.

HB 252 amends subsection (j) to require that an applicant state that he or she does not claim an exemption on another residence homestead in or outside of Texas. A residence homestead exemption application must include a copy of a driver's license or state identification card and must include a vehicle registration receipt. If the applicant does not own a vehicle, he or she must provide an affidavit to that effect and a copy of a utility bill for the property in the applicant's name. The application must be signed by the applicant.

Subsection (n) is added to prohibit a chief appraiser from allowing a homestead exemption unless the addresses on the required forms of identification match and also match the address for which the exemption is claimed.

Subsection (o) is added to require that residence homestead applicants who are age 65 or older or disabled and who are not specifically identified on a deed or other recorded instrument must provide an affidavit or other compelling evidence of ownership.

Effective September 1, 2011, but applies only to a residence homestead exemption application filed on or after the effective date.

Section 11.431

SB 516 amends subsection (a) to require the chief appraiser to accept and approve or deny an application for an exemption under Section 11.131 for the surviving spouse of a disabled veteran after the deadline for filing has passed, if the application for the exemption is filed not later than one year after the delinquency date for the taxes on the homestead.

January 1, 2012, contingent on voter approval of SJR 14.

Section 11.432

HB 252 amends subsection (a) to add a payment receipt and a sworn affidavit to the types of acceptable documentation required to verify ownership of a manufactured home for the purpose of obtaining a residence homestead exemption. The sworn affidavit is required to state that the applicant is the owner of the manufactured home; the seller of the manufactured home did not provide the applicant with a purchase contract; and the applicant could not locate the seller after making a good-faith effort.

The bill amends subsection (a-1) to clarify that a CAD may rely on the computer records of TDHCA to verify an applicant's ownership of a manufactured home and that, if the CAD makes this verification, an applicant for a residence homestead exemption on a manufactured home is not required to submit the ownership documentation that would otherwise be required.

The bill amends subsection (b) to require that land on which a manufactured home is located may qualify as part of the residence homestead if it is owned by one or more individuals including the applicant. The applicant must occupy the manufactured home as his or her principal residence, and the applicant must own the mobile home as demonstrated by TDHCA computer records or owner documentation.

The bill amends subsection (c) to specify that an owner of land qualified as a residence homestead is entitled to obtain the homestead exemption and any other benefit granted under this title to the owner of a residence homestead, regardless of whether the applicant has elected to treat the manufactured home as real property or personal property. The manufactured home may also be listed as real or personal property or shown on the tax rolls with the real property to which it is attached.

Effective January 1, 2012, but applies only to a residence homestead exemption application filed on or after the effective date.

Chapter 22. Renditions and Other Reports

Section 22.01

HB 533 adds subsection (m) to provide that a person is not required to render personal property that is appraised under Section 23.24.

Effective June 17, 2011.

Section 22.28

HB 533 amends this section to require the chief appraiser to send a written notice by first-class mail informing a property owner when a penalty is imposed for failure to file a rendition timely; this notice may be delivered with a notice of appraised value. The bill requires the chief appraiser to certify to the assessor for



each taxing unit that a penalty imposed under this chapter has become final. The bill specifies that a penalty becomes final if:

- the property owner does not protest the penalty before the ARB;
- an ARB determination denies a penalty waiver and the owner does not appeal to district court;
- a district court judgment sustaining the determination has become final; or
- a court order that imposes the penalty has become final.

Effective June 17, 2011, but applies only to a penalty that is imposed under Section 22.28, Tax Code, on or after the effective date.

Section 22.30

HB 533 amends subsection (a) to remove the authorization of the chief appraiser to waive the penalty for fraud or intent to evade a tax under Section 22.29. The bill requires that a person send a chief appraiser a written request to waive a penalty imposed for failure to file timely a rendition or property report

before June 1 or not later than the 30th day after the date of receipt of the penalty notification, whichever is later. The chief appraiser is required to determine the penalty waiver request after considering several specified factors.

The bill adds subsection (a-1) and amends subsection (b) to:

- require the chief appraiser to send by first-class mail a written notification of denial of the waiver;
- allow the property owner to protest the imposition of the penalty to an ARB by filing written notification within a specified timeline; and
- require that the ARB, rather than the chief appraiser, determine the protest after considering several specified factors.

The bill amends subsection (c) to provide that Chapters 41 and 42 apply. Subsection (d) is added to authorize the chief appraiser and a protesting party to enter into a settlement agreement.

Effective June 17, 2011, but applies only to a penalty that is imposed under Section 22.28, Tax Code, on or after the effective date.

Chapter 23. Appraisal Methods and Procedures

Section 23.01

SB 1303 amends subsection (c) to make a technical correction by renumbering subsections.

Effective September 1, 2011.

Section 23.1211

HB 3727 adds this section to require the chief appraiser to determine the appraised value of a temporary production aircraft at 10 percent of the aircraft's list price according to the most recent edition of the International Bureau of Aviation Aircraft Values Board as of January 1. The bill defines a temporary production aircraft as an aircraft:

- that is a transport category aircraft as defined by federal aviation regulations;
- for which a Federal Aviation Administration special airworthiness certificate has been issued;
- that is operated under a Federal Aviation Administration special flight permit;
- that has a maximum takeoff weight of at least 145,000 pounds; and
- that is temporarily located in this state for purposes of manufacture or assembly.

The bill also defines maximum takeoff weight of an aircraft. The bill adds a legislative finding that there is a lack of information that reliably establishes the market value of temporary production aircraft; accordingly, the Legislature enacted this section to be used in determining the appraised value of such aircraft.

Effective September 1, 2011, but applies only to ad valorem taxes imposed for a tax year beginning on or after January 1, 2012.

Section 23.1241

HB 2476 amends subsection (a) to modify the following definitions so that:

- “dealer” includes a person in the business of leasing or renting heavy equipment;
- “dealer’s heavy equipment inventory” includes equipment held for lease or rent during a 12-month period (rather than leased or rented subject to a purchase option);
- the weight threshold for heavy equipment is at least 1,500 pounds (rather than at least 3,000 pounds);
- the sales price for leased or rented heavy equipment is the total of the lease or rental payments;
- “subsequent sale” excludes a rental or lease with an unexercised purchase option or without a purchase option; and
- “total annual sales” includes lease and rental payments received for each lease or rental of heavy equipment inventory in a 12-month period.

The bill amends subsection (b) to strike language providing that a sale occurs when possession of an item of heavy equipment is transferred from the dealer to the purchaser.

The bill adds subsection (b-1) to provide that, for the purpose of computing the property tax, after an item of heavy equipment is leased or rented for a portion of the preceding tax year and sold in that year, the sales price of that heavy equipment is the sum of the sales price of the item plus the total lease and rental payments received for the item in the preceding tax year.

The bill amends subsection (c) to add a presumption that a dealer is an owner of heavy equipment inventory on January 1 if, in the preceding year, the dealer leased or rented heavy equipment to a person other than a dealer.



The bill amends subsection (j) to allow rather than require the appropriate district attorney, criminal district attorney or county attorney to collect the penalty for failure to file or timely file a required declaration. The chief appraiser is allowed to collect the penalty in the name of the chief appraiser and the chief appraiser or the appropriate attorney named above may sue to enforce compliance with the filing requirements. The venue for an action for injunctive relief is in the county in which the violation occurred or in the county in which the owner maintains a principal place of business or residence. The court may award attorney's fees to a chief appraiser or any of the attorneys named above who prevail in a suit to collect a penalty or enforce compliance with the filing requirements.

The bill repeals subsection (i), which specified that failure to file a dealer's heavy equipment inventory declaration is a misdemeanor offense punishable by a fine of up to \$500 per day.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 23.1242

HB 2476 amends subsection (b) to require the owner of heavy equipment to assign a unit property tax to each item of heavy equipment that is leased or rented. The bill provides the unit property tax calculation method for leased or rented heavy equipment. If a transaction is a lease or rental, the owner is required to collect the unit property tax from the lessee or renter at the time the lessee or renter submits payment for the lease or rental. The owner is required to state the amount of the unit property tax as a separate line item on an invoice. The bill provides for the owner to deposit with the tax collector the unit property tax for leased or rented equipment along with the unit property tax for sold equipment.

The bill amends subsection (d) to provide an exception for withdrawing funds from the owner's escrow account.

The bill amends subsection (e) to require a heavy equipment dealer to complete the dealer's heavy equipment inventory tax statement form adopted by Comptroller rule regardless of whether the heavy equipment is sold, leased or rented.

The bill amends subsection (f) to include leased or rented heavy equipment in the requirements regarding a dealer's filing of the dealer's heavy equipment inventory tax statement.

The bill repeals subsection (l), which specified that failure to file a dealer's heavy equipment inventory tax statement is a misdemeanor offense punishable by a fine of up to \$100 per day.

The bill amends subsection (m) to allow rather than require the appropriate district attorney, criminal district attorney or county attorney to collect the penalty for failure to file or timely file the dealer's heavy equipment inventory tax statement. The chief appraiser is allowed to collect the penalty in the name of the chief appraiser and the chief appraiser or the appropriate attorney named above may sue to enforce compliance with the filing requirements. The venue for an action for injunctive relief is in the county in which the violation occurred or in

the county in which the owner maintains a principal place of business or residence. The court may award attorney's fees to a chief appraiser or any of the attorneys named above who prevail in a suit to collect a penalty or enforce compliance with the filing requirements.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 23.1243

HB 2476 adds this section to permit a dealer to apply to the chief appraiser for a refund of property taxes paid on a fleet transaction sale. The bill provides procedures for this refund.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 23.129

SB 1385 adds this section to authorize a chief appraiser to waive penalties for failing to file or timely file an inventory declaration for a dealer's motor vehicle inventory, dealer's heavy equipment inventory or retail manufactured housing inventory. The bill also allows a collector to waive penalties for failing to file or file timely inventory tax statements for this inventory. The chief appraiser or collector can waive these penalties only if the taxpayer's failure to file or timely file the declaration or statement was because of a natural disaster that made it effectively impossible for the taxpayer to comply with the filing requirement or an event beyond the control of the taxpayer that destroyed the taxpayer's property or records. A penalty may only be waived if the taxpayer is otherwise in compliance with Chapter 23 and the taxpayer seeking the waiver files a written application with the chief appraiser or collector, as applicable, not later than the 30th day after the date the declaration or statement, as applicable, was required to be filed.

Effective September 1, 2011.

Section 23.175

SB 1505 amends subsection (a) to require the chief appraiser (rather than the Comptroller) to calculate a price adjustment factor to be multiplied by the previous year's average price of oil or natural gas. The resulting price must be used in the first year of an income appraisal. The price adjustment factor is based on oil and natural gas prices projected by the U.S. Energy Information Administration (EIA) and must be calculated by dividing the forecasted current year price by the previous year's price published by the EIA.

The bill limits the escalation or de-escalation of oil or natural gas prices in the appraisal to the second through the sixth year of the appraisal, and prohibits the escalation or de-escalation from exceeding the average annual percentage change from 1982 through the most recent year in the producer price index for domestically produced petroleum or for natural gas, as applicable, as published by the Bureau of Labor Statistics of the U.S. Department of Labor.



Subsection (b) and (c) are amended to require the Comptroller to include in the appraisal manual the formula to be used in computing the escalation or de-escalation rate and to require each appraisal office to use the specified formula.

Effective January 1, 2012, but applies only to the appraisal for ad valorem tax purposes of a real property interest in oil or gas in place for a tax year beginning on or after the effective date.

Section 23.21

HB 3133 adds subsection (c) to require the chief appraiser to take into account the extent to which use, limitation, and resale restrictions reduce the market value of certain low-income housing property.

Effective June 17, 2011.

SB 402 adds subsection (c) and (d) to require a chief appraiser to take into account the extent to which the use and limitation of land or a housing unit leased by a community land trust reduces the market value of the property. The chief appraiser also must consider the extent to which the market value of a housing unit acquired from a trust (by the owner or a predecessor) is reduced by any regulations or restrictions that limit the right of the housing unit owner to sell a housing unit, including limitations on the price for which the unit may be sold, when that unit is located on land owned by the trust and leased by the owner of the housing unit.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 23.51

SB 449 amends subdivision (2) to provide that the term “agricultural use” includes water stewardship for the purpose of open-space land appraisal. Subdivision (9) provides that water stewardship means actively using land that, at the time the water stewardship began, was appraised as qualified open-space land or as qualified timber land in at least three of nine specified activities to promote and sustain water quality and conservation of water resources.

Effective January 1, 2012, contingent on voter approval of SJR 16. Applies only to the appraisal for a tax year that begins after the tax year in which the Comptroller adopts rules and distributes those rules to each CAD.

SB 1 (1st CS) amends subdivision (2) to provide that the term “agricultural use” includes the use of land to raise or keep bees for pollination or for the production of human food or other tangible products having a commercial value, provided that the land used is not less than five or more than 20 acres.

Effective September 28, 2011, but applies only to the appraisal of land for ad valorem tax purposes for a tax year that begins on or after the effective date.

Section 23.52

SB 449 amends subsection (g) to provide that, for land that qualifies for water stewardship, the category of the land is the category before water stewardship use began.

Effective January 1, 2012, contingent on voter approval of SJR 16. Applies only to the appraisal for a tax year that begins after the tax year in which the Comptroller adopts rules and distributes those rules to each CAD.

Section 23.5215

SB 449 adds this section to require the Texas Parks and Wildlife Department, with the assistance of the Comptroller, to develop standards to determine whether land qualifies for water stewardship appraisal. On request by the department or the Comptroller, the Texas AgriLife Extension Service is required to assist in developing these standards. The Comptroller is required by rule to adopt these standards or adopt alternative standards and distribute those rules to each CAD. The Comptroller is required to designate a chief appraiser from a rural area and an urban area of this state to assist in the development of the standards.

These standards must:

- require the tract of land be at least a specified minimum size and not more than a specified maximum size;
- require the land to possess specific water-related attributes based on intensity of use;
- require owners to hold a water right that authorizes the use of a specified minimum amount of water for instream flows;
- specify the degree to which the land may be developed without becoming ineligible;
- address qualifying activities, regions in this state and any other relevant factor determined by the department or the Comptroller; and
- limit eligibility to the portion of land currently devoted principally to water stewardship purposes.

In addition, these standards may include a request from the chief appraiser for a written management plan developed by the landowner. To determine whether land qualifies for water stewardship appraisal, the chief appraiser and ARB must apply the standards and, to the extent they do not conflict with those standards, the appraisal manuals developed and distributed under Section 23.52 (d).

Effective January 1, 2012, contingent on voter approval of SJR 16. Applies only to the appraisal for a tax year that begins after the tax year in which the Comptroller adopts rules and distributes those rules to each CAD.

Section 23.55

HB 3133 amends subsection (p) to provide that, except for counties and school districts, the change of use sanctions do not apply to real property transferred to an organization described by Section 11.181 (a) if the organization converts the real property to a use for which the real property is eligible



for an exemption under that provision. Counties and school districts may waive their exception.

Effective June 17, 2011, but applies only to a transfer of real property that occurs on or after the effective date.

Section 23.56

SB 449 amends subsection (a) to provide that land located inside the corporate limits of an incorporated city or town is eligible for open-space appraisal if it is used for water stewardship and has been devoted principally to agricultural use or timber production or forest products continuously for the preceding five years.

The bill adds subsection (b) to provide that land is not eligible for appraisal based on water stewardship if it was appraised as open-space or timber land when the water stewardship use began and is developed to a degree that precludes the land from

eligibility for appraisal under Subchapter D or E on a basis other than use for water stewardship.

Effective January 1, 2012, contingent on voter approval of SJR 16. Applies only to the appraisal for a tax year that begins after the tax year in which the Comptroller adopts rules and distributes those rules to each CAD.

Section 23.60

SB 449 amends subsection (a) to provide that a provision relating to the reappraisal of land due to a temporary quarantine for ticks does not apply to land used for water stewardship.

Effective January 1, 2012, contingent on voter approval of SJR 16. Applies only to the appraisal for a tax year that begins after the tax year in which the Comptroller adopts rules and distributes those rules to each CAD.

Chapter 25. Local Appraisal

Section 25.025

HB 1046 amends subsection (a) to add to the list of individuals for whom appraisal information identifying their home address is confidential. The bill adds a current or former employee of the Attorney General's Office who is or was assigned to a division of that office involved in law enforcement.

Effective June 17, 2011.

HB 3307 amends subsection (a) to add to the list of individuals for whom appraisal information identifying their home address is confidential. The bill adds a current or former U.S. attorney or assistant U.S. attorney and the spouse and child of the attorney.

Effective June 17, 2011.

Section 25.026

HB 2329 amends subsection (a) to define "victims of trafficking shelter center" as a program that is operated by a public or private nonprofit organization and provides comprehensive residential and nonresidential services to victims of the trafficking of persons under Penal Code Section 20A.02.

The bill amends subsection (b) to include the address of a victims of trafficking shelter center in the specified addresses for which information in appraisal records is confidential and available only for the official use of the CAD, the state, the Comptroller, taxing units and political subdivisions of this state, if the information identifies the address.

Effective September 1, 2011.

Section 25.06

HB 1201 amends subsection (c) to remove references to the Trans-Texas Corridor.

Effective June 17, 2011.

Section 25.07

HB 1201 amends subsection (c) to remove references to the Trans-Texas Corridor.

Effective June 17, 2011.

Section 25.08

HB 252 adds new subsection (g) to require the chief appraiser to apportion a residence homestead exemption on property consisting of separately listed land and a manufactured home on a pro rata basis, based on the appraised value of the land and the manufactured home.

Effective January 1, 2012, but applies only to an apportionment of a residence homestead exemption for a tax year beginning on or after the effective date.

Section 25.25

HB 1887 and **SB 1441** amend subsection (c) to permit ownership corrections to the appraisal roll.

Effective September 1, 2011 (HB 1887 and SB 1441). SB 1441 applies only to a motion to correct an appraisal roll filed on or after the effective date while HB 1887 applies only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

HB 1887 and **HB 2220** amend subsection (e) to require a property owner who files a motion to correct an appraisal roll to comply with the payment requirements of Section 25.26 (rather than 42.08) or forfeit the right to a final determination of the motion.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

HB 1887 and **SB 1404** amend subsection (g) to increase the period of time that a property owner or the chief appraiser



may file lawsuits from 45 to 60 days after receiving notice of a determination by the ARB.

Effective June 17, 2011 (SB 1404). Effective September 1, 2011 (HB 1887). HB 1887 applies only to a motion to correct an appraisal roll or a protest filed on or after the effective date while SB 1404 applies to a suit to compel an ARB to order a change in an appraisal roll filed on or after the effective date.

HB 1887 and **HB 2220** amend subsection (g) to allow a property owner or chief appraiser to file lawsuits concerning compliance with Section 25.26.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply to a motion to correct an appraisal roll or a protest filed on or after the effective date.

SB 1341 amends subsection (g) to prohibit a taxing unit from being made a party to a suit filed by a property owner or chief appraiser under this subsection.

The bill adds subsections (g-1) and (g-2) to provide for the mailing of hearing notices to the collector for each taxing unit that imposes taxes on the property not later than the 45th day before the hearing concerning compliance with Section 42.08. A taxing unit may intervene in such suits and participate in the proceedings for the limited purpose of determining the property owner's compliance.

Effective May 20, 2011, but applies only to a suit under subsection (g) that is filed on or after the effective date and subsection (g-2) applies to a suit under subsection (g) that is filed on or after the effective date or is pending on the effective date.

Chapter 26. Assessment

Section 26.05

SB 1 (1st CS) amends subsection (a)(1) to provide that school districts must use the calculated (rather than the published) debt rate as one of the required components of the adopted tax rate.

Effective September 28, 2011.

Section 26.08

SB 1 (1st CS) clarifies subsection (i) by deleting state funds that will be distributed to the school district under Education Code Section 42.2516 from the school district effective tax rate calculation. The subsection continues to require the inclusion of state funds distributed to the school district under Education Code Chapter 42 in the effective tax rate calculation.

The bill repeals subsections (i-1) and (j) regarding certain specifications related to the effective tax rate calculation.

Effective September 1, 2017.

SB 1303 amends subsection (p) to replace the phrase "the district adopted" with "a school district adopted."

Effective September 1, 2011.

Section 25.26

HB 1887 and **HB 2220** add this section to provide that delinquency dates for property taxes are unaffected by pending motions filed under Section 25.25. The delinquency date applies, however, only to the amount of taxes that are not in dispute. If the property owner pays the taxes not in dispute, the delinquency date for any additional amount of taxes due on the property is determined under Section 42.42(c) and that additional amount is not delinquent before that date.

The bill requires that a property owner who files a motion under Section 25.25 must, before the delinquency date, pay the amount of taxes due on the portion of the taxable value of the property that is the subject of the motion and that is not in dispute, or forfeit the right to proceed to a final determination. The ARB may excuse this requirement based on an oath of inability to pay.

The bill provides that a property owner who pays an amount of taxes greater than required does not forfeit the right to a final determination of the motion by making the payment. If the property owner makes a timely motion under Section 25.25, taxes paid on the property are considered paid under protest, even if paid before the motion is filed.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

Section 26.09

SB 551 amends this section to provide that back taxes assessed do not incur interest on an improvement to real property that escaped taxation if, for that year, the land on which the improvement is located did not escape taxation. The CAD must have actual or constructive notice of the improvement (a building permit for the improvement is issued by an appropriate governmental entity). The property owner must also pay all back taxes not later than the 120th day after the date the tax bill for the back taxes for the improvement is sent.

For an appeal regarding back taxes for an omitted improvement that is in binding arbitration under Chapter 41A or under judicial review in Chapter 42 that is pending during this deadline, the property owner is considered to have paid the back taxes by that date if he or she pays the amount of undisputed taxes.

Effective September 1, 2011, but applies only to an omitted improvement included in a tax bill that is first sent to the property owner on or after the effective date.

Section 26.10

SB 201 adds subsection (c) to provide a calculation for the taxes due on a residence homestead when the appraisal roll



shows that the disabled veteran exemption under Section 11.131 terminated during the year. The tax due is the product of the amount of taxes that otherwise would be imposed for the entire year had the individual not qualified for the exemption, multiplied by a fraction, the denominator of which is 365 and the numerator of which is the number of days that elapsed after the date the exemption terminated.

Effective January 1, 2012, but applies only to an ad valorem tax year that begins on or after the effective date.

Section 26.1125

SB 201 adds this section to provide a calculation for the taxes due on a residence homestead if a person qualifies for the disabled veteran exemption under Section 11.131 after the beginning of a tax year. The tax due for the tax year is the product of the amount of taxes that otherwise would be imposed for the entire year had the individual not qualified for the exemption, multiplied by a fraction, the denominator of which is 365 and the numerator of which is the number of days that elapsed before the date the person qualified for the exemption.

If a person qualifies for an exemption under Section 11.131 after the tax due is calculated, and the qualification would reduce the amount of the tax due, the tax assessor-collector for each taxing unit must recalculate the amount of the tax due on the property and correct the tax roll. If a tax bill has been mailed but not paid, the assessor-collector would have to mail a corrected tax bill to the person in whose name the property is listed on the tax roll, or to the person's authorized agent. The assessor-collector for the taxing unit has to refund paid taxes by

the amount by which the payment exceeded the tax due if the tax on the property has been paid.

Effective January 1, 2012, but applies only to an ad valorem tax year that begins on or after the effective date.

Section 26.16

HB 2338 amends this section to require the county assessor-collector for each county that maintains an Internet website to post on the county website the following information for the most recent five tax years, beginning with the 2012 tax year, for each taxing unit all or part of which is located in the county:

- the adopted tax rate;
- the maintenance and operations rate;
- the debt rate;
- the effective tax rate;
- the effective maintenance and operations rate; and
- the rollback tax rate.

Each taxing unit is required to provide the specified information to the county assessor-collector annually following the adoption of a tax rate by the taxing unit for the current tax year. The bill requires this information to be presented in a table under the heading "Truth in Taxation Summary." The county assessor-collector must post immediately below the table a prescribed statement describing the table and defining each element in the table. The Comptroller is required to prescribe by rule the manner in which the information is required to be presented.

Effective September 1, 2011.

Chapters 31–34. Collections and Delinquency

Chapter 31

Section 31.01

SB 551 adds subsection (c-2) to provide that, for a tax bill that includes back taxes on an improvement that escaped taxation in a prior year, the tax bill or the separate statement accompanying the tax bill must state that no interest is due on the back taxes if those back taxes are paid not later than the 120th day after the date the tax bill is sent.

Effective September 1, 2011, but applies only to an omitted improvement included in a tax bill that is first sent to the property owner on or after the effective date.

HB 843 amends subsection (g) to provide that failure to send or receive a tax bill when delivered electronically does not affect the validity of the tax, penalty, interest, the due date, the existence of a tax lien or any other procedure instituted to collect a tax.

The bill amends subsection (i-1) to provide that, if an assessor delivers a tax bill by electronic means to a mortgagee of a property, the assessor is not required to mail or deliver by electronic means a copy of the bill to any mortgagor or to the mortgagor's authorized agent.

Subsection (j) is amended to specify that, if a tax bill is delivered by electronic means to a mortgagee of a property, the mortgagee shall mail a copy of the bill to the owner of the property not more than 30 days following the mortgagee's receipt of the bill.

The bill adds subsection (k) to require an assessor for a taxing unit to send tax bills by electronic means if, on or before September 15, the individual or entity entitled to receive the tax bill and the assessor enter into an agreement for the delivery of a tax bill by electronic means. An assessor who enters into such an agreement is not required to mail the tax bill by regular mail. The bill specifies the form and content of the agreement and requires that the agreement remain in effect for all subsequent tax bills until revoked in writing by an authorized individual.

The bill adds subsection (l) to authorize the Comptroller to prescribe acceptable media, formats, content and methods for the delivery of tax bills by electronic means, and to provide a model form agreement. The bill makes other conforming changes.

The bill conforms subsection (a) to added subsection (k) to provide another exception (electronic mail) to the requirement to mail tax bills.

Effective January 1, 2012.



Section 31.03

HB 2702 amends subsection (d) to increase the population brackets that define the single county to which the subsection applies.

Effective September 1, 2011.

Section 31.031

SB 1 (1st CS) amends subsection (a) to provide that the existing provision that allows for installment payments on residence homesteads applies to an unmarried surviving spouse of a disabled veteran who qualified for an exemption under Section 11.22.

Effective January 1, 2012 and applies only to an ad valorem tax year that begins on or after the effective date.

Section 31.032

SB 432 modifies subsection (c) to decrease from 12 percent to 6 percent the penalty incurred if a person fails to make an installment payment before the applicable date on real property in a disaster area.

Effective September 1, 2011, but applies only to the penalty for a failure to make a timely installment payment of taxes that occurs on or after the effective date.

Section 31.05

HB 2169 adds subsection (d) to authorize the governing body of a taxing unit to rescind a discount for property taxes paid by specified dates if the governing body had previously adopted the discount by official action. The rescission of a discount takes effect in the tax year following the year in which the discount is rescinded.

Effective June 17, 2011.

Chapter 32

Section 32.06

SB 762 amends subsection (a-3) to provide that, when a tax lien transfer has been authorized by a property owner for one or more prior years on the same property for both delinquent and non-delinquent taxes, a collector is authorized (rather than required) to certify in one document that the transferee has paid the delinquent and non-delinquent taxes, penalties and interest on behalf of the property owner.

Subsection (d-1) is amended to provide that the right of rescission under federal regulation 12 C.F.R. Section 226.23 applies to transfers of a tax lien on residential property owned and used by the property owner for personal, family or household purposes.

The bill adds subsection (e-1) to prohibit a transferee from charging a fee for any expenses arising after closing, including collection costs, except for specified fees and interest.

Subsection (e-2) is added to provide that a contract between the property owner and transferee may provide for interest

for default if any part of the installment remains unpaid after the 10th day after the date the installment is due, including Sundays and holidays. If a transferred lien is on certain residential property, the additional interest is capped at five cents for each \$1 of a scheduled installment.

The bill amends subsection (f-3) to provide that a transferee is not required to release payoff information unless the notice contains the information prescribed by the Texas Finance Commission.

Subsection (j) is amended to strike a provision regarding attorney's fees.

Effective September 1, 2011, but applies only to the transfer of an ad valorem tax lien that occurs on or after the effective date.

Chapter 33

Section 33.06

SB 5 adds subsection (g) to provide that, for the collection of deferred taxes on a residence homestead of an elderly or disabled person, if the ownership interest of an individual entitled to this deferral is a life estate, a lien for the deferred tax attaches to the estate of the life tenant (and not to the remainder interest) when the owner of the remainder is an institution of higher education that has not consented to the deferral. This subsection does not apply to a deferral for which a qualified individual filed an affidavit before September 1, 2011.

Effective June 17, 2011.

Section 33.08

HB 499 amends subsection (b) to permit a local government to charge an additional penalty on taxes that become delinquent to defray the cost of collecting the delinquent taxes.

Effective June 17, 2011, but applies only to additional penalties on taxes that become delinquent on or after the effective date.

Section 33.22

HB 930 amends subsection (c) to require a court to issue a tax warrant for seizure of personal property to satisfy a delinquent tax if the tax warrant applicant shows by affidavit that (in addition to other conditions in current law) the property is about to be sold at a liquidation sale in connection with the cessation of a business.

Effective June 17, 2011, but applies only to an application for a tax warrant filed on or after the effective date.

Section 33.445

SB 762 amends this section to provide that a property owner's authorization is not required for certain tax lien transfers from a taxing unit joined with tax lien transferees in a foreclosure suit to a transferee.

Effective September 1, 2011, but applies only to the transfer of an ad valorem tax lien that occurs on or after the effective date.



Section 33.52

HB 1118 conforms subsection (d) to new Section 34.05(k) by providing an exception to the provision that a taxing unit's claim for taxes that become delinquent after the date of the judgment is not affected by the entry of the judgment or a tax sale conducted under that judgment.

Effective June 17, 2011, but applies to real property sold to a taxing unit that is a party to a judgment to foreclose a tax lien regardless of whether the judgment was entered before, on, or after the effective date.

Chapter 34

Section 34.03

SB 886 amends subsection (c) to provide that local government records regarding tax sales can be stored electronically in addition to or instead of source documents in paper or other media.

Effective September 1, 2011.

Section 34.04

HB 1674 amends subsection (a) to include a Title IV-D agency as an entity allowed to file a petition claiming excess proceeds in a tax sale.

Effective September 1, 2011.

Section 34.05

HB 1118 adds subsection (j) to provide that, if property is sold to a taxing unit that is a party to a foreclosure judgment, the taxing unit may sell the property at a private sale for an amount equal to or greater than its market value as shown on the most recent certified appraisal roll if the sum of the amount of the judgment plus post-judgment taxes, penalties and interest exceeds the market value and each taxing unit entitled to receive proceeds of the sale consents to the sale for that amount.

The bill adds subsection (k) to provide that a sale under subsection (j) discharges and extinguishes all liens foreclosed by the judgment and, with the exception of the prorated tax for the current year, the liens for post-judgment taxes. The bill provides for the conveyance of the deed, remaining rights of redemption and other obligations. The deed must state that the liens foreclosed by the judgment and the post-judgment tax liens are discharged and extinguished by virtue of the conveyance.

The bill adds subsection (l) to provide that a taxing unit that does not consent to a sale under subsection (j) is liable to the taxing unit that purchased the property for a *pro rata* share of the costs incurred by the purchasing taxing unit for maintenance and other specified costs. The bill also specifies how the *pro rata* share is calculated.

Effective June 17, 2011, but applies to real property sold to a taxing unit that is a party to a judgment to foreclose a tax lien regardless of whether the judgment was entered before, on, or after the effective date.

Chapter 41. Local Review

Section 41.411

HB 1887 and **HB 2220** amend subsection (c) to require that a property owner who protests as provided by this section must comply with the payment requirements of Section 41.4115 (rather than 42.08) or forfeit his or her right to a final determination of the protest. The bill strikes the language requiring a postponement of the delinquency date to the 125th day after the date upon which one or more taxing units first delivered written notice of the taxes due on the property.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

Section 41.4115

HB 1887 and **HB 2220** add this section to provide that delinquency dates for property taxes are unaffected by pending protests filed under Section 41.411. The delinquency date applies, however, only to the amount of taxes that are not in dispute and is postponed to the 125th day after the date one or more taxing units first delivered written notice of the taxes due. If the property owner pays the taxes not in dispute, the delinquency date for any additional amount of taxes due on the property is determined under Section 42.42 (c) and that additional amount is not delinquent before that date.

The bills require that a property owner who files a protest under Section 41.411 must pay, before the delinquency date, the amount of taxes due on the portion of the taxable value of the property that is the subject of the protest and that is not in dispute, or forfeit the right to proceed to a final determination. The ARB may excuse this requirement based on an oath of inability to pay.

The bills provide that a property owner who pays an amount of taxes greater than required does not forfeit the right to a final determination of the protest by making the payment. If the property owner files a timely protest under Section 41.411, taxes paid on the property are considered paid under protest, even if paid before the motion is filed.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

Section 41.44

HB 2476 amends subsection (a) to require that a heavy equipment dealer file must a written notice of protest of a determination of refund under Section 23.1243 not later than the 30th day after the date the notice of the determination is delivered to the property owner.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.



HB 1887 adds subsection (e) to provide that a notice of protest is not untimely or insufficient based on a finding of incorrect ownership if the notice identifies as the property owner a person for the tax year at issue or uses a misnomer of a person who is:

- an owner of the property at any time during the tax year;
- the person shown on the appraisal records as the owner of the property (if that person filed the protest);
- a lessee authorized to file a protest; or
- an affiliate of or entity related to a person described above.

Effective September 1, 2011, but applies only to a protest that is pending on the effective date or is filed on or after the effective date.

Section 41.45

HB 1887 and **SB 1546** amend subsection (e-1) to grant a new hearing to a property owner's agent who fails to appear at a hearing if the agent files within four days after the date of the hearing a written statement with an ARB showing good cause and requesting a new hearing.

Chapter 42. Judicial Review

Section 42.01

HB 1887 and **HB 2220** amend this section to permit an appeal of an ARB determination that the property owner forfeited the right to a final determination of a motion filed under Section 25.25 or of a protest under Section 41.411 for failing to comply with the applicable prepayment requirements.

Effective June 17, 2011 (HB 2220). Effective September 1, 2011 (HB 1887). Both apply only to a motion to correct an appraisal roll or a protest filed on or after the effective date.

HB 2476 amends this section to permit an appeal of an ARB determination of eligibility for a refund requested under Section 23.1243.

Effective January 1, 2012, but only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 42.016

HB 1887 adds this section to specify that a person is entitled to intervene in a property tax district court appeal and has standing, and the court has jurisdiction, if the property at issue was the subject of a protest hearing and the person owned the property at any time during the tax year at issue, leased the property during the tax year at issue and filed the protest that resulted in the case, or is shown on the appraisal roll as the owner or as a lessee authorized to file a protest and the person filed the protest that resulted in the issuance of the order under appeal.

Effective September 1, 2011, but applies only to an appeal that is pending on the effective date or is filed on or after the effective date.

Effective September 1, 2011. SB 1546 applies only to a protest under Chapter 41, Tax Code, that is filed on or after the effective date.

Section 41.47

HB 1887 adds subsection (c) to require that an ARB must state the appraised value of the property as shown in the appraisal records submitted to the board and as finally determined by the board in an order determining protest.

Effective September 1, 2011, but applies only to a protest that is pending on the effective date or is filed on or after the effective date.

HB 2476 adds subsection (c) to require an ARB to order the chief appraiser to deliver a written notice to the tax collector and a heavy equipment dealer of a determination that the dealer is entitled to a refund of property taxes paid on a heavy equipment fleet transaction sale in excess of what the chief appraiser determined.

Effective January 1, 2012, but applies only to ad valorem taxes imposed for a tax year beginning on or after the effective date.

Section 42.21

HB 1887 amends subsection (b) to provide that a petition for review may not be brought against the ARB. If a petition for review is brought against the ARB, the bill allows the CAD attorney to represent the ARB only to file an answer and obtain a dismissal of the suit.

Effective September 1, 2011.

Section 42.226

HB 1887 adds this section to require that a court, on a motion by a party to an appeal, must enter an order requiring the parties to attend mediation. The court may order mediation on its own motion.

Effective September 1, 2011, but applies only to an appeal that is pending on the effective date or is filed on or after the effective date.

Section 42.23

HB 1887 adds subsection (f) to provide that a no-evidence motion may be denied based on the offer of evidence by any person that was presented at the ARB hearing.

The bill also adds subsection (g) to require that for the sole purpose of admitting expert testimony to determine the value of chemical processing or utility property in an appeal and for no other purpose, including a rendition, the property is considered personal property.

Effective September 1, 2011, but applies only to an appeal that is pending on the effective date or is filed on or after the effective date.



Section 42.30

HB 1887 adds this section to require an attorney who accepts an engagement or compensation from a third party to represent a person in an appeal to provide notice to the person represented. The notice must inform the person that the attorney has been retained by the third party to represent the person, and explain the attorney's ethical obligations and other relevant facts. The bill specifies deadlines and other matters related to the required notice. A person may void an agreement that does not comply with this section. An attorney who does not comply with this section may be reported to the Office of Chief Disciplinary Counsel for the State Bar of Texas.

Effective September 1, 2011, but applies only to a violation committed on or after the effective date.

Section 42.43

HB 1090 amends subsection (b) to require that interest on any refund to a property owner based on the final determination of an appeal to district court be calculated at an annual rate equal to the sum of 2 percent and the most recent prime rate quoted and published by the Federal Reserve Board as of the first day of the month in which the refund is made; the rate may not be more than 8 percent.

Effective September 1, 2011, but applies only to refunds made pursuant to appeals filed on or after the effective date.

HB 1887 amends subsection (h) to require that, for each appeal to which he or she is a party, a property owner must file with a taxing unit a separate form specifying the person to whom a refund must be sent.

Effective September 1, 2011.

Chapter 111. Collection Procedures

Sections 111.301, 111.302, 111.303 and 111.304

SB 1 (1st CS) repeals Subchapter F, Tax Refund for Economic Development.

Effective October 1, 2011. The repeal does not affect an eligible person's right to claim a refund of state sales and use and state franchise taxes that was established under Section 111.301, Tax Code, in relation to taxes paid before the effective date in a calendar year for which the person paid ad valorem taxes to a school district as

provided by Section 111.301, Tax Code, before the effective date of this article. An eligible person's right to claim a refund of state sales and use and state franchise taxes that was established under Section 111.301, Tax Code, in relation to taxes paid before the effective date in a calendar year for which the person paid ad valorem taxes to a school district as provided by Section 111.301, Tax Code, before the effective date of this article is governed by the law in effect on the date the right to claim the refund was established, and the former law is continued in effect for that purpose.

Chapter 311. Tax Increment Financing

Section 311.002

HB 2853 amends the definition of project costs to mean expenditures made or estimated to be made and monetary obligations incurred or estimated to be incurred by the municipality or county designating (rather than establishing) a reinvestment zone that are listed in the project plan as costs of public works, public improvements, programs or other projects benefiting the zone (added by the bill), plus other costs incidental to those expenditures and obligations. The bill also adds to the examples of items included as project costs:

- the actual cost of the remediation of conditions that contaminate public or private land or buildings;
- the actual costs of the preservation of the façade of a public or private building;
- the actual costs of the demolition of public or private buildings; and
- the costs of school buildings, other educational buildings, other educational facilities or other buildings owned by or on behalf of a school district, community college district or other political subdivision of this state.

Effective June 17, 2011, but applies to all costs regardless of when they were incurred.

Section 311.003

HB 2853 amends subsection (b) to strike language requiring a city or county proposing a new reinvestment zone to send a copy of its preliminary reinvestment zone financing plan to the governing body of each taxing unit that levies taxes on real property in the proposed zone.

The bill repeals subsections (e), (f) and (g), which required a city or county that designates a reinvestment zone to make certain notifications about the proposed zone to taxing units; allowed the taxing units to make certain requests of the designating city or county; and required certain meetings between the designating city or county and the other taxing units.

Effective June 17, 2011.

Section 311.005

HB 2853 amends subsection (a) to replace the term "creating" with "designating" in reference to a reinvestment zone, and to add to the list of alternative prerequisites to the designation of a reinvestment zone that an area must be predominantly undeveloped.

Effective June 17, 2011.



Section 311.006

HB 2853 amends subsection (a) to use the term “designate” rather than “create” in reference to a reinvestment zone and to increase the thresholds for the amount of residential property and total real property (in certain bracketed cities) above which a city may not designate a reinvestment zone.

The bill amends subsection (b) to specify that a city may not change the boundaries of an existing reinvestment zone to include property in excess of the restrictions on the composition of a zone specified in subsection (a).

The bill repeals subsection (c), which provided that a city may not create a reinvestment zone or change its boundaries if the zone contains more than 15 percent of the total appraised value of real property taxable by a county or school district.

Effective June 17, 2011.

Section 311.007

HB 2853 adds subsection (c) to allow a city or county to extend the term of all or part of a reinvestment zone after proper notice and hearing. Other taxing units are not required to participate in the zone for the extended term unless the taxing unit enters into a written agreement to do so.

Effective June 17, 2011.

Section 311.008

HB 2853 amends subsection (b) to add to the powers that a city or county may exercise to carry out this chapter (Tax Increment Financing Act) the power to sell real property to implement project plans.

Effective June 17, 2011.

Section 311.009

HB 2853 amends subsection (a) to allow each taxing unit that levies taxes on real property in a reinvestment zone, other than the city or county that designated the zone, to appoint one member of the board only if the taxing unit has approved the payment of all or part of the tax increment produced by the unit into the tax increment fund.

The bill amends subsection (b) to provide that, if the zone was designated under Section 311.005(a)(4) (petition from property owners), the city or county that designated the zone may provide that the zone’s board of directors consist of nine members appointed as provided by this subsection, unless more than nine members are required to comply with this subsection. The bill replaces “school district, county, or municipality” with “taxing unit” for those entities that can appoint a member to the board if the unit has approved payment into the zone’s tax increment fund. If fewer than seven taxing units, other than the city or county that designated the zone, are eligible to appoint members to the zone’s board of directors, the city or county may appoint a number of members such that the board comprises nine members. If at least seven taxing units, other

than the city or county that designated the zone, are eligible to appoint members to the board, the city or county may appoint one member.

The bill amends subsection (e) to revise the eligibility requirements for a tax increment reinvestment zone board member.

Effective June 17, 2011.

Section 311.0091

HB 2702 amends subsection (a) to increase the population maximum to 1.8 million.

Effective September 1, 2011

HB 2853 amends subsection (f) to provide an exception under subsection (i) to the eligibility requirements for appointment to a tax increment reinvestment zone board to provide that the board eligibility requirements under subsection (f) do not apply to an individual appointed by a four-county conservation and reclamation district created under Texas Constitution Article XVI, Section 59.

Effective June 17, 2011.

Section 311.010

HB 2853 amends subsection (g) to provide that Local Government Code Chapter 252 does not apply to a dedication, pledge or other use of revenue in the tax increment fund for a reinvestment zone under agreements to implement the zone’s plans, even if that dedication, pledge or other use was not by the board of directors.

The bill amends subsection (h) to make certain actions of a tax increment reinvestment zone’s board of directors subject to the approval of a city or county (rather than only a city) that designated the zone. The approval is by ordinance or order as applicable.

Effective June 17, 2011.

Section 311.011

HB 2853 amends subsection (a) to strike the requirement that the project plan and reinvestment zone financing plan be as consistent as possible with the preliminary plans developed for the zone before the creation of the board.

The bill amends subsection (b) to strike the requirement that a project plan include a map showing the proposed improvements to the property, and to insert a requirement for a description of the existing uses and conditions of real property in the zone and its proposed uses.

The bill amends subsection (c) to make several revisions and clarifications to the items that must be included in a reinvestment zone financing plan, including a finding that the plan is economically feasible.

The bill amends subsection (d) to remove from the requirements for an ordinance or order approving a tax increment reinvestment zone project plan the requirement that the



ordinance or order find that the plan conforms to the master plan, if any, of the city, or to subdivision rules and regulations, if any, of the county.

The bill amends subsection (g) to clarify that a school district participating in the tax increment reinvestment zone is not required to increase the percentage or amount of the tax increment to be contributed to the tax increment fund because of an amendment to the project plan or reinvestment zone financing plan.

The bill adds subsection (h) to provide that, unless specifically provided otherwise in the plan, all amounts contained in the project plan or reinvestment zone financing plan are considered estimates and do not act as a limitation on the items, but the amounts in the plans may not vary materially from the estimates. The bill also provides that this subsection may not be construed to increase the amount of any reduction under Government Code Section 403.302(d)(4) in the total taxable value of the property in a school district that participates in the zone as computed under Section 403.302(d).

Effective June 17, 2011.

Section 311.012

HB 2853 amends subsection (b) to provide that the captured appraised value of real property is the total taxable (rather than appraised) value of all real property taxable by the unit and located in a reinvestment zone for that year, less the unit's tax increment base. The bill amends subsection (c) to provide that the tax increment base of a taxing unit is the total taxable (rather than appraised) value of all real property taxable by the unit and located in a reinvestment zone for the year in which the zone was designated.

The bill also revises subsection (c) to provide for calculating a new tax increment base when the boundaries of a tax increment zone are enlarged or reduced.

Effective June 17, 2011, but subsection (c) applies only to the determination of the tax increment base of a taxing unit for a tax year beginning on or after the effective date, except that if the tax increment base of a taxing unit for a tax year beginning before the effective date was determined in the manner provided by Section 311.012(c), Tax Code, as amended by this Act, the determination is validated as if the amendment were in accordance with Section 311.012(c), Tax Code, as that section existed immediately before the effective date.

Section 311.013

SB 627 amends subsection (c) to modify the deadline for a taxing unit's payment into a tax increment fund to not later than the 90th day after the later of the delinquency date for the unit's property taxes or the date upon which the municipality or county that created the zone submits an invoice to the taxing unit. In addition, the deadline does not apply if the agreement between the taxing unit and the municipality or county that created the zone specifies otherwise.

The bill adds subsection (f-1) to allow a county commissioners court to enter into a tax increment agreement with a municipality for a reinvestment zone on the behalf of a taxing unit other than the county, if by law that commissioners court either approves the ad valorem tax rate or is required to levy the ad valorem taxes of that taxing unit. The agreement is not required to contain the same conditions as the agreement entered into on behalf of the county.

The bill adds subsection (f-2), providing that a county commissioner's court can provide by order that applicable taxing units pay into the tax increment fund for the zone. The order can include conditions for payment that are different from those conditions applicable to the county's obligation to pay into the fund. Subsections (f-1) and (f-2) do not apply to a hospital district under Health and Safety Code Section 281.095 (including Bexar County Hospital District, Nueces County Hospital District, El Paso County Hospital District and Harris County Hospital District). These subsections also do not authorize a commissioners court to enter into an agreement or order payment into a tax increment fund solely because the county tax assessor-collector is required by law to assess or collect the other taxing unit's ad valorem taxes.

Effective June 17, 2011, but applies only to a taxing unit's tax increment for a period occurring on or after the effective date.

HB 2853 repeals subsection (d) and (e), which provided that a taxing unit is not required to pay a tax increment into the tax increment fund under certain specified conditions.

The bill amends subsection (f) to provide that a taxing unit's agreement to pay a portion of its tax increment into the tax increment fund may specify the projects to which its tax increment will be dedicated, and that the taxing unit's participation may be computed with respect to a base year later than the original base year of the zone.

The bill amends subsection (l) to allow a county (previously only a city) that designates a tax increment reinvestment zone to determine the portion of its tax increment that it will pay into the tax increment fund.

Effective June 17, 2011.

SB 1 (1st CS) amends subsection (n) to prohibit the additional amount that a school district is required to pay into a tax increment fund to offset post-2005 tax reductions from exceeding the amount the school district receives in state aid for the current tax year under Education Code Section 42.2514. A school district is required to pay the additional amount after receiving the state aid to which it is entitled under that section for the current year.

Effective September 28, 2011.

HB 2702 amends subsection (m) to increase the population bracket to 1.8 million to 1.9 million (formerly 1.4 million to 2.1 million).

Effective September 1, 2011.



Section 311.015

HB 2853 amends subsection (a) to allow a city designating a reinvestment zone to use the proceeds from tax increment bonds or notes to make payments pursuant to agreements made under Section 311.010(b).

The bill amends subsection (l) to provide that a tax increment bond or note must mature on or before the date on which the final payments of tax increment into the tax increment fund are due (rather than within 20 years of the issuance date).

Effective June 17, 2011.

Section 311.016

HB 2853 amends subsection (a) to require the city or county to submit, on or before the 150th day (rather than the 90th day) after the end of each fiscal year, a reinvestment zone status report to each taxing unit that levies property taxes in the zone.

Effective June 17, 2011.

HB 1781 and **HB 2853** amend subsection (b) to strike the Attorney General from the entities to whom a city or county is

required to send a copy of the annual reinvestment zone status report.

Effective June 17, 2011 (both HB 1781 and HB 2853).

Section 311.017

HB 2702 amends subsection (a-1) to revise the population brackets to more than 220,000 but less than 235,000 (formerly 195,000 or more).

Effective September 1, 2011.

Section 311.021

HB 2853 adds this section to provide that, under certain specified conditions and subject to certain limitations, past actions of cities and counties relating to the designation, operation or administration of a reinvestment zone or the implementation of a project plan or reinvestment zone financing plan are conclusively presumed, as of the date they occurred, to be valid and to have occurred in accordance with all applicable statutes and rules.

Effective June 17, 2011.

Business Organizations Code

Section 5.257

SB 582 allows a process, notice or demand for the collection of delinquent ad valorem tax to be served on a domestic or foreign limited liability company (LLC) whose right to transact business in this state is forfeited under Section 171.2515; a corporation or an LLC that involuntarily terminated under Chapter 11 (Winding Up and Termination of Domestic Entity); or a corporation or an LLC whose registration is revoked under

Chapter 9 (Foreign Entities). If the managers or members of an LLC are unknown or cannot be found, service on the LLC may be made in the same manner as service is made on unknown shareholders under law. Service of process is sufficient for a judgment against an LLC or a judgment *in rem* against any property to which the LLC holds title.

Effective September 1, 2011, but applies only to service of process issued on or after the effective date.

Civil Practices and Remedies Code

Section 17.091

SB 582 adds subsection (f) to define “nonresident,” for the purposes of a suit to collect delinquent property taxes by the state or political subdivision in which a defendant is a non-resident, to mean an individual who is not a resident of this state and is one of the specified organizational structures that is foreign.

Effective September 1, 2011, but applies only to service of process issued on or after the effective date.

Section 30.018

SB 886 adds this section to allow court clerks who are required to enter information into an execution docket to enter and maintain such information in an electronic format that allows indexed or cross-indexed retrieval.

Effective September 1, 2011.

Education Code

Section 21.4022

SB 8 (1st CS) adds this section regarding the required process for the development of a furlough program or other salary reduction proposal. Subsection (c) requires the board of trustees to hold a public meeting at which the board and school district administration present information regarding the options

considered for managing the district’s available resources (including consideration of a tax rate increase and use of the district’s available fund balance) and information regarding the local option residence homestead exemption.

Effective September 28, 2011.



Section 42.009

SB 8 (1st CS) adds this section regarding the commissioner of education's annual determination of school district funding levels compared to the amount provided to the district in the 2010-2011 school year. Subsection (b) requires the commissioner to make adjustments as necessary to reflect changes in a school district's maintenance and operations tax rate.

Effective September 28, 2011.

Section 42.2514

SB 1 (1st CS) adds this section to provide that a school district is entitled to state aid equal to the amount the district is required to pay into the tax increment fund for a reinvestment zone under Tax Code Section 311.013(n).

Effective September 28, 2011.

Section 42.2516

SB 1 (1st CS) renames this section as "State Compression Percentage" instead of "Additional State Aid for Tax Reduction."

Effective September 1, 2017.

SB 1 (1st CS) amends subsection (a) to require the commissioner of education to determine the state compression percentage only for a school year for which the state compression percentage is not set by appropriation.

Effective September 28, 2011 and September 1, 2017.

SB 1 (1st CS) adds subsection (b-2) to require the commissioner of education, if a school district adopts a maintenance and operations tax rate that is below the compressed rate, to reduce the school district's entitlement in proportion to the amount by which the adopted rate is less than the compressed rate. (The compressed rate is the product of the state compression percentage multiplied by the maintenance and operations tax rate adopted by the district for the 2005 tax year). This reduction is required beginning with the maintenance and operations tax rate adopted for the 2009 tax year. The bill repeals this subsection effective September 1, 2017.

Effective September 28, 2011.

Election Code

Section 52.072

HB 360 adds new subsection (e) to require a proposition seeking voter approval of the imposition, increase or reduction of a tax, or the issuance of bonds, to include a description of and the total principal amount of the proposed bonds, or:

- for a tax rate increase, the amount of the tax increase or maximum tax rate, or

SB 1 (1st CS) amends subsections (b), (d) and (f-2) and adds subsection (i) to require the application of a percentage to certain state revenue entitlements. The percentage is 100 percent for the 2011-2012 school year and 92.35 percent for the 2012-2013 school year. For subsequent school years, the percentage must be set by the Legislature by appropriation.

Effective September 28, 2011.

SB 1 (1st CS) repeals subsections (b-1), (b-2), (c), (d), (e), (f), (f-1), (f-2), (f-3) and (i), relating to a school district's entitlement to funding if it imposes a maintenance and operation tax at least equal to the product of the state compression rate multiplied by the district's 2005 maintenance and operation tax rate.

Effective September 1, 2017.

Section 44.004

SB 1 (1st CS) adds subsection (g-1) to specify that, if a school district's debt rate decreases after publication of the required notice of a public meeting to discuss the school district budget and proposed tax rate, no additional notice or meeting is required.

Effective September 28, 2011, but applies beginning with adoption of a tax rate for the 2011 tax year.

Section 45.105

HB 2702 amends subsection (e) to allow a school district that governs a junior college district under Subchapter B, Chapter 130, in a county with a population of more than 2 million (rather than 1.5 million), to dedicate a specific percentage of the local tax levy to the use of the junior college district for specified purposes and subject to certain limitations.

Effective September 1, 2011.

Section 130.065

SB 1226 amends subsection (g) to modify the required language on a ballot for the annexation of territory for a junior college district to include a specified statement regarding the imposition of an ad valorem tax for junior college purposes that contains the current tax rate if it has been adopted or, if the rate has not been adopted, the tax rate for the preceding year.

Effective September 1, 2011, but applies only to the ballot for an election ordered to be held on or after the effective date.

- for a tax rate decrease, the amount of tax rate reduction or the reduced tax rate for which approval is sought.

Effective September 1, 2011, but applies only to an election ordered on or after the effective date.

Sections 142.010, 161.008, 192.033 and 274.003

HB 2477 makes identical amendments to each of these sections to require the Secretary of State to include with certain



certifications appropriate ballot translation language for each language certified statewide or in a specific county by the director of the census under 42 U.S. Code 1973aa-1a.

Effective September 1, 2011.

Section 272.011

HB 2477 adds this section to require political subdivisions to provide certain election materials in each language the census

director determines is necessary under 42 U.S. Code 1973aa-1a. The Secretary of State is required to prepare translations for certain state prescribed voter forms in each of those languages other than English and Spanish.

Effective September 1, 2011.

Finance Code

Section 351.0021

SB 762 adds this section to provide that a contract between a property tax lender and property owner can require the property owner to pay specified costs after closing. A property tax lender is required to provide a property owner one free copy of the transaction documents at closing and an additional free copy upon request. A property tax lender is prohibited from charging any interest that is not expressly authorized under Tax Code Section 32.06, and is prohibited from charging any fee (other than interest) after closing unless the fee is expressly authorized under this section. After closing, a property tax lender can charge only for services performed by a person who is not an employee of the lender (except for specified charges). The Finance Commission may adopt rules to implement this section.

Effective September 1, 2011, but applies only to the transfer of an ad valorem tax lien that occurs on or after the effective date.

Section 351.006

SB 762 amends this section to authorize the consumer credit commissioner to assess an administrative penalty against a person who violates Tax Code Section 32.06(b-1), relating to the requirement that a transferee send a copy of the sworn document under Tax Code Section 32.06(a-1) to any mortgage service and holders of a recorded first lien, regardless of whether the violation is knowing or wilful.

Effective September 1, 2011, but applies only to the transfer of an ad valorem tax lien that occurs on or after the effective date.

Section 351.051

SB 762 amends this section to modify the requirement that a person must hold a property tax lender license to contract for, charge or receive, in connection with a property tax loan, a charge, interest, compensation, consideration or another expense authorized under this chapter or Tax Code Chapter 32.

Effective September 1, 2011, but applies only to the transfer of an ad valorem tax lien that occurs on or after the effective date.

Government Code

Sections 325.011 and 325.012

HB 1781 requires the Sunset Advisory Commission to review and make recommendations on the continuation or abolition of each agency's reporting requirement as part of the sunset review process.

Effective June 17, 2011.

Section 402.006

HB 2866 adds subsection (d) to authorize the Attorney General to charge and collect a nonrefundable administrative convenience fee for the electronic submission of a document to the Attorney General. The fee is in addition to any other fee the Attorney General may assess. The Attorney General may adopt rules necessary to administer this fee. This subsection expires September 1, 2015.

Effective June 17, 2011, but applies only to a fee for a document electronically submitted to the Office of the Attorney General on or after the effective date.

Section 403.302

HB 2853 amends subsection (d)(4) to continue the effect of that subsection by changing the reference to Section 311.003(e) to "former Section 311.003(e)," because that section is repealed by this bill. Section 403.302(d)(4) limits the amount of reinvestment zone captured appraised value that may be deducted in the Comptroller's Property Value Study.

Effective June 17, 2011.

HB 2853 and **SB 1303** amend subsection (m) to make a technical correction to a referenced subsection.

Effective June 17, 2011 (HB 2853). Effective September 1, 2011 (SB 1303).

HB 3465 adds subsection (e-1), which applies only to a municipality that has a population of 70,000 or less and is located in a county in which all or part of a military installation is located, to provide that, for a city that extends a reinvestment zone termination date on or after January 1, 2017, the limitation on the number of years for which a deduction may be made in the



Comptroller's Property Value Study under subsection (d)(4) is governed by the duration of the zone as determined under Section 311.017 rather than subsection (e).

Effective September 1, 2011.

Section 411.1296

SB 682 changes the heading of the section to: *Access To Criminal History Record Information: Employment By Appraisal District And Appointment To Appraisal Review Board*. The bill amends subsection (a) to authorize a CAD to obtain Department of Public Safety criminal history records related to a person applying for appointment to an ARB.

The bill also adds subsection (c) to authorize the CAD to provide the local administrative district judge or the ARB commissioners the criminal history record information obtained under this section if the ARB members are appointed by the local administrative district judge.

Effective June 17, 2011.

Section 441.168

HB 1844 amends subsection (a) to allow the director and librarian of the state library to store local government records on request of the local government. Previously, only microfilming local government records was allowed.

The bill amends subsection (b) to require the Texas State Library and Archives Commission to establish storage fees sufficient to cover the costs of administering the storage services.

The bill adds subsection (c) to permit the director and librarian of the state library to provide for the economical and efficient storage, accessibility, protection and final disposition of inactive and vital local government records at the state records center.

Effective June 17, 2011.

Section 551.0415

HB 2313 amends the section to allow a quorum of the governing body of a county (formerly only a city) to receive from its staff, and to allow a member of the governing body to report on, items of community interest during a meeting of the governing body without having given notice of the subject of the report as required by this subchapter if no action is taken and, except as provided by Section 551.042, possible action is not discussed.

Effective June 17, 2011.

Section 551.050

HB 2313 adds subsection (a) to define electronic bulletin board as an electronic communication system that includes a perpetually illuminated screen on which the governmental body can post messages or notices viewable without manipulation by the public. The bill moves the previous language of the section to subsection (b) and revises it to specify that a city's governing body shall post notice of each meeting on a physical

or electronic bulletin board (formerly just "bulletin board") at a place convenient to the public in the city hall.

Effective June 17, 2011.

Section 551.0725

HB 1500 amends subsection (a) to provide that the commissioners court of any county (rather than a county with a population of 400,000 or more) may conduct a closed meeting to deliberate business and financial issues relating to a contract being negotiated, if certain preliminary procedures are followed.

Effective June 17, 2011, but applies only to a meeting held on or after the effective date.

Section 552.0215

SB 1907 creates this section to provide that non-confidential information that is excepted from certain required disclosure is public information and is available to the public on or after the 75th anniversary of the date on which the information was originally created or received by a governmental body, except as provided by provisions related to Social Security numbers, the confidentiality provisions of the Public Information Act or other law. This does not limit the authority of a governmental body to establish retention periods for records.

Effective September 1, 2011.

Section 552.022

SB 602 amends subsection (a) to provide that a current list of categories of information are public information and not excepted from required disclosure unless made confidential under Government Code Chapter 552 or other law.

Subsection (b) prohibits a court in this state from ordering a governmental body or an officer for public information to withhold from public inspection any category of public information described by subsection (a) or to not produce the category of public information for inspection or duplication, unless the category of information is confidential under Government Code Chapter 552 or other law.

Effective September 1, 2011, but applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.024

SB 1638 amends subsection (a) to add emergency contact information that is in the custody of a governmental body to the types of information for which a current or former employee or official of the governmental body is required to choose whether to allow public access.

Effective June 17, 2011.

Section 552.117

HB 1046 amends subsection (a) to add to the list of individuals who are not required to disclose their home addresses, home



telephone numbers, Social Security numbers or whether they have family members, a current or former employee of the Attorney General's Office who is or was assigned to a division of that office involved in law enforcement.

Effective June 17, 2011.

SB 1638 amends subsection (a) to add emergency contact information of specified persons to the types of information excepted from disclosure under Section 552.021.

Effective June 17, 2011.

Section 552.1175

HB 1046 amends subsection (a) to add to the list of individuals who are not required to disclose home addresses, home telephone numbers, Social Security numbers or information on whether they have family members, a current or former employee of the Attorney General's Office who is or was assigned to a division of that office involved in law enforcement.

Effective June 17, 2011.

SB 1638 amends subsection (b) to add emergency contact information to the types of information considered confidential and that may not be disclosed if the individual to whom the information is related chooses to restrict public access to the information and notifies the governmental body of that choice.

Effective June 17, 2011.

Section 552.130

SB 1638 amends this section to provide that information relating to motor vehicle operator's licenses, driver's licenses, permits, motor vehicle titles or registrations or personal identification documents issued by another state or country, is not subject to public information requirements.

Effective June 17, 2011.

SB 602 adds subsection (c) to authorize a governmental body to redact certain information from any information the governmental body discloses under Section 552.021 without the necessity of requesting a decision from the Attorney General. This authorization is subject to Transportation Code Chapter 730 and applies to information in Section 552.130(a)(1) and (3) which includes motor vehicle operator's or driver's licenses or permits issued by a Texas state agency and personal identification documents issued by a Texas state agency or a local agency authorized to issue an identification document.

Subsection (d) provides that if a governmental body redacts or withholds information under subsection (c) without requesting an Attorney General decision about whether the information may be redacted or withheld, the requestor is entitled to seek an Attorney General decision about the matter. The Attorney General by rule is required to establish procedures and deadlines for receiving information necessary to decide the matter

and briefs from the requestor, the governmental body, and any other interested person. Not later than the 45th business day after the date the Attorney General received a request for a decision, the Attorney General must promptly render a decision determining whether redacted or withheld information was excepted from required disclosure to the requestor. The Attorney General must issue a written decision and provide a copy to the requestor, the governmental body, and certain interested persons. The requestor or the governmental body may appeal a decision to a Travis County district court.

The bill adds subsection (e) to require a governmental body that redacts or withholds information under subsection (c) to provide to the requestor, on an Attorney General prescribed form, a description of the redacted or withheld information, a citation to this section, and instructions regarding how the requestor may seek an Attorney General's decision regarding whether the redacted or withheld information is excepted from required disclosure.

Effective September 1, 2011.

Section 552.136

SB 602 adds subsection (c) to authorize a governmental body to redact information that must be withheld under subsection (b) from any information the governmental body discloses under Section 552.021 without the necessity of requesting a decision from the Attorney General.

Subsection (d) provides that if a governmental body redacts or withholds information under subsection (c) without requesting an Attorney General decision about whether the information may be redacted or withheld, the requestor is entitled to seek an Attorney General decision about the matter. The Attorney General by rule is required to establish procedures and deadlines for receiving information necessary to decide the matter and briefs from the requestor, the governmental body, and any other interested person. Not later than the 45th business day after the date the Attorney General received a request for a decision, the Attorney General must promptly render a decision determining whether redacted or withheld information was excepted from required disclosure to the requestor. The Attorney General must issue a written decision and provide a copy to the requestor, the governmental body, and certain interested persons. The requestor or the governmental body may appeal a decision to a Travis County district court.

The bill adds subsection (e) to require a governmental body that redacts or withholds information under subsection (c) to provide to the requestor, on an Attorney General prescribed form, a description of the redacted or withheld information, a citation to this section, and instructions regarding how the requestor may seek an Attorney General's decision regarding whether the redacted or withheld information is excepted from required disclosure.

Effective September 1, 2011.



Section 552.139

SB 1638 amends this section to add to the list of government information related to security or infrastructure that is confidential, a photocopy or other copy of an identification badge issued to an official or employee of a governmental body.

Effective June 17, 2011.

Section 552.149

SB 1130 amends subsection (e) to increase the county population threshold from 20,000 or more to more than 50,000.

Effective June 17, 2011.

SB 1303 amends subsection (d) to reenact this section as added by Chapters 555 and 1153, Acts of the 81st Legislature, Regular Session, 2009.

Effective September 1, 2011.

Section 552.263

SB 602 adds subsection (e-1) to provide that if a requestor modifies a request in response to the requirement of a deposit or bond authorized by this section, the modified request is considered a separate request for the purposes of Government Code Chapter 552 and is considered received on the date the governmental body receives the written modified request.

Effective September 1, 2011, but applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.301

SB 602 adds subsection (a-1) to provide that for Government Code Subchapter G, if a governmental body receives a written request by U.S. mail and cannot adequately establish the actual date on which the governmental body received the request, the written request is considered to have been received by the governmental body on the third business day after the date of the postmark on a properly addressed request.

Effective September 1, 2011, but applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.309

HB 2866 adds this section to provide that when Government Code Subchapter G requires a request, notice, or other document to be submitted or otherwise given to the Attorney General within a specified period, the requirement is met in a timely fashion if the document is submitted to the Attorney General through the Attorney General's designated electronic filing system within that period. The Attorney General may electronically transmit a notice, decision, or other document. When Government Code Subchapter G requires the Attorney General to deliver a notice, decision, or other document within a specified period, the requirement is met in a timely fashion if the document is electronically transmitted by the Attorney

General within that period. This does not affect the right of a person or governmental body to submit information to the Attorney General under Section 552.308.

Effective June 17, 2011.

Section 2003.902

HB 2203 amends this section to add to the SOAH pilot program Collin, Denton, Fort Bend, Montgomery and Nueces counties for a two-year period, beginning with the ad valorem tax year that begins January 1, 2012. The bill extends the pilot program by one year.

Effective June 17, 2011.

Section 2003.906

HB 2203 amends this section to require as a condition for an appeal to SOAH a deposit of \$1,500 (rather than a \$300 filing fee). The bill requires that this deposit be made payable to SOAH and be filed with the chief appraiser, and provides a deadline for deposits and deposit refunds and consequences for failure to pay the deposit.

Effective June 17, 2011.

Section 2003.912

HB 2203 amends subsection (b) to allow a SOAH determination to include an award of attorney's fees under Tax Code Section 42.29.

Effective June 17, 2011, but applies only to an appeal filed on or after the effective date.

Section 2003.916

HB 2203 amends this section to extend the expiration date of this subchapter (Subchapter Z, regarding taxpayer appeals to SOAH) to 2014.

Effective June 17, 2011.

Section 2051.0441

HB 1812 amends subsection (a) to allow a governmental entity or representative in counties that have no published newspaper described by Section 2051.044 to post a notice in an alternative newspaper described in this section. The bill amends subsection (b) to add to the existing specifications for the alternative newspaper a requirement that the newspaper be entered as periodical (rather than second-class) postal matter in the county where published.

Effective June 17, 2011.

Sections 2051.101, 2051.102 and 2051.103, (Subchapter D)

HB 1147 adds this subchapter to require a governmental entity to include a notice on each geospatial data product that appears to represent property boundaries, if it is created or hosted by



the entity and was not produced by, or under the supervision of, a professional land surveyor.

The notice must state that the geospatial data product is for informational purposes and may not be suitable for legal, engineering or surveying purposes. The notice must further state that the geospatial data product does not represent an on-the-ground survey and is only an approximate representation of property boundaries. The notice is not required for geospatial data products that do not contain a legal description, property markers or the distance and direction of a property line; were prepared only for use as evidence in a legal proceeding; or are filed with the clerk of a court or a county clerk.

Effective September 1, 2011, but for geospatial data products that are printed documents, Section 2051.102 applies only to a document printed on or after the effective date.

Sections 2052.401, 2052.402 and 2052.403, (Subchapter E)

HB 1781 adds this subchapter to require the executive director of each state agency to examine the agency's statutory reporting requirements enacted (and not amended) before January 1, 2009, to identify reporting requirements that are unnecessary, redundant or required more often than available data permits. The executive director must send an electronic report containing his or her determinations regarding the reporting requirements, including justifications, to the governor, lieutenant governor, speaker of the House of Representatives and other specified officials or entities. This subchapter expires September 1, 2014.

Effective June 17, 2011.

Section 2176.201

HB 266 adds subsection (b) to provide that, if practicable, a state agency must use address-matching software that meets certification standards under CASS adopted by the U.S. Postal Service. If a state agency contracts with a provider for bulk mailing services, the contract must require that the provider use address-matching software that meets or exceeds CASS certification standards.

Effective September 1, 2011.

Section 2206.001

HB 364 adds new subsection (b-1) to provide that subsection (b)(3) does not prohibit the taking of private property through the use of eminent domain for economic development if the economic development is a secondary purpose resulting from the elimination of urban blight. This subsection expires December 31, 2016.

Effective September 1, 2011, but applies only to a condemnation proceeding (and any property condemned through the proceeding) in which the condemnation petition is filed on or after the effective date.

Section 2253.021

HB 628 adds subsection (h) to prohibit a reverse auction procedure from being used to obtain services related to a public work contract for which a bond is required.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Section 2256.005

HB 2226 amends subsection (b) to provide that investment policies of investing entities (including local governments) must include procedures to monitor rating changes in investments acquired with public funds and the liquidation of such investments consistent with the provisions of Section 2256.021.

Effective June 17, 2011.

Section 2256.007

HB 2226 amends subsection (d) to require an investment officer to attend a training session at least once each state fiscal biennium, rather than at least once in a two-year period.

Effective June 17, 2011.

Section 2256.008

HB 2226 amends subsection (a) and (b) to provide that the two-year period in which an investing entity's officer must take required investment training begins on the first day of the local government's fiscal year and consists of the two consecutive fiscal years after that date.

Effective June 17, 2011.

Section 2256.009

HB 2226 amends subsection (a) to provide that authorized investments include obligations that are fully guaranteed or insured by the Federal Deposit Insurance Corporation or by the explicit full faith and credit of the U.S.

Effective June 17, 2011.

Section 2256.010

HB 2226 amends subsection (b) to provide that authorized investments include funds that are invested by an investing entity through a broker that has its main office or a branch office in the state and is selected from a list adopted by the investing entity; a broker arranged deposit of funds in certificates of deposit in one or more federally insured depository institutions; or an entity under Section 2257.041(d) or a clearing broker-dealer registered with the Securities and Exchange Commission and operating pursuant to federal rule. The bill strikes a provision regarding depository institutions receiving deposits that equal or are greater than the amount of the funds invested by the investing entity through the depository institution.

Effective June 17, 2011.



Section 2256.011

HB 2226 amends subsection (a) to provide that an authorized investment of a fully collateralized repurchase agreement can be secured by a combination of cash and obligations, rather than only obligations.

Effective June 17, 2011.

Section 2256.016

HB 2226 amends subsections (a), (c), and (f) to provide procedures for using investment pools including the investment of money market mutual funds and including a statement of how the yield is calculated in the required monthly report.

The bill adds subsections (i), (j), and (k) to require disclosures and reports on a website if an investment pool has a website; an annual audited financial statement; and stating levels of return when advertising investment rates if the investment pool offers fee breakpoints based on fund balances invested.

Effective June 17, 2011.

Section 2256.019

HB 2226 amends this section to strike the requirement that a public funds investment pool must be continuously rated no lower than investment grade by at least one nationally recognized rating service with a weighted average maturity no greater than 90 days.

Effective June 17, 2011.

Health and Safety Code

Section 61.002

HB 2315 and **SB 1233** amend subdivision (5) to revise the definition of general revenue levy under the Indigent Health Care and Treatment Act. The bill adds the payment of principal or interest on county debt to the list of items for which general revenue property tax levies may not be dedicated. It specifies that the current exclusion from the definition of county property taxes dedicated to the construction and maintenance of farm-to-market roads is referring to those taxes under Texas Constitution Article VIII, Section 1-a.

Effective June 17, 2011 (HB 2315 and SB 1233).

Section 361.126

SB 1258 creates this section to authorize TCEQ to issue a permit by rule authorizing a county or municipality with a population of 10,000 or less to dispose of building demolition waste if the disposal occurs on land that the county or municipality owns or controls and the land would qualify for an arid exemption under TCEQ rules. This applies only to a building that has been abandoned or found to be a nuisance; was acquired by the county or municipality by means of bankruptcy, tax delinquency or condemnation; and was previously owned by a person not financially capable of paying the costs of the disposal of the demolition waste at a permitted solid

Section 2256.023

HB 2226 amends subsection (b) to modify the contents of the internal management report to strike the requirements that the summary statement be prepared in compliance with generally accepted accounting principles and include a statement of the additions and changes to market value during the reporting period; and strikes the requirement that the report state the book value and market value of each separately investment asset at the beginning of the reporting period.

Effective June 17, 2011.

Sections 2267.001 through Section 2267.452 (Chapter 2267)

HB 628 adds this chapter regarding contracting and delivery procedures for construction projects which applies to governmental entities including state agencies, public junior colleges, board of trustees of port improvement or facilities, and local governments (including political subdivisions).

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

waste disposal facility, including transportation costs. TCEQ is required to adopt rules to control the collection, handling, storage, processing and disposal of demolition waste to protect public and private property, rights of way, groundwater and any other right that requires protection.

Effective May 17, 2011.

Section 775.024

SB 917 amends subsection (a) to require that before two or more emergency service districts can consolidate, each must adopt a joint order of consolidation that includes, among other information, a statement that the district will consolidate only if voters approve an equalized ad valorem tax rate at an election, if the maximum ad valorem tax rates in the districts are different.

The bill strikes the previous subsection (e) that capped the maximum tax rate on a merged district to the maximum tax rate authorized for any of the previous districts.

The bill amends subsection (f) to provide that a consolidated district is created on the latest of the date stated in the joint order; the date the consolidation is approved in an election; or the date when the maximum ad valorem tax rate the consolidated district may impose is established, if necessary.



Effective June 17, 2011, but on the effective date, a district created under Chapter 776, Health and Safety Code, is converted into a district operated under Chapter 775, Health and Safety Code.

Section 775.0241

SB 917 creates this section to provide that, if two emergency service districts that wish to consolidate have different maximum ad valorem tax rates, the board of the district with the lower maximum tax rate is required to order an election in its district to authorize the imposition in its territory of a maximum tax rate that equals the authorized maximum tax rate in the district with the higher maximum rate. If a majority of the voters do not favor the increase, the districts may not proceed with the consolidation.

Local Government Code

Sections 214.301, 214.302, 214.303 and 214.304 (Subchapter I)

HB 364 specifies that this new subchapter applies only to a city with a population of more than 1.9 million. The bill allows a city to take a condominium through the use of eminent domain for the purpose of eliminating urban blight if the tract or unit meets certain conditions for at least one year after the date a reasonable attempt is made to provide notice of the conditions to the property owner.

This subchapter expires December 31, 2016.

Effective September 1, 2011, but applies only to a condemnation proceeding (and any property condemned through the proceeding) in which the condemnation petition is filed on or after the effective date.

Section 252.048

HB 628 adds subsection (c-1) to authorize a governing body of a municipality to grant general authority to an administrative official of the municipality to approve a change order if the change order is for a public works contract in a municipality with a population of 500,000 or more and involves a decrease or an increase of \$100,000 or less or a lesser amount as provided by ordinance.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Section 271.054

HB 628 amends this section to provide that before entering into a contract requiring an expenditure or obligation of more than \$50,000, a governing body of an issuer must use either an alternate method of project delivery authorized by Government Code Chapter 2267 or use the already required competitive procurement process.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Effective June 17, 2011, but on the effective date, a district created under Chapter 776, Health and Safety Code, is converted into a district operated under Chapter 775, Health and Safety Code.

Section 775.074

SB 917 adds subsection (d-1) to prohibit an emergency service district board from setting the tax rate for a fiscal year before the date the board adopts a budget for that fiscal year.

Effective June 17, 2011, but on the effective date, a district created under Chapter 776, Health and Safety Code, is converted into a district operated under Chapter 775, Health and Safety Code.

Section 271.060

HB 628 amends subsection (b) and adds subsection (c) to provide that a contract with an original contract price of \$1 million or more may not be increased by more than 25 percent. If the original contract price was less than \$1 million and a change order increases the contract amount to \$1 million or more, subsequent change orders may not increase the revised contract amount by more than 25 percent.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Sections 271.111 through 271.121 and Sections 271.181 through 271.199 (Subchapters H and J)

HB 628 repeals these subchapters.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Section 271.9051

HB 628 amends subsection (b) to provide that for purchasing certain property or services, if a municipality receives one or more competitive sealed bids from a bidder whose principal place of business is in the municipality and whose bid is within five percent of the lowest bid price received by the municipality from a bidder who is not a resident of the municipality, the municipality may enter into a contract for construction services in an amount of less than \$100,000 or a contract for other purchases in an amount of less than \$500,000.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.



Section 272.001

HB 2690 adds subsection (l) to provide that the notice and bidding requirements in subsection (a) do not apply to a donation or sale made under this subsection. A political subdivision may donate or sell for less than fair market value a designated parcel of land or an interest in real property to another political subdivision under specified conditions.

Effective June 17, 2011.

Section 302.007

HB 628 adds this section to provide that Government Code Chapter 2267 does not apply to Local Government Code Chapter 302 relating to energy savings performance contracts for local governments, including political subdivisions.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Section 372.0175

SB 422 adds this section to authorize a municipality or county to contract with a taxing unit, as defined by Tax Code Section 1.04, or the board of directors of a CAD to perform the duties of the municipality or county relating to the collection of a special assessment levied for a public improvement district.

Effective June 17, 2011.

Occupations Code

Section 1103.002

HB 2375 adds enforcement of standards for the appraisal of real property to the purpose of this chapter.

Effective June 17, 2011.

Section 1103.003

HB 2375 amends subdivision (1) to change the definition of appraisal to be an opinion of value or the act or process of developing an opinion of value.

Effective June 17, 2011.

Section 1103.004

HB 2375 amends subsection (b) to revise and clarify language permitting real estate brokers or their salespersons to provide certain property value analyses, opinions and conclusions under specified conditions.

Effective June 17, 2011.

Section 375.091

SB 1234 strikes subsection (b) relating to the general powers of a municipal management district, including the power to levy ad valorem taxes for the construction, maintenance and operation of macadamized, graveled or paved roads and turnpikes and the power to levy ad valorem taxes to provide for mass transit systems in the manner and subject to the limitations provided in Texas Constitution Article III, Section 52 and Article III, Section 52(a).

Effective September 1, 2011.

Section 375.0921

SB 1234 creates this section to reenact the power of a municipal management district to levy ad valorem taxes to provide for mass transit systems under Sections 52 and 52-a in Article III of the Texas Constitution and to authorize a district to design, acquire, construct, finance, issue bonds for, improve, operate, maintain and convey to this state, a county or a municipality for the operation and maintenance of macadamized, graveled or paved roads or improvements, including storm drainage, in aid of those roads.

Effective September 1, 2011.

Section 375.209

SB 1234 adds this section to require the board of a municipal management district to provide for the annual imposition of a continuing direct annual ad valorem tax while all or part of bonds are outstanding as required and in the manner provided by Water Code Sections 54.601 and 54.602.

Effective September 1, 2011.

Section 1103.201

HB 2375 amends subsection (a) to prohibit a person from performing a real estate appraisal unless the person is licensed or certified as an appraiser under this chapter (with limited exceptions). The bill also prohibits a person who does not hold the appropriate license or certification from using the title “state-certified real estate appraiser” and from referring to his or her appraisal as a “certified appraisal.”

Effective June 17, 2011.

Section 1103.206

HB 2375 amends subsection (b) to require the TALCB to include a review of appraisal experience of all applicants for real estate appraiser certification.

Effective June 17, 2011.

Section 1103.208

HB 2375 repeals this section regarding a provisional license for certain appraiser trainees.

Effective June 17, 2011.



Section 1103.209

HB 2375 amends subsection (a) to require the TALCB to issue a reciprocal real estate appraisal license or certificate to an applicant from another state under certain specified conditions.

The bill amends subsections (e) and (f) to require the TALCB commissioner to send a copy of material served against an out-of-state applicant to the applicant's address of record and verify that an out of state applicant's certificate or license is active.

The bill amends subsection (g) to provide a reciprocal certificate or license expires on the second anniversary of the last day of the month in which it was issued.

The bill also repeals subsection (b), which prohibited TALCB from accepting applications from applicants from states that refuse to offer reciprocal treatment to residents of this state who are certified or licensed under this chapter.

Effective June 17, 2011, but applies only to an application for a reciprocal certificate or license that is submitted on or after the effective date.

Section 1103.2091

HB 2375 adds this section to permit the TALCB to issue a probationary certificate or license, or approve real estate appraiser trainees on a probationary basis. A person under probation under this section must disclose this probationary status to all clients before accepting an assignment.

Effective June 17, 2011.

Section 1103.2111

HB 2375 adds this section to provide for the late renewal of a real estate appraisal certificate, license or trainee approval. The bill specifies late renewal deadlines, renewal fees, expiration date and other matters related to late renewals.

Effective June 17, 2011, but applies only to renewals that expired on or after the effective date.

Section 1103.258

HB 2375 amends subsection (b) to provide that appraisal license applicants who fail the examination three consecutive times may not apply for reexamination or submit new license applications unless he or she submits evidence of completed additional education.

Effective June 17, 2011.

Section 1103.304

HB 2375 adds this section to allow a person to obtain one 90-day extension of a temporary appraisal registration under this subchapter by completing an approved form and paying a fee.

Effective June 17, 2011.

Section 1103.356

HB 2375 adds this section to allow a person to renew an approval as an appraiser trainee by paying a renewal fee, providing satisfactory evidence of completion of required continuing education and meeting any other renewal requirements.

Effective June 17, 2011.

Section 1103.403

HB 2375 amends this section to require a licensed appraiser to report changes in address, email address or telephone number to the TALCB and pay any required fee.

Effective June 17, 2011.

Sections 1103.5011 and 1103.5012

HB 2375 adds these sections to allow the TALCB commissioner to send to an appraiser against whom a complaint has been filed a notice of violation summarizing the alleged violation, stating the recommended sanction and penalty, and including notice of the appraiser's right to a hearing to contest the alleged violation and recommended sanction.

The person who receives the notice of violation may, within 20 days after receiving it, accept the commissioner's determination or request a hearing. If the person accepts the determination or fails to respond to the notice in a timely manner, TALCB must approve the determination and order payment of the recommended penalty, impose the recommended sanction or both.

Effective June 17, 2011, but applies only to complaints filed on or after the effective date.

Section 1103.518

HB 2375 amends this section to remove language requiring an administrative law judge to issue an order making the case file confidential when charges are dismissed in a contested appraisal violation case.

Effective June 17, 2011.

Section 1103.522

HB 2375 amends this section to prohibit a person from applying to the TALCB for reinstatement of a certificate or license until the second anniversary of the date of surrender.

Effective June 17, 2011.

Section 1103.5511

HB 2375 adds this section to provide for a disciplinary panel to temporarily suspend an appraisal license or certification without notice or hearing under certain conditions.

Effective June 17, 2011.



Section 1103.552

HB 2375 amends this section to allow the TALCB to impose an administrative penalty for a violation of this chapter or a rule adopted or order issued by TALCB. The penalty must be paid not later than the 20th day after the date the order imposing the penalty becomes final.

Effective June 17, 2011.

Section 1151.160

HB 1179 amends subsection (a) to conform the subsection to other language in this section by replacing “an employee of a taxing unit’s tax office” with the term “registrant.”

The bill amends subsection (c) to require a person to obtain certification as a registered professional appraiser by successfully completing the certification requirements established by TDLR rule; or, if the person is certified or licensed as an appraiser by the TALCB, by passing the appropriate examination required by law. The bill adds subsections (d) and (e) to make conforming changes.

The bill adds subsection (f) to allow a break in service of less than five years, other than periods resulting from termination by cause. A registrant who has a break in service is entitled to an adjustment of a certification deadline by the length of the break in service.

The bill adds subsection (g) to entitle a registrant to a one-year extension of a certification deadline if the applicant meets any of several specified conditions.

The bill adds subsection (h) to require TDLR to establish reasonable qualifications for reapplication for a registration by an applicant who does not meet the requirements of subsection (g) or Section 1151.1605.

The bill adds subsection (i) to require TDLR to adopt rules as necessary to implement this section.

Effective June 17, 2011.

Section 1151.1605

HB 1179 adds this section to allow a person who has not satisfied the certification requirements by the required deadline to apply for reinstatement of a registration if he or she was registered before December 31, 2010 as a Class II collector, a Class III appraiser or a Class III assessor-collector. A qualified person may apply for reinstatement if, before December 31, 2011, he or she pays a \$250 fee and files the proper reinstatement application form. A reinstated application expires on December 31, 2013, and may not be renewed unless the applicant satisfies all registration, certification, education and examination requirements before that date. If an applicant satisfies these requirements, the registration date is the same as the date the requirements were completed.

Effective June 17, 2011.

Section 1151.165

HB 1179 adds this section to allow the TDLR to adopt rules to allow a registrant to place a registration issued by TDLR on inactive status.

Effective June 17, 2011.

Section 1201.2055

HB 1510 amends subsection (d) to require an owner who elects to treat a manufactured home as real property to notify the chief appraiser of the applicable CAD that the owner has filed in the county’s real property records a certified copy of the statement of ownership and location that reflects the fact that the owner has elected to treat the manufactured home as real property.

The bill amends subsection (e) to specify that a real property election for a manufactured home is not considered perfected until a certified copy of the statement of ownership and location has been filed and TDHCA and the chief appraiser have been notified of the filing.

The bill repeals subsection (f), which required TDHCA and the chief appraiser to note in their records whether or not a real property election had been perfected.

The bill amends subsection (g) to provide that after a real property election is perfected under subsection (e) the home is considered real property for all purposes and no additional issuance of a statement of ownership and location is required for the manufactured home unless:

- the home is moved from the specified location;
- the real property election is changed; or
- the use of the property is changed as described by Section 1201.216.

Effective September 1, 2011.

Section 1201.206

HB 1510 repeals subsection (d), which required a manufactured home seller to file an application for a new statement of ownership and location under certain circumstances.

Effective September 1, 2011.

Section 1201.207

HB 1510 amends subsection (c) to provide that, if an authorized lienholder releases a lien on a manufactured home, TDHCA may issue a subsequent statement of ownership and location for the home. TDHCA may alter the record of the ownership or lien status to release a lien if an authorized lienholder files a request for that release.

Effective September 1, 2011.

Section 1201.2076

HB 1510 amends subsection (a) to remove the requirement that TDHCA notify the appropriate tax assessor-collector of the conversion of a manufactured home from real property to



personal property before issuing a statement of ownership and location.

Effective September 1, 2011.

Section 1201.217

HB 1510 amends subsection (a) to allow an owner of real property on which a manufactured home owned by another is located to declare the home abandoned if it has been continuously unoccupied for at least four months and any indebtedness secured by it or related to a lease agreement between the owner of the real property and the owner of the home is considered delinquent.

Effective September 1, 2011.

Section 1201.219

HB 1510 adds subsection (b-1) to provide that a lien perfected with TDHCA may be released only by filing a request for the release on the proper TDHCA form or by following the TDHCA procedures for electronic lien release provided on the TDHCA website. This subsection does not apply to the release of a tax lien perfected with TDHCA.

The bill amends subsection (d) to specify that a tax lien on a manufactured home not held in a retailer's inventory is

perfected only by filing with TDHCA the notice of the tax lien on the proper form. A tax lien perfected with TDHCA may be released only by filing a tax certificate or tax paid receipt and filing a request for the release with TDHCA on the proper form or through the TDHCA website.

Effective September 1, 2011.

Section 1201.220

HB 1510 amends this section to require TDHCA to make available on request (rather than provide) to each chief appraiser a monthly report of transfers of ownership of manufactured homes and reports of manufactured homes having been installed.

Effective September 1, 2011.

Section 1201.452

HB 1510 amends subsection (b) to strike the provision that a manufactured home owner must, if the home does not have the appropriate seal or label, submit to TDHCA a copy of any written disclosure required under Section 1201.455(a).

Effective September 1, 2011.

Penal Code

Section 36.05

HB 1856 amends subsections (d), (e) and (f) to specify that tampering with a witness is punishable as a third-degree felony unless it is part of the prosecution of a criminal case. Tampering with a witness in a criminal case is punishable as the most serious offense charged in the case unless the most serious offense is a capital felony in which case an offense is a first degree felony. In this case, tampering with a witness would be punishable as a first-degree felony. If an offense under this section also constitutes an offense under any other law, the offender may be prosecuted under either or both laws.

Effective September 1, 2011, but applies only to an offense committed on or after the effective date.

Section 36.07

SB 1269 amends this section to provide that transportation, lodging and meals are not political contributions as defined by Election Code Title 15.

Effective September 1, 2011.

Section 36.10

SB 1269 amends this section to provide that Section 36.08 (Gift to Public Servant) and Section 36.09 (Offering Gift to Public Servant) do not apply to transportation, lodging and meals.

Effective September 1, 2011.

Property Code

Section 5.012

HB 1821 amends this section to add information to the currently required notice that certain sellers of residential real property subject to membership in a property owners' association must provide to a purchaser. Among other items, the notice must include a statement that reads substantially similar to: "A resale certificate contains information including, but not limited to, statements specifying the amount and frequency of regular assessments and the style and cause number of lawsuits to which the property owners' association is a party, other than lawsuits relating to unpaid ad valorem taxes of an individual member of the association."

Effective January 1, 2012, but applies only to a sale of property that occurs on or after the effective date. For the purposes of this subsection, a sale of property occurs before the effective date if the executory contract binding the purchaser to purchase the property is executed before that date.

Section 5.027

SB 1496 adds this section to provide that a correction instrument may correct an ambiguity or error in a recorded original instrument of conveyance to transfer real property or an interest in real property, including an ambiguity or error that relates to the description of or extent of the interest conveyed. However,



a correction instrument cannot make these corrections for real property or an interest in real property that was not originally conveyed in the instrument of conveyance for the purpose of a sale of real property under power of sale under Chapter 51 unless the conveyance otherwise complies with all requirements under that chapter. A correction instrument is subject to Section 13.001, which relates to the validity of unrecorded instruments.

Effective September 1, 2011.

Section 5.028

SB 1496 adds this section to authorize a person who has personal knowledge of facts relevant to the correction of a recorded original instrument of conveyance to execute a correction instrument to make a nonmaterial change that results from a specified clerical error. A correction instrument can include an acknowledgement or authentication that is required and was not included in the recorded original instrument. A person who executes a correction instrument must:

- disclose in the instrument the basis for the person's personal knowledge of the relevant facts;
- record the instrument and evidence of notice, if applicable, in each county in which the original instrument is recorded; and
- send a copy to each party of the original instrument (including heirs, if applicable) if the correction instrument is not signed by each party to the original instrument.

Effective September 1, 2011.

Section 5.029

SB 1496 adds this section to authorize parties to an original transaction or the parties' heirs, successors or assigns, as applicable, to execute a correction instrument to make a specified material correction (in addition to nonmaterial corrections) to a recorded original instrument of conveyance. A correction instrument must be executed by each party to the recorded original instrument or, if applicable, a party's heirs, successors or assigns, and the correction instrument must be recorded in each county in which the original instrument is recorded.

Effective September 1, 2011.

Section 5.030

SB 1496 adds this section to provide that a correction instrument that complies with newly added Sections 5.028 and 5.029 is:

- effective as of the effective date of the recorded original instrument of conveyance;
- prima facie evidence of the facts stated in correction instrument;
- presumed to be true;
- subject to rebuttal; and
- a notice to subsequent buyers of the facts stated in the correction instrument.

If a property is subject to a correction instrument, a *bona fide* purchaser of property may rely on the instrument against any person making an adverse or inconsistent claim.

Effective September 1, 2011.

Section 5.031

SB 1496 adds this section to provide that a correction instrument that is recorded before September 1, 2011, substantially complies with newly added Sections 5.028 and 5.029 and purports to correct a recorded original instrument of conveyance, is effective to the same extent as provided by newly added Section 5.030 unless a court of competent jurisdiction renders a final determination that the correction instrument does not substantially comply with Sections 5.028 and 5.029.

Effective September 1, 2011.

Section 51.0022

SB 1233 adds this section to provide that a person filing a notice of a sale of residential real property under Section 51.002(b) must submit a form to the county clerk that contains the zip code for the property. When a sale of real property is completed, the trustee or sheriff must submit to the county clerk a completed form with the zip code and indicating whether the property is residential. A county clerk must submit the form to TDHCA not later than the 30th day after receipt. TDHCA's board must prescribe the form, which may only request information on whether the property is residential and the zip code of the property. TDHCA must report quarterly on information received under this section to the Legislature in a format established by rule by the TDHCA board.

Effective June 17, 2011, but applies only to a notice of sale filed on or after January 1, 2012.

Section 64.001

SB 1368 adds this section to provide that the newly added Chapter 64, Authority of Co-Owner to Encumber Residential Property, applies only to residential property that:

- has residential improvements primarily designed for not more than four families;
- is not more than 10 acres of land;
- is owned by more than one person; and
- for which at least one co-owner has received a residence homestead exemption under Tax Code Section 11.13.

Effective June 17, 2011.

Section 64.002

SB 1368 adds this section to authorize a co-owner of residential property to act in the name of and on behalf of another co-owner (whether known or unknown) as the co-owner's statutory agent and attorney-in-fact for the purposes of entering into contracts that give rise to a mechanic's and materialman's lien



and to execute a deed of trust for the purposes of preserving or improving the property. This authorization applies when:

- the co-owner has occupied the property for more than five years;
- the co-owner has a residence homestead exemption for the property under Tax Code Section 11.13;
- the occupying co-owner has paid all assessed ad valorem taxes without delinquency and without contribution from the other co-owner for the five past years; and
- the occupying co-owner files the required documentation.

Effective June 17, 2011.

Section 64.003

SB 1368 adds this section to provide that an occupying co-owner of a residential property may establish the authority to act as an agent and attorney-in-fact for another co-owner by filing certain documentation in the county clerk's office of the county in which the property is located, including a certificate from the tax assessor-collector for the applicable county affirming that the co-owner has paid all taxes assessed against the real property for the preceding five years without delinquency.

Effective June 17, 2011.

Section 64.004

SB 1368 adds this section to limit the authority of the occupying co-owner to act as an agent and attorney-in-fact to enter into a contract giving rise to a mechanic's and materialman's lien and to execute a deed of trust for the purpose of preserving or improving the residential property. The occupying co-owner is the sole obligor of the debt incurred under the contract and secured by the deed of trust. A lien that arises under a contract entered into by an occupying co-owner is not subject to repudiation or disaffirmance by another co-owner.

Effective June 17, 2011.

Transportation Code

Section 173.002

HB 3030 adds subdivision (2-a) to define commuter rail service as the transportation of passengers and baggage by rail between locations in a district.

Effective September 1, 2011.

Section 173.256

HB 3030 amends subsection (b) to allow an intermunicipal commuter rail district to enter into an interlocal contract with one or more local government members (rather than a local government member) to finance transportation infrastructure constructed or to be constructed in the territory of the local governments (rather than government) by the district.

The bill amends subsection (d) to provide an exception under subsection (d-1) to the limitation on the amount a local

Section 82.118

HB 364 adds subsection (c) to require that, not later than the 90th day after the date on which a condominium unit owner changes mailing address, the owner must provide written notice of the owner's new address to the CAD in which the condominium is located.

Effective September 1, 2011, but applies only to a condemnation proceeding in which the condemnation petition is filed on or after the effective date and to any property condemned through the proceeding.

Section 82.153

HB 364 amends subsection (a) to require that a condominium information statement for a condominium located wholly or partly in a municipality with a population of more than 1.9 million that the unit owner shall notify the CAD in writing of a change in the unit owner's mailing address not later than the 90th day after the date on which the unit owner changes the address.

Effective September 1, 2011, but applies only to a condemnation proceeding in which the condemnation petition is filed on or after the effective date and to any property condemned through the proceeding.

Section 207.003

HB 1821 amends this section to provide that the resale certificate a property owner's association must provide upon request does not have to contain pending lawsuits to which the property owners' association is a party, if the lawsuit relates to unpaid ad valorem taxes of an individual member of the association.

Effective January 1, 2012, but applies only to a request for information received by a property owners' association on or after the effective date.

government will pay to a district, which is equal to 30 percent of the increase in property tax collections for the specified period.

The bill adds subsection (d-1) to provide that a transportation infrastructure zone of a district established before January 1, 2005 may consist of a contiguous or noncontiguous geographic area in the territory of one or more local governments and must include a commuter rail facility or the site of a proposed commuter rail facility. The amount paid by a local government under subsection (d) to a district established before January 1, 2005 may not exceed the increase in property tax collections in the zone for the specified period.

Effective September 1, 2011.



Section 173.305

HB 3030 adds this section to require an intermunicipal commuter rail district established before January 1, 2005 that creates a transportation infrastructure zone to establish a tax increment fund. The bill requires a district to deposit in the tax increment fund certain specified bond revenue, property sales revenue and other revenue in addition to the appropriate tax increment.

Effective September 1, 2011.

Section 173.306

HB 3030 adds this section, which applies only to an intermunicipal commuter rail district created before January 1, 2005, to allow a local government member of a district creating a transportation infrastructure zone to issue tax increment bonds or notes, including refunding bonds, secured by revenue in the local government's tax increment fund.

Effective September 1, 2011.

Section 222.105

HB 563 adds property improvement to the purposes of city and county transportation reinvestment zones and clarifies that one purpose of these reinvestment zones is to enhance a local entity's ability to sponsor an authorized transportation project.

Effective September 1, 2011.

Section 222.106

HB 563 amends subsection (b) to specify that this section applies only to a city in which a transportation project is to be developed under an agreement related to vehicle toll payments under Transportation Code Section 222.104. The bill amends subsection (c) to make a nonsubstantive change.

The bill amends subsection (g) to add certain requirements in the ordinance.

The bill amends subsection (h) to require a city to deduct from its payment into the zone's tax increment account any amount allocated under previous agreements, including agreements under Local Government Code Chapter 380 or Tax Code Chapter 311.

The bill amends subsection (i) to require that all (or a portion specified by the city) of the money deposited in a tax increment account must be used to fund the designated transportation project and aesthetic improvements within the zone. The use of any remainder may be determined by the city.

The bill adds subsection (i-1) to allow the governing body of a city to contract with a public or private entity to develop, redevelop or improve a transportation project in a transportation reinvestment zone and allow the city to pledge and assign all or a specified amount of money in the tax increment account to the entity. The city is prohibited from rescinding its pledge or assignment until any bonds or other obligations secured by the pledge are paid or discharged.

The bill adds subsection (i-2) to allow a city to change the boundaries of a transportation reinvestment zone, except that it may not remove property used to secure bonds or other obligations and may not add property unless the city complies with notice, hearing and other legal requirements.

The bill amends subsections (j) and (k) to provide for the termination of a transportation reinvestment zone.

The bill amends subsection (l) to provide that a surplus remaining in a tax increment account on the termination of a zone may be used for other purposes by the city.

Effective September 1, 2011, subsections (h), (i), (i-1), (i-2), (j), (k), and (l) apply to a transportation reinvestment zone that is governed by those sections designated before the effective date.

Section 222.107

HB 563 changes the heading of the section from "Tax Abatements, Road Utility Districts" to "County Transportation Reinvestment Zones." Subsection (b) is amended to specify that this section applies only to a county in which a transportation project is to be developed under an agreement related to vehicle toll payments under Transportation Code Section 222.104.

The bill amends subsection (c) to allow a county to give tax relief other than property tax abatements and make other nonsubstantive changes.

The bill amends subsection (e) to require the inclusion of any grant of tax relief other than property tax abatements in topics the county must cover at a hearing on the creation of a transportation reinvestment zone.

The bill amends subsection (f) to require an order or resolution designating an area as a transportation reinvestment zone to, in addition to the previous requirements, provide that the base year is the year of passage of the ordinance or some year in the future and to designate the base year for purposes of establishing the tax increment base of the county.

The bill amends subsection (h) to provide that the existing authorization for a commissioners court to abate county ad valorem taxes on all or certain property located in a reinvestment zone can be for all (rather than only a portion) of the taxes, and to authorize the county to grant other relief from these taxes. The abatement or other relief must not exceed the county's tax increment for that year. All tax relief must be equal in rate.

The bill adds subsection (h-1) to allow a county to assess all or part of the cost of the transportation project against property within the transportation reinvestment zone. The bill provides for installment payments of the assessments that are not permitted to exceed the total amount of the tax abatement or other relief granted. The bill allows the county to issue bonds and make other provisions for the payment of the cost of a transportation project. The county may contract with a public or private entity to develop, redevelop or improve a transportation project in a transportation reinvestment zone and may pledge and assign all or a specified amount of money in the tax increment account to the entity.



The bill amends subsection (i) to specify that the formation of a road utility district with the same boundaries as the transportation reinvestment zone is an alternative in the development of a transportation project. The bill amends subsection (k) to specify that a road utility district formed under subsection (i) may enter into an agreement (rather than an agreement with the county) to fund development of a transportation project or to repay funds owed to TxDOT.

Subsection (k-1) is added to allow a county to change the boundaries of a transportation reinvestment zone, except that it may not remove property used to secure bonds or other obligations, and may not add property unless the county complies with notice, hearing and other legal requirements.

The bill amends subsection (l) to provide for the termination of a transportation reinvestment zone.

Effective September 1, 2011, subsections (h), (h-1), (i), (k), (k-1), and (l) apply to a transportation reinvestment zone that is governed by those sections designated before the effective date.

Section 222.108

HB 563 adds this section to authorize a city or county, notwithstanding other subsections, to establish a transportation reinvestment zone for any transportation project. In addition, if all or part of a transportation project in the zone is subject to oversight by TxDOT, TxDOT is required, at the option of the governing body of the city or county to the extent permitted by law, to delegate full responsibility for the development, design, letting of bids and construction of the project, including project oversight and inspection, to the municipality or county.

Effective September 1, 2011, but applies to a transportation reinvestment zone that is governed by those sections designated before the effective date.

Section 222.109

HB 563 adds this section to prohibit TxDOT from penalizing a city or a county with a reduction in traditional transportation funding because of the designation and use of a transportation reinvestment zone. Any funding from TxDOT committed to a project before the date that a zone is designated may not be reduced because the zone is designated in connection with that project.

Effective September 1, 2011, but applies to a transportation reinvestment zone that is governed by those sections designated before the effective date.

Section 223.049

HB 628 adds this section to authorize the Texas Department of Transportation, without complying with the competitive bidding procedures of Subchapter A, to contract with an owner of land, including a subdivision, adjacent to a highway that is part of the state highway system to construct an improvement on the highway right-of-way that is directly related to improving access to or from the owner's land. The bill sets forth the requirements for an owner that enters into a contract and provides that state and federal funds may not be used for the

design, development, financing, or construction of a highway improvement under these contracts.

Effective September 1, 2011, but applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Section 431.102

SB 1120 amends subsection (b) to create an exception to the property tax exemption of a local government corporation. Property of a local government corporation is not exempt if the corporation was created by a municipal power agency under Utilities Code Subchapter C, Chapter 163, and the property is located outside of the boundaries of each of the municipalities that created the municipal power agency.

Effective June 17, 2011.

Section 460.106

SB 1422 amends subsection (d) to provide an exception to the requirement that for a service plan to be implemented in a county participating in a county transportation authority, a majority of votes received must favor the authorization of a tax levy by the authority. This requirement does not apply to provisions under Subchapter I.

Effective September 1, 2011.

Sections 460.601, 460.602, 460.603, 460.604, 460.605, 460.606, 460.607, 460.608, 460.609, 460.610 and 460.611 (Subchapter I)

SB 1422 adds this subchapter to provide that a governing body of a municipality may designate by ordinance a contiguous geographic area in its jurisdiction as a public transportation financing area. The geographic area must have one or more transit facilities with a structure provided for or on behalf of a transportation authority for embarkation and disembarkation from public transportation services provided by the authority and must include an area one-half mile on either side of the proposed service route served by this structure, to the extent that the area is included in the municipality's boundaries.

Effective September 1, 2011.

Section 521.063

HB 266 adds this section to require the Department of Public Safety to establish a system by rule to ensure that addresses of driver's license holders are verified and matched to U.S. Postal Service delivery addresses through the use of address-matching software. The software must meet certification standards under CASS adopted by the U.S. Postal Service for the preparation of bulk mailings. If the department contracts with a provider for bulk mailing services, the contract must require that the provider use address-matching software that meets or exceeds CASS certification standards.

Effective September 1, 2011.



Water Code

Section 68.303

SB 1104 amends this section to provide that, if appraisal records do not accurately reflect the address or do not show the physical location of a particular facility, a ship channel security

district is required to provide notice of a hearing for a proposed assessment to each facility owner at the facility's physical location as reflected by any other information available.

Effective May 20, 2011.

Session Law

HB 2785 establishes a Select Committee on Economic Development composed of 12 members, four appointed by the governor, four by the lieutenant governor and four by the speaker of the House of Representatives. The bill specifies the number of public members and members in certain occupations, and requires that the appointments be made not later than November 1, 2011. The Governor selects the presiding officer of the committee and the committee meets at the call of the presiding officer.

The bill requires that, not later than January 1, 2013, the committee shall submit a report of the committee's findings, studies and recommendations to the governor, lieutenant governor, speaker of the House of Representatives and each member of the Legislature. The committee is abolished and this act expires on September 1, 2013.

Effective September 1, 2011.

SB 1 (1st CS) provides that, for a school district that, before May 1, 2011, received from the commissioner of education a notice of reduction in state funding for the 2004-2005, 2005-2006, 2006-2007, 2007-2008 and 2008-2009 school years based on the district's reporting related to deposits of taxes into a tax increment fund under Tax Code Chapter 311, commissioner of education shall reduce by one-half certain entitlement reductions computed to adjust for taxes paid into a tax increment fund for the specified school years listed. This provision expires September 1, 2013.

September 28, 2011.

SB 1 (1st CS) requires the speaker of the House of Representatives and the lieutenant governor to establish a joint legislative interim committee to conduct a comprehensive study of the Texas public school finance system. The committee must make school finance recommendations to the Legislature not later than January 15, 2013.

September 28, 2011.

SB 540 requires the Comptroller to study the fiscal impact on the state and local governments that would have been created during the preceding 10 years by the adjustment of the maximum amount of the disabled veteran exemption to which a person is entitled under Tax Code Section 11.22, to reflect the percentage change from the preceding tax year in the average market value of residence homesteads in the CAD in which the property subject to the exemption is located. A state agency or local government must provide information and assistance at the Comptroller's request. The report is due to the Legislature not later than December 1, 2012.

Effective June 17, 2011.

SB 762 requires the Finance Commission to conduct a study regarding the fees, costs, interest and other expenses charged to property owners by property tax lenders in conjunction with the transfer of property tax liens and the payoff of loans secured by property tax liens. The study is due to the Legislature not later than June 1, 2012.

Effective September 1, 2011.

Texas Constitution

Article VIII, Section 1-b

SJR 14 adds subsection (j) to authorize the Legislature to provide a property tax exemption to the surviving spouse of a 100 percent or totally disabled veteran who qualified for an exemption on the disabled veteran's residence homestead when the disabled veteran died. A surviving spouse is entitled to an exemption of the same portion of the market value of the same property to which the disabled veteran's exemption applied if the surviving spouse has not remarried since the death of the disabled veteran; the property was the residence homestead of the surviving spouse when the disabled veteran died; and remains the residence homestead of the surviving spouse.

The resolution adds subsection (k) to authorize the Legislature to provide that, if a surviving spouse qualifies for this exemption and subsequently qualifies a different property as a residence homestead, the surviving spouse is entitled to an exemption in an amount equal to the dollar amount of the exemption of the former homestead in the last year in which the surviving spouse received an exemption. To receive an exemption in a subsequent homestead, the surviving spouse cannot have remarried since the death of the disabled veteran.

This amendment will be put before voters in an election to be held on November 8, 2011.



Article VIII, Section 1-d-1

SJR 16 amends subsection (a) to add water stewardship to the list of land uses that qualify for appraisal based on the land's productive capacity under open-space land.

This amendment will be put before voters in an election to be held on November 8, 2011.

Article VIII, Section 1-g

HJR 63 amends subsection (b) to authorize the Legislature to allow a county to issue bonds or notes to finance the development or redevelopment of an unproductive, underdeveloped or blighted area within the county, and to pledge increases in ad valorem tax revenue in the area for repayment of those bonds or notes.

This amendment will be put before voters in an election to be held on November 8, 2011.

Article XI, Section 5

SJR 26 adds subsection (b) to authorize the Legislature by general law to allow cities to enter into interlocal contracts with other cities or counties without meeting the current assessment and sinking fund requirement. This existing requirement prohibits a city from creating a debt unless at the same time a provision is made to assess and collect annually enough to pay the interest and creating a sinking fund of at least 2 percent. This applies to charter cities with more than 5,000 inhabitants.

This amendment will be put before voters in an election to be held on November 8, 2011.

Article XI, Section 7

SJR 26 adds subsection (b) to authorize the Legislature by general law to allow cities or counties to enter into interlocal contracts with other cities or counties without meeting the current assessment and sinking fund requirement. This existing requirement prohibits a city or county from creating a debt unless at the same time a provision is made to assess and collect annually enough to pay the interest and creating a sinking fund of at least 2 percent. This applies to all counties and cities bordering on the coast of the Gulf of Mexico.

This amendment will be put before voters in an election to be held on November 8, 2011.

Property Tax Information Services
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Texas Comptroller of Public Accounts
Publication #96-669 • Revised September 2011

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Texas Property Tax Law Changes 2013

Property Tax Assistance • Oct. 2013

Property Tax Bills: 83rd Texas Legislature, Regular

This publication includes highlights of recent legislation relating to property tax. The highlights are general summaries and do not reflect the exact or complete text of the legislation highlighted. Not all legislation impacting property tax is addressed. Please be advised that this information is being provided solely as an informational resource. The information provided is not intended for use in lieu of, or as a substitute for, the legislation referenced herein and should not be relied upon as such. Additionally, the information provided neither constitutes nor serves as a substitute for legal advice. Questions regarding the meaning or interpretation of any information included or referenced herein should, as appropriate or necessary, be directed to an attorney or other appropriate counsel.

*This session the Legislature enacted **SB 1093**, which amends numerous codes, including code sections contained in this publication, to codify laws without substantive change, appropriately renumber or reletter duplicate official citations, correct enacted codes to conform the codes to the source law from which they were derived, and revise codes or parts of codes enacted during the preceding legislative session. Law changes enacted by **SB 1093** are not included in this publication.*

*The Texas Legislative Council periodically conducts revision of state law to codify statute. The Legislature enacted **SB 1026** as part of an ongoing project of systematically codifying local laws concerning special districts. These law changes are not included in this publication.*

Governor Rick Perry vetoed two property tax bills: **SB 1606** and **HB 3063**. **SB 1606** would have amended Tax Code Section 32.01(b) to provide that a tax lien would attach to an owner's personal property owned on Jan. 1 or subsequently acquired, "irrespective of whether the personal property is located within the boundaries of the taxing unit in whose favor the lien attaches." **HB 3063** would have amended Local Government Code Section 379B.0091 to provide that specified areas inside the boundaries of a defense base development authority established under Local Government Code Chapter 379B automatically qualify as an enterprise zone as provided by Government Code Section 2303.101. The bill would have amended Local Government Code Section 379B.011 to provide that a commercial aircraft to be used as an instrumentality of commerce that is under construction inside a defense base development authority and tangible personal property to be attached to such a commercial aircraft is presumed to be in interstate, international, or foreign commerce and not located in this state for longer than a temporary period for purposes of Tax Code Sections 11.01 and 21.02. It is important to note that although this bill was vetoed, the identical amendments to Local Government Code Section 379B.011 were passed in **HB 1348**.

The following acronyms are used in this document:

ARB	appraisal review board
CAD	county appraisal district
DIR	Department of Information Resources
DPS	Texas Department of Public Safety
HB	House Bill
HJR	House Joint Resolution
LBB	Legislative Budget Board
PRB	State Pension Review Board
SB	Senate Bill
SJR	Senate Joint Resolution
SOAH	State Office of Administrative Hearings
TCEQ	Texas Commission on Environmental Quality
TDHCA	Texas Department of Housing and Community Affairs
TDLR	Texas Department of Licensing and Regulation
TxDOT	Texas Department of Transportation
TEA	Texas Education Agency
TJJD	Texas Juvenile Justice Department
TRZ	transportation reinvestment zone
TSBPA	Texas State Board of Public Accountability

The Property Tax Assistance Division at the Texas Comptroller of Public Accounts provides property tax information and resources for taxpayers, local taxing entities, appraisal districts and appraisal review boards.

For more information, visit our website at www.window.state.tx.us/taxinfo/proptax or call us toll-free at 1-800-252-9121 (press 2 to access the menu, then press 1 to contact the Information Services Team). In Austin, call 512-305-9999.



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Table of Contents

Chapter 1. General Provisions.....	3
Chapter 5. State Administration	3
Chapter 6. Local Administration	4
Chapter 11. Taxable Property and Exemptions	6
Chapter 21. Taxable Situs.....	10
Chapter 22. Rendition and Other Reports	10
Chapter 23. Appraisal Methods and Procedures	11
Chapter 25. Local Appraisal	13
Chapter 26. Assessment	13
Chapter 31. Collections	14
Chapter 32. Tax Liens and Personal Liability.....	15
Chapter 33. Delinquency	16
Chapter 34. Tax Sales and Redemption	17
Chapter 41. Local Review.....	18
Chapter 41A. Appeal Through Binding Arbitration.....	19
Chapter 42. Judicial Review.....	20
Chapter 151. Limited Sales, Excise, and Use Tax	21
Chapter 171. Franchise Tax.....	21
Chapter 311. Tax Increment Financing Act.....	22
Chapter 313. Texas Economic Development Act.....	22
Agriculture Code.....	29
Civil Practice and Remedies Code	29
Education Code.....	30
Election Code.....	30
Finance Code.....	31
Government Code	32
Health and Safety Code.....	43
Insurance Code.....	44
Local Government Code.....	44
Occupations Code	51
Penal Code.....	54
Property Code.....	54
Transportation Code.....	55
Water Code	61
Texas Constitution	74



Chapter 1. General Provisions

Section 1.07

HB 242 amends subsection (d) to add five notices to the list that must be delivered by certified mail:

1. Tax Code Section 23.46(c) notice that special appraisal will be removed and the rollback penalty imposed when land is diverted to nonagricultural use from land qualifying as agricultural under Article VIII, Section 1-d, Texas Constitution;
2. Tax Code Section 23.54(e) notice that a new application is required for open-space land appraisal;
3. Tax Code Section 23.541(c) notice of penalty for late filing of an open-space land appraisal application;
4. Tax Code Section 23.55(e) notice of a determination of a change of use of open-space land and the imposition of the rollback penalty; and
5. Tax Code Section 23.76(e) notice of a determination of a change of use from timber land and the imposition of the rollback penalty.

Effective Jan. 1, 2014.

Section 1.08

SB 1224 renames this section as “Timeliness of Action By Mail or Common or Contract Carrier.” The bill amends the section to provide that a property owner’s delivery of a required payment, report, application, statement, or other document by a specified due date is timely if it is properly addressed with postage or handling charges prepaid and is sent by common or contract carrier and either bears a receipt mark indicating a date on or earlier than the specified due date and within the specified period or the property owner furnishes proof that it was deposited with the carrier on or before the due date and within the specified period. Previous law provided only for delivery by regular first-class mail.

Effective June 14, 2013, and applies only to a payment, report, application, statement, or other document or paper sent by a property owner on or after the effective date.

Chapter 5. State Administration

Section 5.041

HB 585 adds subsection (b-1) to require that at the conclusion of the ARB training course established by the Comptroller under subsection (a) each member of an ARB in attendance at the course shall complete a statement on a Comptroller prescribed form indicating that the ARB member will comply with the legal requirements related to the conduct of ARB hearings.

The bill amends subsection (e-2) to require that during, rather than as soon as practicable after the beginning of, the second year of an ARB member’s term, the member must successfully complete the continuing education course required under

Section 1.085

HB 241 amends subsection (h) to require publication of a notice of the availability of electronic communication and delivery of electronic communication agreement forms by CADs in counties with populations of more than 200,000 or by CADs in which the chief appraiser has authorized electronic communication and has implemented a system that allows such communication.

Effective Sept. 1, 2013.

Section 1.11

HB 3439 amends subsection (b) to allow a property owner’s designated agent to revoke a property owner’s request that all notices, tax bills, and other communications relating to the owner’s property or taxes be delivered to the owner’s fiduciary. Previous law allowed only the property owner to make this revocation.

Effective Sept. 1, 2013.

Section 1.111

HB 3439 amends subsection (c) to allow a property owner’s designated agent to revoke his or her designation. The bill requires the agent revoking the designation to send notice of the revocation to the property owner at the owner’s last known address.

The bill amends subsection (i) to strike language specifying that if an ARB designates a time and place for appearance before a hearing, an agency authorization is considered to be filed at or before the hearing if a copy of the authorization is filed at the time and place designated by the ARB.

Effective Sept. 1, 2013.

subsection (e-1). At the conclusion of the course, the member is required to complete the compliance statement described by subsection (b-1). The bill prohibits a person from participating in an ARB hearing, voting on an ARB protest determination, or being reappointed to an additional term on the ARB until the person has completed the continuing education course and received the course completion certificate. Reappointed ARB members must comply with all requirements of this subsection in each year the member continues to serve.

The bill amends subsection (f) to add a chief appraiser or another employee of a CAD to the list of individuals or entities that the Comptroller is prohibited from advising on a matter that the



Comptroller knows is the subject of an ARB protest. The bill strikes ARBs from this list. The bill allows the Comptroller to advise an ARB member as authorized by subsection (a)(4) or Tax Code Section 5.103 and to communicate with an ARB chairman or a taxpayer liaison officer concerning complaints regarding an ARB filed under Tax Code Section 6.052.

Effective Jan. 1, 2014.

Section 5.103

HB 585 adds this section, regarding ARB oversight, to require the Comptroller to prepare model hearing procedures for ARBs. The model hearing procedures must address ARB duties, processes, scheduling and postponements, notices, determinations of good cause, rights of parties, prohibitions, evidence, conflicts of interests, administration of applications for ARB members, and other matters. The Comptroller is permitted to customize the model hearing procedures based on

CAD size, the number of protests or similar characteristics. An ARB is required to follow the model hearing procedures when establishing its procedures for hearings.

The Comptroller is required to prescribe the contents of a survey form for public comments and suggestions concerning ARBs. The survey form must permit a person to offer comments and suggestions concerning specified matters or any other matter related to the fairness and efficiency of an ARB. Each property owner must be provided with a copy of the survey form and instructions for its completion and submission at or before a hearing. CADs may provide clerical assistance to the Comptroller related to the survey, which may be submitted electronically. The Comptroller is required to issue an annual report summarizing the survey forms submitted by the property owners but may not disclose the identity of any person who submits a form.

Effective Jan. 1, 2014.

Chapter 6. Local Administration

Section 6.03

SB 359 amends subsection (c) to add junior college districts to the list of taxing units that are allowed to vote for the appointment of members to the CAD board of directors.

The bill amends subsection (e) to require the chief appraiser to send a notice of the number of votes to which the junior college is entitled to specified officials of each junior college district participating in the CAD.

Effective June 14, 2013, and applies only to the selection of CAD directors for terms beginning on or after Jan. 1, 2014.

Section 6.031

SB 359 adds subsection (b-1) to require a CAD board of directors to provide by resolution for the junior college districts that participate in the CAD to collectively participate in the selection of directors in the same manner as the school district that imposes the lowest total dollar amount of property taxes in the CAD. The resolution is required only if the CAD increases the number of members on the board of directors or changes the method or procedure for appointing the members as provided by law. The resolution is not subject to rejection by a resolution by a taxing unit opposing the change.

Effective June 14, 2013, and applies only to the selection of CAD directors for terms beginning on or after Jan. 1, 2014.

Section 6.035

HB 585 adds subsection (a-1) to prohibit an individual from serving on a CAD board of directors if for compensation, the individual appraised property for use in or represented property

owners in a proceeding under the Property Tax Code at any time during the preceding five years.

Effective June 14, 2013, and does not affect the eligibility of an individual serving on an CAD board of directors immediately before the effective date to complete the term to which the member was appointed.

Section 6.05

HB 585 amends subsection (c) to create an exception, as provided by Tax Code Section 6.0501, to the requirement that a chief appraiser is appointed by and serves at the pleasure of the CAD board of directors.

The bill provides that to be eligible to be appointed or serve as chief appraiser, a person must be certified as a registered professional appraiser, possess an MAI professional designation from the Appraisal Institute, or possess an Assessment Administration Specialist (AAS), Certified Assessment Evaluator (CAE) or Residential Evaluation Specialist (RES) professional designation from the International Association of Assessing Officers. If a person is eligible to be appointed or serve by having a professional designation, the person must become certified as a registered professional appraiser not later than the fifth anniversary of the date the person is appointed or begins to serve as chief appraiser. An ineligible chief appraiser may not perform any actions authorized or required of a chief appraiser. Not later than Jan. 1 of each year, a chief appraiser must notify the Comptroller in writing that he or she is either eligible or ineligible to be appointed or serve as chief appraiser.

The bill amends subsection (d) to create exceptions, as provided by Tax Code Section 6.0501, to a chief appraiser's entitlement to compensation as provided by the budget adopted by the



board of directors, and to a chief appraiser's authorization to hire and compensate CAD personnel.

Effective Jan. 1, 2014, and a chief appraiser in a CAD in a county with a population of 100,000 or less on the effective date who is not eligible to be appointed or serve as a chief appraiser under this section but who is registered with TDLR and classified as a Class III appraiser under TDLR rules may continue to serve as the chief appraiser until Jan. 1, 2016.

Section 6.0501

HB 585 adds this section regarding the appointment of an eligible chief appraiser by the Comptroller. If a chief appraiser is ineligible to serve, the bill requires the Comptroller to appoint a new chief appraiser. The new chief appraiser must be a person eligible to be a chief appraiser under Tax Code Section 6.05(c) or a person who has previously been appointed or served as a chief appraiser.

The chief appraiser appointed by the Comptroller serves until the earlier of:

- the first anniversary of the date the Comptroller appoints the chief appraiser; or
- the date the CAD board of directors appoints a chief appraiser under Tax Code Section 6.05(c) or contracts with a CAD or a taxing unit to perform the duties of the appraisal office under Tax Code Section 6.05(b).

The Comptroller is required to determine the compensation of a chief appraiser appointed under this section and the appointed chief appraiser is required to determine the appraisal office budget subject to the approval of the Comptroller. The CAD board of directors is required to amend the budget as necessary to compensate the appointed chief appraiser and fund the appraisal office as determined.

A CAD that does not appoint a chief appraiser or contract with a CAD or a taxing unit to perform the duties of the appraisal office by the first anniversary of the date the Comptroller appoints a chief appraiser must contract with a CAD, taxing unit, or a qualified public or private entity to perform the CAD's legal duties, subject to the Comptroller's approval.

Effective Jan. 1, 2014.

Section 6.052

HB 585 amends subsection (a) to lower the county population threshold above which the CAD board of directors must appoint a taxpayer liaison officer from 125,000 to 120,000. The bill adds to the taxpayer liaison officer's duties the responsibility of receiving and compiling a list of comments and suggestions filed by a chief appraiser, a property owner, or property owner's agent regarding specified matters related to ARBs. The taxpayer liaison officer is required to forward the list of comments and suggestions to the Comptroller in the form and manner prescribed by the Comptroller.

The bill amends subsection (b) to require (rather than authorize) a taxpayer liaison officer to provide to the public certain information and materials. The bill adds the procedure for filing comments and suggestions under subsection (a) or a complaint under Tax Code Section 6.04(g) to the information and materials required to be provided to the public. The bill requires that information concerning the process for submitting comments and suggestions to the Comptroller concerning an ARB be provided at each protest hearing.

The bill amends subsection (c) to require the taxpayer liaison officer to report to the CAD board at each meeting on the status of all comments and suggestions filed with the officer under subsection (a).

The bill amends subsection (e) to add a person who performs legal services for the CAD for compensation to the persons who are not eligible to be the taxpayer liaison officer.

The bill adds subsection (f) to make the taxpayer liaison officer responsible for providing clerical assistance to the local administrative district judge in the selection of ARB members. The taxpayer liaison officer is required to deliver to the local administrative district judge any applications to serve on the ARB that are submitted to the officer and to perform other duties as requested by the judge. The taxpayer liaison officer is prohibited from influencing the process for selecting ARB members.

Effective Jan. 1, 2014.

Section 6.231

SB 546 adds this section, relating to continuing education. The bill adds subsection (a) to require a county assessor-collector to successfully complete 20 hours of continuing education before each anniversary of the date on which he or she takes office. The continuing education must include at least 10 hours of instruction on laws related to the assessment and collection of property taxes if the assessor-collector assesses or collects property taxes.

The bill adds subsection (b) to provide that in addition to the requirement in subsection (a), a county assessor-collector must successfully complete continuing education courses on ethics and on his or her constitutional and statutory duties not later than the 90th day after the date on which he or she first takes office.

The bill adds subsection (c) to provide that the required continuing education courses must be approved by a state agency or an accredited institution of higher education as described.

The bill adds subsection (d) to require a county assessor-collector to file annually a continuing education certificate of completion with the county commissioners court.

The bill adds subsection (e) to authorize a county assessor-collector to carry forward from one 12-month period to the next not more than 10 continuing education hours completed in excess of the required 20 hours.



The bill adds subsection (f) to provide that for purposes of removal of a county assessor-collector under Subchapter B, Chapter 87, Local Government Code, “incompetency” includes the failure to complete the continuing education requirements.

Effective Jan. 1, 2014. A county tax assessor-collector who holds office on Jan. 1, 2014 is required to complete the continuing education required by subsection (a) of Tax Code Section 6.231, as added by this Act, not later than Jan. 1, 2015, and is not required to complete the continuing education course required by subsection (b) of Tax Code Section 6.231, as added by this Act.

Section 6.41

HB 585 amends subsection (d-1) by reducing the threshold at or above which members of an ARB are appointed by the local administrative district judge to counties with a population of 120,000 or more. The bill also requires that all applications submitted to a CAD or to an ARB from persons seeking appointment to an ARB be delivered to the local administrative district judge and allows a CAD to provide the judge with information regarding the applicant’s or an ARB member’s delinquent property tax status.

The bill amends subsection (f) to add clear and convincing evidence of repeated bias or misconduct to the grounds for removal from an ARB.

The bill adds subsection (i) to specify that if certain persons communicate with the local administrative district judge regarding the appointment of ARB members those persons are committing an offense and exempts specified communications from this prohibition. This subsection applies only to CADs in which a local administrative district judge appoints the ARB members.

The bill adds subsection (j) to specify that a chief appraiser or another employee or agent of the CAD commits an offense if that person communicates with a member of the ARB, a member of the CAD board of directors, or, if the CAD is subject to subsection (d-1), the local administrative district judge regarding a ranking, scoring or reporting of the percentage by which the ARB or ARB panel reduces the appraised value of property.

The bill adds subsection (k) to classify offenses under subsection (i) or (j) as a Class A misdemeanor.

Effective Jan. 1, 2014, and applies only to the appointment of ARB members to terms beginning on or after the effective date

and does not affect the term of an ARB member serving on Dec. 31, 2013, if the member was appointed before Jan. 1, 2014, to a term that began before Dec. 31, 2013, and expires Dec. 31, 2014. As soon as practicable on or after the effective date, the local administrative district judge or the judge’s designee in a county described by subsection (d-1) must, in the manner provided by this section, appoint ARB members for the CAD and in making the initial appointments, designate those members who serve terms of one year as necessary to comply with subsection (e).

Section 6.411

HB 585 amends section (c-1) to add communications with an ARB member by a property tax consultant or attorney representing a party to an ARB proceeding to the communications that are permitted under certain circumstances.

Effective June 14, 2013, and applies only to an offense committed on or after the effective date. If any element of the offense was committed before the effective date the offense is considered to be committed before the effective date.

Section 6.412

HB 3438 amends subsection (d) to provide that (among other reasons for ineligibility) a person is ineligible to serve on the ARB of a CAD in a county with a population of more than 100,000 if the person appeared before the ARB for compensation during the two-year period preceding the date the person is appointed (rather than if the person has ever appeared before the ARB for compensation).

Effective Sept. 1, 2013.

HB 326 amends subsection (d) to strike the provision that a person is ineligible to serve on the ARB in a county with a population of more than 100,000 if the individual has served all or part of three previous non-consecutive terms as an ARB member or auxiliary ARB member.

The bill amends subsection (e) to provide that the restriction on serving during a term that begins on the next Jan. 1 following three consecutive terms served entirely or in part applies to ARB members in all counties, rather than applying only to ARB members in counties with populations of less than 100,000.

The bill repeals subsection (f), which made the section applicable to certain auxiliary board members.

Effective June 14, 2013.

Chapter 11. Taxable Property and Exemptions

Section 11.13

HB 2913 amends subsection (j) to add a beneficiary of a trust as one of the types of occupants who may qualify for a residence homestead exemption if the other legal requirements are met. The bill revises the definition of a “trustor” to mean a person who transfers an interest in real or personal (rather than

residential) property to a qualifying trust, whether during the person’s lifetime or at death (rather than by deed or by will), or the person’s spouse. The bill revises the definition of a “qualifying trust” to add an instrument transferring property to the trust, or any other agreement that is binding on the trustee to the list of instruments of which one instrument must provide



that the trustor of the trust or a beneficiary of the trust has the right to use and occupy as the trustor's or beneficiary's principal residence residential property rent free and without charge, except for taxes and other costs and expenses specified in the instrument or court order.

Effective Sept. 1, 2013, and except as otherwise expressly provided by a trust or a will creating a trust, the changes made by this bill apply to a trust existing or created on or after the effective date. For a trust existing on Sept. 1, 2013, that was created before that date, the changes in law made by this bill apply only to an act or omission relating to the trust that occurs on or after Sept. 1, 2013.

Section 11.132

HB 97 (Chapter 122, 83rd Regular Session) adds this section to require a property tax exemption equal to a disabled veteran's disability rating (if the disability rating is less than 100 percent) on the disabled veteran's residence homestead if the homestead was donated to the disabled veteran by a charitable organization at no cost to the disabled veteran.

The bill extends the exemption to the surviving spouse of a disabled veteran who died after qualifying for the exemption if the surviving spouse has not remarried and the property was the homestead of the surviving spouse when the disabled veteran died and remains the residence homestead of the surviving spouse. The exemption for the surviving spouse is the same percentage of the appraised value to which the disabled veteran exemption applied.

The bill provides that a surviving spouse who is qualified for the exemption is entitled to the exemption on a subsequent homestead in the same dollar amount received for the exemption on the former homestead in the last year the surviving spouse received the exemption on that homestead if the surviving spouse has not remarried. The bill requires the chief appraiser of the CAD in which the former exempt homestead was located to provide the surviving spouse a written certificate providing the information necessary to determine the amount of the exemption on the subsequently qualified homestead.

The bill defines "charitable organization," "disability rating," "disabled veteran," "residence homestead," and "surviving spouse" by reference to various sections of the federal Internal Revenue Code and the Tax Code.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

SB 163 (Chapter 138, 83rd Regular Session) adds this section to grant a total property tax exemption on the residence homestead of a surviving spouse of a member of the U.S. armed services who is killed in action if the surviving spouse has not remarried since the death of the armed services member.

The bill provides that a surviving spouse who receives this exemption is entitled to receive an exemption on a subsequent homestead of the same dollar amount received for the

exemption on the former homestead in the last year the surviving spouse received the exemption on that homestead if the surviving spouse has not remarried. The bill requires the chief appraiser of the CAD in which the former exempt homestead was located to provide the surviving spouse a written certificate providing the information necessary to determine the amount of the exemption on the subsequently qualified homestead.

The bill defines "residence homestead" and "surviving spouse."

Effective Jan. 1, 2014, contingent on voter approval of HJR 62, and applies only to a tax year beginning on or after Jan. 1, 2014.

Section 11.18

HB 294 amends subsection (p) to apply the exemption authorized under subsection (d)(23) to all property used to provide charitable housing and related services to the homeless in specified instances. Previous law exempted only the property improvements. The bill provides that the exemption applies only to property that is owned by a qualifying charitable organization that has been in existence for 12 years and that is located on or consists of a single campus in a city with a population of more than 750,000 and less than 850,000 or within the extraterritorial jurisdiction of such a city.

The bill adds subsection (p-1) to provide that the exemption authorized by subsection (d)(23) applies to real property regardless of whether the real property is considered to constitute a building within the meaning of this section.

Effective Jan. 1, 2014, and applies only to a tax year that begins on or after the effective date.

Section 11.182

SB 193 amends subsection (g) to require that the audit that a community housing development organization is required to prepare must be delivered to TDHCA and to the chief appraiser of the CAD in which the property is located to receive an exemption under this section on property used for low-income and moderate income housing.

Effective Jan. 1, 2014.

Section 11.1826

SB 193 amends subsection (b) to provide that the audit that an organization owning or controlling the owner of low-income housing is required to prepare must be delivered to TDHCA and to the chief appraiser of the CAD in which the property is located, as provided, for an organization to receive an exemption for constructing or rehabilitating low-income housing pursuant to Tax Code Section 11.1825.

The bill amends subsection (c) to allow the chief appraiser, for good cause shown, to extend the audit delivery deadline (180 days after the end of the fiscal year).

Effective Jan. 1, 2014.



Section 11.251

HB 3121 amends subsections (b), (c), (e), (g) and (k) to conform provisions to subsection (l).

The bill adds subsection (l) to authorize the governing body of a taxing unit to extend by official action the date by which Freeport goods that are aircraft parts must be transported outside the state from not later than 175 days to not later than 730 days after being acquired or imported into this state before losing eligibility for an exemption under this section. The action to extend the number of days applies only in the taxing unit that takes an official action to do so, applies to the tax year in which the extension is adopted if officially adopted before June 1 of that tax year, and applies to each tax year following the adoption.

Effective Jan. 1, 2014, contingent on voter approval of HJR 133, and applies only to a tax year beginning on or after Jan. 1, 2014.

Note: Many taxing units took action to tax this personal property under previous constitutional authority to do so. Legal advice must be obtained to determine the effect of this action on the taxability of aircraft parts and the official action that must be taken to extend the number of days for aircraft parts.

Section 11.271

HB 1712 adds subsection (a) to define “environmental protection agency,” “offshore spill response containment system,” and “rules or regulations adopted by any environmental protection agency of the United States.”

The bill designates the entire previous text of Tax Code Section 11.271 as subsection (b).

The bill adds subsection (c) to entitle a person to an exemption of the personal property the person owns or leases that is used constructed, acquired, stored, or installed solely as part of an offshore spill response containment system, or that is used solely for the development, improvement, storage, deployment, repair, maintenance, or testing of such a system, if the system is stored while not in use in a county bordering the Gulf of Mexico or on a bay or other body of water immediately adjacent to the Gulf of Mexico. This property that is not used for any other purpose is considered to be property used wholly as an integral part of mobile or marine drilling equipment designed for offshore drilling of oil or gas wells.

The bill adds subsection (d) to specify that subsection (c) does not apply to personal property used wholly or partly for the exploration for or production of oil, gas, sulfur or other minerals, including the equipment, piping, casing and other components of an oil or gas well. The offshore capture of fugitive oil, gas, sulfur or other minerals that is entirely incidental to the property’s temporary use as an offshore spill response containment system is not considered to be production of those substances.

The bill adds subsection (e) to specify that subsection (c) does not apply to personal property that was used, constructed,

acquired, stored or installed in this state on or before Jan. 1, 2013.

The bill adds subsection (f) providing that to qualify for an exemption under subsection (c), the person owning or leasing the property must be an entity formed primarily for the purpose of designing, developing, modifying, enhancing, assembling, operating, deploying and maintaining an offshore spill response containment system. A person may not qualify for the exemption by providing services to or for an offshore spill response containment system that the person does not own or lease.

Effective June 14, 2013, and applies only to a tax year that begins on or after the effective date.

Section 11.31

HB 1897 adds subsection (e-1) to require the executive director of TCEQ to issue a determination letter to a person seeking a pollution control property exemption and require TCEQ to take final action on an initial appeal of the pollution control property exemption determination not later than the first anniversary of the date the executive director of TCEQ declares the application to be administratively complete.

Effective Sept. 1, 2013. Not later than Sept. 1, 2014, TCEQ must adopt rules to implement this subsection.

Section 11.311

HB 1897 adds this section to provide a property tax exemption for real and personal property located on or in close proximity to a landfill and used to:

- collect gas generated by the landfill,
- compress and transport the gas,
- process the gas so that it may be delivered into a natural gas pipeline or used as a transportation fuel in methane-powered vehicles or equipment, and
- deliver the gas into a natural gas pipeline or to a methane fueling station.

This landfill methane capture property is considered to be property used as a facility, device, or method for the control of air, water, or land pollution. The exemption applies only to property used as landfill methane capture property on Jan. 1, 2014, and expires on Dec. 31, 2015.

Effective Sept. 1, 2013, and applies only to taxes imposed for a tax year beginning on or after Jan. 1, 2014. The Legislature finds that current unique market forces are a deterrent to landfill methane capture, and the limited exemption in this section will prevent the loss of facilities that help the state in reducing pollution. The Legislature further finds that the addition of this section is not an expression of legislative opinion regarding current rules adopted by TCEQ relating to the qualification of property for an exemption from taxation under Tax Code Section 11.31.



Section 11.315

HB 2712 adds this section to provide a local option for taxing units to adopt a property tax exemption of an energy storage system that is used, constructed, acquired, or installed wholly or partly to meet or exceed 40 C.F.R. Section 50.11 or any other rules or regulations adopted by any local, state or federal environmental protection agency for the prevention, monitoring, control, or reduction of air pollution and that:

- is located in a federal nonattainment area,
- is located in a city with a population of at least 100,000 adjacent to a city with a population of more than two million,
- has a capacity of at least 10 megawatts, and
- is installed on or after Jan. 1, 2014.

After adopting the exemption, the governing body of the taxing unit in the manner provided by law for official action may repeal the exemption.

The bill defines “energy storage system” as a device capable of storing energy to be discharged at a later time, including a chemical, mechanical, or thermal storage device.

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date.

Section 11.42

HB 97 amends subsection (c) to add an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) to the list of exemptions that are effective as of Jan. 1 of the tax year in which the person qualifies for the exemption and apply to the entire tax year.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

SB 163 amends subsection (c) to add an exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session) to the list of exemptions that are effective as of Jan. 1 of the tax year in which the person qualifies for the exemption and apply to the entire tax year.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.

Section 11.43

HB 1712 amends subsection (c) to add an exemption under Tax Code Section 11.271 (Offshore Drilling Equipment Not in Use) to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective June 14, 2013.

HB 2712 amends subsection (c) to add an exemption under Tax Code Section 11.315 (Energy Storage System in Nonattainment Area) to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date.

SB 163 amends subsection (c) to add an exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session) to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.

HB 97 amends subsection (c) to add an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

HB 1287 amends subsection (j) to create an exception to the requirement that the Comptroller prescribed residence homestead exemption application include a copy of the applicant’s driver’s license or state-issued personal identification certificate. An applicant who is a resident of a facility that provides services related to health, infirmity or aging, or who is certified for participation in the address confidentiality program administered by the attorney general under Subchapter C, Chapter 56, Code of Criminal Procedure is excepted from the requirement. The bill deletes the requirement that an applicant must provide a copy of the applicant’s vehicle registration receipt or, if the applicant does not own a vehicle, an affidavit to that effect and a copy of a utility bill for the subject property in the applicant’s name.

Effective Sept. 1, 2013, and applies only to an application for a residence homestead exemption filed with a chief appraiser on or after the effective date.

HB 97 amends subsection (k) to require that a person who qualifies for an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) must apply for the exemption no later than the first anniversary of the date the person qualified for the exemption.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

HB 1287 amends subsection (n) to provide an exception as provided by subsection (p), to the prohibition on a chief appraiser from allowing a homestead exemption unless the address listed on the driver’s license or identification certificate corresponds to the address of the property for which the exemption is claimed if the applicant is required to provide a driver’s license or state-issued identification certificate. The bill also deletes the requirement that the address listed on the driver’s license or identification certificate correspond to the applicant’s vehicle registration receipt or utility bill for the subject property.

The bill adds subsection (p) to allow a chief appraiser to waive the driver’s license or state-issued identification certificate requirement if the applicant is an active duty member of the armed services or the spouse of such a person, or if the



applicant is a federal or state judge or the spouse of such a judge or a peace officer, with proper documentation.

Effective Sept. 1, 2013, and applies only to an application for a residence homestead exemption filed with a chief appraiser on or after the effective date.

Section 11.431

HB 97 amends subsection (a) to include an application for a residence homestead exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) to the applications that a chief appraiser must accept and approve or deny after the filing deadline has passed if it is filed not later than one

year after the delinquency date for the taxes on the residence homestead.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

SB 163 amends subsection (a) to include an application for a residence homestead exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session) to the applications that a chief appraiser must accept and approve or deny after the filing deadline has passed if it is filed not later than one year after the delinquency date for the taxes on the residence homestead.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.

Chapter 21. Taxable Situs

Section 21.09

HB 585 adds this section, regarding allocation application, to require a person claiming an allocation authorized by Tax Code Section 21.03, 21.031, 21.05 or 21.055 to file an allocation application form with the chief appraiser in the CAD in which the property subject to the claimed allocation has taxable situs. A person claiming an allocation must apply for the allocation each year before May 1 and must provide the information required by the form. If the property was not on the appraisal roll in the preceding year, the deadline for filing the allocation application form is extended to the 45th day after the date of receipt of the notice of appraised value. For good cause shown, the chief appraiser shall extend the deadline for filing an allocation application form by written order for a period not to exceed 60 days.

The Comptroller is required to prescribe the contents of the allocation application form and must ensure that the form requires an applicant to provide the information necessary to determine the validity of the allocation claim.

If the chief appraiser learns of any reason indicating that an allocation previously allowed should be canceled, the chief appraiser must investigate and cancel the allocation if he or she determines that the property is not entitled to an allocation. The chief appraiser must deliver written notice of a cancellation not later than the fifth day after the date the cancellation is made. A person may protest the cancellation of an allocation.

The filing of a rendition under Tax Code Chapter 22 is not a condition of qualification for an allocation.

Effective June 14, 2013.

Section 21.10

HB 585 adds this section, regarding late application for allocation, to require a chief appraiser to accept and approve or deny an application for an allocation under Tax Code Section 21.09 after the deadline for filing the application has passed if the application is filed before the date the ARB approves the appraisal records. If the application is approved, the property owner is liable to each taxing unit for a penalty in an amount equal to 10 percent of the difference between the amount of tax imposed by the taxing unit without the allocation and the amount of tax imposed on the property with the allocation.

The chief appraiser is required to make an entry in the appraisal records for the property indicating the property owner's liability for the penalty and shall deliver to the property owner a written notice of imposition of the penalty, explaining the reason for its imposition.

The tax assessor must add the amount of the penalty to the property owner's tax bill, and the tax collector must collect the penalty as provided. The penalty amount constitutes a lien against the property and accrues penalty and interest in the same manner as a delinquent tax.

Effective June 14, 2013.

Chapter 22. Rendition and Other Reports

Section 22.01

HB 585 and **SB 1508** add subsection (c-1) to define "secured party" as having the meaning assigned by Business & Commerce Code Section 9.102, and "security interest" as

having the meaning assigned by Business & Commerce Code Section 1.201.

The bills add subsection (c-2) to allow a secured party, with the consent of the property owner, to render for taxation any property of the property owner in which the secured party has



a security interest on Jan. 1, although the secured party is not required to render the property by subsection (a) or (b). This subsection applies only to property that has a historical cost when new of more than \$50,000.

The bills add subsection (d-1) to require a secured party who renders property under subsection (c-2) to indicate the party's status as a secured party and to state the name and address of the property owner. A secured party is not liable for inaccurate rendition statement information supplied by the property owner or for failure to timely file the rendition statement if the property owner failed to promptly cooperate with the secured

party. A secured party may rely on specified information provided by the property owner.

Effective Jan. 1, 2014, and applies only to the rendition of property for a tax year that begins on or after the effective date.

Section 22.24

HB 585 and **SB 1508** amend subsection (e), which requires renditions or reports to be sworn, to provide that the subsection does not apply to a rendition or report filed by a secured party, as defined by Tax Code Section 22.01, in addition to persons previously specified.

Effective Jan. 1, 2014, and applies only to the rendition of property for a tax year that begins on or after the effective date.

Chapter 23. Appraisal Methods and Procedures

Section 23.013

SB 1256 adds subsection (b-1) to provide that, notwithstanding subsection (b), for residential property in a county with a population of more than 150,000, a sale is not considered to be a comparable sale unless the sale occurred within 36 months of the date as of which the market value of the subject property is to be determined, regardless of the number of comparable properties sold during that period.

Effective Jan. 1, 2014, and applies only to the appraisal of property for a tax year beginning on or after the effective date.

Section 23.02

HB 585 amends the section heading to "Reappraisal of Property Damaged in Disaster Area."

The bill amends subsection (a) to strike the word "natural" from language allowing a taxing unit to require a CAD to reappraise damaged property in that taxing unit that is also in an area declared to be a natural disaster area by the governor at its market value immediately after the disaster

The bill amends subsection (d) to strike the word "natural" from language requiring the proration of taxes on certain property damaged in a natural disaster area.

Effective June 14, 2013, but applies to all properties affected by a disaster as defined by Government Code Section 418.004 that were appraised as of Jan. 1, 2013.

Section 23.121

HB 315 amends subsection (a)(3) to revise the definition of motor vehicle "dealer" to exclude from special inventory provisions motor vehicle dealers:

- who do not sell motor vehicles that are self-propelled vehicles designed to transport persons or property on a public highway,
- whose total annual sales (less specified exclusions) for the preceding tax year are 25 percent or less of the dealer's total revenue from all sources or who did not sell a motor vehicle

to a person other than another dealer during the preceding tax year and the dealer estimates that the dealer's adjusted total annual sales (less specified exclusions) for the current tax year will be 25 percent or less of the dealer's total revenue from all sources during that period,

- who file with the chief appraiser and the collector not later than Aug. 31 of the preceding tax year a Comptroller prescribed declaration stating that the dealer elects not to be treated as a dealer under special inventory provisions, and
- who render the motor vehicle inventory by a filing a rendition in the manner provided by Chapter 22.

The bill adds section (a-1) to require that a dealer who has elected to file a declaration and to render motor vehicle inventory as provided under Chapter 22 must continue to file the declaration and render the dealer's motor vehicle inventory so long as the dealer's total annual sales (less specified exclusions) from motor vehicle inventory is 25 percent or less of total revenue from all sources or the dealer estimates that the total annual sales (less specified exclusions) from motor vehicle inventory for the current year will be under that threshold and the dealer did not sell a motor vehicle in the preceding tax year to another person other than a dealer.

Effective Jan. 1, 2014, and applies only the taxation of motor vehicle inventory for a tax year beginning on or after the effective date.

Section 23.1241

HB 826 amends subsection (a)(1) to specify that the definition of "heavy equipment dealer" does not include a bank, savings bank, savings and loan association, credit union, or other finance company. In addition, for purposes of taxation of a person's inventory of heavy equipment in a tax year, the term does not include a person who renders the person's inventory of heavy equipment for taxation in that year by filing a rendition statement or property report in accordance with Chapter 22.

The bill amends subsection (a)(2) to revise the definition of "dealer's heavy equipment inventory" to mean all items of



heavy equipment that a dealer holds for sale, lease or rent in this state during a 12 month period. The previous definition did not specify that the heavy equipment inventory must be “in this state.”

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year beginning on or after the effective date. The only purposes of this Act are to exclude certain financial institutions and other finance companies, as well as persons who render their inventory of heavy equipment for taxation in accordance with Chapter 22, from being required to comply with the requirements of Tax Code Sections 23.1241, 23.1242, and 23.1243, as amended or added by Chapter 322 (HB 2476), Acts of the 82nd Legislature, Regular Session, 2011, and to limit the definition of a dealer’s heavy equipment inventory for purposes of those sections of the Tax Code to items of heavy equipment held for sale, lease, or rent in this state. This Act is not intended to affect any litigation pending on the effective date of this Act or filed on or after the effective date of this Act that arises out of the changes in law made by Chapter 322 (HB 2476), Acts of the 82nd Legislature, Regular Session, 2011.

Section 23.129

HB 585 amends subsection (b) to strike the word “natural” from the provision that a chief appraiser or collector may waive a penalty under subsection (a) if a natural disaster made it effectively impossible for the taxpayer to comply with filing requirements.

Effective June 14, 2013.

Section 23.23

HB 585 adds subsection (g) to provide a definition for “disaster recovery program” (a program administered by the General Land Office funded with community development block grant disaster recovery money authorized by the federal Consolidated Security, Disaster Assistance, and federal Continuing Appropriations Act and the Consolidated and Further Continuing Appropriations Act). The bill provides that, notwithstanding subsection (f)(2) and only to the extent necessary to satisfy the requirements of the disaster recovery program, a replacement structure as described is not considered to be a new improvement if to satisfy the requirements of the disaster recovery program it was necessary that the square footage of the replacement structure exceed that of the replaced structure as that structure existed before the casualty or damage occurred; or the exterior of the replacement structure be of higher quality construction and composition than that of the replaced structure.

Effective Jan. 1, 2014, and applies only to the appraisal of a residence homestead for tax purposes for a tax year that begins on or after Jan. 1, 2014.

Section 23.26

HB 2500 adds this section, relating to solar energy property.

The bill adds subsection (a) to provide that in this section, “solar energy property” means a “solar energy device” as defined by Tax Code Section 11.27(c)(1) that is used for a commercial purpose, including a commercial storage device, power conditioning equipment, transfer equipment, and necessary parts for the device and equipment.

The bill adds subsection (b) to provide that this section applies only to solar energy property that is constructed or installed on or after Jan. 1, 2014.

The bill adds subsection (c) to require the chief appraiser to use the cost method of appraisal to determine the market value of solar energy property.

The bill adds subsection (d) to provide that to determine the market value of solar energy property using the cost method of appraisal, the chief appraiser is required to use cost data obtained from generally accepted sources; make any appropriate adjustment for physical, functional, or economic obsolescence and any other justifiable factor; and calculate the depreciated value of the property by using a useful life that does not exceed 10 years.

The bill adds subsection (e) to prohibit a chief appraiser in any tax year from determining the depreciated value to be less than 20 percent of the value computed after making appropriate adjustments under subsection (d).

Effective Jan. 1, 2014, and applies only to a tax year that begins on or after the effective date.

Section 23.55

HB 561 adds subsection (g) to provide that the rollback sanctions for a change of use of land provided by subsection (a) do not apply to land owned by an organization that qualifies as a school under Tax Code Section 11.21(d) if the organization converts the land to a use for which the land is eligible for an exemption under Tax Code Section 11.21, within five years.

Effective June 14, 2013, and applies to a change of use of land that occurs on or after the effective date.



Chapter 25. Local Appraisal

Section 25.025

HB 2267 reenacts and amends subsection (a) as amended by Chapters 348 (HB 3307) and 953 (HB 1046), Acts of the 82nd Legislature, Regular Session, 2011 to provide that provisions relating to confidentiality of certain home address information apply to a medical examiner or person who performs forensic analysis or testing who is employed by this state or one or more political subdivisions of this state.

Effective June 14, 2013, and prevails over another Act of the 83rd Legislature, Regular Session, 2013, relating to nonsubstantive additions to and corrections in enacted codes.

HB 2676 reenacts and amends subsection (a) as amended by Chapters 348 (HB 3307) and 953 (HB 1046), Acts of the 82nd Legislature, Regular Session, 2011 to provide that provisions relating to confidentiality of certain home address information apply to a current or former member of the U.S. armed forces

who has served in an area that the U.S. president by executive order designates for purposes of 26 U.S.C. Section 112 as an area in which U.S. armed forces are or have engaged in combat.

Effective June 14, 2013, and prevails over another Act of the 83rd Legislature, Regular Session, 2013, relating to nonsubstantive additions to and corrections in enacted codes.

SB 1896 amends subsection (a-1) to modify the definition of “state judge” for purposes of confidentiality of certain home address information to include a judge, former judge, or retired judge of a statutory probate court or a constitutional county court; associate judge, retired associate judge, or former associate judge appointed under Government Code Chapter 54A; master, magistrate, referee, hearing officer, or associate judge appointed under Government Code Chapter 54; and a municipal court judge.

Effective May 25, 2013.

Chapter 26. Assessment

Section 26.012

HB 2712 amends this section to modify the definition of “current total value” to deduct from its calculation the taxable value of property exempted for the current tax year for the first time under Tax Code Section 11.1315.

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date.

Section 26.10

HB 97 amends subsection (b) to provide that if the appraisal roll shows that a residence homestead exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) applicable to a property on Jan. 1 of a year terminated during the year and the owner of the property qualifies a different property for that residence homestead exemption during the same year, the tax due against the former residence homestead is prorated as specified.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

SB 163 amends subsection (b) to provide that if the appraisal roll shows that a residence homestead exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session) applicable to a property on Jan. 1 of a year terminated during the year and the owner of the property qualifies a different property for that residence homestead exemption during the same year, the tax due against the former residence homestead is prorated as specified.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.

HB 97 and **SB 163** strike the current language that the calculation of tax due on a former residence homestead after specified homestead exemptions terminate during the year applies to a residence homestead exemption for an individual 65 years of age or older and a residence homestead exemption for a disabled individual and instead, provide that this applies to a residence homestead exemption under Tax Code Section 11.13(c) or (d).

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date (HB 97). Effective Jan. 1, 2014, contingent on voter approval of HJR 62 (SB 163).

Section 26.112

SB 163 amends the section heading to “Calculation of Taxes on Residence Homestead of Certain Persons.”

The bill amends subsection (a) to provide that if at any time during a tax year property is owned by an individual who qualifies for an exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session), the amount of the tax due on the property for the tax year is calculated as if the individual qualified for the exemption on Jan. 1 and continued to qualify for the exemption for the remainder of the tax year.

The bill amends subsection (b) to provide that if an individual qualifies for an exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session) after the amount of the tax due on the property is calculated and the qualification reduces the tax due on the property, the assessor for each taxing unit is required to recalculate the amount of the tax due on the property and correct the tax roll.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.



Section 26.1127

HB 97 adds this section to provide that except as provided by Tax Code Section 26.10(b), if at any time during a tax year property is owned by an individual who qualifies for an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session), the amount of the tax due on the property for the tax year is calculated as if the individual qualified for the exemption on Jan. 1 and continued to qualify for the exemption for the remainder of the tax year.

The bill provides that if an individual qualifies for an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) after the tax due is calculated and the qualification reduces the tax due, the assessor for each taxing unit is required to recalculate the tax due on the property and correct the tax roll. If the tax bill has been mailed and the tax on the property has not been paid, the bill requires the assessor to mail a corrected tax bill to the individual in whose name the property is listed

on the tax roll or to the individual's authorized agent. If the tax on the property has been paid, the bill requires the tax collector for the taxing unit to refund to the individual who paid the tax the amount by which the payment exceeded the tax due.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

Section 26.15

HB 709 amends subsection (g) to authorize a taxing unit that determines a taxpayer is delinquent in ad valorem tax payments for a tax year other than the tax year for which a liability for a refund arises to apply the amount of an overpayment to the payment of the delinquent taxes under specified conditions.

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date.

Chapter 31. Collections

Section 31.031

HB 709 and **HB 1597** amend subsection (a) to modify to whom this section, relating to installment payments of certain homestead taxes, applies to include a disabled veteran and surviving spouse or child who is qualified for an exemption under Tax Code 11.22 and to strike the requirement that this individual be the unmarried surviving spouse of a disabled veteran.

Effective Sept. 1, 2013, and applies only to taxes imposed for a tax year beginning on or after the effective date (HB 1597). Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date (HB 709).

HB 97 amends subsection (a) to modify to whom this section, relating to installment payments of certain homestead taxes, applies to include an individual who is a disabled veteran or the unmarried surviving spouse of a disabled veteran and qualified for an exemption under Tax Code Section 11.132 (Chapter 122, 83rd Regular Session) or Tax Code Section 11.22.

Effective Jan. 1, 2014, contingent on voter approval of HJR 24, and applies only to taxes imposed for a tax year that begins on or after the effective date.

HB 1597 amends subsection (a-1) to modify the provision that homestead taxes can be paid in installments if certain conditions are met to authorize an individual, as specified, to pay a taxing unit's taxes imposed on property that the person owns and occupies as a residence homestead in four equal installments without penalty or interest if the first installment is paid before the delinquency date and is accompanied by notice to the taxing unit that the person will pay the remaining taxes in three equal installments. The bill modifies the provisions for the installment deadlines to provide that the second installment

must be paid before April 1, the third installment before June 1, and the fourth installment before Aug. 1.

The bill adds subsection (a-2) to provide that notwithstanding the deadline prescribed by subsection (a-1) for payment of the first installment, an individual, as specified, may pay taxes in four equal installments as provided if the first installment is paid and the required notice is provided before March 1.

The bill amends subsection (b) to provide that if an individual fails to make the first payment before the applicable date, the unpaid amount is delinquent and incurs penalty and interest as prescribed.

Effective Sept. 1, 2013, and applies only to taxes imposed for a tax year beginning on or after the effective date.

Section 31.11

HB 709 amends subsection (b) to authorize a taxing unit that determines a taxpayer is delinquent in ad valorem tax payments for a tax year other than the tax year for which a liability for a refund arises to apply the amount of an overpayment or erroneous payment to the payment of the delinquent taxes under specified conditions.

Effective Jan. 1, 2014, and applies only to taxes imposed for a tax year that begins on or after the effective date.

HB 585 adds subsection (j) to provide that if the collector for a taxing unit does not respond to an application for a refund on or before the 90th day after the date the application is filed with the collector, the application is presumed to have been denied.

The bill adds subsection (k) to provide that not later than the 60th day after the date the collector for a taxing unit denies an application for a refund, the taxpayer may file suit against the taxing unit in district court to compel the payment of the refund. If the collector collects taxes for more than one taxing



unit, the bill requires the taxpayer to join in the suit each taxing unit on behalf of which the collector denied the refund. The bill provides that if the taxpayer prevails in the suit, the taxpayer may be awarded court costs and may be awarded reasonable

attorney's fees in an amount not to exceed the greater of \$1,500 or 30 percent of the total amount of the refund determined by the court to be due.

Effective June 14, 2013.

Chapter 32. Tax Liens and Personal Liability

Section 32.015

HB 3613 amends subsection (a) to provide that a tax lien is extinguished and canceled and the tax lien must be removed from the title records of a manufactured home when no suit to collect a personal property tax lien has been filed and the lien has been delinquent for more than four years.

Effective Sept. 1, 2013.

Section 32.06

SB 247 amends the heading of the section to "Property Tax Loans, Transfer of Tax Lien."

The bill amends subsection (a) to modify the definition of "transferee" to provide that it means a person who is licensed under Finance Code Chapter 351, or is exempt from the application of that chapter under Finance Code Section 351.051(c), and who is authorized to pay the taxes of another; or a successor in interest to a tax lien that is transferred as provided.

The bill modifies subsection (a-1) to strike language that the currently required sworn document must state that notice has been given that if the property owner is age 65, the owner may be eligible for a tax deferral under Tax Code Section 33.06. The bill modifies the required sworn document to specify that it must state the authorization for payment of the taxes. The bill provides that a property owner must execute a sworn document with specified statements and information required by Finance Code Section 351.054, in addition to the previously required filing of these items with the collector of the taxing unit, to authorize another person to pay the taxes imposed by the taxing unit on the owner's real property.

The bill amends subsection (a-2) to provide an exception as provided by subsection (a-8) to the current authorization that a tax lien may be transferred to a person who pays the taxes on behalf of the property owner. The bill modifies provisions to provide that a tax lien may be transferred for taxes that are due but not delinquent at the time of payment if the property is not subject to a recorded mortgage lien. The bill strikes the provision providing for a tax lien transfer if a tax lien transfer authorized by the property owner has been executed and recorded for one or more prior years on the same property and the property owner has executed an authorization consenting to a transfer of the tax liens for both the taxes on the property that are not delinquent and taxes on the property that are delinquent as provided.

The bill amends subsection (a-3) to prohibit a person who is 65 years of age or older from authorizing a transfer of a tax lien on real property on which the person is eligible to claim

an exemption from taxation under Tax Code Section 11.13(c). The bill strikes the provision relating to a property owner executing an authorization under subsection (a-2)(2)(B) which the bill deleted.

The bill amends subsection (a-4) to require the Finance Commission of Texas by rule to prescribe the form and content of a request a lender with an existing recorded lien on the property must use to request a payoff statement and the transferee's response to the request, including the period within which the transferee must respond.

The bill adds subsection (a-5) to provide that at the time the transferee provides the disclosure statement as required, the transferee must also describe the type and approximate cost range of each additional charge or fee that the property owner may incur in connection with the transfer.

The bill adds subsection (a-6) to provide that notwithstanding subsection (f-3), a lender as described may request a payoff statement before the tax loan becomes delinquent. The bill requires the Finance Commission of Texas by rule to require a transferee who receives a request for a payoff statement to deliver the requested payoff statement on the prescribed form within a period prescribed by Finance Commission rule. The bill provides that the prescribed period must allow the transferee at least seven business days after the date the request is received to deliver the payoff statement. The bill authorizes the Consumer Credit Commissioner to assess an administrative penalty under Subchapter F, Chapter 14 of the Finance Code, against a transferee who willfully fails to provide the payoff statement as prescribed by Finance Commission rule.

The bill adds subsection (a-7) to provide that a contract between a transferee and a property owner that purports to authorize payment of taxes that are not delinquent or due at the time of the authorization, or that lacks the authorization as described is void.

The bill adds subsection (a-8) to prohibit a tax lien from being transferred to a person who pays the taxes on behalf of the property owner under the authorization as described if the real property has been financed, wholly or partly, with a grant or below market rate loan provided by a governmental program or nonprofit organization and is subject to the covenants of the grant or loan; or is encumbered by a lien recorded under Subchapter A, Chapter 214 of the Local Government Code.

The bill adds subsection (a-9) to authorize the Finance Commission of Texas to adopt rules to implement subsection (a-8).



The bill amends subsection (b) to provide that if a transferee pays imposed collection costs, the collector must issue a tax receipt to the transferee and the collector must certify that the collection costs on the subject property have been paid by the transferee on behalf of the property owner and that the taxing unit's tax lien is transferred to that transferee.

The bill amends subsection (c) to strike language that a transferee of tax lien is entitled to foreclose a lien in the manner specified in Property Code Section 51.002, and Tax Code Section 32.065, after the transferee or a successor in interest obtains a court order for foreclosure under Rule 736, Texas Rules of Civil Procedure, except as provided, if the property owner and the transferee enter into a contract that is secured by a lien on the property.

The bill repeals subsection (c-1) relating to a transferee foreclosing on a tax lien as provided under subsection (c)(2) which the bill deleted.

The bill amends subsection (d) to modify a provision to provide that a transferee shall record a tax lien transferred as provided with a certified statement.

The bill amends subsection (e-1) to modify a provision to provide that a transferee of a tax lien may not charge a fee for any expenses arising after the closing of a loan secured by a tax lien transferred, including collection costs, except as provided.

The bill amends subsection (f-4) to modify the provision to provide that the failure to comply with subsection (b-1), (f), or (f-1) does not invalidate a tax lien transferred as provided or a deed of trust.

The bill amends subsection (g) to strike references to the holder of a tax lien.

The bill amends subsection (h) to modify the provision that a mortgage servicer who pays a property tax loan secured by a tax lien transferred as provided becomes subrogated to all rights in the lien.

The bill amends subsection (i) to modify the provision that the foreclosure of a transferred tax lien may not be instituted within one year from the date on which the lien is recorded as provided to specify that this applies to judicial foreclosures and strikes the exception to the provision as provided by Tax Code Section 33.445.

The bill amends subsection (j) to strike a reference to a holder of a lien.

The bill adds subsection (l) to provide that except as specifically provided by this section, a property owner cannot waive or limit any requirement imposed on a transferee by this section.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Section 32.065

SB 247 amends subsection (b) to strike language that requires a contract between a transferee and the property owner that is secured by a priority lien to provide for the power of sale and to strike language that these contracts provide for foreclosure in the manner provided by Tax Code Section 32.06(c)(2) which the bill deleted. The bill also strikes the requirement that these contracts provide for the recording of the sworn document and affidavit attesting to the transfer of the tax lien and these contracts provide for the transferee to serve foreclosure notices as specified on the property owner at the property owner's last known address as provided.

The bill adds subsection (i) to provide that an agreement as provided that attempts to create a lien for the payment of taxes that are not delinquent or due at the time the property owner executes the sworn document under Tax Code Section 32.06(a-1) is void.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Chapter 33. Delinquency

Section 33.011

HB 1913 amends subsection (d) to provide that a request for a waiver of penalties and interest under subsection (i) must be made before the 181st day after the date the property owner making the request receives notice of the delinquent tax that satisfies the requirements of Tax Code Section 33.04(b). The bill provides that a request for a waiver of penalties and interest under subsection (j) must be made before the 181st day after the delinquency date.

The bill adds subsection (i) to authorize a governing body of a taxing unit to waive penalties and interest on a delinquent tax that relates to a date preceding the date on which the property owner acquired the property if:

1. the property owner or another person liable for the tax pays the tax not later than the 181st day after the date the

property owner receives notice of the delinquent tax that satisfies the requirements of Tax Code Section 33.04(b); and

2. the delinquency is the result of taxes imposed on omitted property entered in the appraisal records as provided by Tax Code Section 25.21, erroneously exempted property or appraised value added to the appraisal roll as provided by Tax Code Section 11.43(i), or property added to the appraisal roll under a different account number or parcel when the property was owned by a prior owner.

The bill adds subsection (j) to authorize the governing body of a taxing unit to waive penalties and interest on a delinquent tax if the taxpayer submits evidence sufficient to show that the taxpayer delivered payment for the tax before the delinquency date to the U.S. Postal Service for delivery by mail, but an



act or omission of the postal service resulted in the taxpayer's payment being postmarked after the delinquency date. The bill also provides this authorization if the taxpayer submits evidence sufficient to show that the taxpayer delivered payment for the tax before the delinquency date to a private delivery service for delivery, but an act or omission of the private carrier resulted in the taxpayer's payment being received by the taxing unit after the delinquency date.

Effective Sept. 1, 2013.

Section 33.02

HB 1597 amends subsection (a) to require that the collector for a taxing unit, on request by a person delinquent in the payment of the tax on a residence homestead, enter into an agreement with the person for payment of the tax, penalties, and interest in installments if the person has not entered into an installment agreement as provided with the collector for the taxing unit in the preceding 24 months. The bill modifies the requirements of an installment agreement to include the requirements that the installment agreement provide for payments to be made in equal monthly installments and extend for a period of at least 12 months.

The bill amends subsection (b) to create an exception as provided by subsection (b-1) to the current provision that interest and penalty accrue as provided by Tax Code Sections 33.01(a) and (c) on the unpaid balance during the period of the installment agreement.

The bill adds subsection (b-1) to provide that except as otherwise provided, a penalty does not accrue as provided by Tax Code Section 33.01(a) on the unpaid balance during the period of the installment agreement if the property that is the subject of the agreement is a residence homestead. If the property owner fails to make a payment as required by the installment agreement, the bill provides that a penalty accrues as provided by Tax Code Section 33.01(a) on the unpaid balance as if the owner had not entered into the agreement.

Effective Sept. 1, 2013, and applies only to an installment agreement for the payment of delinquent taxes entered into on or after the effective date.

Section 33.04

HB 1597 amends the section to designate certain pre-existing provisions as subsection (a).

The bill adds subsection (b) to provide that a notice of delinquency contain a specified statement in capital letters regarding the residence homestead owner contacting the taxing unit about the right the owner may have to enter into an installment agreement.

The bill adds subsection (c) to provide that a collector for a taxing unit must deliver a notice of delinquency to a person who is in breach of an installment agreement under Tax Code Section 33.02 and to any other owner of an interest in the property subject to the agreement whose name appears on the delinquent tax roll before the collector may seize and sell the property or file a suit to collect a delinquent tax subject to the agreement.

Effective Sept. 1, 2013, and applies only to a notice of delinquency delivered on or after the effective date.

HB 1913 adds subsection (b) to provide that if a delinquency is the result of taxes imposed on property described by Tax Code Section 33.011(i), the first page of the notice must include, in 14-point boldfaced type or 14-point uppercase letters, a statement regarding the foreclosure of a lien if the delinquent taxes are not paid and the statement must read substantially as specified.

Effective Sept. 1, 2013.

Section 33.48

HB 585 and **HB 2302** amend subsection (a) to provide that a taxing unit is entitled to recover electronic filing fees in a suit to collect delinquent taxes.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date (HB 585). Effective Sept. 1, 2013, and applies only to a fee that becomes payable on or after Sept. 1, 2013 (HB 2302).

Section 33.49

HB 585 and **HB 2302** amend subsection (a) to provide that a taxing unit is not liable for any fees for electronic filing in a suit to collect taxes, except as provided.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date (HB 585). Effective Sept. 1, 2013, and applies only to a fee that becomes payable on or after Sept. 1, 2013 (HB 2302).

Chapter 34. Tax Sales and Redemption

Section 34.01

HB 699 amends subsection (r) to provide that a commissioners court of the county may designate an area other than an area at the county courthouse where sales will take place that is in a public place within a reasonable proximity of the county courthouse as determined by the commissioners court and in a location as accessible to the public as the courthouse door. The

bill requires the commissioners court to record that designation in the real property records of the county and this designation by a commissioners court is not a ground for challenging or invalidating any sale. The bill adds the requirement that a sale must be held at a designated area if the sale is held on or after the 90th day after the date the designation is recorded. The bill strikes the following provision: "if the commissioners court



designates an area in the courthouse or another location in the county for sales, a sale must occur in that area or at that location and if the commissioners court does not designate an area in the courthouse or another location in the county for

sales, a sale must occur in the same area in the courthouse that is designated by the commissioners court for the sale of real property under Property Code Section 51.002.”

Effective Oct. 1, 2013.

Chapter 41. Local Review

Section 41.43

HB 585 amends subsection (a) to add an exception as provided by subsection (a-3) to the provision that a CAD has the burden of establishing the value of property by a preponderance of evidence (for protests claiming excessive value or unequal value) and if the CAD fails to meet that standard, the protest is determined in favor of the property owner.

The bill adds subsection (a-3) to provide that in a protest authorized by Tax Code Section 41.41(a)(1) or (2), the CAD has the burden of establishing the value by clear and convincing evidence presented at the hearing if specified conditions are met. This type of burden applies if:

- the appraised value of the property was lowered under Subtitle F, Remedies (Tax Code Chapters 41, 41A, 42, and 43) in the preceding tax year,
- the appraised value of the property in the preceding tax year was not established as a result of a written agreement between the property owner or the owner’s agent and the CAD under Tax Code Section 1.111(e), and
- the property owner files with the ARB and delivers to the chief appraiser specified information not later than the 14th day before the date of the first day of the hearing.

The specified information, such as income and expense statements or information regarding comparable sales, must be sufficient to allow for a determination of the appraised or market value of the property if the protest is authorized by Tax Code Section 41.41(a)(1). If the protest is authorized by Tax Code Section 41.41(a)(2), the specified information must be sufficient to allow for a determination of whether the property was appraised unequally.

The bill adds subsection (a-4) to provide that if a CAD has the burden of establishing the value of property by clear and convincing evidence presented at the hearing on a protest as specified and the CAD fails to meet that standard, the protest is determined in favor of the property owner.

The bill adds subsection (a-5) to provide that subsection (a-3) (3) does not impose a duty on a property owner to provide any information in a protest authorized by Tax Code Section 41.41(a)(1) or (2). The bill provides that subdivision is merely a condition to the applicability of the standard of evidence provided by subsection (a-3).

Effective Sept. 1, 2013, and applies only to a protest filed with an ARB on or after the effective date.

Section 41.45

HB 585 adds subsection (n) to provide that a property owner does not waive the right to appear in person at the protest hearing by submitting an affidavit to the ARB. The bill authorizes an ARB board to consider the affidavit only if the property owner does not appear at the protest hearing in person. For purposes of scheduling the hearing, the bill requires the property owner to state in the affidavit that the property owner does not intend to appear at the hearing or that the property owner intends to appear at the hearing and that the affidavit may be used only if the property owner does not appear at the hearing. If the property owner does not state in the affidavit whether the owner intends to appear at the hearing, the bill requires the ARB to consider the submission of the affidavit as an indication that the property owner does not intend to appear at the hearing. If the property owner states in the affidavit that the owner does not intend to appear at the hearing or does not state in the affidavit whether the owner intends to appear at the hearing, the bill provides that the ARB is not required to consider the affidavit at the scheduled hearing and may consider the affidavit at a hearing designated for the specific purpose of processing affidavits.

Effective Jan. 1, 2014, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Section 41.66

HB 2792 amends subsection (d) to provide an exception as provided by subsection (d-1) to the provision that ARB hearings conducted under Tax Code Chapter 41 are open to the public.

The bill adds subsection (d-1) to provide that notwithstanding Government Code Chapter 551, the ARB is required to conduct a hearing that is closed to the public if the property owner or the chief appraiser intends to disclose proprietary or confidential information at the hearing that will assist the ARB in determining the protest. The ARB may hold a closed hearing only on a joint motion by the property owner and the chief appraiser.

The bill adds subsection (d-2) to provide that information described by subsection (d-1) is considered information obtained under Tax Code Section 22.27.

Effective June 14, 2013.

HB 585 adds subsection (i) to require that a hearing on a protest filed by a property owner who is not represented by an agent designated under Tax Code Section 1.111 be set for a time and date certain. If the hearing is not commenced within two hours of the



time set for the hearing, the bill requires the ARB to postpone the hearing on the request of the property owner.

The bill amends subsection (j) to require an ARB, on the request of a property owner or a designated agent, to schedule hearings on protests concerning up to 20 designated properties on the same day. The bill provides that the designated properties must be identified in the same notice of protest and the notice must contain in boldfaced type the statement “request for same-day protest hearings.” The bill prohibits a property owner or designated agent from filing more than one request under these provisions with the ARB in the same tax year. The bill authorizes the ARB to schedule hearings on protests concerning more than 20 properties filed by the same property owner or designated agent and to use different panels to conduct the hearings based on the board’s customary scheduling. The ARB is allowed to follow the practices customarily used by the ARB in the scheduling of hearings under these provisions.

The bill adds subsection (k) to provide that if an ARB sits in panels to conduct protest hearings, protests shall be randomly assigned to panels. However, the bill authorizes the ARB to consider the type of property subject to the protest or the ground of the protest for the purpose of using the expertise of a particular panel in hearing protests regarding particular types of property or based on particular grounds. If a protest is scheduled to be heard by a particular panel, the bill prohibits the protest from being reassigned to another panel without the consent of the property owner or designated agent. If the ARB has cause to reassign a protest to another panel, the bill authorizes a property owner or designated agent to agree to reassignment of the protest or to request that the hearing on the protest be postponed. The bill requires the ARB to postpone the hearing on that request. The bill provides that a change of members of a panel because of a

conflict of interest, illness, or inability to continue participating in hearings for the remainder of the day does not constitute reassignment of a protest to another panel.

The bill adds subsection (l) to provide that unless a person offering evidence or argument states that the person is offering it as a person holding a license or certificate under Occupations Code Chapter 1103, Real Estate Appraisers, a property owner, attorney, or agent offering evidence or argument in support of a protest brought under Tax Code Section 41.41(a)(1) or (2) is not subject to Occupations Code Chapter 1103. The bill requires a person holding a license or certificate under Occupations Code Chapter 1103 to state the capacity in which the person is appearing before the ARB.

The bill adds subsection (m) to prohibit a CAD or ARB from making decisions with regard to membership on a panel or chairmanship of a panel based on a member’s voting record in previous protests.

The bill adds subsection (n) to provide that a request for postponement of a hearing must contain the mailing address and email address of the person requesting the postponement. The bill requires an ARB to respond in writing or by email to a request for postponement of a hearing not later than the seventh day after the date of receipt of the request.

The bill adds subsection (o) to authorize the ARB chairman or a member designated by the ARB chairman to make decisions with regard to the scheduling or postponement of a hearing. The chief appraiser or a person designated by the chief appraiser may agree to a postponement of an ARB hearing.

Effective Jan. 1, 2014, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Chapter 41A. Appeal Through Binding Arbitration

Section 41A.01

SB 1255 amends this section to provide that a property owner is entitled to appeal through binding arbitration an ARB order determining a protest filed under Tax Code Section 41.41(a)(2), relating to unequal appraisal of the owner’s property, under specified circumstances.

Effective June 14, 2013.

Section 41A.03

HB 585 and **SB 1662** strike the provision that the arbitration deposit for expedited arbitration is \$250 under Tax Code Section 41A.031 which is repealed by the bills.

Effective June 14, 2013 (HB 585). Effective Jan. 1, 2014 (SB 1662).

Section 41A.031

HB 585 and **SB 1662** repeal this section relating to expedited arbitration.

Effective June 14, 2013 (HB 585). Effective Jan. 1, 2014 (SB 1662).

Section 41A.06

SB 1255 renames the section heading to “Registry and Qualification of Arbitrators.”

The bill adds subsection (c) to provide that an arbitrator must complete a training program on property tax law before conducting a hearing on an arbitration relating to the appeal of an ARB order determining a protest filed under Tax Code Section 41.41(a)(2). The training program must emphasize the requirements regarding the equal and uniform appraisal of property, be at least four hours in length, and be approved by the Comptroller.

Effective June 14, 2013.



Chapter 42. Judicial Review

Section 42.08

HB 585 amends subsection (b) to add the amount of taxes imposed on the property in the preceding tax year to the list of amounts of which a property owner must pay the lesser to proceed to a final determination of an appeal under Chapter 42, Judicial Remedies.

The bill amends subsection (b-1) to provide that the failure to provide the required statement of the amount of taxes the property owner proposes to pay is not a jurisdictional error.

The bill amends subsection (c) to provide that a property owner may pay an additional amount of taxes at any time. The bill also provides that if the taxes are subject to the split-payment option as provided by Tax Code Section 31.03, the property owner may comply with prepayment requirements as a prerequisite to appeal by paying one-half of the amount otherwise required to be paid as provided before Dec. 1 and paying the remaining one-half of that amount before July 1 of the following year.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Section 42.21

HB 585 adds subsection (f) to provide that a petition filed by an owner or lessee of property may include multiple properties that are owned or leased by the same person and are of a similar type or are part of the same economic unit and would typically sell as a single property. If a petition is filed by multiple plaintiffs or includes multiple properties that are not of a similar type, are not part of the same economic unit, or are part of the same economic unit but would not typically sell as a single property, the bill authorizes the court on motion and a showing of good cause to sever the plaintiffs or the properties.

The bill adds subsection (g) to provide that a petition filed by an owner or lessee of property may be amended to include additional properties in the same county that are owned or leased by the same person, are of a similar type as the property originally involved in the appeal or are part of the same economic unit as the property originally involved in the appeal and would typically sell as a single property, and are the subject of an ARB order issued in the same year as the order that is the subject of the original appeal. The bill provides that the amendment must be filed within the period during which a petition for review of the ARB order pertaining to the additional properties would be required to be filed as specified.

The bill adds subsection (h) to provide that regardless of whether a petition correctly identifies the plaintiff as the owner or lessee of the property or correctly describes the property, a court has jurisdiction over an appeal under Chapter 42, Judicial Review, brought on behalf of a property owner or lessee and the owner or lessee is considered to have exhausted the owner's or lessee's administrative remedies so long as the property was the subject of an ARB order, the petition was filed within the

specified required period, and the petition provides sufficient information to identify the property that is the subject of the petition. Whether the plaintiff is the proper party to bring the petition or whether the property needs to be further identified or described, the bill provides that this must be addressed by means of a special exception and correction of the petition by amendment as authorized and may not be the subject of a plea to the jurisdiction or a claim that the plaintiff has failed to exhaust the plaintiff's administrative remedies. If the petition is amended to add a plaintiff, the bill requires the court on motion to enter a docket control order to provide proper deadlines in response to the addition of the plaintiff.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Section 42.23

HB 585 adds subsection (h) to provide that evidence, argument, or other testimony offered at an ARB hearing by a property owner or agent is not admissible in an appeal under Chapter 42, Judicial Review unless the:

1. evidence, argument, or other testimony is offered to demonstrate that there is sufficient evidence to deny a no-evidence motion for summary judgment filed by a party to the appeal or is necessary for the determination of the merits of a motion for summary judgment filed on another ground,
2. property owner or agent is designated as a witness for purposes of trial and the testimony offered at the ARB hearing is offered for impeachment purposes, or
3. evidence is the plaintiff's testimony at the ARB hearing as to the value of the property.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Section 42.29

HB 585 amends subsection (a) to provide that a property owner who prevails in an appeal to the district court of an ARB determination of a protest of the denial in whole or in part of an exemption under Tax Code Section 11.17, 11.22, 11.23, 11.231, or 11.24 may be awarded reasonable attorney's fees.

Effective June 14, 2013, and applies to a proceeding that is pending on the effective date or is filed on or after the effective date.

Section 42.43

HB 1897 adds subsection (j) to provide that a property owner is not entitled to a refund under this section resulting from the final determination of an appeal of the denial of an exemption under Tax Code Section 11.31, wholly or partly, unless the property owner is entitled to the refund under subsection (a) or has entered into a written agreement with the chief appraiser that authorizes the refund as part of an agreement related to



the taxation of the property pending a final determination by TCEQ under Tax Code Section 11.31.

The bill adds subsection (k) to provide that not later than the 10th day after the date a property owner and the chief appraiser enter into a written agreement described by subsection (j), the chief appraiser is required to provide to each taxing unit that taxes the property a copy of the agreement. The agreement is

void if a taxing unit that taxes the property objects in writing to the agreement on or before the 60th day after the date the taxing unit receives a copy of the agreement.

Effective Sept. 1, 2013, and subsection (k) of this section applies only to an agreement between a property owner and a chief appraiser entered into on or after the effective date.

Chapter 151. Limited Sales, Excise, and Use Tax

Section 151.356

HB 1712 adds this section, relating to offshore spill response containment property, and adds subsection (a) to define “offshore spill response containment property” as tangible personal property:

- described by Tax Code Section 11.271(c),
- owned or leased by an entity described by Tax Code Section 11.271(f), and
- used or intended to be used solely in an offshore spill response containment system as defined by Tax Code Section 11.271(a).

The bill adds subsection (b) to provide that this section does not apply to an item used, wholly or partly for the exploration for or production of oil, gas, sulfur, or other minerals, including the equipment, piping, casing and other components of

an oil or gas well. The bill provides that, for purposes of this subsection, the offshore capture of fugitive oil, gas, sulfur, or other minerals that is entirely incidental to the item’s temporary use as an offshore spill response containment system is not considered to be production of those substances.

The bill adds subsection (c) to exempt from sales and use tax the sale, lease, rental, storage, use, or other consumption by an entity described by Tax Code Section 11.271(f) of offshore spill response containment property used solely for the purposes described by Tax Code Section 11.271(c) and this section.

The bill adds subsection (d) to provide that a service performed exclusively on offshore spill response containment property is exempted from sales and use taxes.

Effective June 14, 2013, and does not affect tax liability accruing before the effective date.

Chapter 171. Franchise Tax

Section 171.652

HB 2446 transfers Government Code Chapter 490, Subchapter H to Tax Code Chapter 171, redesignated as Tax Code Chapter 171, Subchapter L, Tax Credit for Clean Energy Project.

The bill amends the section heading to “Tax Credit for Clean Energy Project.”

The bill amends subsection (a) to require the Comptroller to adopt rules for issuing to an entity implementing a clean energy project a credit against the tax imposed under this chapter (rather than a franchise tax credit). The bill also provides that a clean energy project is eligible for a credit (rather than a franchise tax credit) only if the project is implemented in connection with the construction of a new facility.

The bill amends subsections (b) and (c) to make conforming changes.

The bill amends subsection (d) to delete language related to the calculation a franchise tax credit and to provide that the total credit that a taxable entity may claim under this section for a report, including the amount of any carry-forward credit, may not exceed the amount of franchise tax due by the taxable entity for the report after any applicable tax credits. The bill limits tax credit carry-forward to not more than 20 consecutive reports.

The bill amends subsection (e) to allow a specified entity to assign the credit to one or more taxable entities and to allow the assigned entity to claim the credit against the tax imposed subject to certain conditions and limitations.

The bill amends subsection (f) to prohibit the Comptroller from issuing a credit (rather than a franchise tax credit) under this section before the later of Sept. 1, 2018 or the expiration of an agreement under Tax Code Chapter 313 regarding the clean energy project for which the credit is issued. The bill deletes language providing that the subsection expires Sept. 2, 2013.

Effective June 14, 2013, but does not apply to a clean energy project that includes a precombustion integrated gasification combined cycle technology with carbon capture and was selected by the U.S. Department of Energy for a Clean Coal Power Initiative award before Feb. 1, 2010. The Comptroller is required to adopt rules necessary to implement Tax Code Chapter 171, Subchapter L not later than Jan. 1, 2014.



Chapter 311. Tax Increment Financing Act

Section 311.014

HB 2636 adds subsection (f) to provide that money in the tax increment fund for a reinvestment zone may be transferred to the tax increment fund for an adjacent zone if:

1. taxing units that participate in the zone from which the money is to be transferred participate in the adjacent zone and vice versa,

2. each participating taxing unit has agreed to deposit the same portion of its tax increment in the fund for each zone,
3. each participating taxing unit has agreed to the transfer, and
4. holders of any tax increment bonds or notes issued for the zone from which the money is to be transferred have agreed to the transfer.

Effective Sept. 1, 2013.

Chapter 313. Texas Economic Development Act

Section 313.002

HB 3390 amends this section to add a legislative finding that given Texas' relatively high ad valorem taxes, it is difficult for the state to compete for new capital projects without temporarily limiting ad valorem taxes imposed on new capital investments. The bill strikes the legislative finding that the State of Texas has slipped in its national ranking each year between 1993 and 2000 in terms of attracting major new manufacturing facilities to this state. The bill modifies a legislative finding to provide that a significant portion of the Texas economy continues to be based in manufacturing and other capital-intensive industries, and their continued growth and overall health serve the Texas economy well.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.003

HB 3390 amends this section to modify one of the purposes of Tax Code Chapter 313 by striking the provision that the chapter should especially encourage large-scale capital investments in school districts that have an ad valorem tax base that is less than the statewide average ad valorem tax base of school districts in this state. The bill modifies one of the purposes of the chapter by striking the word "new" from the purpose to attract new large-scale businesses to this state, authorizing economic development incentives that are comparable to (rather than meet or exceed) incentives offered by other states, and adding state officials to those officials that use this economic development tool.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An

application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.004

HB 3390 amends this section to modify legislative intent by providing that:

- economic development decisions involving school district taxes should occur at the local level with oversight by the state and should be consistent with identifiable statewide economic development goals,
- Tax Code Chapter 313 should not be construed or interpreted to allow an entity not subject to the tax imposed by Tax Code Chapter 171 to receive an ad valorem tax benefit provided by this chapter, and
- school districts should approve only those applications for an ad valorem tax benefit provided by Chapter 313 of the Tax Code that enhance the local community, improve the local public education system, create high-paying jobs, and advance the economic development goals of this state.

The bill also adds legislative intent that in implementing Tax Code Chapter 313, the Comptroller should strictly interpret the criteria and selection guidelines provided by this chapter and the Comptroller should issue certificates for limitations on appraised value only for those applications for an ad valorem tax benefit provided by Tax Code Chapter 313 that create high-paying jobs, provide a net benefit to the state over the long term; and advance the economic development goals of this state.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is



continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.007

HB 3390 amends the section to extend the sunset date from Dec. 31, 2014 to Dec. 31, 2022 of Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs and Subchapter C, Limitation on Appraised Value of Property in Strategic Investment Area or Certain Rural School Districts. The bill also strikes a reference to repealed Subchapter D, School Tax Credits.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.008

HB 3390 repeals this section relating to the Report on Compliance with Energy-Related Agreements.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.009

HB 3390 repeals this section relating to the Report on Compliance with Agreements.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on

or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.010

HB 1223 adds this section to provide that an entity that has been issued a registration number under Tax Code Section 151.359 is not eligible to receive a limitation on appraised value under Tax Code Chapter 313.

Effective Sept. 1, 2013.

HB 3390 adds this section to require the State Auditor to annually review at least three major agreements, as determined by the State Auditor, under Tax Code Chapter 313 to determine whether each agreement accomplishes the purposes of Tax Code Chapter 313 as expressed in Tax Code Section 313.003; each agreement complies with the intent of the Legislature in enacting Chapter 313 as expressed in Tax Code Section 313.004 and the terms of each agreement were executed in compliance with the terms of Tax Code Chapter 313. The bill provides that as part of the review, the State Auditor is required to make recommendations relating to increasing the efficiency and effectiveness of the administration of Tax Code Chapter 313.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.021

HB 1133 amends subdivision (2) to modify the definition of “qualified property” for tangible personal property to provide that it does not include property for which a sales and use tax refund has been claimed under Tax Code Section 151.3186.

Effective Sept. 1, 2013.

HB 3390 amends subdivision (2) to modify the definition of “qualified property” to provide that for qualifying land, the job-creation requirement of at least 25 new jobs is for qualifying jobs and that the definition provides that a person must submit a completed application (rather than applies) for a limitation on appraised value under Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs.



The bill also amends the definition of “qualified property” to provide that for qualifying tangible personal property, qualified property includes property first placed in service in a newly expanded building.

The bill amends subdivision (3) to modify the definition of “qualifying job” to strike language that it pays at least 110 percent of the county average weekly wage for all jobs in the county where the job is located, if the property owner creates more than 1,000 jobs in that county. The bill also modifies the definition of “qualifying job” to provide that in determining whether a property owner has created the number of qualifying jobs required under Tax Code Chapter 313, operations, services and other related jobs created in connection with the project, including those employed by third parties under contract, may satisfy the minimum qualifying jobs requirement for the project if the Texas Workforce Commission determines that the cumulative economic benefits to the state of these jobs is the same or greater than that associated with the minimum number of qualified jobs required to be created under this chapter. The bill authorizes the Texas Workforce Commission to adopt rules to implement this provision.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.024

HB 3390 amends subsection (a) to provide that Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs and Subchapter C, Limitation on Appraised Value of Property in Strategic Investment Area or Certain Rural School Districts apply only to property owned by an entity subject to the tax imposed by Tax Code Chapter 171. The bill also strikes a reference to repealed Subchapter D, School Tax Credits.

The bill amends subsection (b) to add “Texas priority project” to the list of property uses. An entity must use property for at least one of the listed uses for the property to be eligible for a limitation on appraised value under Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs.

The bill amends subsection (d) to strike language that to be eligible for an appraisal limitation at least 80 percent of all the new jobs created by the property owner must be qualifying jobs as defined by Tax Code Section 313.021(3). The bill provides that to be eligible for the limitation, the property owner must create the required number of new qualifying jobs as defined by Tax Code Section 313.021(3) and the average weekly wage

for all jobs created by the owner that are not qualifying jobs must exceed the county average weekly wage for all jobs in the county where the jobs are located.

The bill adds subsection (d-2) to provide that for purposes of determining whether a property owner has created the number of new qualifying jobs required for eligibility for a limitation on appraised value under Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs, the new qualifying jobs created under an agreement between the property owner and another school district may be included in the total number of new qualifying jobs created in connection with the project if the Texas Economic Development and Tourism Office determines that the projects covered by the agreements constitute a single unified project. The bill authorizes the Texas Economic Development and Tourism Office to adopt rules to implement this provision.

The bill amends subsection (e) to add the definition of “Texas priority project” to mean a project on which the applicant has committed to expend or allocate a qualified investment of more than \$1 billion.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.025

HB 3390 amends subsection (a) to provide that an appraisal limitation application must include any information required by the Comptroller for purposes of Tax Code Section 313.026.

The bill amends subsection (a-1) to provide that a school district submit proposed agreements (rather than agreements) between the applicant and the school district to the Comptroller within seven days of the receipt of each document.

The bill amends subsection (b) to require the governing body of a school district to deliver a copy (rather than three copies) of an application to the Comptroller and to request that the Comptroller conduct an economic impact evaluation of the investment proposed by the application (rather than provide an economic impact evaluation of the application to the school district). The bill requires the Comptroller to provide the Comptroller’s certificate or written explanation of the Comptroller’s decision not to issue a certificate when the Comptroller provides the completed economic impact evaluation to the governing body of a school district. The Comptroller must provide the school district an economic impact evaluation



and certificate or written explanation not later than the 90th day after receiving the application. The school district must provide any requested information to a person contracted by the Comptroller to conduct the economic impact evaluation.

The bill amends subsection (b-1) to require TEA to submit a written report to the school district, rather than to the Comptroller, on the impact of the applicant's proposal on the number or size of the school districts instructional facilities. The bill strikes language that a third person contracted by the Comptroller to conduct an economic impact evaluation of an application is not required to make a determination that TEA is required to make and report to the Comptroller. The bill strikes a reference to criterion in the economic impact evaluation that was deleted by the bill.

The bill amends subsection (d) to provide that not later than the 90th day after the date the Comptroller receives a copy of an application, the Comptroller shall either issue a certificate for a limitation on appraised value of the property and provide the certificate to the governing body of the school district or provide the governing body a written explanation of the Comptroller's decision not to issue a certificate. The bill strikes language that before the 91st day after the date the Comptroller receives a copy of the application, the Comptroller must submit a recommendation to the governing body of the school district as to whether the application should be approved or disapproved.

The bill amends subsection (d-1) to prohibit a governing body of a school district from approving an application unless the Comptroller submits to the governing body a certificate for a limitation on appraised value of the property. The bill strikes language that authorized a governing body of a school district to approve an application that the Comptroller recommended should be disapproved when at least two-thirds of the members of the governing body vote to approve the application at a subsequent meeting after a public hearing to consider the application and the Comptroller's recommendation.

The bill amends subsection (e) to provide that the governing body of a school district must make written findings as to any criteria considered by the Comptroller in conducting the economic impact evaluation under Tax Code Section 313.026, rather than provide written findings of specified criterion listed in that section.

The bill amends subsection (i) to provide that if the Comptroller determination that a property does not meet eligibility requirements becomes final, the Comptroller is not required to submit a certificate for a limitation on appraised value of the property or a written explanation of the decision not to issue a certificate. The bill strikes the language that if a Comptroller determination that a property does not meet eligibility requirements becomes final, the Comptroller is not required to submit a recommendation to the school district as to whether the application should be approved or disapproved.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An

application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.026

HB 3390 amends subsection (a) to provide that the economic impact evaluation of an application must include any information the Comptroller determines is necessary or helpful to the governing body of the school district in determining whether to approve an application, or to the Comptroller in determining whether to issue a certificate for a limitation on appraised value of the property. The bill strikes the required specified items in the evaluation.

The bill amends subsection (b) to require that the Comptroller's determination whether to issue a certificate for a limitation on appraised value be based on the economic impact evaluation, rather than require that the Comptroller's recommendations be based on specified criteria in the evaluation.

The bill adds subsection (c) to prohibit the Comptroller from issuing a certificate for a limitation on appraised value unless the Comptroller makes two determinations. The first determination is whether the project proposed by the applicant is reasonably likely to generate, before the 25th anniversary of the beginning of the limitation period, tax revenue, including state tax revenue, school district maintenance and operations ad valorem tax revenue attributable to the project, and any other tax revenue attributable to the effect of the project on the economy of the state, in an amount sufficient to offset the school district maintenance and operations ad valorem tax revenue lost as a result of the agreement. The second determination is whether the limitation on appraised value is a determining factor in the applicant's decision to invest capital and construct the project in this state.

The bill adds subsection (b) to require the Comptroller to state in writing the basis for these determinations.

The bill adds subsection (e) to authorize an applicant to submit information to the Comptroller that would provide a basis for an affirmative determination that the appraised value limitation is a determining factor in the applicant's decision to invest capital and construct the project in this state.

The bill adds subsection (f) to provide that notwithstanding the required determinations, if the Comptroller makes a qualitative determination that other considerations associated with the project result in a net positive benefit to the state, the Comptroller may issue the certificate.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An



application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.0265

HB 3390 amends subsection (b) to strike a reference to repealed Subchapter D, School Tax Credits.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.027

HB 3390 amends subsection (a) to strike the eight tax year time period during which an appraised value may be limited for maintenance and operations purposes.

The bill adds subsection (a-1) to provide that an agreement must provide that a limitation applies for a period of 10 years and that an agreement specify the beginning date of the limitation, which must be Jan. 1 of the first tax year that begins after the application date, the qualifying time period, or the date commercial operations begin at the site of the project.

The bill amends subsection (f) to modify one of the required contents of an agreement to provide that the agreement must require the property owner to maintain a viable presence in the school district for at least five years (rather than three years) after the date the limitation on appraised value of the owner's property expires. The bill also requires that an agreement must be in a form approved by the Comptroller.

The bill amends subsection (h) to prohibit an agreement from providing for the deferral of the date on which the qualifying time period is to commence to a date later than Jan. 1 of the fourth tax year that begins after the date the application is approved. The bill provides that if the agreement is one of a series of agreements related to the same project, the agreement may provide for the deferral of the date on which the qualifying time period is to commence to a date not later than Jan. 1 of the sixth tax year that begins after the date the application is approved.

The bill amends subsection (i) to modify the current limitation on supplemental payments to a school. The bill prohibits a person and a school district from entering an agreement under which the person agrees to provide supplemental payments to a school district or any other entity on behalf of a school district that exceeds an amount equal to the greater of \$50,000 per year or \$100 per student per year in average daily attendance, or for a period that exceeds a specified time period.

The bill adds subsection (j) to provide that an agreement under Tax Code Chapter 313 must disclose any consideration promised in conjunction with the application and the limitation.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.0275

HB 3390 amends subsection (a) to strike the requirement that a person with whom a school district enters into an agreement under Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs, must create the required number of qualifying jobs during each year of the agreement.

The bill adds subsection (d) to provide that in the event of a casualty loss that prevents a person from complying with specified requirements, the person may request and the Comptroller may grant a waiver of certain penalties.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.0276

HB 3390 adds this section to require the Comptroller to conduct an annual review and issue a determination as to whether a person with whom a school district has entered into an agreement under Tax Code Chapter 313 satisfied in the preceding year the requirements of this chapter regarding the creation of the required number of qualifying jobs. If the Comptroller



makes an adverse determination in the review, the bill requires the Comptroller to notify the person of the cause of the adverse determination and the corrective measures necessary to remedy the determination.

If a person who receives an adverse determination fails to remedy the determination following notification of the determination and the Comptroller makes an adverse determination with respect to the person's compliance in the following year, the bill provides that a person must submit to the Comptroller a plan for remedying the determination and certify the person's intent to fully implement the plan not later than Dec. 31 of the year in which the determination is made. If a person who receives an adverse determination fails to comply following notification of the determination and receives an adverse determination in the following year, the bill requires the Comptroller to impose a penalty on the person. The bill provides the computation of the penalty. If a person receives an adverse determination and the Comptroller has previously imposed a penalty on the person one or more times, the bill requires the Comptroller to impose a penalty on the person in an amount equal to a specified calculation. The bill provides that these imposed penalties may not exceed an amount equal to the difference between the amount of the ad valorem tax benefit received by the person under the agreement in the preceding year and the amount of any supplemental payments made to the school district in that year.

The bill provides that a job created by a person that is not a qualifying job because the job does not meet a numerical requirement as prescribed is considered for purposes of the penalty for failure to comply with job-creation requirements to be a non-qualifying job only if the job fails to meet the numerical requirement by at least 10 percent.

The bill provides that an adverse determination is a deficiency determination under Tax Code Section 111.008. An imposed penalty is an amount the Comptroller is required to collect, receive, administer, or enforce, and the determination is subject to the payment and redetermination requirements of Tax Code Sections 111.0081 and 111.009. The bill provides that a redetermination under Tax Code Section 111.009 of an adverse determination relating to a penalty for failure to comply with job-creation requirements is a contested case as defined by Government Code Section 2001.003.

If a person on whom a penalty is imposed contends that the amount of the penalty is unlawful or that the Comptroller may not legally demand or collect the penalty, the bill authorizes the person to challenge the Comptroller determination under Subchapters A and B, Chapter 112 of the Tax Code.

If the Comptroller imposes a penalty on a person under this section three times, the bill authorizes the Comptroller to rescind the agreement between the person and the school district under Tax Code Chapter 313. A person may contest a determination by the Comptroller to rescind an agreement between the person and a school district by filing suit against the Comptroller and the attorney general. The district courts of Travis County have exclusive, original jurisdiction of these suits. The bill provides

that these provisions prevail over a provision of Government Code Chapter 25, to the extent of any conflict. If a person files suit and the Comptroller's determination to rescind the agreement is upheld on appeal, the bill requires the person to pay to the Comptroller any tax that would have been due and payable to the school district during the pendency of the appeal, including statutory interest and penalties imposed on delinquent taxes under Tax Code Sections 111.060 and 111.061.

The bill requires the Comptroller to deposit collected penalties, including any interest and penalty applicable to the penalty, to the credit of the foundation school fund.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.031

HB 3390 amends subsection (a) to strike a reference to repealed Subchapter D, School Tax Credits.

The bill amends subsection (b) to modify the current prohibition on the application fee amount from exceeding the estimated cost to the district to process and act on the application to provide that this estimated cost includes any cost to the school district associated with the economic impact evaluation required by Tax Code Section 313.025.

Effective Jan. 1, 2014 and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.032

HB 3390 amends subsection (a) to provide that the contents of the Comptroller report on compliance with agreements include for agreements entered into under Tax Code Chapter 313 an assessment, considered in the aggregate, of the total:

- number of jobs created, direct and otherwise, in this state;
- effect on personal income, direct and otherwise, in this state;



- amount of investment in this state;
- taxable value of property on the tax rolls in this state, including property for which the limitation period has expired;
- value of property not on the tax rolls in this state as a result of agreements entered into under this chapter; and
- fiscal effect on the state and local governments.

The bill strikes the requirement that the report must be based on data certified to the Comptroller by each recipient of a limitation on appraised value under Subchapter B, Limitation on Appraised Value of Certain Property Used to Create Jobs. The bill modifies a required item of the report to include the total amount of wages and the median wage of the new qualifying jobs each recipient created. The bill provides that the requirement that the report include the market value of the qualified property of each recipient as determined by the applicable chief appraiser, includes property that is no longer eligible for a limitation on appraised value under the agreement. The bill strikes the requirement that the report include the number of new jobs created by each recipient in each sector of the North American Industry Classification System and strikes the requirement that the report include the number of jobs created that provide health benefits.

The bill adds subsection (b-1) to provide that in preparing the portion of the report described by subsection (a)(1), the Comptroller may use standard economic estimation techniques, including economic multipliers.

The bill amends subsection (c) to provide that the portion of the report described by subsection (a)(2) must be based on data certified to the Comptroller by each recipient or former recipient of a limitation on appraised value under Tax Code Chapter 313.

The bill amends subsection (d) to provide that the Comptroller may require a former recipient of a limitation on appraised value under Tax Code Chapter 313 to submit, on a form the Comptroller provides, information required to complete the report.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.033

HB 3390 adds this section to require each recipient of a limitation on appraised value under Tax Code Chapter 313 to submit to the Comptroller an annual report on a form provided by the

Comptroller that provides information sufficient to document the number of qualifying jobs created.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.051

HB 3390 amends subsection (a) to provide that “strategic investment area” means an area the Comptroller determines is a county within this state with unemployment above the state average and per capita income below the state average, an area within this state that is a federally designated urban enterprise community or an urban enhanced enterprise community; or a defense economic readjustment zone designated under Government Code Chapter 2310.

The bill amends subsection (a-1) to provide that Subchapter C, Limitation on Appraised Value of Property in Strategic Investment Area or Certain Rural School Districts applies to a school district in an area that qualifies as a strategic investment area. The bill provides that Subchapter C also applies to a school district that has territory in a county that has a population of less than 50,000 and according to the federal decennial census, the county’s population from 2000 to 2010 (rather than from 1990 to 2000) remained the same, decreased, or increased at a rate of not more than the average rate of increase in the state during that period (rather than three percent per annum).

The bill amends subsection (a-2) to make conforming changes and adds subsection (a-3) to require the Comptroller, not later than Sept. 1 of each year, to determine areas that qualify as a strategic investment area using the most recently completed full calendar year data available on that date. The bill requires the Comptroller, not later than Oct. 1, to publish a list and map of the designated areas. A determination is effective for the following tax year for purposes of Subchapter C, Limitation on Appraised Value of Property in Strategic Investment Area or Certain Rural School Districts.

The bill amends subsection (b) to strike language that for purposes of Subchapter C, Limitation on Appraised Value of Property in Strategic Investment Area or Certain Rural School Districts, at least 80 percent of all new jobs be qualifying jobs and that each qualifying manufacturing job must pay a specified minimum weekly wage; instead, the bill requires the property



owner create at least 10 new qualifying jobs as defined by Tax Code Section 313.021(3) on the owner's qualified property.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable. The bill requires the Comptroller to make the initial determination under Tax Code Section 313.051(a-3), as added by this Act, not later than Sept. 1, 2014, and to publish the initial required list and map not later than Oct. 1, 2014.

Section 313.054

HB 3390 amends subsection (a) to increase the minimum amount of the limitation from \$20 million to \$25 million for a school district in category two, \$10 million to \$20 million for a school district in category three, \$5 million to \$15 million for a school district in category four, and \$1 million to \$10 million for a school district in category five.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs,

including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Sections 313.101, 313.102, 313.103, 313.104, and 313.105

HB 3390 repeals Subchapter D, School Tax Credits.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Section 313.171

HB 3390 amends subsection (b) to provide that the repeal of Subchapter D, School Tax Credits does not affect a property owner's entitlement to a tax credit granted under that subchapter if the property owner qualified for the tax credit before the repeal of that subchapter.

Effective Jan. 1, 2014, and applies only to an application filed under Tax Code Chapter 313 on or after the effective date. An application filed before Jan. 1, 2014 is governed by the law in effect on the date the application was filed, and the former law is continued in effect for that purpose. An agreement entered into on or after Jan. 1, 2013, pursuant to an application filed under Tax Code Chapter 313, before the effective date may condition eligibility for a limitation on appraised value under Subchapter B or C of that chapter, as applicable, on compliance with the provisions of that chapter, as amended, relating to the creation of new jobs, including Tax Code Section 313.021(3) and Tax Code Section 313.024(d) or 313.051(b), as applicable.

Agriculture Code

Section 80.003

HB 1494 amends subdivision (6) to modify the definition of "citrus producer" to include a person who intends to receive income from the sale of citrus, and to include a person who owns land that is primarily used to grow citrus and that is

appraised based on agricultural use under Tax Code Chapter 23, regardless of whether the person receives income from the sale of citrus, and there is an irrebuttable presumption that the person intends to receive income from the sale of citrus.

Effective Sept. 1, 2013.

Civil Practice and Remedies Code

Section 34.041

HB 699 amends subsection (a) to provide that if a public sale of real property is required by court order or other law to be made at a place other than the courthouse door, sales under

Chapter 34, Execution on Judgments, shall be made at the place designated by that court order or other law.

The bill adds subsection (b) to authorize a commissioners court of a county to designate an area, other than an area at the county courthouse, where public sales of real property under



Chapter 34, Execution on Judgments will take place that is in a public place within a reasonable proximity of the county courthouse as determined by the commissioners court and in a location as accessible to the public as the courthouse door. The bill requires a commissioners court to record that designation in the real property records of the county and this designation is not a ground for challenging or invalidating any sale. Except for a sale under subsection (a), a sale must be held at an area designated if the sale is held on or after the 90th day after the date the designation is recorded. The bill authorizes a commissioners court, by order, to authorize a county official or employee to identify separate locations within the designated area for the conduct of sales and for the conduct of sales by peace officers under other laws.

Effective Oct. 1, 2013.

Education Code

Section 42.2515

HB 3390 amends subsection (a) to modify a reference to repealed Subchapter D, Chapter 313, Tax Code to the former Subchapter D, Chapter 313, Tax Code.

Effective Jan. 1, 2014.

Section 42.302

HB 3390 amends subsection (e) to modify a reference to repealed Subchapter D, Chapter 313, Tax Code to the former Subchapter D, Chapter 313, Tax Code.

Effective Jan. 1, 2014.

Section 130.0865

HB 2474 adds this section to provide that bonds payable from revenue and issued by the governing body of a county or school district to finance the purchase of land or the construction of a facility to be used for a branch campus, center, or extension facility authorized under Education Code Section 130.086 may be secured by a trust indenture, a deed of trust, or a mortgage granting a security interest in the applicable land or facility.

Effective June 14, 2013, and applies only to a bond issued on or after the effective date.

Election Code

Section 3.009

SB 637 adds this section to define “debt obligation” to mean an issued public security, as defined by Government Code Section 1201.002 that is secured by property taxes.

Section 132.001

HB 1728 amends subsection (b) to provide that this section (regarding unsworn declarations) does not apply to a lien required to be filed with a county clerk, or an instrument concerning real or personal property required to be filed with a county clerk, in addition to certain required oaths previously excepted.

Effective June 14, 2013.

SB 251 amends subsection (d) to add an exception as provided by subsection (f) to the requirement that an unsworn declaration include a jurat that is substantially the prescribed form.

The bill adds subsection (f) to provide that an unsworn declaration by an employee of a state agency or a political subdivision in the performance of the employee’s job duties must include a jurat that is substantially the prescribed form.

Effective Sept. 1, 2013, and applies to an unsworn declaration executed on or after the effective date.

Section 130.087

HB 2474 amends subsection (k) to modify the allowed uses of the proceeds of the junior college district branch campus maintenance tax to include payments to operate and maintain a junior college district branch campus and support its programs and services in the area of the political subdivision that levied the tax and to include lease payments to the political subdivision for facilities used exclusively by the branch campus that are owned by the political subdivision under an agreement by the applicable junior college district and the political subdivision levying the tax. Previously, the proceeds could be used only to operate and maintain a junior college district branch campus and to support its programs and services in the area of a jurisdiction that levies a junior college district branch campus maintenance tax to operate, maintain, and support the same junior college district branch campus.

Effective June 14, 2013, and applies to the proceeds of a junior college district branch campus maintenance tax levied under Education Code Section 130.087 without regard to whether imposition of the tax was approved by the voters or the proceeds were derived from taxes imposed before, on, or after the effective date.

The bill provides that the document ordering an election to authorize a political subdivision to issue debt obligations must distinctly state the following items:

- proposition language that will appear on the ballot;
- purpose for which the debt obligations are to be authorized;



- principal amount of the debt obligations to be authorized;
- taxes sufficient to pay the annual principal of and interest on the debt obligations may be imposed;
- statement of the estimated tax rate if the debt obligations are authorized or of the maximum interest rate of the debt obligations or any series of the debt obligations, based on the market conditions at the time of the election order;
- maximum maturity date of the debt obligations to be authorized or that the debt obligations may be issued to mature over a specified number of years not to exceed 40;
- aggregate amount of the outstanding principal of the political subdivision's debt obligations as of the beginning of the political subdivision's fiscal year in which the election is ordered;
- aggregate amount of the outstanding interest on debt obligations of the political subdivision as of the beginning of the political subdivision's fiscal year in which the election is ordered; and

- property tax debt service tax rate for the political subdivision at the time the election is ordered, expressed as an amount per \$100 valuation of taxable property.

Effective Sept. 1, 2013, and applies only to an election ordered on or after the effective date.

Section 4.003

SB 637 adds subsection (f) to require a debt obligation election order required under Election Code Section 3.009 be posted:

- on election day and during early voting by personal appearance, in a prominent location at each polling place;
- not later than the 21st day before the election, in three public places in the boundaries of the political subdivision holding the election; and
- during the 21 days before the election, on the political subdivision's website, prominently and together with the notice of the election and the contents of the proposition, if the political subdivision maintains a website.

Effective Sept. 1, 2013, and applies only to an election ordered on or after the effective date.

Finance Code

Section 351.0021

SB 247 amends subsection (c) to prohibit any successor in interest from charging any fee, other than interest, after closing in connection with the transfer of a tax lien unless the fee is expressly authorized under this section; or from charging any interest that is not expressly authorized under Tax Code Section 32.06.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Section 351.0022

SB 247 adds this section to provide that except as specifically permitted by Finance Code Chapter 351 or Tax Code Chapter 32 a property owner may not waive or limit a requirement imposed on a property tax lender by this chapter.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Section 351.0023

SB 247 adds this section to require a property tax lender who solicits property tax loans to include notices regarding installment plans for delinquent taxes that may be available from the tax office. If the solicitation is by mail, email, or other print or electronic media, a notice substantially similar to the prescribed notice is required to be included on the first page of all solicitation materials, in at least 12-point boldface type. If the solicitation is by broadcast media, including a television or radio broadcast, the notice must include a prescribed statement.

A property tax lender is prohibited from, in any manner, advertising or causing to be advertised a false, misleading, or deceptive statement or representation relating to a rate, term, or condition of a property tax loan.

A property tax lender who refers to a rate or charge in an advertisement is required to state the rate or charge fully and clearly. If the rate or charge is a rate of finance charge, the bill requires that the advertisement include the annual percentage rate and specifically refer to the rate as an "annual percentage rate." The advertisement must state that the annual percentage rate may be increased after the contract is executed, if applicable. The advertisement may not refer to any other rate, except that a simple annual rate that is applied to the unpaid balance of a property tax loan may be stated in conjunction with, but not more conspicuously than, the annual percentage rate.

If a property tax loan advertisement includes the number of payments, period of repayment, amount of any payment, or amount of any finance charges, the bill provides that the advertisement must, in addition to any applicable requirements, include the terms of repayment (including the repayment obligations over the full term of the loan and any balloon payment); annual percentage rate and refer to that rate as the annual percentage rate; and a statement that the lender may increase the annual percentage rate after the contract is executed, if applicable.

The bill authorizes the Finance Commission to adopt rules to implement and enforce this section. The bill authorizes, notwithstanding Finance Code Section 14.251, the Consumer Credit Commissioner to assess an administrative penalty under



Subchapter F, Chapter 14, Finance Code against a property tax lender who violates this section, regardless of whether the violation is knowing or willful.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Section 351.003

SB 247 amends this section to create subsection (a) from pre-existing language and to add an exception as provided by subsection (b) to the provision that this chapter does not prohibit a property tax lender from receiving compensation from a party other than the property tax loan applicant for the sale, transfer, assignment, or release of rights on the closing of a property tax loan transaction.

The bill adds subsection (b) to prohibit a person from selling, transferring, assigning, or releasing rights to a property tax loan to a person who is not licensed under Finance Code Section 351.051 or exempt from the application of this chapter under Finance Code Section 351.051(c).

The bill adds subsection (c) to require the Finance Commission to adopt rules to implement this section.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Government Code

Section 26.005

HB 1728 amends subsection (b) to provide that a county court seal may be created using electronic means, including using an optical disk or another electronic reproduction technique, if the means by which the seal is impressed on an original document created using the same type of electronic means does not allow for changes additions, or deletions.

The bill adds subsection (c) to provide that a county clerk's signature may be affixed on an original document using electronic means, providing those means meet the requirements described by subsection (b).

The bill adds subsection (d) to provide that a seal impressed or a signature affixed by electronic means may be delivered or transmitted electronically.

Effective June 14, 2013.

Section 43.002

SB 265 amends this section to add an exception as provided by subsection (d) to the requirement that a district attorney must give a bond before assuming the duties of the office.

The bill adds subsection (d) to provide that a district attorney is not required to execute the bond required under subsection (a) and may perform the duties of office if the commissioners court of each county in the district by order authorizes the county to self-insure against losses that would have been covered by the

Section 351.051

SB 247 amends subsection (c) to add the exception as provided by Finance Code Section 351.003 to the provision that Finance Code Chapter 351, Property Tax Lenders does not apply to specified entities and persons. The bill provides that this chapter does not apply to an individual who is related to the property owner within the second degree of consanguinity or affinity, as determined under Government Code Chapter 573 (rather than an individual who makes a property tax loan from the individual's own funds to a spouse, former spouse, or persons in the lineal line of consanguinity of the individual lending the money).

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

Section 351.054

SB 247 amends subsection (a) to specify that the sworn document that a transferee of a tax lien must file with the collector of a taxing unit must be executed by the borrower.

Effective May 29, 2013, and applies only to a contract entered into on or after the effective date.

bond. An order adopted by a commissioners court under this subsection shall be kept and recorded by the county clerk.

Effective May 18, 2013.

Section 44.002

SB 265 amends this section to add an exception as provided by subsection (c) to the requirement that a criminal district attorney must meet the qualifications and give the bond required of a district attorney by the constitution and general law.

The bill adds subsection (c) to provide that a criminal district attorney is not required to execute the bond required under subsection (a) and may perform the duties of office if the commissioners court of the county the attorney serves by order authorizes the county to self-insure against losses that would have been covered by the bond. An order adopted by a commissioners court under this subsection shall be kept and recorded by the county clerk.

Effective May 18, 2013.

Section 323.0145

HB 1271 adds subsection (e) to provide that if the text of a document described by subsection (a)(2)(C) or (D) regarding texts of bills, amendments and substitutes includes a cross-reference to a section of state statute, the Texas Legislative Council to the extent feasible shall include in any electronic version of the document made available to the public through



the Internet an electronic link or other method by which a person reading the document may automatically access the text of the referenced section.

Effective Nov. 1, 2014, and applies only to a bill or joint resolution filed, or an amendment or substitute adopted by a legislative committee, on or after the effective date.

Section 402.042

SB 246 amends subsection (c) to provide that a request for an attorney general opinion may be made electronically to an electronic mail address designated by the attorney general for the purpose of receiving requests for opinions under this section relating to questions of public interest and official duties.

Effective Sept. 1, 2013.

Section 403.302

HB 1897 amends subsection (d) to provide that for purposes of the determination of school district property value, the current deduction from “taxable value” of the portion of the market value of property not otherwise fully taxable by the school district at market value because of an action required by statute or the constitution of this state does not apply to Tax Code Section 11.311.

Effective Sept. 1, 2013.

SB 163 amends subsection (d-1) to provide that for purposes of subsection (d), a residence homestead that receives an exemption under Tax Code Section 11.132 (Chapter 138, 83rd Regular Session), in the year that is the subject of the study is not considered to be taxable property.

Effective Jan. 1, 2014, contingent on voter approval of HJR 62.

Section 431.0306

SB 1536 repeals this section relating to the tax status of property held by the adjutant general.

Effective Sept. 1, 2013.

Section 431.039

SB 1536 repeals this section relating to an exemption from fees, including fees for property tax records, for a member of the National Guard on federal active duty, or a member of the U.S. armed forces on active duty, who is preparing to be deployed to serve in a hostile fire zone as designated.

Effective Sept. 1, 2013.

Section 431.083

SB 1536 repeals this section relating to an exemption from road or street tax for an officer or enlisted person in the state military forces who complies with the person’s military duties.

Effective Sept. 1, 2013.

Section 437.161

SB 1536 adds this section relating to the tax status of property to provide that property held by the Texas Military Department and rents, issues, and profits from the property are exempt from taxation by the state, a city, a county or other political subdivision, or a taxing district of this state.

Effective Sept. 1, 2013.

Section 437.217

SB 1536 adds this section relating to exemption from fees for deployed military personnel.

The bill adds subsection (a) to provide that a member of the National Guard on federal active duty, or a member of the U.S. armed forces on active duty, who is preparing to be deployed to serve in a hostile fire zone as designated by the U.S. secretary of defense is exempt from paying the following state or local governmental fees the member incurs because of the deployment to arrange the member’s personal affairs fees: for obtaining copies of a birth certificate, a recorded marriage license, a divorce decree, a child support order, guardianship documents, and property tax records; for issuing a marriage license or duplicate marriage license; and fees for transferring title to real or personal property.

The bill adds subsection (b) to provide that the governmental entity responsible for collecting a fee described by subsection (a) may rely on a letter issued by the commander of the service member’s unit for purposes of providing an exemption under subsection (a).

Effective Sept. 1, 2013.

Section 437.218

SB 1536 adds this section relating to a tax exemption.

The bill adds subsection (a) to provide that an officer or enlisted service member in the Texas military forces who complies with the service member’s military duties as prescribed by Government Code Chapter 437, Texas Military is exempt from payment of a road or street tax.

The bill adds subsection (b) to provide that to obtain the exemption, a service member must file in the county tax assessor-collector’s office an affidavit, sworn to before a notary public or other person authorized to administer oaths in this state, in the specified form.

The bill adds subsection (c) to authorize the county tax assessor-collector to rely on a letter issued by the commander of the service member’s unit for purposes of providing the exemption under this section.

Effective Sept. 1, 2013.



Section 551.001

SB 471 adds subdivision (7) to define “recording” to mean a tangible medium on which audio or a combination of audio and video is recorded, including a disc, tape, wire, film, electronic storage drive, or other medium now existing or later developed.

Effective May 18, 2013.

HB 2414 adds subdivision (7) to define a “videoconference call” as a communication conducted between two or more persons in which one or more of the participants communicate with the other participants through duplex audio and video signals transmitted over a telephone network, a data network or the Internet.

Effective June 14, 2013, and applies only to an open meeting held on or after the effective date.

Section 551.006

HB 2414 and **SB 1297** add this section relating to written electronic communications accessible to the public.

The bills add subsection (a) to provide that a communication or exchange of information between members of a governmental body about public business or public policy over which the governmental body has supervision or control does not constitute a meeting or deliberation for purposes of this chapter if the communication is in writing; the writing is posted to an online message board or similar Internet application that is viewable and searchable by the public; and the communication is displayed in real time and displayed on the online message board or similar Internet application for no less than 30 days after the communication is first posted.

The bills add subsection (b) to provide that a governmental body may have no more than one online message board or similar Internet application to be used for the purposes described in subsection (a). The online message board or similar Internet application must be owned or controlled by the governmental body and prominently displayed on the governmental body’s primary webpage as prescribed.

The bills add subsection (c) to provide that the online message board or similar Internet application described in subsection (a) may only be used by governmental body members or staff members who have received specific authorization from a governmental body member. In the event that a staff member posts a communication to the online message board or similar Internet application, the name and title of the staff member must be posted along with the communication.

The bills add subsection (d) to provide that if a governmental body removes from the online message board or similar Internet application a communication that has been posted for at least 30 days, the governmental body is required to maintain the posting for a period of six years. This communication is public information and must be disclosed in accordance with Government Code Chapter 552, Public Information.

The bills add subsection (e) to prohibit a governmental body from voting or taking any action that is required to be taken at a meeting under Government Code Chapter 551, Open Meetings of the governmental body by posting a communication to the online message board or similar Internet application. In no event shall a communication or posting to the online message board or similar Internet application be construed to be an action of the governmental body.

Effective June 14, 2013, and applies only to an open meeting held on or after the effective date (HB 2414). Effective Sept. 1, 2013 (SB 1297).

Sections 551.021, 551.022, 551.023, 551.0725, and 551.0726

SB 471 amends these sections, including headings, to strike “tape” from references of “tape recording” and “tape recorder.”

Effective May 18, 2013.

Section 551.090

SB 228 adds this section to provide that Government Code Chapter 551 does not require a TSBPA appointed enforcement committee to conduct an open meeting to investigate and deliberate a disciplinary action under Subchapter K, Chapter 901, Occupations Code, relating to the enforcement of that chapter or TSBPA rules.

Effective Sept. 1, 2013.

Sections 551.103, 551.104, 551.121, 551.122, and 551.125

SB 471 amends these sections, including headings, to strike “tape” from references of “tape recording,” replace references of “tape” with “recording,” and replace references of “tape-recorded” with “recorded.”

Effective May 18, 2013.

Section 551.127

HB 2414 adds subsection (a-1) to provide that a member or employee of a governmental body may participate remotely in a meeting of the governmental body by means of a videoconference call if the video and audio feed of the member’s or employee’s participation, as applicable, is broadcast live at the meeting and complies with the provisions of this section.

The bill adds subsection (a-2) to provide that a member of a governmental body who participates in a meeting as provided by subsection (a-1) shall be counted as present at the meeting for all purposes.

The bill amends subsection (c) to provide that a meeting of a governmental body (rather than a state governmental body or a governmental body that extends into three or more counties) may be held by videoconference call only if:

- the governmental body makes available to the public at least one suitable physical space located in or within a reasonable



distance of the geographic jurisdiction, if any, of the governmental body that is equipped with videoconference equipment that provides an audio and video display, as well as a camera and microphone by which a member of the public can provide testimony or otherwise actively participate in the meeting,

- the member of the governmental body presiding over the meeting is present at that physical space, and
- any member of the public present at that physical space is provided the opportunity to participate in the meeting by means of a videoconference call in the same manner as a person who is physically present at a meeting of the governmental body that is not conducted by videoconference call.

SB 984 amends subsection (c) to modify provisions relating to a state governmental body or a governmental body that extends into three or more counties holding a meeting by videoconference to provide that a meeting may be held by videoconference call only if the member of the governmental body presiding over the meeting, rather than a majority of the quorum, is physically present at one location of the meeting and to provide that the meeting must be open to the public during the open portions of the meeting.

HB 2414 amends subsection (e) to provide that the notice of a meeting to be held by videoconference call must specify as a meeting location the location of the physical space described by subsection (c) (rather than the location as previously specified).

SB 984 amends subsection (e) to conform to changes in subsection (c) and to provide that the location where the member of the governmental body presiding over the meeting is physically present shall be open to the public during the open portions of the meeting. The bill strikes language that the notice of a meeting must specify as a location of the meeting each location where a member of the governmental body who will participate in the meeting will be physically present during the meeting.

The bill amends subsection (f) to provide that if a problem occurs that causes a meeting to no longer be visible and audible to the public at that location, the meeting must be recessed until the problem is resolved. If the problem is not resolved in six hours or less, the meeting must be adjourned.

HB 2414 amends subsection (h) to require that the physical location have two-way audio and video communication with each member who is participating by videoconference call during the entire meeting and that each participant in the videoconference call, while speaking, to be clearly visible and audible to each other participant and, during the open portion of the meeting, to the members of the public in attendance at the physical location described by subsection (c) and at any other location of the meeting that is open to the public.

SB 984 amends subsection (h) to modify the locations that must have two-way communication with each other location during the entire meeting to include the location specified under subsection (c) and each remote location from which a member of the governmental body participates.

HB 2414 amends subsection (j) to provide that the audio and video signals perceptible by members of the public at each location of the meeting described by subsection (h) must be of sufficient quality so that members of the public at each location can observe the demeanor and hear the voice of each participant in the open portion of the meeting.

Effective June 14, 2013, and applies only to an open meeting held on or after the effective date (HB 2414). Effective Sept. 1, 2013 (SB 984).

Section 551.1281

HB 31 adds this section, “Governing Board of General Academic Teaching Institution or University System: Internet Posting of Meeting Materials and Broadcast of Open Meeting,” to define “general academic teaching institution” and “university system” as having the meanings assigned by Education Code Section 61.003.

The bill requires the governing board of a general academic teaching institution or of a university system that includes one or more component general academic teaching institutions, for any regularly scheduled meeting of the governing board for which notice is required under Government Code Chapter 551, to:

- post on the website of the institution or university system, as applicable, as early as practicable in advance of the meeting any written agenda and related supplemental written materials provided in advance of the meeting to the governing board members,
- broadcast the meeting, other than any portions closed to the public as authorized by law, over the Internet in the manner prescribed by Government Code Section 551.128, and
- record the broadcast and make that recording publicly available in an online archive located on the institution’s or university system’s website.

The bill provides that subsection (b)(1) does not apply to written materials that the general counsel or other appropriate attorney for the institution or university system certifies are confidential or may be withheld from public disclosure under Government Code Chapter 552. The bill also provides that the governing board of a general academic teaching institution or of a university system is not required to comply with the requirements of the section if that compliance is not possible because of an act of God, force majeure, or a similar cause not reasonably within the governing board’s control.

Effective June 14, 2013, and applies only to a meeting of the governing board of a general academic teaching institution or of a state university system for which notice is given under Government Code Chapter 551 on or after Jan. 1, 2014.

Section 551.1282

HB 2668 adds this section, “Governing Board of Junior College District: Internet Posting of Meeting Materials and Broadcast of Open Meeting” which applies only to the governing board of



a junior college district with a total student enrollment of more than 20,000 in any semester of the preceding academic year. The bill provides that a governing board to which this section applies, for any regularly scheduled meeting of the governing board for which notice is required, shall:

- post as early as practicable in advance of the meeting on the website of the district any written agenda and related supplemental written materials (other than materials certified as confidential),
- broadcast the meeting, other than legally closed portions, over the Internet in the manner prescribed by Government Code Section 551.128 and
- record the broadcast and make that recording publicly available in an online archive located on the district's Internet website.

The bill provides that the governing board of a junior college district is not required to comply with the requirements of this section if that compliance is not possible because of an act of God, force majeure or a similar cause not reasonably within the governing board's control.

Effective June 14, 2013, but applies only to a meeting of the governing board of a junior college district for which notice is given under Government Code Chapter 551 on or after Jan. 1, 2014.

Section 551.130

HB 3357 amends subsection (e) to provide that the open portions of the meeting (a telephone conference call meeting of the Teachers Retirement System Board) must be audible to the public at the location where the quorum is present and be recorded (rather than tape-recorded) at that location.

The bill amends subsection (j) to provide that a person who is not a member of the board may speak at the meeting from a remote location by telephone conference call (rather than may not speak at the meeting from a remote location by telephone conference call, except as provided by Government Code Section 551.129).

Effective June 14, 2013.

SB 471 amends subsection (e) to replace references of "tape-recorded" with "recorded."

Effective May 18, 2013.

Section 551.131

SB 293 adds this section to authorize a water district, as defined, whose territory includes land in three or more counties to hold a meeting held by telephone conference call or video conference call under specified conditions. Those conditions are: if the meeting is a special called meeting and immediate action is required and the convening at one location of a quorum of the governing body of the applicable water district is difficult or impossible.

The bill provides that a meeting held by telephone conference call must otherwise comply with the procedures under Government Code Sections 551.125(c), (d), (e), and (f). A meeting held by video conference call is subject to the notice requirements applicable to other meetings. In addition, a meeting held by video conference call is required to be visible and audible to the public at the location specified in the notice of the meeting as the location of the meeting, be recorded by audio and video, and have two-way audio and video communications with each participant in the meeting during the entire meeting.

Effective May 10, 2013.

Sections 551.145 and 551.146

SB 471 amends these sections, including the headings, to strike "tape" from references of "tape recording."

Effective May 18, 2013.

Section 552.002

SB 1368 amends subsection (a) to modify the definition of "public information" to mean information that is written, produced, collected, assembled, or maintained under a law or ordinance or in connection with the transaction of official business by a governmental body; for a governmental body and the governmental body owns the information, has a right of access to the information, or spends or contributes public money for the purpose of writing, producing, collecting, assembling, or maintaining the information; or by an individual officer or employee of a governmental body in the officer's or employee's official capacity and the information pertains to official business of the governmental body.

The bill adds subsection (a-1) to provide that information is in connection with the transaction of official business if the information is created by, transmitted to, received by, or maintained by a governmental body officer or employee in the officer's or employee's official capacity, or a person or entity performing official business or a governmental function on behalf of a governmental body, and pertains to official business of the governmental body.

The bill adds subsection (a-2) to provide that the definition of "public information" provided by subsection (a) applies to and includes any electronic communication created, transmitted, received, or maintained on any device if the communication is in connection with the transaction of official business.

The bill amends subsection (b) to add to the list of media on which public information is recorded to include any physical material on which information may be recorded and to include other devices that can store an electronic signal.

The bill amends subsection (c) to add to the general forms in which media containing public information exist to include email, Internet posting, text message, instant message, or other electronic communication.

Effective Sept. 1, 2013.



Section 552.003

SB 1368 amends this section to define “official business” for Government Code Chapter 552, Public Information to mean any matter over which a governmental body has any authority, administrative duties, or advisory duties.

Effective Sept. 1, 2013.

Section 552.024

HB 2961 amends subsection (a) to create an exception as provided by subsection (a-1) to the requirement that each employee or official of a governmental body and each former employee official of a governmental body shall choose whether to allow public access to the information in the custody of the governmental body that relates to the person’s home address, home telephone number, emergency contact information, or social security number, or that reveals whether the person has family members.

The bill adds subsection (a-1) to prohibit a school district from requiring an employee or former employee of the district to choose whether to allow public access to the employee’s or former employee’s social security number.

Effective Sept. 1, 2013.

Section 552.1085

SB 1512 adds this section relating to the confidentiality of a sensitive crime image.

The bill adds subsection (a) to define “deceased person’s next of kin,” “defendant,” “expressive work,” “local governmental entity,” “public or private institution of higher education,” “sensitive crime scene image,” and “state agency.”

The bill adds subsection (b) to provide that for purposes of this section, a website, the primary function of which is not the delivery of news, information, current events, or other matters of public interest or concern, is not an expressive work.

The bill adds subsection (c) to provide that a sensitive crime scene image in the custody of a governmental body is confidential and excepted from the requirements of Government Code Section 552.021 and a governmental body may not permit a person to view or copy the image except as provided by this section. This section applies to any sensitive crime scene image regardless of the date that the image was taken or recorded.

The bill adds subsection (d) to specify, notwithstanding subsection (c) and subject to subsection (e), the persons authorized to view or copy information that constitutes a sensitive crime scene image from a governmental body.

The bill adds subsection (e) to provide that this section does not prohibit a governmental body from asserting an exception to disclosure of a sensitive crime scene image to a person identified in subsection (d) on the grounds that the image is excepted from the requirements of Government Code Section 552.021 under another provision of Government Code Chapter 552, Public Information or another law.

The bill adds subsection (f) to provide that not later than the 10th business day after the date a governmental body receives a request for a sensitive crime scene image from specified persons, the governmental body is required to notify the deceased person’s next of kin of the request in writing. The notice must be sent to the next of kin’s last known address.

The bill adds subsection (g) to provide that a governmental body that receives a request for information that constitutes a sensitive crime scene image is required to allow a person described in subsection (d) to view or copy the image not later than the 10th business day after the date the governmental body receives the request unless the governmental body files a request for an attorney general decision under Subchapter G, Attorney General Decisions regarding whether an exception to public disclosure applies to the information.

Effective Sept. 1, 2013, and applies only to the disclosure or copying of a sensitive crime scene image on or after that date.

Section 552.117

HB 2733 amends subsection (a) to add to the list of persons for whom information related to the home address, home telephone number, emergency contact information, social security number or that reveals whether the person has family members is excepted from the requirements of Government Code Section 552.021:

- a current or former employee of TJJD or of the predecessors in function of TJJD, regardless of whether the current or former employee complies with Government Code Section 552.1175,
- a juvenile probation or supervision officer certified by TJJD, or its predecessors in function, under Human Resources Code, Title 12 or
- employees of a juvenile justice program or facility, as those terms are defined by Family Code Section 261.405.

Effective Sept. 1, 2013.

Section 552.1175

HB 1632 amends the section heading to “Confidentiality of Certain Identifying Information of Peace Officers, County Jailers, Security Officers, Employees of the Texas Department of Criminal Justice or a Prosecutor’s Office, and Federal and State Judges.”

The bill amends subsection (a) and (b) to add federal and state judges as defined by Election Code Section 13.0021 to the list of individuals for whom certain specified information is confidential and may not be disclosed to the public if the individual chooses to restrict the information and notifies the governmental body of the individual’s choice on a form accompanied by evidence of the individual’s status. The bill also adds date of birth to the list of items that are confidential under the section.

Effective June 14, 2013.



HB 2733 amends the section heading to “Confidentiality of Certain Personal Information of Peace Officers, County Jailers, Security Officers, and Employees of Certain Criminal or Juvenile Justice Agencies or Offices.”

The bill amends subsection (a) to add to the list of persons to whom this section exclusively applies:

- juvenile probation and detention officers certified by TJJD or its predecessors in function under Human Resources Code, Title 12,
- employees of a juvenile justice program or facility as defined by Family Code Section 261.405 and
- current or former employees of TJJD or its predecessors in function.

Effective Sept. 1, 2013.

Section 552.130

SB 458 amends this section, relating to the confidentiality of certain motor vehicle records, to apply the pre-existing authorization of a governmental body to redact information disclosed under Government Code Section 552.021 without the necessity of requesting a decision from the attorney general to information described in subsection (a), rather than subsections (a)(1) and (3).

Effective May 18, 2013, and applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.138

HB 2725 amends the section heading to “Exception: Confidentiality of Family Violence Shelter Center, Victims of Trafficking Shelter Center, and Sexual Assault Program Information.”

The bill adds subdivision (3) to subsection (a) to provide that “victims of trafficking shelter center” means a:

- program that is operated by a public or private nonprofit organization and provides comprehensive residential and nonresidential services to persons who are victims of trafficking under Penal Code Section 20A.02, or
- defined child-placing agency that provides services to persons who are victims of trafficking as specified.

The bill amends subsection (b) to add information maintained by a victims of trafficking shelter center to the specified information that is excepted from the requirements of Government Code Section 552.021, relating to the availability of public information.

The bill amends subsection (c) to add specified information maintained by a victims of trafficking shelter center to the information that may be redacted by a governmental body without requesting a decision from the attorney general.

Effective June 14, 2013.

Section 552.147

HB 2961 amends subsection (a) to create an exception as provided by subsection (a-1) to the requirement that the social security number of a living person is excepted from the requirements of Government Code Section 552.021, Availability of Public Information but is not confidential under this section and this section does not make the social security number of a living person confidential under another provision of the law.

The bill adds subsection (a-1) to provide that the social security number of an employee of a school district in the custody of the district is confidential.

Effective Sept. 1, 2013.

Section 552.153

SB 211 amends subsection (b) to modify when information in the custody of a responsible governmental entity that relates to a proposal for a qualifying project authorized under Chapter 2267, Public and Private Facilities and Infrastructure is excepted from the requirements of Government Code Section 552.021 to include when the records are provided by a proposer to a responsible governmental entity or affected jurisdiction under Government Code Chapter 2267 and contain work product related to a competitive bid or proposal submitted by the proposer that, if made public before the execution of an interim or comprehensive agreement, would provide a competing proposer an unjust advantage or adversely affect the financial interest or bargaining position of the responsible governmental entity or the proposer.

The bill also replaces references to “contracting person” and “person” with “proposer.”

The bill adds subsection (d) to provide that in this section, “proposer” has the meaning assigned by Government Code Section 2267.001.

Effective June 14, 2013.

Section 552.3221

SB 983 adds this section relating to *in camera* inspection of information.

The bill adds subsection (a) to provide that in any suit filed under Government Code Chapter 552, Public Information, the information at issue may be filed with the court for *in camera* inspection as is necessary for the adjudication of the case.

The bill adds subsection (b) to provide that upon receipt of the information at issue for *in camera* inspection, the court is required to enter an order that prevents release to or access by any person other than the court, a reviewing court of appeals, or parties permitted to inspect the information pursuant to a protective order. The order is required to further note the filing date and time.

The bill adds subsection (c) to provide that the information at issue filed with the court for *in camera* inspection is required to be appended to the order and transmitted by the court to



the clerk for filing as “information at issue,” maintained in a sealed envelope or in a manner that precludes disclosure of the information, and transmitted by the clerk to any court of appeal as part of the clerk’s record.

The bill adds subsection (d) to provide that information filed with the court under this section does not constitute “court records” within the meaning of Rule 76a, Texas Rules of Civil Procedure, and shall not be made available by the clerk or any custodian of record for public inspection.

The bill adds subsection (e) to provide that for purposes of this section, “information at issue” is defined as information held by a governmental body that forms the basis of a suit under Government Code Chapter 552, Public Information.

Effective Sept. 1, 2013.

Section 609.006

SB 366 amends subsection (a) to modify a reference to designating or converting deferred amounts in a deferred compensation plan to the designation or converting all or a portion of deferred amounts as or to Roth contributions under Government Code Section 609.1025 or 609.5021, as applicable.

Effective May 18, 2013, but the Legislature validates an act taken before the effective date by a political subdivision to establish and administer a qualified Roth contribution program in accordance with Section 402A, Internal Revenue Code of 1986; a program in accordance with federal law under which an employee may designate or convert all or a portion of the employee’s contribution under a 457 plan as or to a Roth contribution at the time the contribution is made; or a loan program under a 457 plan. This does not apply to a matter that on the effective date is involved in litigation, if the litigation ultimately results in the matter being held invalid by a final court judgment; or has been held invalid by a final court judgment.

Section 609.1025

SB 366 adds this section to authorize a political subdivision to establish a qualified Roth contribution program in accordance with Section 402A, Internal Revenue Code of 1986, under which an employee may designate all or a portion of the employee’s contribution under a 401(k) plan as a Roth contribution at the time the contribution is made or convert all or a portion of the employee’s previous contribution under the plan to a Roth contribution.

The bill also authorizes a political subdivision, if authorized by federal law, to establish a program in accordance with the applicable federal law under which an employee may designate all or a portion of the employee’s contribution under a 457 plan as a Roth contribution at the time the contribution is made or convert all or a portion of the employee’s previous contribution under the plan to a Roth contribution.

Effective May 18, 2013, but the Legislature validates an act taken before the effective date by a political subdivision to establish and administer a qualified Roth contribution program in accordance

with Section 402A, Internal Revenue Code of 1986; a program in accordance with federal law under which an employee may designate or convert all or a portion of the employee’s contribution under a 457 plan as or to a Roth contribution at the time the contribution is made; or a loan program under a 457 plan. This does not apply to a matter that on the effective date is involved in litigation, if the litigation ultimately results in the matter being held invalid by a final court judgment; or has been held invalid by a final court judgment

Section 609.1175

SB 366 authorizes a plan administrator of a 457 plan to develop and implement procedures to efficiently administer a program under the plan that allows a qualified vendor to lend money to a participating employee.

Effective May 18, 2013, but the Legislature validates an act taken before the effective date by a political subdivision to establish and administer a qualified Roth contribution program in accordance with Section 402A, Internal Revenue Code of 1986; a program in accordance with federal law under which an employee may designate or convert all or a portion of the employee’s contribution under a 457 plan as or to a Roth contribution at the time the contribution is made; or a loan program under a 457 plan. This does not apply to a matter that on the effective date is involved in litigation, if the litigation ultimately results in the matter being held invalid by a final court judgment; or has been held invalid by a final court judgment.

Section 791.011

HB 1050 adds subsection (j) to define “purchasing cooperative” for the purposes of the subsection. The bill provides that a local government may not enter into a contract to purchase construction-related goods or services through a purchasing cooperative under Government Code Chapter 791, Interlocal Cooperation Contracts in an amount greater than \$50,000 unless a person designated by the local government makes a specified certification in writing. This certification is that the project for which the construction-related goods or services are being procured does not require the preparation of plans and specifications under Occupations Code Chapter 1001 or 1051, or the plans and specifications required under Occupations Code Chapter 1001 or 1051 have been prepared.

Effective Sept. 1, 2013, and applies only to a contract made on or after the effective date.

Section 801.001

HB 13 adds subdivisions (1-a), (3), and (4) to define “governing body of a public retirement system” as having the meaning assigned by Government Code Section 802.001, “system administrator” as a person designated by the governing body of a public retirement system to supervise the day-to-day affairs of the public retirement system and “trustee” as a member of the governing body of a public retirement system.

Effective May 24, 2013.



Section 801.209

HB 13 adds this section, relating to public system reports and information, to require PRB to:

- post on its website or a linked public website the most recent data from reports received under Government Code Sections 802.101, 802.103, 802.104, 802.105, and 802.108 for each public retirement system,
- post, on the 60th day after the date a report or information required by this Government Code Chapter 801 or 802 is due, a list of public retirement systems that have not submitted the required reports or information, and
- notify the governor and the LBB regarding any lack of timely submissions by specified statewide public retirement systems or to notify the governing body of the relevant political subdivision regarding any lack of timely submissions by a public retirement system that is not specified.

Effective May 24, 2013. The bill requires, by Sept. 1, 2014, PRB to conduct a study of the financial health of public retirement systems in this state and issue a report of its findings and recommendations. By Dec. 31, 2014, after each public retirement system has an opportunity to review and respond to the report, and after any PRB revisions, PRB must submit the final report to the Legislature along with a copy of any written responses from public retirement systems.

Section 801.210

HB 13 adds this section, relating to model ethical standards and conflict of interest policies, to require the PRB to develop and make reasonably available on its' website PRB model ethical standards and model conflict of interest policies, including disclosure requirements for voluntary use by a public retirement system. The bill also provides that a public retirement system is not required to adopt a standard or policy based on the model developed under this section.

Effective May 24, 2013. As soon as practicable after the effective date, but not later than Dec. 31, 2013 PRB is required to develop and publish the model ethical standards and conflict of interest policies required by this section.

Section 801.211

HB 13 adds this section, relating to public retirement system education training program, to set forth provisions for PRB to develop and administer an educational training program for trustees and system administrators. PRB must report the level of compliance in the biennial report required by Government Code Section 801.203. The bill authorizes PRB to adopt rules and appropriate fees to administer and provide educational training programs under this section.

The bill allows a public retirement system to provide its own educational training as specified and a trustee or system

administrator who participates in that training fulfills the minimum training requirements established by PRB.

Effective May 24, 2013. As soon as practicable, but not later than necessary to begin providing training classes on or before Sept. 1, 2014, PRB is required to adopt rules to implement this section. For purposes of reporting the level of compliance with the minimum training requirements of the educational training program as required by Government Code Section 801.211(b), PRB may only evaluate compliance with the minimum training requirements by trustees and administrators of public retirement systems on or after Jan. 1, 2015.

Section 802.001

HB 13 adds subdivision (4) to define "system administrator" as a person designated by the governing body of a public retirement system to supervise the day-to-day affairs of the public retirement system.

Effective May 24, 2013.

Section 802.107

HB 13 renames the section as "General Provisions Relating to Reports and Contact Information."

The bill adds subsection (c) to require a public retirement system to post specified contact information and reports on a publicly available website.

The bill adds subsection (d) to require a public retirement system that maintains a website or for which a website is maintained to prominently post a link to the information required by subsection (c). The bill requires all other public retirement systems to post the information required by subsection (c) on other specified websites.

The bill adds subsection (e) to require that any report or other information posted under subsection (c) remain posted until replaced with a more recently submitted edition of the report or information.

Effective May 24, 2013. The bill requires by Sept. 1, 2014 the PRB to conduct a study of the financial health of public retirement systems in this state and issue a report of its findings and recommendations. By Dec. 31, 2014, after each public retirement system has an opportunity to review and respond to the report, and after any PRB revisions, PRB must submit the final report to the Legislature along with a copy of any written responses from public retirement systems.

Section 802.108

HB 13 adds this section, relating to the report of investment returns and assumptions, to:

- require a public retirement system, before the 211th day after the last day of its fiscal year, to submit to PRB an investment returns and actuarial assumptions report that includes specified items,



- define “net investment return” for the purposes of this section as the gross investment return minus investment expenses,
- provide that the net investment return may be calculated as the money-weighted rate of return as required by generally accepted accounting principles,
- provide that the period basis for each report of investment returns must be the fiscal year of the public retirement system submitting the report, and
- provide that, if any information required to be reported by subsection (a) is unavailable, a public retirement system is required to submit to PRB by a specified deadline a letter certifying that the information is unavailable, providing a reason for its unavailability and agreeing to timely submit the information to PRB if it becomes available.

Effective May 24, 2013. The bill requires, by Sept. 1, 2014, PRB to conduct a study of the financial health of public retirement systems in this state and issue a report of its findings and recommendations. By Dec. 31, 2014, after each public retirement system has an opportunity to review and respond to the report, and after any PRB revisions, PRB must submit the final report to the Legislature along with a copy of any written responses from public retirement systems.

Sections 2003.901, 2003.902, 2003.904, 2003.908, 2003.909, 2003.915, and 2003.916

(Subchapter Z)

HB 316 amends the heading of this subchapter to “Appeals from Appraisal Review Board Determinations.”

The bill renames the heading of Section 2003.901 to “Appeals from Appraisal Review Board Determinations.” The bill amends subsection (a) and strikes subsections (b) and (c) to delete language referencing the pilot program.

The bill renames the heading of Section 2003.902 to “Participating Offices and Remote Hearing Sites.” The bill strikes a list of counties that implemented the pilot program for a specified time period and replaces it with a list of cities in which SOAH is required to hear appeals filed under this subchapter. These cities are Amarillo, Austin, Beaumont, Corpus Christi, El Paso, Fort Worth, Houston, Lubbock, Lufkin, McAllen, Midland, San Antonio, Tyler, and Wichita Falls.

The bill amends Section 2003.904 to strike the applicability of the pilot program and to provide that the subchapter applies only to an appeal of a determination of the appraised or market value made by an ARB in connection with real or personal property, other than industrial property. The bill strikes language that this subchapter does not apply to mineral appeals.

The bill amends Section 2003.908 to strike language that referred to ARBs of CADs established in a specified list of counties that the bill deleted.

The bill amends the heading of Section 2003.909 to “Designation of Administrative Law Judge, Location of Hearing.” The bill adds subsection (b-1) to this section to

provide that if all or part of a property that is the subject of the appeal is located in a city listed in Government Code Section 2003.902, the administrative law judge is required to set the hearing in that city. If no part of the property that is the subject of the appeal is located in a city listed as specified, the administrative law judge is required to set the hearing in the listed city that is nearest to the subject property. The bill amends subsection (c) of this section to strike language that a hearing must be held in a building or facility located in the county in which the applicable CAD is established. The bill provides that if SOAH does not own or lease a building or facility in the city in which a hearing is required to be held, the hearing may be held in any public or privately owned building or facility in that city, preferably a building or facility in which SOAH regularly conducts business.

The bill repeals Sections 2003.915 and 2003.916 relating to reporting requirements of the pilot program and the sunset date of the subchapter.

Effective Jan. 1, 2014, and applies only to an appeal filed under Subchapter Z, Chapter 2003, Government Code, on or after the effective date.

Sections 2054.375, 2054.376, 2054.3771, 2054.378, 2054.380, 2054.3851, and 2054.387

(Subchapter L, Statewide Technology Centers)

SB 866 amends this subchapter to add the definition of “governmental entity.” The bill amends the application of the subchapter to include all information resources technologies (other than telecommunications service), advanced communications services, or information service, as defined, that are obtained by a state agency using state money, used by a state agency, or used by a participating local government.

The bill authorizes DIR to establish or expand a statewide technology center to include participation by a local government. The executive director and DIR have all the powers necessary or appropriate, consistent as specified, to accomplish that purpose. The bill modifies DIR’s authorization to operate statewide technology centers to include providing services relating to the deployment, development, and maintenance of software applications.

The bill authorizes local governments to submit a request to DIR to receive services or operations through a statewide technology center. The bill provides procedures for submitting requests, DIR analyzing requests, selecting local governments for participation, providing notice of services and costs, contracting with participating local governments, providing for local governments that are parties to an interlocal agreement to make a request, and complying with service levels.

Effective May 18, 2013.



Section 2252.002

HB 1050 amends the section to prohibit a governmental entity from awarding a governmental contract to a nonresident bidder in a specified situation.

Effective Sept. 1, 2013, and applies only to a contract made after the effective date.

Section 2252.907

SB 1368 adds this section relating to contracts involving the exchange or creation of public information.

The bill adds subsection (a) to specify the content of a contract between a state governmental entity and a nongovernmental vendor involving the exchange or creation of public information as defined by Government Code Section 552.002 that the state governmental entity collects, assembles, or maintains or to which it has a right of access. The bill provides that a contract must be drafted in consideration of the requirements of Government Code Chapter 552, Public Information and contain a provision that requires the vendor to make the information not otherwise excepted from disclosure under Government Code Chapter 552 available in a specific format that is agreed upon in the contract and accessible by the public.

The bill adds subsection (b) to provide that this section may not be waived by contract or otherwise.

The bill adds subsection (c) to provide that a request for public information regarding a contract described by this section must be submitted to the officer or employee responsible for responding to open records requests for the state governmental entity that executed the contract.

The bill adds subsection (d) to provide a definition of “state governmental entity” for this section.

Effective Sept. 1, 2013, and applies only to a contract for which a state governmental entity first advertises or otherwise solicits bids, proposals, offers, or qualifications on or after the effective date.

Section 2257.045

SB 581 adds subsection (a) from pre-existing language.

The bill adds subsection (b) to provide that for a deposit of public funds under Subchapter F, Pooled Collateral to Secure Deposits of Certain Public Funds, the custodian is required to issue and deliver to the Comptroller a trust receipt for the pledged security.

The bill adds subsection (c) from pre-existing language and provides that for any other deposit of public funds under Government Code Chapter 2257, Collateral for Public Funds, at the written direction of the appropriate public entity officer, the custodian is required to issue and deliver a trust receipt for the pledged security to either the appropriate public entity officer or to the public entity’s depository and instruct the depository to deliver the trust receipt to the public entity officer immediately.

The bill adds subsection (d) to require the custodian to issue and deliver the trust receipt as soon as practicable on the same business day on which the investment security is received.

Effective June 14, 2013.

Section 2257.046

SB 581 adds subsection (d) to provide that at the request of the appropriate public entity officer, the public entity’s custodian is required to provide a current list of all pledged investment securities. For each pledged investment security, the list must include the name of the public entity, date the security was pledged to secure the public entity’s deposit, Committee on Uniform Security Identification Procedures (CUSIP) number of the security, face value and maturity date of the security, and the confirmation number on the trust receipt issued by the custodian.

Effective June 14, 2013.

Section 2267.353

HB 1050 amends subsection (b) to provide that for purposes of this subsection if a metropolitan transit authority created under Transportation Code Chapter 451 enters into a contract for a project involving a linear transit project with multiple stops along the project route for boarding passengers (rather than a bus rapid transit system), created under Transportation Code Chapter 451, the linear transit project (rather than the bus rapid transit system) is a single integrated project.

The bill repeals subsection (d) relating to a governmental entity making a formal finding on described criteria before preparing a request for qualifications.

Effective Sept. 1, 2013.

Section 2267.354

HB 1050 amends the section to provide that after Aug. 31, 2013 (rather than other specified periods):

- a governmental entity with a population of 500,000 or more within the entity’s geographic boundary or service area may, under Subchapter A, Chapter 2267, Government Code, enter into contracts for not more than six (rather than three) projects in any fiscal year,
- a city owned water utility with a separate governing board appointed by the governing body of a city with a population of 500,000 or more may independently enter into contracts for not more than two (rather than one) civil works projects in any fiscal year, and
- a governmental entity that has a population of 100,000 or more but less than 500,000 or is a board of trustees governed by Chapter 54, Transportation Code, may enter into contracts under Subchapter A, Chapter 2267, Government Code for not more than four (rather than two) projects in any fiscal year.

The bill appropriately redesignates subsections.

Effective Sept. 1, 2013.



Section 2267.3615

HB 1050 adds this section, “Identification of Project Team,” to provide that a governmental entity may require a design-build firm responding to a request for detailed proposals to identify companies that will fill key project roles and serve as key task leaders as provided. The bill also provides that if a design-build firm required to identify companies is selected for a design-build agreement, the firm may not make changes to

the identified companies, with specified exceptions, but if the design-build firm makes such changes any cost savings resulting from the change accrue to the governmental entity and not to the design-build firm.

Effective Sept. 1, 2013, and applies only to a contract or construction project for which a governmental entity first advertises or otherwise requests bids, proposals, offers, or qualifications, or makes a similar solicitation, on or after the effective date.

Health and Safety Code

Section 388.005

SB 902 adds subsection (g) to provide that, except as provided by subsection (h), this section does not apply to the electricity consumption of a district as defined by Water Code Section 36.001 or 49.001 that relates to the operation and maintenance of facilities or improvements for wastewater collection and treatment, water supply and distribution, or storm water diversion, detention, or pumping.

The bill adds subsection (h) to provide that at least once every five years, a political subdivision that is a district as defined by Water Code Section 36.001 or 49.001 is required for district facilities described by subsection (g) to evaluate the consumption of electricity, establish goals to reduce the consumption of electricity, and identify and implement cost-effective energy efficiency measures to reduce the consumption of electricity.

Effective Sept. 1, 2013.

Section 775.022

SB 1596 amends subsection (a) to provide that if a city completes all other procedures necessary to annex territory in an emergency services district and if the city intends to remove the territory from the district and be the sole provider of emergency services to the territory by the use of city personnel or by some method other than by use of the district, the city is required to send written notice of those facts to board of emergency services commissioners. This subsection does not require a city to remove from a district territory the city has annexed.

The bill modifies subsection (c) to replace the language that a city annexes territory from an emergency services district with language that a city removes territory from a district that the city has annexed.

Effective Sept. 1, 2013.

Section 775.045

SB 1596 adds this section relating to applicability of certain laws.

The bill adds subsection (a) to provide that except as provided by subsection (b) and notwithstanding any other law, Occupations Code Section 1301.551(i) applies to an emergency services district as if the district were a city and Local Government Code

Section 233.062 applies to an emergency services district as if the district were in an unincorporated area of a county.

The bill adds subsection (b) to provide that subsection (a) does not apply to an emergency services district that before Feb. 1, 2013, has adopted a fire code, fire code amendments, or other requirements in conflict with subsection (a) and whose territory is located in or adjacent to a general law city with a population of less than 4,000 that is served by a water control and improvement district governed by Water Code Chapter 51 and in a county that has a population of more than one million and is adjacent to a county with a population of more than 420,000.

Effective Sept. 1, 2013.

Sections 775.301, 775.302, 775.303, 775.304, 775.305, and 775.306

(Subchapter K, Districts In Certain Counties)

SB 332 adds this subchapter which applies only to an emergency services district that is located wholly in a county that borders the United Mexican States, that has a population of more than 800,000, and for which the commissioners court appoints a board of emergency services commissioners under Health and Safety Code Section 775.034. This subchapter controls over a provision of this chapter or other law to the extent of a conflict.

The bill authorizes a commissioners court to adopt a resolution to delegate to the emergency services district board a duty assigned to the commissioners court under this subchapter or to waive a requirement in this subchapter that the commissioners court approve an action of a district.

The bill authorizes the commissioners court to establish policies and procedures relating to property, facilities, and equipment with which the emergency services district board must comply, including any required periodic reports, maximum dollar amounts for transactions and transaction types, and a primary contact between commissioners court and the board. This includes policies and procedures for providing services through and using public funds for a volunteer fire department or emergency service provider. This does not authorize the commissioners court or the board to use real or personal property, a property right, equipment, a facility, or a system to provide a telecommunications service, advanced communications



service, or information service as defined by 47 U.S.C. Section 153, or a video service as defined by Utilities Code Section 66.002.

The bill authorizes a commissioners court to establish a schedule for an emergency services district to prepare an annual budget, tax rate calculations and notices, and a recommended tax rate and to submit the budget, calculations, notices, and recommendation to the commissioners court for final approval. The schedule must take into account requirements of Health and Safety Code Chapter 775, Emergency Services Districts; Tax Code Chapter 26; and Section 21, Article VIII, Texas Constitution, applicable to adopting a district tax rate and provide the commissioners court a reasonable amount of time to review the required submissions. The board is required to prepare an annual budget and submit the budget to the commissioners court for final approval according to this schedule and submit to the commissioners court and the county auditor tax rate calculations and notices and a recommended tax rate

according to this schedule. If the commissioners court does not approve or deny the submitted budget before the 31st day after submission, the commissioners court is considered to have approved the budget. If the commissioners court does not approve or deny a recommended tax rate before the 31st day after the date of submission, the commissioners court is considered to have approved the recommended tax rate and that rate is the rate for the year in which the rate is recommended.

The bill provides for the emergency services district board to encourage and promote participation by all sectors of the business community (including small businesses and businesses owned by members of a minority group or by women) in the process by which the district enters into contracts and develop a plan to identify and remove barriers that unfairly discriminate against small businesses and businesses owned by members of a minority group or by women.

Effective Sept. 1, 2013, except Health and Safety Code Section 775.305, related to the budget, is effective Jan. 1, 2014.

Insurance Code

Section 2201.251

SB 1125 amends subsection (c) to provide that notwithstanding any other provision of the Insurance Code, a purchasing group composed primarily of employees of a political subdivision (including a county, city, or school district) may purchase first-party indemnity coverage, in addition to the liability coverage described in subsection (a)(3), on a group basis for other risks to which members may be exposed provided that the aggregate coverage limit per group member for the risk does not exceed three percent of the per member coverage limit for liability coverage.

The bill adds subsection (d) to require a purchasing group to notify the Commissioner of Insurance of the group's intent to purchase coverage described by subsection (c) not later than the 60th day before the date the policy that includes the coverage is initially issued.

The bill adds subsection (e) to provide that subsection (d) does not apply to a purchasing group described in subsection (c) that was providing to its members coverage described by subsection (c) on Jan. 1, 2013, and has continued to provide that coverage without lapse.

Effective Sept. 1, 2013.

Local Government Code

Section 43.056

SB 1596 amends subsection (f) to prohibit a service plan by a city proposing annexation from providing services in the area in a manner that would have the effect of reducing by more than a negligible amount the level of fire and police protection and emergency medical services provided within the area before annexation. The bill also prohibits a service plan from causing a reduction in fire and police protection and emergency medical services within the area to be annexed below that of areas within the corporate boundaries of the city with similar topography, land use, and population density.

The bill adds subsection (p) to specify content in a service plan of a city that has adopted Local Government Code Chapter 143 and directly employs firefighters, that includes the provision of services to an area that, at the time the service plan is adopted, and is located in the territory of an emergency services district. The service plan must require the city's fire department to provide initial response to the annexed territory that is equivalent

to that provided to other areas within the corporate boundaries of the city with similar topography, land use, and population density; may not provide for city fire services to the annexed area solely or primarily by means of an automatic aid or mutual aid agreement with the affected emergency services district or other third-party provider of services; and may authorize the emergency services district to provide supplemental fire and emergency medical services to the annexed area by means of an automatic aid or mutual aid agreement. This subsection applies only to a city in a county with a population of more than one million and less than 1.5 million.

The bill adds subsection (q) to provide that Local Government Code Chapter 43, Municipal Annexation does not affect the obligation of a city that has adopted Local Government Chapter 143 to provide police, fire, or emergency medical services within the city's corporate boundaries by means of personnel classified in accordance with that chapter.

Effective Sept. 1, 2013.



Section 88.008

SB 265 amends the heading of Government Code Chapter 88 to “Official Bonds of Certain County Officers and Employees” and adds this section, relating to self-insurance of bond, to provide that subject to certain conditions, a county officer or employee is not required to execute a bond and may perform the duties of office or employment, notwithstanding any other law as specified. The conditions are that a commissioners court by order authorizes the county to self-insure against losses that would have been covered by the bond and the county judge approves the adopted order, if the county judge was required to approve the bond under the other law. An order adopted by the commissioners court is required to be kept and recorded by the county clerk.

Effective May 18, 2013.

Section 102.007

SB 656 amends subsection (a) to provide that a vote to adopt the city budget must be a record vote.

The bill adds subsection (d) to provide that an adopted budget must contain a cover page that includes one of the prescribed statements in 18-point or larger type that accurately describes the adopted budget; the record vote of each member of the governing body by name voting on the adoption of the budget; the city property tax rates for the preceding fiscal year, and each city property tax rate that has been adopted or calculated for the current fiscal year as required; and the total amount of city debt obligations.

The bill adds subsection (e) to provide that in this section, “debt obligation” means an issued public security as defined by Government Code Section 1201.002 secured by property taxes.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 102.008

SB 656 adds subsection (a) from pre-existing language to require a city that maintains a website to ensure a copy of the budget, including the cover page, is posted on the website and to ensure the record vote as described is posted on the website at least until the first anniversary of the date the budget is adopted.

The bill adds subsection (b) to require the governing body to take action to ensure that the cover page of the budget is amended to include the property tax rates as required for the current fiscal year if the rates are not included on the cover page when the budget is filed with the city clerk. The governing body is required to file an amended cover page with the city clerk and take action to ensure that the amended cover page is posted on the city’s website.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.008

SB 656 amends subsection (a) to provide that a vote to adopt the county budget must be a record vote.

The bill adds subsection (d) provide that an adopted budget must contain a cover page that includes one of the prescribed statements in 18-point or larger type that accurately describes the adopted budget; the record vote of each member of the commissioners court by name voting on the adoption of the budget; the county property tax rates for the preceding fiscal year, and each county property tax rate that has been adopted or calculated for the current fiscal year; and the total amount of county debt obligations.

The bill adds subsection to provide that in this section, “debt obligation” means an issued public security as defined by Government Code Section 1201.002 secured by property taxes.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.009

SB 656 adds subsection (a) from pre-existing language to require that a county that maintains a website to post on its website a copy of the budget, including the cover page, and the record vote as described until the first anniversary of the date the budget is adopted.

The bill adds subsection (b) to require the commissioners court to take action to ensure that the cover page of the budget is amended to include the property tax rates as required for the current fiscal year if the rates are not included on the cover page when the budget is filed with the county clerk. The commissioners court is required to file an amended cover page with the county clerk and take action to ensure that the amended cover page is posted on the county’s website.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.039

SB 656 amends subsection (a) to provide that a vote to adopt the county budget must be a record vote.

The bill adds subsection (d) to provide that an adopted budget must contain a cover page that includes one of the prescribed statements in 18-point or larger type that accurately describes the adopted budget; the record vote of each member of the commissioners court by name voting on the adoption of the budget; the county property tax rates for the preceding fiscal year, and each county property tax rate that has been adopted or calculated for the current fiscal year; and the total amount of county debt obligations.

The bill adds subsection (e) to provide that in this section, “debt obligation” means an issued public security as defined



by Government Code Section 1201.002 secured by property taxes.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.040

SB 656 adds subsection (a) from pre-existing language to require a county that maintains a website to ensure a copy of the budget, including the cover page, is posted on the website and the record vote described by Local Government Code Section 111.039(d)(2) is posted on the website at least until the first anniversary of the date the budget is adopted.

The bill adds subsection (b) to require the commissioners court to take action to ensure that the cover page of the budget is amended to include the property tax rates as required for the current fiscal year if the rates are not included on the cover page when the budget is filed with the county clerk. The commissioners court is required to file an amended cover page with the county clerk and take action to ensure that the amended cover page is posted on the county's website.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.068

SB 656 amends subsection (a) to provide that a vote to adopt the county budget must be a record vote.

The bill adds subsection (c) to provide that an adopted budget must contain a cover page that includes one of the prescribed statements in 18-point or larger type that accurately describes the adopted budget; the record vote of each member of the commissioners court by name voting on the adoption of the budget; the county property tax rates for the preceding fiscal year, and each county property tax rate that has been adopted or calculated for the current fiscal year; and the total amount of county debt obligations.

The bill adds subsection (d) to provide that in this section, "debt obligation" means an issued public security as defined by Government Code Section 1201.002 secured by property taxes.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 111.069

SB 656 adds subsection (a) from pre-existing language to require a county that maintains a website to ensure a copy of the budget, including the cover page, is posted on the website and the record vote described by Local Government Code Section 111.068(c)(2) is posted on the website at least until the first anniversary of the date the budget is adopted.

The bill adds subsection (b) to require the commissioners court to take action to ensure that the cover page of the budget is amended to include the property tax rates required by Local

Government Code Section 111.068(c)(3) for the current fiscal year if the rates are not included on the cover page when the budget is filed with the county clerk. The commissioners court is required to file an amended cover page with the county clerk and take action to ensure that the amended cover page is posted on the county's website.

Effective Sept. 1, 2013, and applies only to a budget adopted for a fiscal year beginning on or after the effective date.

Section 140.009

HB 2021 adds this section, "Contract for Collection of Amounts in Civil Cases," to permit the governing body of a city or the commissioners court of a county to contract with a private attorney or public or private vendor for the collection of an amount owed to the city or county relating to a civil case, including an unpaid fine, fee, or court cost, if the amount is more than 60 days overdue. The bill also permits a city or county to authorize the addition of a collection fee of 30 percent of the amount referred, which may be used only to compensate the attorney or vendor who collects the debt. The bill provides that this section does not apply to the collection of commercial bail bonds.

Effective June 14, 2013.

Section 140.010

SB 1510 adds this section relating to the proposed property tax rate notice for counties and cities.

The bill adds subsection (a) to provide that in this section "effective tax rate" and "rollback tax rate" mean the effective tax rate and rollback tax rate of a county or city, as applicable, as calculated under Tax Code Chapter 26.

The bill adds subsection (b) to provide that except as provided by this subsection, each county and city is required to provide notice of the county's or city's proposed property tax rate in the manner provided by this section. A county or city to which Tax Code Section 26.052, relating to a simplified tax rate notice for taxing units with low tax levies, applies may provide notice of the county's or city's proposed property tax rate in the manner provided by this section or in the manner provided by Tax Code Section 26.052.

The bill adds subsection (c) to provide that a county or city that provides notice of the county's or city's proposed property tax rate in the manner provided by this section is exempt from the notice and publication requirements of Tax Code Sections 26.04(e), 26.052, and 26.06, as applicable, and is not subject to an injunction for failure to comply with those requirements.

The bill adds subsection (d) to provide that a county or city that proposes a property tax rate that does not exceed the lower of the effective tax rate or the rollback tax rate is required to provide a notice as prescribed.

The bill adds subsection (e) to provide that a county or city that proposes a property tax rate that exceeds the lower of the



effective tax rate or the rollback tax rate is required to provide a prescribed notice.

The bill adds subsection (f) to require a county or city to provide the notice required by subsection (d) or (e), as applicable, not later than Sept. 1 by either publishing the notice in a newspaper having general circulation, as specified, or mailing the notice to each property owner, as described. The bill requires a county or city to post the notice on website of the county or city, if applicable, beginning not later than Sept. 1 and continuing until the county or city adopts a tax rate.

The bill adds subsection (g) to provide that if the notice required by subsection (d) or (e) is published in a newspaper the notice may not be smaller than one-quarter page of a standard-size or a tabloid-size newspaper and the headline on the notice must be in 24-point or larger type.

The bill adds subsection (h) to provide that a county or city that provides notice under this section is required, on request, to provide any information described by Tax Code Sections 26.04(e)(1)-(7), regarding the county or city, as applicable.

Effective Jan. 1, 2014, and applies only to a tax year that begins on or after the effective date.

Section 154.025

SB 382 amends subsection (a) to provide that the term “debt” includes delinquent property taxes whether reduced to judgment or not.

Effective June 14, 2013, and applies only to debt for which a notice of indebtedness is filed under Local Government Code Section 154.025(b) on or after the effective date.

Section 154.045

SB 382 amends subsection (a) to provide that the term “debt” includes delinquent property taxes whether reduced to judgment or not.

Effective June 14, 2013, and applies only to debt for which a notice of indebtedness is filed under Local Government Code Section 154.045 (b) on or after the effective date.

Section 180.007

HB 483 adds this section to provide that a political subdivision may not pay an employee or former employee more than an amount owed under a contract with the employee unless the political subdivision holds at least one public hearing under this section. The bill requires notice of the hearing in accordance with notice of a public meeting under Government Code Subchapter C, Chapter 551. The bill requires that the governing body of the political subdivision must state at the public hearing:

- the reason for and public purpose served by the payment in excess of the contractual amount, and

- the exact amount, source and terms for excess payment distribution that effect and maintain the public purpose to be served by making the excess payment.

Effective June 14, 2013, and applies only to a payment made by a political subdivision on or after the effective date.

Section 191.001

HB 1728 amends subsection (b) to provide that a county clerk may affix the county court seal on an original document by stamp, electronic means, facsimile or other means that legibly reproduces all of the required elements of the seal for the purposes of reproduction.

Effective June 14, 2013.

Section 232.009

SB 552 amends subsection (c) to provide an exception as provided by subsection (c-1) to the requirement that the commissioners court publish a notice of the application to revise a subdivision plat in a newspaper of general circulation in the county. This requirement applies to real property located outside cities and the extraterritorial jurisdiction of cities with a population of 1.5 million or more.

The bill adds subsection (c-1) to provide that when the commissioners court determines that a revision to a subdivision plat does not affect a public interest or public property of any type (including, but not limited to, a park, school, or road), the notice requirements under subsection (c) do not apply to the application. If the commissioners court makes this determination, then the commissioners court is required to provide written notice of the application to the owners of the lots that are within 200 feet of the subdivision plat to be revised (as indicated in the most recent records of the central appraisal district of the county in which the lots are located) and to post notice of the application continuously on the county website, if the county maintains a website, for at least 30 days preceding the date of the meeting to consider the application until the day after the meeting.

The bill adds subsection (g) to authorize the commissioners court to impose a fee for filing an application under this section. The amount of the fee must be based on the cost of processing the application, including publishing the notices required under subsection (c) or (c-1).

Effective June 14, 2013, and applies only to an application filed on or after the effective date.

Section 232.041

SB 552 amends subsection (b) to provide an exception as provided by subsection (b-1) to the requirement that the commissioners court is required publish a notice of the application to revise a subdivision plat in a newspaper of general circulation in the county.



The bill adds subsection (b-1) to provide that when the commissioners court determines that a revision to a subdivision plat does not affect a public interest or public property of any type (including, but not limited to, a park, school, or road), the notice requirements under subsection (b) do not apply to the application. If the commissioners court makes this determination, then the commissioners court is required to provide written notice of the application to the owners of the lots that are within 200 feet of the subdivision plat to be revised (as indicated in the most recent records of the central appraisal district of the county in which the lots are located) and to post notice of the application continuously on the county website, if the county maintains a website, for at least 30 days preceding the date of the meeting to consider the application until the day after the meeting.

The bill adds subsection (c) to authorize the commissioners court to impose a fee for filing an application under this section. The amount of the fee must be based on the cost of processing the application, including publishing the notices required under subsection (b) or (b-1).

Effective June 14, 2013, and applies only to an application filed on or after the effective date.

Section 252.048

HB 1050 amends subsection (c-1) to provide that if a change order for a public works contract in a city with a population of 300,000 or more (rather than 500,000 or more) involves a decrease or an increase of \$100,000 or less, or a lesser amount as provided by ordinance, the governing body of the city may grant general authority to an administrative official of the city to approve the change order.

Effective Sept. 1, 2013.

Section 334.024

SB 169 amends subsection (c) to modify the ballot language for an election held to authorize a city or county to finance a venue project to include language whether the election is being held to impose a new tax or authorize the use of the existing tax.

Effective Sept. 1, 2013, and applies only to a ballot for an election ordered on or after the effective date.

Section 373A.051

HB 3350 amends subsection (a) to provide that the governing body of a city by ordinance may designate as a homestead preservation district an area in the city that is eligible under Local Government Code Section 373A.052 to promote and expand the ownership and rental of affordable housing (rather than just ownership of affordable housing) and to prevent the involuntary loss of homesteads by homeowners and renters (rather than just homeowners).

Effective Sept. 1, 2013.

Section 373A.052

HB 3350 amends subsection (a) to require that to be designated as a homestead preservation district within a city described by Local Government Code Section 373A.003(a) an area must be composed of census tracts forming a spatially compact area (rather than a spatially compact area contiguous to a central business district) with:

- fewer than 75,000 residents (rather than fewer than 25,000 residents, fewer than 8,000 households, a number of owner occupied households that does not exceed 50 percent of the total households in the area, housing stock at least 55 percent of which was built at least 45 years ago and an unemployment rate that is greater than 10 percent),
- an overall poverty rate that is at least two times the poverty rate for the entire city, and
- in each census tract within the area, a median family income that is less than 80 (rather than 60) percent of the median family income for the entire city.

Effective Sept. 1, 2013.

Section 373A.152

HB 3350 adds subsection (b) to provide that a county may participate in a homestead preservation reinvestment zone established by a city under Local Government Code Section 373A.152(a) by adopting a final order:

- agreeing to the creation of the zone, the zone boundaries and the zone termination date specified by the city under Local Government Code Section 373A.1521(1), and
- specifying an amount of tax increment to be deposited by the county into the tax increment fund that is equal to the amount of the tax increment specified by the city under Local Government Code Section 373A.1521(3).

Effective Sept. 1, 2013.

Section 373A.1522

HB 3350 amends the section to provide that the homestead preservation reinvestment zone designated by the ordinance adopted under Local Government Code Section 373A.1521 takes effect on the date designated by the city in the ordinance adopted under that section (rather than the date on which the county adopts a final order that meets previously specified requirements).

Effective Sept. 1, 2013.

Section 373A.155

HB 3350 amends subsection (b) to provide that if a county elects to participate in a homestead preservation reinvestment zone, the county shall pay (rather than the county shall pay) into the tax increment fund for the zone an amount equal to the tax increment paid by the city as specified in the order



adopted under Local Government Code Section 373A.152 (rather than Local Government Code Section 373A.1522.)

Effective Sept. 1, 2013.

Section 373A.158

HB 3350 amends subsection (a) to provide that if a county elects to participate in a homestead preservation reinvestment zone, the county is the only taxing unit entitled to receive the annual report prepared under Tax Code Section 311.016(a) (rather than the county is the only taxing unit entitled to receive the annual report prepared under Tax Code Section 311.016(a)).

Effective Sept. 1, 2013.

Section 374.902

HB 139 amends subsection (b) to provide that a county with a population of more than 250,000 and located along an international border, rather than just a county with a population of more than 1.3 million, may exercise the powers provided for cities under Local Government Code Chapter 374, Urban Renewal in Municipalities with respect to areas of the county that are not within the corporate boundaries of a city. The bill also provides that a county with a population of more than 250,000 and located along an international border may exercise the powers provided for cities under Local Government Code Chapter 374 with respect to areas of the county located within the corporate boundaries of a city, if the city approves the county's participation in an urban renewal project through an interlocal agreement under Government Code Chapter 791.

Effective June 14, 2013.

Section 375.161

SB 902 amends this section to create subsection (a) from pre-existing language and to provide an exception as provided by subsection (b) to the prohibition of a management district board from imposing an impact fee, assessment, tax, or other requirement for payment, construction, alteration, or dedication under Local Government Code Chapter 375, Municipal Management Districts in General, on single-family detached residential property, duplexes, triplexes, and fourplexes (rather than quadraplexes).

The bill adds subsection (b) to provide that this section does not apply to a tax authorized or approved by the voters of the district or a required payment for a service provided by the district, including water and sewer services.

Effective Sept. 1, 2013.

Section 379B.0012

HB 2388 adds this section to define a "qualifying project" and to provide that Government Code Chapters 2267 and 2269 relating to contracting and delivery procedures for construction

projects do not apply to a qualifying project of a defense base development authority.

Effective June 14, 2013.

Section 379B.011

HB 1348 adds subsection (c) to provide that a commercial aircraft to be used as an instrumentality of commerce that is under construction inside a defense base development authority is presumed to be in interstate, international, or foreign commerce and not located in this state for longer than a temporary period for purposes of Tax Code Sections 11.01 and 21.02.

The bill adds subsection (d) to provide that tangible personal property located inside the authority is presumed to be in interstate, international, or foreign commerce and not located in this state for longer than a temporary period for purposes of Tax Code Sections 11.01, and 21.02, if the owner demonstrates to the chief appraiser for the CAD in which the authority is located that the owner intends to incorporate the property into or attach the property to a commercial aircraft described by subsection (c).

The bill adds subsection (e) to define "commercial aircraft" as an aircraft under construction that is designed to be used as described by Tax Code Section 21.05(e).

Effective Jan. 1, 2014, and applies only to property taxes imposed for a tax year beginning on or after the effective date.

Section 379C.002

HB 3447 amends the section to provide that Local Government Code Chapter 379C applies only to home-rule cities that have a population of 1.18 million or more and are located predominantly in a county that has a total area of less than 1,300 (rather than 1,000) square miles.

Effective Sept. 1, 2013.

Section 379C.005

HB 2840 amends the section to require that to qualify to participate in an urban land bank demonstration program, a developer must have built one (rather than three) or more housing units within the three-year period preceding the submission of a proposal to the land bank seeking to acquire real property from the land bank, among other requirements.

Effective Sept. 1, 2013.

Section 379C.009

HB 2840 amends subsection (b) to add an exception as provided by subsection (b-1) to the requirement that the land bank must sell a property to a qualified participating developer within the four-year period following the date of acquisition for the purpose of construction of affordable housing for sale or rent to low income households.

The bill adds subsection (b-1) to provide that before the completion of the four-year period described by subsection (b),



the land bank may, subject to Local Government Code Section 379C.0106:

- transfer property that the land bank determines is not appropriate for residential development to the taxing units described by subsection (b), or
- sell such property to a political subdivision or a nonprofit organization.

Effective Sept. 1, 2013.

Section 379C.0106

HB 2840 amends subsection (a) to delete the requirement that a person has owned the adjacent property and continuously occupied that property as a primary residence for the two-year period preceding the date of the sale from the definition of “eligible adjacent property owner.”

Effective Sept. 1, 2013.

Section 379C.014

HB 2840 adds this section, “Additional Authorized Use of Land Bank Property.”

The bill adds subsection (a) to provide that notwithstanding the other provisions of Chapter 379C, the land bank may sell property to a developer to allow the construction of a grocery store that has at least 6,000 square feet of enclosed space and that offers for sale fresh produce and other food items for home consumption.

The bill adds subsection (b) to provide that to qualify to purchase property from the land bank under this section, a developer is not required to be a qualified participating developer but must obtain the city’s approval of a development plan for the land bank property and must develop the property in accordance with the approved development plan.

The bill adds subsection (c) to provide that a sale under this section within the four-year period following the date of acquisition of the property by the land bank satisfies the requirement under Local Government Code Section 379C.009(b) that the property be sold within that period to a qualified participating developer.

The bill adds subsection (d) to authorize the land bank to sell property as provided by this section only after granting any rights of first refusal otherwise required by this chapter, and any completed sale under this section remains subject to the right of reverter provided by Local Government Code Section 379C.009(d).

Effective Sept. 1, 2013.

HB 3447 adds this section headed, “Land Used for World Exposition.”

The bill adds subsection (a) to provide that a city may transfer to a land bank land that was part of the site of a world exposition recognized by the Bureau International des Expositions,

subject to any deed restrictions the city adopts, after public notice and hearing, before Jan. 1, 2014.

The bill adds subsection (b) to provide that Local Government Code Section 253.001(b) does not apply to the sale of land described by subsection (a) if the remainder of the world exposition site includes dedicated public squares or parks that have a total area of 18 acres or more, which may include an area for which the city commits to demolishing any non-park improvements within 48 months after the date of the dedication.

The bill adds subsection (c) to provide that a petition for judicial review of a sale under subsection (b) must be filed on or before the 60th day after the date the ordinance or resolution authorizing the sale is adopted. A petition filed after that date is barred.

The bill adds subsection (d) to provide that the restrictions and requirements applicable to the sale of land by a land bank under this chapter or any other law do not apply to land sold by a land bank under this section.

Effective Sept. 1, 2013.

Sections 399.001, 399.002, 399.003, 399.004, 399.005, 399.006, 399.007, 399.008, 399.009, 399.010, 399.011, 399.012, 399.013, 399.014, 399.015, 399.016, 399.017, and 399.018

(Chapter 399, Municipal and County Water and Energy Improvement Regions)

SB 385 adds this chapter and provides that the chapter may be cited as the “Property Assessed Clean Energy Act.” The bill provides for a city or county to establish a program to impose assessments under a written contract to repay financing of qualified projects on real property located in a region designated by a local government.

A city or county must provide notice of a public hearing on the proposed program at which the public may comment on the proposed program and a report regarding the assessment. The report must have specified contents and be available for public inspection as provided. The city or county must make a statement identifying the appropriate local official and the appropriate assessor-collector for purposes of consulting regarding collecting the proposed contractual assessments with property taxes imposed on the assessed property.

Before a local government may enter into a written contract with a record owner of real property to impose an assessment, the holder of any mortgage lien on the property must be given written notice of the owner’s intention to participate in a program before the written contract is executed, as specified, and a written consent from the holder of the mortgage lien on the property must be obtained.

The bill provides for a review of water or energy baseline conditions and projected water or energy savings; the purchase or contract for equipment and materials or the installation or modification of qualified improvements by the property owner;



and local governments filing written notices of contractual assessments in the real property records of the county in which the property is located.

The bill provides that a contractual assessment and any interest or penalties on the assessment is a first and prior lien against the real property on which the assessment is imposed from the date on which the notice of contractual assessment is recorded as provided by Local Government Code Section 399.013 and until the assessment, interest, or penalty is paid. A contractual assessment and any interest or penalties on the assessment has the same priority status as a lien for any other property tax. The lien runs with the land, and that portion of the assessment under the assessment contract that has not yet become due is not eliminated by foreclosure of a property tax lien. The assessment lien may be enforced by the local government in the same manner that a property tax lien against real property may be enforced by the local government to the extent the enforcement is consistent with Section 50, Article XVI, Texas Constitution. Delinquent installments of the assessments incur interest and penalties in the same manner as delinquent property taxes. A local government may recover costs and expenses, including attorney's fees, in a suit to collect a delinquent installment of an assessment in the same manner as in a suit to collect a delinquent property tax.

The bill authorizes the governing body of a local government to contract with the governing body of another taxing unit, as defined by Tax Code Section 1.04, or another entity, including a county assessor-collector, to perform the duties of the local government relating to collection of assessments imposed by the local government.

The bill provides for a local government to issue bonds or notes to finance qualified projects through contractual assessments and these bonds must be secured as provided. The bill provides that a local government pledge of assessments, funds, or contractual rights in connection with the issuance of bonds or notes by the local government is a first lien on the assessments, funds, or contractual rights pledged in favor of the person to

whom the pledge is given, without further action by the local government. The lien is valid and binding against any other person, with or without notice.

The bill provides for a combination of local governments to jointly implement or administer a program. The bill prohibits a local government from making the issuance of a permit, license, or other authorization from the local government contingent on a person entering into a written contract to repay financing of a qualified project through contractual assessments. The bill also prohibits a local government from otherwise compelling a person who owns property in the region to enter into such a written contract.

Effective June 14, 2013.

Section 552.014

SB 902 amends subsection (a) to add the definition of "project" for this section to mean a water supply or treatment system, a water distribution system, a sanitary sewage collection or treatment system, works or improvements necessary for drainage of land, recreational facilities, roads and improvements in aid of roads, or facilities to provide firefighting services.

The bill amends subsections (b), (c), (d), and (e) to substitute "project" for pre-existing language.

The bill amends subsection (c) to modify the authorization of contract between a city and a water district or specified corporations to provide that any payments due under this section are payable from and are secured by a pledge of a specified part of the revenues of the city (including revenues from city sales and use taxes), the levying of a tax to make payments due under this section, and that the payments due under this section be made from a combination of revenues and taxes.

The bill adds subsection (g) to provide that this section does not authorize a water district or corporation described by subsection (b) to participate in a project that the water district or corporation is not authorized to participate in under other law.

Effective Sept. 1, 2013.

Occupations Code

Section 51.207

SB 845 adds subsection (a) from pre-existing language.

The bill adds subsection (b) to require TDLR to provide on its website a link to a website that allows the public to track legislation affecting TDLR administered programs, which may be a website that provides legislative information administered by the Texas Legislature.

The bill adds subsection (c) to provide that TDLR may satisfy any requirement under Occupations Code Chapter 51 or another law governing a program subject to regulation by TDLR to provide notice by delivering the notice by email to the recipient's last known email address if the recipient has previously authorized TDLR to deliver the notice by email.

An email address used under this subsection is confidential and is not subject to disclosure under Government Code Chapter 552.

Effective Sept. 1, 2013.

Section 51.4013

SB 242 adds this section to provide that notwithstanding any other law, TDLR is required to credit verified military service, training, or education toward the licensing requirements, other than examination requirements, for a TDLR issued license.



TDLR is required to adopt rules necessary to implement this section.

Effective June 14, 2013, and applies only to an application for a license filed with TDLR on or after May 1, 2014. TDLR is required to adopt rules under this section not later than March 1, 2014.

Section 901.153

SB 228 adds subsection (f) to authorize an enforcement committee to hold a closed meeting as provided by Government Code Section 551.090 to investigate and deliberate a disciplinary action under Subchapter K relating to the enforcement of Occupations Code Chapter 901, Accountants or TSBPA rules.

Effective Sept. 1, 2013.

Section 901.154

SB 228 repeals subsection (c) which prohibits TSBPA from waiving the collection of any fee or penalty provided by Occupations Code Chapter 901, Accountants.

Effective Sept. 1, 2013.

Section 901.308

SB 228 repeals subsections (d) and (e) relating to providing for a person who fails a paper examination to inspect the questions and answers and to request in writing an analysis from the TSBPA of the person's performance on the examination.

Effective Sept. 1, 2013, and applies only to an examination administered on or after the effective date.

Section 901.457

SB 228 amends subsection (b) to add or modify the following conditions under which this section, relating to accountant-client privilege, does not prohibit a license holder from disclosing information that is required to be disclosed:

- under a subpoena under federal law as specified;
- under a court order signed by a judge, rather than under a court order, if the order contains specified items;
- in accordance with the requirements of the Public Company Accounting Oversight Board or its successor; or
- in the course of a practice review by another certified public accountant or certified public accountancy firm for a potential acquisition or merger of one firm with another, if both firms enter into a nondisclosure agreement with regard to all client information shared between the firms.

Effective Sept. 1, 2013.

Section 1151.003

SB 546 adds this section to provide that Occupations Code Chapter 1151, Property Tax Professionals does not apply to a county assessor-collector described by Section 14, Article

VIII, Texas Constitution, or an employee of the county assessor-collector.

Effective June 14, 2013. An administrative proceeding under Occupations Code Chapter 51 or 1151 against a county tax assessor-collector related to a violation under Occupations Code Chapter 1151 that is pending on the effective date is dismissed.

Section 1151.151

SB 546 amends this section to remove the designation of subsection (a) for pre-existing language and to provide that the requirement that an assessor-collector register with TDLR applies to an assessor-collector other than a county assessor-collector.

The bill strikes subsection (b) which provides that a county assessor-collector is not required to register with the TDLR if the county, by contract entered into under Tax Code Section 6.24(b), has its taxes assessed and collected by another taxing unit or a CAD.

Effective June 14, 2013. An administrative proceeding under Occupations Code Chapter 51 or 1151 against a county tax assessor-collector related to a violation under Occupations Code Chapter 1151 that is pending on the effective date is dismissed.

Section 1151.1581

HB 585 adds subsection (f) to require TDLR to require by rule that a registered professional appraiser who is a chief appraiser complete at least half of the required hours in a program devoted to one or more of the topics listed in Occupations Code Section 1151.164(b) and at least two of the required hours in a program of professional ethics specific to the chief appraiser of a CAD, including a program on the importance of maintaining the independence of an appraisal office from political pressure.

Effective Jan. 1, 2014, and TDLR is required to adopt the rules required by subsection (f) not later than the effective date.

Section 1151.160

SB 546 amends subsection (d) to provide that the requirement that a person registered as an assessor or assessor-collector become certified as a registered Texas assessor by a specified deadline applies to assessor or assessor-collector other than a county assessor-collector.

The bill amends subsection (g) to strike language that provided for a county tax assessor-collector to request a one-year extension to meet certification requirements for themselves or on the behalf of an employee.

Effective June 14, 2013. An administrative proceeding under Occupations Code Chapter 51 or 1151 against a county tax assessor-collector related to a violation under Occupations Code Chapter 1151 that is pending on the effective date is dismissed.

Section 1151.204

SB 464 amends this section to modify the heading to "Dismissal of Complaints."



The bill adds subsection (a) from pre-existing language and amends TDLR's pre-existing authority to dismiss a complaint after investigation to provide that a complaint may be dismissed in part or entirely and to strike language that the complaint must only challenge the appraised value of a property or another matter for which Tax Code Title 1 specifies a remedy and that the disagreement has not been resolved in the complainant's favor by an ARB or court.

The bill adds subsection (b) to provide for TDLR to dismiss a complaint, in part or entirely, after investigation without conducting a hearing if the complaint challenges specified matters and the subject matter of the complaint has not been finally resolved in the complainant's favor by an ARB, a governing body, an arbitrator, a court, or SOAH under Government Code Section 2003.901. The specified matters are if the complaint challenges the imposition of or failure to waive penalties or interest under Tax Code Sections 33.01 and 33.011; appraised value of a property; appraisal methodology; the grant or denial of an exemption; or any matter for which Tax Code Title 1 specifies a remedy, including an action that a property owner is entitled to protest before an ARB under Tax Code Section 41.41(a).

The bill adds subsection (c) to provide that this section does not apply to a matter referred to TDLR by the Comptroller under Tax Code Section 5.102, or a successor statute; a complaint concerning a registrant's failure to comply with the registration and certification requirements of Occupations Code Chapter 1151, Property Tax Professionals; or a complaint concerning a newly appointed chief appraiser's failure to complete the training program described by Occupations Code Section 1151.164.

Effective June 14, 2013, and applies only to a complaint filed on or after the effective date.

Section 1151.206

SB 972 redesignates Occupation Code Section 1151.253 to this section relating to a complaint of a violation of Occupation Code Chapter 1151, Property Tax Professionals, or a rule adopted by TDLR under this chapter.

Effective May 18, 2013.

Sections 1151.251, 1151.252, and 1151.253

(Subchapter F, Criminal Penalties)

SB 972 repeals the subchapter heading; repeals Occupations Code Sections 1151.251 relating to a criminal offense if a person does not register with TDLR as required; repeals Occupations Code Section 1151.252 relating to a criminal offense if a person performs an appraisal, assessment, or collection function while the person's TDLR registration or certification is not active; and redesignates Occupations Code Section 1151.253 as Occupations Code Section 1151.206.

Effective May 18, 2013, but does not apply to an offense committed before the effective date of the repeal.

Section 1152.252

SB 972 repeals this section relating to criminal penalties for a Class B misdemeanor offense that a person required to be registered as a property tax consultant commits if the person is not registered under Occupations Code Chapter 1152 and performs or offers to perform property tax consulting services for compensation; or if the person knows that a person required to be registered is not registered and represents that the person required to be registered is a property tax consultant, agent, counselor, advisor, or representative.

Effective May 18, 2013, but does not apply to an offense committed before the effective date of the repeal.

Section 1201.219

HB 3613 amends the heading of the section to "Perfection, Effect, and Release of Liens."

The bill amends subsection (d) by designating certain provisions as subsection (e).

The bill adds subsection (e) to authorize a tax lien perfected with TDHCA to be released by a tax collector filing a tax lien release with TDHCA as provided or by TDHCA in the manner provided by subsection (h).

The bill adds subsection (f) to provide that on request by any person, a tax collector is required to file a tax lien release with TDHCA if the four-year statute of limitations to file a suit for collection of personal property taxes in Tax Code Section 33.05(a)(1), has expired.

The bill adds subsection (g) to authorize TDHCA to request that a tax collector confirm that no tax suit has been timely filed on any manufactured home tax lien more than four years in delinquency. The bill authorizes TDHCA to make this request electronically, and the bill authorizes a taxing authority to provide notice of the existence or absence of a timely filed tax suit electronically.

The bill adds subsection (h) to require TDHCA to remove from a manufactured home's statement of ownership and location a reference to any tax lien delinquent more than four years for which no suit has been timely filed in accordance with Tax Code Section 33.05(a)(1) if either a tax collector confirms no suit has been filed or after submitting two requests to the tax collector that were sent not fewer than 15 days apart to confirm that no tax suit has been timely filed, TDHCA has not received any response from the tax collector before the 60th day after the tax collector's receipt of the second request.

Effective Sept. 1, 2013.



Penal Code

Section 36.10

SB 148 amends subsection (a) to provide that Penal Code Sections 36.08, relating to gifts to public servants, and Penal Code Section 36.09, relating to offering a gift to a public servant, do not apply to complimentary legal advice or legal services relating to a will, power of attorney, advanced directive, or other estate planning document rendered to a public servant who is a first responder and through a program or clinic that is operated by a local bar association or the State Bar of Texas

and approved by the head of the agency employing the public servant, if the public servant is employed by an agency.

The bill adds subsection (e) to provide a definition of “first responder” applicable to this section.

Effective Sept. 1, 2013, and applies only to the prosecution of an offense committed on or after the effective date. For purposes of this section, an offense is committed before the effective date if any element of the offense occurs before the effective date.

Property Code

Section 5.028

SB 887 amends subsection (a) to authorize a person to prepare or execute, rather than only execute, a correction instrument to make a nonmaterial change that results from a clerical error when the person has personal knowledge of facts relevant to the correction of a recorded original instrument of conveyance. The bill modifies the types of allowable changes when correcting an inaccurate or incorrect element in a legal description to include a reference to a plat or other plat information and to provide that the current allowable correction of a lot or block is for the number of a lot or block.

Effective Sept. 1, 2013.

Section 5.030

SB 887 amends subsection (b) to provide that a correction instrument replaces and is a substitute for the original instrument. The bill also provides an exception as provided by subsection (c) to the provision that a bona fide purchaser of property that is subject to a correction instrument may rely on the instrument against any person making an adverse or inconsistent claim.

The bill adds subsection (c) to provide that a correction instrument is subject to the property interest of a creditor or a subsequent purchaser for valuable consideration without notice acquired on or after the date the original instrument was acknowledged, sworn to, or proved and filed for record as required by law and before the correction instrument has been acknowledged, sworn to, or proved and filed for record as required by law.

Effective Sept. 1, 2013.

Section 51.0011

HB 1597 adds this section to provide that notwithstanding any agreement to the contrary, a debtor is not in default under a deed of trust or other contract lien on real property used as the debtor’s residence for the delinquent payment of property taxes if two conditions are met:

- a debtor gave notice to the mortgage servicer of the intent to enter into an installment agreement with the taxing unit

under Tax Code Section 33.02 for the payment of the taxes at least 10 days before the date the debtor entered into the agreement, and

- the property is protected from seizure and sale and a suit may not be filed to collect a delinquent tax on the property as provided by Tax Code Section 33.02(d).

The bill authorizes a mortgage servicer who receives a notice from the debtor of the intent to enter into an installment agreement, as provided, to pay the taxes subject to the installment agreement at any time. The bill provides that a mortgage servicer who receives this notice and gives the debtor notice that the mortgage servicer intends to accelerate the note securing the deed of trust or other contract lien as a result of the delinquency of the taxes that are subject to the installment agreement must rescind the notice if the debtor enters into the agreement not later than the 30th day after the date the debtor delivers the notice.

Effective Sept. 1, 2013.

Section 51.002

HB 699 amends subsection (h) to provide that a commissioners court of a county may designate an area, other than an area at the county courthouse, where public sales of real property will take place that is in a public place within a reasonable proximity of the county courthouse as determined by the commissioners court and in a location as accessible to the public as the courthouse door. The bill provides that a designation by a commissioners court is not a ground for challenging or invalidating any sale. The bill modifies a provision to provide that a sale must be held at an area designated under this subsection if the sale is held on or after the 90th day after the date the designation is recorded.

Effective Oct. 1, 2013.

HB 584 adds subsection (f-1) to provide that if a county maintains a website, the county must post a notice of sale filed with the county clerk as provided on the website on a page that is publicly available for viewing without charge or registration.

Effective Sept. 1, 2013.



Transportation Code

Section 222.1001

SB 1110 adds this section to provide that in Subchapter E, Toll Facilities, “transportation project” has the meaning assigned by Transportation Code Section 370.003.

Effective Sept. 1, 2013.

Section 222.105

SB 1110 amends this section to modify one of the purposes of Transportation Code Sections 222.106 and 222.107 to enhancing a local entity’s ability to sponsor a transportation project.

Effective Sept. 1, 2013.

Section 222.106

SB 1110 amends subsection (b) to provide that this section applies to a city in which a transportation project is to be developed under Transportation Code Section 222.108.

The bill amends subsections (c), (g), (i), (i-2), and (j) to provide for one or more transportation projects, rather than a project, in a TRZ.

The bill amends subsection (i-1) to strike language related to rescinding a pledge or assignment of money in a tax increment account to secure bonds or other obligations issued to obtain funding for a transportation project. Instead, the bill provides that once the money is pledged or assigned, a city may not rescind its pledge or assignment until the contractual commitments that are the subject of the pledge or assignment have been satisfied.

The bill amends subsection (i-2) to provide that TRZ boundaries may not be amended to remove or exclude property from the zone if any part of the tax increment account has been assigned or pledged directly by the city or through another entity to secure bonds or other obligations issued to obtain development of a project.

The bill amends subsection (j) to modify when a TRZ terminates to provide it terminates when the city completes all contractual requirements that included the pledge or assignment of all or a portion of money deposited to a tax increment account; or the repayment of money owed under an agreement for development, redevelopment, or improvement of the project or projects for which the zone was designated.

Effective Sept. 1, 2013.

Section 222.107

SB 1110 amends subsection (b) to provide that this section applies to a county in which a transportation project is to be developed under Transportation Code Section 222.108.

The bill amends subsection (c) to provide for one more transportation projects in a TRZ, rather than a project, and to strike

language that a TRZ is for the purpose of abating property taxes or granting other relief from taxes imposed by the county on real property located in the zone.

The bill amends subsection (e) to specify that the required public hearing on the creation of a TRZ is on the possible abatement of property taxes.

The bill amends subsection (f) to modify the required contents of the order or resolution designating a zone to include findings that the promotion of the transportation project or projects will cultivate the improvement, development, or redevelopment of the zone.

The bill reenacts subsection (h), as amended by Chapters 475 (HB 563) and 1345 (SB 1420), Acts of the 82nd Legislature, Regular Session, 2011. The bill authorizes a commissioners court to pay taxes collected on property in the zone into a tax increment account as specified, enter into agreements with owners of real property in the TRZ to abate all or a portion of property taxes or to grant other relief from the taxes imposed by the county on the owner’s property as prescribed, elect to abate all or a portion of the property taxes imposed by the county on all real property in a zone, or to grant other relief from property taxes on property in the zone.

The bill reenacts and amends subsection (h-1), as added by Chapter 1345 (SB 1420), Acts of the 82nd Legislature, Regular Session, 2011, to conform to Transportation Code Section 222.107(h), as amended by Chapter 475 (HB 563), Acts of the 82nd Legislature, Regular Session, 2011. The bill amends the section to modify a reference to Local Government Code Chapter 381, County Development and Growth.

The bill redesignates and amends subsection (h-1), as added by Chapter 475 (HB 563), Acts of the 82nd Legislature, Regular Session, 2011, as subsection (h-2) to strike language related to rescinding a pledge or assignment of money, including from tax increment, in a tax increment account to secure bonds or other obligations issued to obtain funding for a transportation project. Instead, the bill provides that once the money is pledged or assigned, a county may not rescind its pledge or assignment until the contractual commitments that are the subject of the pledge or assignment have been satisfied. The bill modifies a provision related to the use of assessments not pledged or assigned to provide that any amount received from the tax increment or the installment payments of the assessments not pledged or assigned in connection with a transportation project may be used for other purposes as determined by the commissioners court. The bill also provides language for transportation projects in the TRZ, rather than a project.

The bill repeals subsection (i-1) relating to the authorization of a county that collects a tax increment to issue bonds to pay all or part of the cost of a transportation project and to pledge and assign all or a specified amount of money in the tax increment account to secure those bonds.



The bill amends subsection (k-1) to modify when TRZ boundaries may not be amended to provide that property may not be removed or excluded from the zone if any part of the tax increment or assessment has been assigned or pledged directly by the county or through another entity to secure bonds or other obligations issued to obtain funding or development of a project.

The bill amends subsection (l) to provide when a TRZ terminates and to modify the termination of a tax abatement or an order or resolution on the abatement of taxes or the grant of relief from taxes to when the county completes either all contractual requirements that included the pledge or assignment of all or a portion of money deposited to a tax increment account or the assessments collected as specified; or the repayment of money owed under an agreement for the development, redevelopment, or improvement of the project or projects for which the zone was designated.

Effective Sept. 1, 2013.

Section 222.1071

HB 2300 and **SB 1747** add this section relating to county energy TRZ.

The bills add subsection (a) to require a county to determine the amount of the tax increment for a county energy TRZ in the same manner the county would determine the tax increment as provided in Transportation Code Section 222.107(a) for a county TRZ.

The bills add subsection (b) to authorize a county to designate by order or resolution of the commissioners court a contiguous geographic area in the jurisdiction of the county to be a county energy TRZ to promote one or more transportation infrastructure projects as defined located in the zone after the county determines that an area is affected by oil and gas exploration and production activities and in addition, **SB 1747** provides that a county determines it would benefit from funding under Transportation Code Chapter 256. After making such a determination, a county is authorized to jointly administer a county energy TRZ. **SB 1747** provides that jointly administered zones are zones that are contiguous.

HB 2300 adds subsection (c) to provide that a commissioners court must dedicate or pledge all of the captured appraised value of real property located in the county energy TRZ to transportation infrastructure projects. The bills require a commissioners court to comply with all applicable laws in the application of this chapter.

HB 2300 and **SB 1747** add subsection (d) to provide that not later than the 30th day before the date a commissioners court proposes to designate an area as a county energy TRZ under this section, the commissioners court must hold a public hearing on the creation of the zone and its benefits to the county and to property in the proposed zone. At the hearing an interested person may speak for or against the designation of the zone, its boundaries, the joint administration of a zone

in another county, or the use of tax increment paid into the tax increment account.

The bills add subsection (e) to provide that not later than the seventh day before the date of the hearing, notice of the hearing and the intent to create a zone must be published in a newspaper having general circulation in the county.

The bills add subsection (f) to provide that the order or resolution designating an area as a county energy TRZ must:

- describe the boundaries of the zone with sufficient definiteness to identify with ordinary and reasonable certainty the territory included in the zone;
- provide that the zone takes effect immediately on adoption of the order or resolution designating an area and that the base year shall be the year of passage of the order or resolution designating an area or some year in the future; and
- establish a property tax increment account for the zone or provide for the establishment of a joint property tax increment account, if applicable.

SB 1747 provides that the order or resolution must, if two or more counties are designating a zone for the same transportation infrastructure project or projects, include a finding that the project or projects will benefit the property and residents located in the zone, the creation of the zone will serve a public purpose of the county, and details the transportation infrastructure projects for which each county is responsible.

HB 2300 requires that the order or resolution assign a name to the zone for identification as prescribed and name the advisory board for the zone or the county's members on a joint advisory board, as applicable.

HB 2300 and **SB 1747** add subsection (g) to provide that compliance with the requirements of this section constitutes designation of an area as a county energy TRZ without further hearings or other procedural requirements.

The bills add subsection (h) to authorize a county, from taxes collected on property in a zone, to pay into a tax increment account for the zone or zones an amount equal to the tax increment produced by the county less any amounts allocated under previous agreements, including agreements under Local Government Code Section 381.004 or Tax Code Chapter 312.

SB 1747 adds subsection (i) to grant a county the authority to:

- use money in the tax increment account to provide matching funds under Transportation Code Section 256.105 and funding for one or more transportation infrastructure projects located in the zone;
- apply for grants under Subchapter C, Chapter 256 of the Transportation Code subject to Transportation Code Section 222.1072;
- use five percent of any grant distributed to the county under Subchapter C, Chapter 256 of the Transportation Code for the administration of a county energy TRZ, not to exceed \$250,000;



- enter into an agreement to provide for the joint administration of county energy TRZs if the commissioners court of the county has designated a county energy TRZ under this section for the same transportation infrastructure project or projects as another county commissioners court; and
- pledge money in the tax increment account to a road utility district formed as provided by subsection (n).

HB 2300 adds subsection (i) and **SB 1747** adds subsection (j) to prohibit a tax increment paid into a tax increment account from being pledged as security for bonded indebtedness.

HB 2300 adds subsection (j) to authorize a commissioners court to pledge money in the tax increment account to provide funding for one or more specified transportation projects located in the zone and to a road utility district formed as provided.

SB 1747 adds subsection (k) to provide that a county energy TRZ terminates on Dec. 31 of the 10th year after the year the zone was designated unless extended by an act of the county commissioners court that designated the zone. The extension may not exceed five years. On termination of the zone, any money remaining in the tax increment account must be transferred to the road and bridge fund described by Transportation Code Chapter 256 for the county that deposited the money into the tax increment account.

SB 1747 adds subsection (l) to provide that the captured appraised value of real property located in a county energy TRZ shall be treated as provided by Tax Code Section 26.03.

HB 2300 adds subsection (p) and **SB 1747** adds subsection (m) to authorize the commissioners court of a county to enter into an agreement with TxDOT to designate a county energy TRZ under this section for a specified transportation infrastructure project involving a state highway located in the proposed zone.

HB 2300 adds subsection (k) and **SB 1747** adds subsection (n) to provide that in the alternative, to assist the county in developing a transportation infrastructure project, if authorized by the Texas Transportation Commission under Transportation Code Chapter 441, a road utility district may be formed under that chapter that has the same boundaries as a county energy TRZ created under this section. The road utility district may issue bonds to pay all or part of the cost of a transportation infrastructure project and may pledge and assign all or a specified amount of money in the tax increment account to secure those bonds if the county collects a tax increment; and pledges all or a specified amount of the tax increment to the road utility district.

HB 2300 adds subsection (l) and **SB 1747** adds subsection (o) to authorize a road utility district formed as provided to enter into an agreement to fund development of a transportation infrastructure project or to repay funds owed to TxDOT. Any amount paid for this purpose is considered to be an operating expense of the district. Any taxes collected by the district that are not paid for this purpose may be used for any district purpose.

HB 2300 adds subsection (m) to provide that to accommodate changes in the limits of the project for which a zone was designated, the boundaries of a zone may be amended at any time, except that property may not be added to a zone unless the commissioners court of the county complies as specified.

HB 2300 adds subsection (n) to provide that a county energy TRZ terminates on Dec. 31 of the 10th year after the year the zone was designated, if before that date the county has not used the zone for the purpose for which it was designated.

HB 2300 adds subsection (o) to authorize the commissioners courts of two or more counties that have designated a county energy TRZ under this section for the same transportation project or projects to enter into an agreement to provide for the joint administration of the zones.

Effective Sept. 1, 2013 (HB 2300). Effective Sept. 1, 2013, and the amendment adding Transportation Code Sections 222.1071 and 222.1072, made by this Act prevails over the amendment adding those sections to Subchapter E, Chapter 222, Transportation Code, made by Section 1, HB 2300, 83rd Legislature, Regular Session, 2013, and the amendment made by Section 1, HB 2300, 83rd Legislature, Regular Session, 2013, has no effect (SB 1747).

Section 222.1072

HB 2300 and **SB 1747** add this section, relating to the advisory board of county energy TRZ.

HB 2300 adds subsection (a) and **SB 1747** adds subsection (b) to provide the advisory board of a county energy TRZ consists of members appointed by the county judge and approved by the county commissioners court. These members consist of three oil and gas company representatives who perform company activities in the county and are local taxpayers; and two public members. **HB 2300** specifies that the public members are active in civic affairs and **SB 1747** provides that up to three members be oil and gas company representatives.

SB 1747 adds subsection (a) to provide that a county is eligible to apply for a grant under Subchapter C, Chapter 256 of the Transportation Code, if the county creates an advisory board to advise the county on the establishment, administration, and expenditures of a county energy TRZ. The county commissioners court shall determine the terms and duties of the advisory board members.

HB 2300 adds subsection (b) and **SB 1747** adds subsection (c) to provide that county energy TRZ that are jointly administered are advised by a single joint advisory board for the zones. A joint advisory board under this subsection consists of members appointed as provided for each zone to be jointly administered.

HB 2300 adds subsection (c) and **SB 1747** adds subsection (d) to prohibit an advisory board member from receiving compensation for service on the board or reimbursement for expenses incurred in performing services as a member.

Effective Sept. 1, 2013 (HB 2300). Effective Sept. 1, 2013, and the amendment adding Transportation Code Sections 222.1071 and



222.1072, made by this Act prevails over the amendment adding those sections to Subchapter E, Chapter 222, Transportation Code, made by Section 1, HB 2300, 83rd Legislature, Regular Session, 2013, and the amendment made by Section 1, HB 2300, 83rd Legislature, Regular Session, 2013, has no effect (SB 1747).

Section 222.1075

SB 971 adds this section relating to port authority TRZ.

The bill adds subsection (a) to provide the definition for “port authority,” “port commission,” and “port project” for this section.

The bill adds subsection (b) to provide that in this section the amount of a port authority’s tax increment for a year is the amount of property taxes levied and collected by the port authority or by the commissioners court on behalf of the port authority for that year on the captured appraised value of real property taxable by the port authority and located in a TRZ. For this section, the bill provides that the captured appraised value of real property taxable by a port authority for a year is the total appraised value of all real property taxable by the port authority and located in a TRZ for that year less the tax increment base of the port authority. The bill also provides that the tax increment base of a port authority, for this section, is the total appraised value of all real property taxable by the port authority and located in TRZ for the year in which the zone was designated.

The bill adds subsection (c) to authorize a port commission of the port authority by order or resolution to designate a TRZ after determining that an area is unproductive or underdeveloped and that action under this section would improve the security, movement, and intermodal transportation of cargo or passengers in commerce and trade. The bill authorizes the port commission to designate a contiguous geographic area in the port authority’s jurisdiction to be a TRZ to promote a port project and for the purpose of abating property taxes or granting other county tax relief for real property located in the zone.

The bill amends subsection (d) to provide that the port commission must comply with all applicable laws in the application of Transportation Code Chapter 222, Funding and Federal Aid.

The bill adds subsection (e) to provide that the port commission must hold a public hearing not later than the 30th day before the date the port commission proposes to designate a TRZ under this section. The public hearing must be on the creation of the zone, its benefits to the port authority and to property in the proposed zone, and the abatement of property taxes or the granting of other property tax relief of taxes imposed by the port authority on real property located in the zone. At the hearing an interested person may speak for or against the designation of the zone, its boundaries, or the abatement of or other relief from port authority taxes on real property in the zone. Not later than the seventh day before the date of the hearing, notice of the hearing and the intent to create a zone

must be published in a newspaper having general circulation in the county in which the zone is proposed to be located.

The bill adds subsection (f) to specify requirements of the order or resolution designating a TRZ. The specified requirements are that the order or resolution must:

- describe the zone boundaries, provide that the zone takes effect immediately on adoption of the order or resolution and that the base year shall be the year of passage of the order or resolution or some year in the future,
- assign a name to the zone as prescribed,
- designate the base year for purposes of establishing the tax increment base,
- establish a property tax increment account, and
- contain specified findings on the effects of the promotion of a port project.

The bill adds subsection (g) to provide that compliance with the requirements of this section constitutes the designation of an area as a TRZ without further hearings or other procedural requirements.

The bill adds subsection (h) to authorize the port commission to:

- from taxes collected on property in a zone (including maintenance and operation taxes), pay into the zone’s tax increment account an amount equal to the tax increment produced by the port authority less any amounts allocated under previous agreements, including agreements under Tax Code Chapter 312, Property Redevelopment and Tax Abatement Act;
- repay any loan or other debt incurred to finance a port project under this section from the zone’s tax increment account;
- by order or resolution enter into an agreement with the owner of any real property located in the TRZ to abate all or a portion of the property taxes or to grant other tax relief for the owner’s property in an amount not to exceed a calculated amount for that year;
- by order or resolution elect to abate all or a portion of the property taxes imposed by the port authority on all real property in a zone; or
- grant other relief from property taxes on property in a zone.

The bill adds subsection (i) to provide that all abatements or other relief granted by the port commission in a TRZ must be equal in rate. In any property tax year, the total amount of the taxes abated or the total amount of other relief granted under this section may not exceed the calculated amount for that year, less any amounts allocated under previous agreements, including agreements under Tax Code Chapter 312, Property Redevelopment and Tax Abatement Act.

The bill adds subsection (j) to authorize a port authority to assess all or part of the cost of the port project against property within the zone to further the development of the port project for which the TRZ was designated. The bill provides that the assessment against each property in the zone may be levied and payable in installments in the same manner as provided



for city and county public improvement districts under Local Government Code Sections 372.016 - 372.018, provided that the installments do not exceed the total amount of the tax abatement or other relief granted under subsection (h). The bill provides that a port authority has the powers provided to cities and counties under Local Government Code Sections 372.015 - 372.020 and 372.023, for the assessment of costs and Local Government Code Sections 372.024 - 372.030, for the issuance of bonds by the port authority to pay the cost of a port project. The bill authorizes the port commission of the port authority to contract with a public or private entity to develop, redevelop, or improve a port project in the TRZ (including aesthetic improvements) and to pledge and assign to that entity all or a specified amount of the revenue the port authority receives from installment payments of the assessments for the payment of the costs of that port project. The bill prohibits the port commission of the port authority from rescinding its pledge or assignment until the bonds or other obligations secured by the pledge or assignment have been paid or discharged if the entity that received the pledge or assignment has itself pledged or assigned that amount to secure bonds or other obligations issued to obtain funding for the port project. Any amount received from installment payments of the assessments not pledged or assigned in connection with the port project may be used for other purposes associated with the port project or in the zone.

The bill adds subsection (k) to provide for amending the boundaries of a zone to accommodate changes in the limits of the project for which a reinvestment zone was designated, except that property may not be removed or excluded from a designated zone if any part of the assessment has been assigned or pledged directly by the port authority or through another entity to secure bonds or other obligations issued to obtain funding of the project and property may not be added to a designated zone unless the port commission of the port authority complies with subsections (e) and (f).

The bill adds subsection (l) to provide that except as provided by subsection (m), a tax abatement agreement entered into or an order or resolution on a tax abatement or the granting of other tax relief under subsection (h), terminates on Dec. 31 of the year in which the port authority completes any contractual requirement that included the pledge or assignment of assessments collected under this section.

The bill adds subsection (m) to provide that a TRZ terminates on Dec. 31 of the 10th year after the year the zone was designated, if before that date the port authority has not used the zone for the purpose for which it was designated.

Effective Sept. 1, 2013.

Section 222.108

SB 1110 amends subsection (a) to strike the exception to the requirement that a TRZ be established in connection with a project under Transportation Code Section 222.104. The bill also provides for one or more transportation projects in a TRZ, rather than a project.

The bill repeals subsection (d) which defined for this section, “transportation project” as having the meaning assigned by Transportation Code Section 370.003.

Effective Sept. 1, 2013.

SB 971 amends subsection (d) to modify the definition for this section of “transportation project” to include transportation projects described by Transportation Code Section 370.003; and port security, transportation, or facility projects described by Transportation Code Section 55.001(5).

Effective Sept. 1, 2013.

Section 222.110

SB 1747 amends subsection (a) to provide that the definition of “transportation reinvestment zone” includes a county energy TRZ.

The bill amends subsection (h) to provide that the hearing required under subsection (g) may be held in conjunction with a hearing held under Transportation Code Section 222.1071(d) if the ordinance or order designating an area as a TRZ under Transportation Code Section 222.1071 also designates a sales tax increment under subsection (b).

Effective Sept. 1, 2013.

SB 1110 modifies subsection (e) to provide that sales and use tax deposited into a tax increment account may be disbursed only to pay for projects authorized under Transportation Code Section 222.104 or 222.108; and notwithstanding Tax Code Sections 321.506 and 323.505, to satisfy claims of holders of tax increment bonds, notes, or other obligations issued or incurred for projects authorized under Transportation Code Section 222.104 or 222.108.

Effective Sept. 1, 2013.

HB 2300 amends subsection (e) to provide that sales and use taxes to be deposited into the tax increment account under this section may be disbursed notwithstanding Tax Code Sections 321.506 and 323.505 to satisfy claims of holders of tax increment bonds, notes, or other obligations issued or incurred for projects authorized under Transportation Code Section 222.104 or 222.1071.

Effective Sept. 1, 2013.

SB 1747 adds subsection (i) to provide that notwithstanding subsection (e), the sales and use taxes to be deposited into the tax increment account established by a county energy TRZ or TRZs under this section may be disbursed from the account only to provide matching funds under Transportation Code Section 256.105; and funding for one or more transportation infrastructure projects located in a zone.

Effective Sept. 1, 2013.



Section 222.111

SB 1110 adds this section relating to TRZs for projects located in other jurisdictions. The bill provides that notwithstanding any other law, the governing body of a county or city may designate a TRZ for a transportation project located outside the boundaries of the county or city if certain conditions are met. These specified conditions are the county or city finds that the project will benefit the property and residents located in the zone and the creation of the zone will serve a public purpose of that county or city; a zone has been designated for the same project by one or more counties or cities in whose boundaries the project is located; and an agreement for joint support of the designated zones is entered into by the county or city whose boundaries do not contain the project and one or more of the counties or cities that have designated a zone for the project and in whose boundaries the project is located.

Effective Sept. 1, 2013.

Sections 251.018

SB 1747 adds this section relating to road reports to provide that a road condition report made by a county that is operating under a system of administering county roads under Transportation Code Chapter 252 or a special law, including a report made under Transportation Code Section 251.005, must include the primary cause of any road, culvert, or bridge degradation if reasonably ascertained.

Effective Sept. 1, 2013.

HB 2300 adds the section to provide that a commissioners court may accept donations of labor, money, or other property to aid in the building or maintaining of roads, culverts or bridges in the county if the commissioners court enters into an agreement of release of liability regarding the donations. The bill also permits a county operating under the county road department system on Sept. 1, 2013, to use the authority granted under this section without holding a new election under Transportation Code Section 252.301.

Effective Sept. 1, 2013.

Section 251.019

SB 1747 adds this section relating to donations.

The bill adds subsection (a) to authorize a commissioners court to accept donations of labor, money, or other property to aid in the building or maintaining of roads, culverts, or bridges in the county.

The bill adds subsection (b) to authorize a county operating under the county road department system on Sept. 1, 2013, to use the authority granted under this section without holding a new election under Transportation Code Section 252.301.

The bill adds subsection (c) to provide that a county that accepts donations under this section must execute a release of

liability in favor of the entity donating the labor, money, or other property.

Effective Sept. 1, 2013.

Section 256.009

SB 1747 amends subsection (a) to add to the list of items that a county auditor or the official with the duties of the county auditor must annually file with the Comptroller to include how money paid into a tax increment account for the zone or from an award under Subchapter C was spent if the county designated a county energy TRZ and a description, including location, of any new roads constructed in whole or in part with this money.

Effective Sept. 1, 2013.

Sections 256.101, 256.102, 256.103, 256.104, 256.105, and 256.106

(Subchapter C, Transportation Infrastructure Fund)

SB 1747 creates definitions for “fund,” “transportation infrastructure project,” “weight tolerance permit,” and “well completion.” The bill provides that the transportation infrastructure fund is a dedicated fund in the state treasury outside the general revenue fund. Government Code Sections 403.095 and 404.071 do not apply to the fund. Money in the fund may be appropriated only to TxDOT for the purposes of Subchapter C, Transportation Infrastructure Fund and the fund consists of:

- any federal funds received by the state deposited to the credit of the fund;
- matching state funds in an amount required by federal law;
- funds appropriated by the Legislature to the credit of the fund;
- a gift or grant;
- any fees paid into the fund; and
- investment earnings on the money on deposit in the fund.

The bill provides for TxDOT to administer a grant program under Subchapter C, Transportation Infrastructure Fund to make grants to counties for transportation infrastructure projects located in areas of the state affected by increased oil and gas production. TxDOT may adopt rules to implement this subchapter. The bill provides for the allocation of grants to counties that designate a county energy TRZ, the application process, matching funds, and program administration.

The bill authorizes TxDOT to use one-half of one percent of the amount deposited into the fund in the preceding fiscal year, not to exceed \$500,000 in a state fiscal biennium, to administer Subchapter C, Transportation Infrastructure Fund.

Effective Sept. 1, 2013. TxDOT must adopt rules implementing Subchapter C, Chapter 256 of the Transportation Code, as added by this Act, as soon as practicable after the effective date.



Section 431.003

SB 276 and **SB 948** amend this section to modify the definition of “local government” for purposes of Subchapter D, Local Government Corporations to include a regional transportation authority governed by Transportation Code Chapter 452 and a coordinated county transportation authority governed by Transportation Code Chapter 460. **SB 276** also includes in the definition a rapid transit authority governed by Transportation Code Chapter 451.

Effective May 18, 2013 (SB 276). Effective Sept. 1, 2013 (SB 948).

Section 521.008

SB 1729 adds this section relating to a pilot program regarding the provision of renewal and duplicate driver’s license and other identification certificate services.

The bill adds subsection (a) to authorize DPS to establish a pilot program for the provision of renewal and duplicate driver’s license, election identification certificate, and personal identification certificate services. This program is in not more than three counties with a population of 50,000 or less; not more than three counties with a population of more than 50,000 but less than 1,000,001; not more than two counties with a population of more than one million; and notwithstanding the previous requirements, any county in which DPS operates a driver’s license office as a scheduled or mobile office.

The bill adds subsection (a-1) to authorize DPS to enter into an agreement with the commissioners court of a county to permit county employees to provide services at a county office relating to the issuance of renewal and duplicate driver’s licenses, election identification certificates, and personal identification certificates. These services include taking photographs; administering vision tests; updating a driver’s license, election identification certificate, or personal identification certificate to change a name, address, or photograph; distributing and collecting

information relating to donations under Transportation Code Section 521.401; collecting fees; and performing other basic ministerial functions and tasks necessary to issue renewal and duplicate driver’s licenses, election identification certificates, and personal identification certificates.

The bill adds subsection (b) to provide that an agreement under subsection (a-1) may not include training to administer an examination for driver’s license applicants under Subchapter H, Education and Examination Requirements.

The bill adds subsection (c) to provide that a participating county must remit to DPS for deposit, as required, fees under Transportation Code Chapter 521, Driver’s Licenses and Certificates collected for the issuance of a renewal or duplicate driver’s license or personal identification certificate.

The bill adds subsection (d) to authorize the commissioners court of a county to provide services through any consenting county office. A county office may decline or consent to provide services by providing written notice to the commissioners court.

The bill adds subsection (e) to require DPS to provide all equipment and supplies necessary to perform the services described by subsection (a-1), including network connectivity.

The bill adds subsection (f) to require DPS to adopt rules to administer this section.

Effective June 14, 2013.

Section 521.428

SB 1729 adds this section relating to county fees to provide that a county that provides services under an agreement described by Transportation Code Section 521.008 may collect an additional fee of up to \$5 for each transaction provided that it relates to driver’s license and personal identification certificate services only.

Effective June 14, 2013.

Water Code

Section 49.059

SB 902 amends the section heading to “Tax Assessor and Collector.”

The bill amends subsection (a) to authorize a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution, to employ or contract with, to serve as its tax assessor and collector, any person who is an individual certified as a registered Texas assessor-collector; or a firm, organization, association, partnership, corporation, or other legal entity if an individual certified as a registered Texas assessor-collector owns an interest in or is employed by the firm, organization, association, partnership, corporation, or other legal entity.

The bill amends subsection (b) to provide that a tax assessor and collector employed or contracted for under this section is not required to be a natural person.

The bill amends subsection (c) to require a firm, organization, association, partnership, corporation, or other legal entity serving as district tax assessor and collector to give a bond as required by Water Code Section 49.057 for a natural person.

The bill adds subsections (d), (e), (f), and (g) from pre-existing subsections, updates section references, and conforms to subsections (b) and (c).

Effective Sept. 1, 2013.



Section 49.063

SB 902 adds subsection (a) from pre-existing language.

The bill adds subsection (b) to provide that the validity of an action taken at a board meeting of a district or authority created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution is not affected by:

- the failure to provide notice of the meeting if the meeting is a regular meeting;
- an insubstantial defect in notice of the meeting; or
- the failure of a county clerk to timely or properly post or maintain public access to a notice of the meeting if notice of the meeting is furnished to the county clerk in sufficient time for posting under Government Code Section 551.043(a) or 551.045.

Effective Sept. 1, 2013.

Section 49.102

SB 902 amends subsection (a) to specify that the required election before issuing any bonds or other obligations within the boundaries of a proposed district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution must be on a uniform election date provided by Election Code Section 41.001.

The bill amends subsection (b) to provide that the notice of a confirmation or director election state the number of directors to be voted on is required if applicable.

The bill amends subsection (c) to provide that the requirement that ballots leave blank places after the names of the temporary directors in which a voter may write the names of other persons for directors applies if the district has received an application by a write-in candidate and if so, the blank spaces are for any candidates appearing on the list of write-in candidates required by Election Code Section 146.031.

The bill amends subsection (h) to modify references to “directors” to “elected directors.”

Effective Sept. 1, 2013.

Section 49.103

SB 902 amends subsection (a) to modify the four-year term lengths of members of the board of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution to staggered four-year terms.

The bill amends subsection (b) to provide the required director election of a district is held after confirmation of a district.

The bill repeals subsection (g) relating to the terms of directors or the date of a director election for a district.

Effective Sept. 1, 2013.

Section 49.1045

SB 902 adds this section relating to the certification of election results in less populous districts created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

Effective Sept. 1, 2013.

Section 49.105

SB 902 amends subsection (c) to authorize, rather than require, TCEQ (if the district is required to obtain TCEQ approval of its bonds) or the county commissioners court (if the commissioners court created the district) to appoint directors as provided to fill vacancies on the board of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

The bill amends subsection (d) to provide that if one or more members of a board is not elected, the current members of a temporary board holding the positions not filled at election shall be deemed to have been elected and serve the initial term of office.

Effective Sept. 1, 2013.

Sections 49.109, 49.110, 49.111, 49.112, and 49.113

SB 902 adds these sections relating to an agent during an election period for a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution; eligibility and appointment notices of election judges; exempting a district from use of accessible voting systems; cancellation of an election and the removal of a ballot measure; and notice for filing for a place on the ballot.

Effective Sept. 1, 2013.

Section 49.151

SB 902 amends subsection (c) to provide for disbursements to be transferred by electronic means by a board of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

Effective Sept. 1, 2013.

Section 49.154

SB 902 amends subsection (a) to provide that bond anticipation notes or tax anticipation notes of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution are negotiable instruments within the meaning and purposes of the Business & Commerce Code notwithstanding any provision to the contrary in that code.

The bill amends subsection (c) to provide that bond anticipation notes may be issued for any purpose for which bonds of the district may be issued and strikes the provision that bonds



may be issued for any purpose for which the bonds may have previously been voted.

Effective Sept. 1, 2013.

Section 49.181

SB 902 amends subsection (a) to specify that the prohibition of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution from issuing bonds unless TCEQ determines that the project is feasible and issues an order approving the bond issuance applies to bonds to finance a project for which TCEQ has adopted rules requiring review and approval.

Effective Sept. 1, 2013.

Section 49.194

SB 902 amends subsection (a) and (b) to provide an exception as provided by subsection (h) to the requirement that the board of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution submit a copy of an audit report to the executive director within 135 days after the close of the district's fiscal year.

The bill amends subsections (a) and (c) to replace references to an "audit" with "audit report."

The bill adds subsection (h) to require a special water authority to submit a copy of the audit report to the executive director for filing not later than the 160th day after the date the special water authority's fiscal year ends.

Effective Sept. 1, 2013.

Section 49.212

SB 902 amends subsection (d) to modify provisions relating to when a charge or a fee imposed by a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution is not an impact fee under Local Government Code Chapter 395. The bill provides that a charge or fee is not an impact fee when it is imposed by a district for capacity in storm water detention or retention facilities and related storm water conveyances if all other requirements are met. The bill provides that a charge or fee is not an impact fee if it is made by a district for retail or wholesale service on land that at the time of platting was not being provided with water, wastewater, drainage, or storm water detention or retention service by the district.

The bill adds subsection (d-1) to provide that actual costs under subsection (d), as determined by the board in its reasonable discretion, may include non-construction expenses attributable to the design, permitting, financing, and construction of the facilities under subsections (d)(1) and (d)(2), and reasonable interest on those costs calculated at a rate not to exceed the net effective interest rate on any district bonds issued to finance the facilities.

The bill adds subsection (d-2) from pre-existing language and authorizes a district to pledge the revenues of the district's

utility system to pay the principal of or interest on bonds issued to construct the capital improvements for which a charge is imposed under subsection (d).

Effective Sept. 1, 2013.

Section 49.2121

SB 902 amends subsection (b) to strike the limit on a fee that a district may collect that is reasonably related to the expense in processing the payment by credit card incurred by a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

Effective Sept. 1, 2013.

Section 49.216

SB 902 amends subsection (e) to provide that the requirement that a peace officer take an oath and execute a bond before beginning to perform any duties and at the time of appointment applies to any peace officer who is directly employed by a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

The bill adds subsection (f) to provide that a peace officer contracted for by a district, individually or through a county, sheriff, constable, or city, is an independent contractor, and the district is responsible for the acts or omissions of the peace officer only to the extent provided by law for other independent contractors.

Effective Sept. 1, 2013.

Section 49.273

SB 902 amends subsection (d) to increase from \$50,000 to \$75,000 the threshold over which a contract is required to advertise the letting of the contract by the board of a district or authority created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution. The bill modifies provisions relating to publishing the required notice, including striking language that if one newspaper meets both requirements then publication in such newspaper is sufficient and providing that the first publication must be not later than the 14th (rather than the 21st) day before the date of the opening of the sealed bids.

The bill amends subsection (e) to increase the upper threshold for contracts from not more than \$50,000 to not more than \$75,000 over which a board is required to solicit written competitive bids on uniform written specifications from at least three bidders.

Effective Sept. 1, 2013.

HB 1050 amends subsection (i) to specify that the aggregate of the change orders to certain contracts may not increase the original contract price by more than 25 percent (rather than 10 percent).

Effective Sept. 1, 2013.



Section 49.3076

HB 1324 amends subsection (a) to provide that the board of directors of a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution that has a total area of more than 10,000 acres (rather than 5,000 acres) shall call a hearing on the exclusion of land from the district on or before the 60th day after receiving a written petition filed with the secretary of the board by one or more owners (rather than a landowner) of land more than half the acreage of which has been for more than 20 years (rather than for more than 28 years) included in and taxable by the district if any bonds issued by the district payable in whole or in part from taxes of the district are outstanding and the petition meets specified criteria.

The bill repeals subsection (a-1) which provides for a district that has a total area of more than 1,000 acres and not more than 5,000 acres to have a hearing on the exclusion of land on a written petition by specified landowners.

The bill amends subsection (b) to require a district board to exclude land under this section if the district:

- does not provide (rather than has never provided) retail utility service to the land described by the petition,
- has imposed a tax on more than half the acreage of the land for at least 20 years (rather than more than 28 years under specified conditions or more than 40 years under other specified conditions), and if
- all taxes the district has levied and assessed against the land and all fees and assessments the district has imposed against the land or the owner that are due and payable on or before the date of the petition are fully paid.

The bill amends subsection (c) to provide that, subject to subsection (c-1), unless the district presents evidence at the hearing that conclusively demonstrates that the requirements and grounds for exclusion described by subsection (a) (rather than subsection (a) or (a-1) as appropriate, and subsection (b)) have not been met, the board shall enter an order excluding the land from the district and shall redefine in the order the boundaries of the district to embrace all land not excluded.

The bill adds subsection (c-1) to provide that if on or before the date of the exclusion hearing required by subsection (a) the district and the owner or owners enter into an agreement for utility service to the land proposed to be excluded, the district is not required to enter an order excluding the land from the district. An owner of all or part of the land is not required to enter into a utility agreement that as of the date of the petition fails to meet specified conditions.

The bill amends subsection (d) to add TCEQ to the entities with whom a copy of an order excluding land and redefining the boundaries of the district shall be filed.

The bill amends subsection (f) to clarify that additional debt issued after land is excluded from the district may not be payable from taxes levied against the taxable value of the excluded

land (rather than may not be payable from the taxable value of the excluded land).

The bill adds subsection (g-1) to provide that this section does not apply to a district:

- whose primary activity is the wholesale supply of raw water and that has fewer than 500 retail customers, or
- whose jurisdiction covers four counties and that was created under Section 59, Article XVI, Texas Constitution.

Effective Sept. 1, 2013, and applies only to a petition for exclusion of land that is filed with a district on or after the effective date.

Section 49.3077

HB 1324 amends the section by defining “adjusted gross value,” “carry costs,” “district debt,” “excluded land,” “excluded land payment,” “excluded land’s share of district debt,” “exclusion date” and “termination date.” The bill provides that:

- Excluded land that has been pledged as security for any outstanding debt of the district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution remains pledged for the excluded land’s share of district debt until the excluded land payment is paid.
- A district is entitled to continue to levy and collect debt service taxes on the excluded land until the termination date at the same rate those taxes are levied on the land remaining in the district.
- From the exclusion date to the termination date, the excluded land remains in the district for the limited purpose of assessment and collection of such taxes.
- After the termination date, the excluded land is excluded from the district for all purposes, and the district may not levy any further tax on the excluded land.
- The district is required to apply the taxes collected on the excluded land only to payment of the excluded land payment, which shall be reduced by the amount of taxes collected.
- A person is entitled to pay to the district the excluded land payment, in whole or in part, at any time on or after the exclusion date by delivering payment to the district tax assessor-collector.

The bill provides procedures for partial payments and carry costs.

Effective Sept. 1, 2013.

Section 49.3078

HB 1324 adds the section, “Petition for Exclusion: Additional Duties” to require a landowner who signs a petition for the exclusion of land that is filed under Water Code Section 49.3076 with a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution to submit a copy of the petition to TCEQ. The bill requires the executive director, on receipt of a copy of the petition, to review the most recent financial information of the



applicable district, including specified items, to confirm that an exclusion of land conducted in accordance with Water Code Sections 49.3076 and 49.3077, does not adversely affect the interests of district bondholders. The bill requires the executive director to notify the landowner and the district when the review is complete.

Effective Sept. 1, 2013.

Section 49.312

HB 1324 amends subsection (a) to provide an exception to the provision that, on issuance of an order excluding property, that property is no longer a part of the district created by authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution and is not entitled to water service from the district.

The bill amends subsection (c) to provide an exception to the provision that, once land is excluded, the landowner has no further liability to the district for future taxes, assessments, or other charges of the district.

Effective Sept. 1, 2013.

Section 49.351

SB 902 amends subsection (a) to provide that the authorization for a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution to provide for a fire department may be done separately or jointly with another district, city, or other political subdivision. The bill provides for these services to be financed with property taxes and voluntarily contributions, along with the pre-existing authorization to issue bonds and mandatory fees.

The bill amends subsection (b) to provide that after complying with the requirements of this section a district or districts may provide for an adequate system and water supply for fire-fighting purposes, purchase necessary land, construct and purchase necessary facilities and equipment, and employ or contract with a fire department to employ all necessary personnel.

The bill amends subsection (c) to provide that bonds and property taxes must be authorized and may be issued or imposed as provided by law as specified for financing a plan for a fire department.

The bill amends subsection (f) to provide that the requirement that a district comply with subsections (g), (h), and (i) must be fulfilled before a district imposes a property tax or issues bonds payable wholly or partly from property taxes to finance the establishment of a fire department.

The bill amends subsection (i) to modify requirements of elections held by a district to require that a district hold an election to approve a plan of a proposed fire department, approve bonds payable wholly or partly from property taxes, and impose property taxes for financing the plan. The bill also strikes specified ballot language.

The bill modifies subsection (l) to strike language that the authorization of a district providing potable water or sewer service to household users to collect from customers a voluntary contribution on behalf of organizations providing fire-fighting services is notwithstanding the requirements of subsections (a)-(j).

The bill adds subsection (m) to provide that if a customer makes a partial payment of a district bill for water or sewer service and includes with the payment a voluntary contribution for fire-fighting services under subsection (l), the district is required to apply the voluntary contribution first to the bill for water or sewer service, including any interest or penalties imposed. The district is required to use any amount remaining for fire-fighting services.

Effective Sept. 1, 2013.

Section 49.462

SB 902 amends this section to modify the definition of “recreational facilities” for Subchapter N, Recreational Facilities to provide that the term does not include a minor improvement or beautification project to land acquired or to be acquired as part of the water, sewer, or drainage facilities of a district created by authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution.

Effective Sept. 1, 2013.

Section 49.4641

SB 902 adds this section relating to recreational facilities on sites acquired for water, sewer, or drainage facilities.

The bill adds subsection (a) to authorize a district created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution to develop and maintain recreational facilities on a site acquired for the purpose of developing water, sewer, or drainage facilities.

The bill adds subsection (b) to provide that a district is not required to prorate the costs of a site described by subsection (a) between the primary water, sewer, or drainage purpose and any secondary recreational facilities purpose if a licensed professional engineer certifies that the site is reasonably sized for the intended water, sewer, or drainage purpose.

The bill adds subsection (c) to authorize the engineer to consider specified factors in determining the reasonableness of the size of a water, sewer, or drainage site.

Effective Sept. 1, 2013. Not later than Dec. 1, 2014, TCEQ is required to adopt any rules or amendments to existing rules necessary to implement this section.

Section 49.4645

SB 902 amends subsection (a) to modify the authorization of specified districts created by the authority of either Sections 52(b)(1) and (2), Article III, or Section 59, Article XVI, Texas Constitution to issue bonds supported by property taxes to



pay for recreational facilities to provide that the bonds must be authorized by a majority of the voters in the district, rather than qualified voters, voting in an election for that purpose. The bill provides that the outstanding principal amount of bonds, notes, and other obligations issued to finance parks and recreational facilities that are supported by contract taxes under Water Code Section 49.108 may not exceed an amount equal to one percent of the value of the taxable property in the districts making payments under the contract. To establish the value of the taxable property in a district under this section, the district may use an estimate of the value provided by the central appraisal district.

The bill amends subsection (b) to modify when a board is required to file a park plan for public review to on or before the 10th day before the first day for early voting by personal appearance at an election held to authorize the issuance of bonds for the development and maintenance of recreational facilities. The park plan may be amended at any time after the election held to authorize the issuance of these bonds. The estimated cost stated in the amended park plan may not exceed the amount of bonds authorized at that election.

Effective Sept. 1, 2013.

Section 51.072

SB 902 amends this section, relating to the qualifications for a director on the board of directors of a water control and improvement district, to create subsection (a) and (b) from pre-existing language and to provide that if a person meets other qualification requirements, a person who is a qualified voter in the district or owns land subject to taxation by the district qualifies for election as a director.

Effective Sept. 1, 2013.

Section 51.091

SB 611 adds this section relating to projects of certain districts.

The bill adds subsection (a) to provide that in this section, “preservation district” means a district defined by Water Code Chapter 54 and created by special law with the power to promote the preservation of fish and other wildlife within its boundaries.

The bill adds subsection (b) to provide that a water supply project financed, in whole or in part, with water development bonds, as defined under Water Code Section 16.001, that is undertaken by a district having operations or facilities located in not less than four counties, and that is included in a regional water plan under Water Code Section 16.053, is of fundamental and paramount importance and is to be given priority over the activities, rules, regulations, ordinances, or any requirement for a permit, bond, or fee of a preservation district, which shall be inapplicable to the construction of the project.

The bill adds subsection (c) to provide that the governmental immunity of a preservation district is waived in an action brought by a district described in subsection (b) for the acquisition of

land, easements, or other property for a project described in subsection (b), if the preservation district is the owner of the land or property.

The bill adds subsection (d) to provide that notwithstanding any other law, the venue shall lie in Travis County for an action described in subsection (c) and brought by a district described in subsection (b).

The bill adds subsection (e) to provide that this section expires Sept. 1, 2039.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district’s next fiscal year following the effective date.

Section 51.301

SB 611 amends subsection (a) to provide that the requirement that each person who desires to receive irrigation water at any time during the year must furnish the secretary of the water control and improvement district board a written statement applies if it is required by the board.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district’s next fiscal year following the effective date.

Section 51.302

SB 611 amends subsections (a), (b), (c), and (d) to replace references to “water” with “irrigated water” and a reference to “land” with “acreage.”

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district’s next fiscal year following the effective date.

Section 51.303

SB 611 amends this section to modify the pre-existing authorization of a water control and improvement district board to adopt, alter, and rescind rules, regulations, and standing temporary orders as specified to govern assessments, charges, fees, rentals, or deposits for maintenance and operation and for the payment and enforcement of these payments. The bill modifies language to provide that a pre-existing authorization of the board applies, if required, to allow the board to furnish water to persons who did not apply for it before the assessment date, or to furnish water to persons who wish to take water for irrigation in excess of their original applications or for use on land not covered by their original applications.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district’s next fiscal year following the effective date.



Section 51.304

SB 611 amends this section relating to the water control and improvement district board's estimate of maintenance and operating expense to provide for the estimate of the expenses of maintaining and operating the district's water delivery system (rather than irrigation system) for the next 12 months.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.305

SB 611 amends subsection (a) to require a water control and improvement district board to allocate a portion of the estimated maintenance and operating expenses that shall be paid by assessment against all land in the district to which the district can furnish irrigation water through its water delivery system or through an extension of its water delivery system. This assessment is required to be levied against all irrigable land in the district on a per acre basis, whether or not the land is actually irrigated. The bill strikes language that not less than one-third nor more than two-thirds of the estimated maintenance and operating expenses shall be paid by assessment against all land in the district to which the district can furnish water.

The bill amends subsection (b) to strike language that assessments shall be levied against all irrigable land in the district on a per acre basis, whether or not the land is actually irrigated. The bill modifies the requirement that the water control and improvement district board determine from year to year the proportionate amount of the expenses which will be borne by water users to provide that this is a determination for all water users receiving water delivery from the district.

The bill amends subsection (c) to provide that the remainder of the estimated expenses is required to be paid by assessments, charges, fees, rentals, or deposits required of persons in the district who use or who make application to use water. The bill strikes language that the district board prorate the remainder as equitably as possible and modifies the board's considerations in the proration to include the amount of water per acre used for irrigation purposes and other factors deemed appropriate by the board with respect to water used for other nonirrigation uses.

The bill adds subsection (d) to authorize a landowner of irrigable land in the district or a user of water delivered by the district for any purpose other than irrigation who disputes all or a part of a board order that determines the amount of an assessment, charge, fee, rental, or deposit may file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or user of water described by this subsection.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.306

SB 611 amends subsection (a) to provide that the requirement that public notices of all assessments be given by posting the printed notice applies to notices of assessments imposed under Water Code Section 51.305(a) and to require that the notice be posted in one public place, rather than three public places, in the water control and improvement district.

The bill amends subsection (b) to provide a deadline of not later than the fifth day before the date on which the assessment is due to the pre-existing requirement that a notice be mailed to each landowner at the address which the landowner furnished to the district board.

The bill amends subsection (c) to strike language that a notice be posted in a public place and mailed to each landowner five days before the assessment is due.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.307

SB 611 amends subsection (a) to provide that the requirement that all assessments be paid in installments at the times fixed by the water control and improvement district board applies to assessments imposed under Water Code Section 51.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.308

SB 611 amends subsection (a) to provide that the assessments that an assessor and collector or other person designated by the water control and improvement district board is required to collect applies to all assessments imposed under Water Code Section 51.305(a).

The bill amends subsections (b) and (c) to replace "he" with "assessor and collector."

The bill amends subsection (c) to require the assessor and collector to file with the secretary of the board a statement of all money collected each month, rather than each week.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.309

SB 611 amends subsection (a) to provide that the requirement that water control and improvement districts have a first lien, superior to all other liens, against all crops grown on a tract of land in the district to secure the payment of assessments applies



to an assessment imposed against the tract under Water Code Section 51.305(a).

The bill adds subsection (b) to provide that if the crops against which the district has a lien under this section are cultivated on a basis other than annual replanting, the owner of the crops shall record with the county clerk of the county where the land on which the crops are cultivated is located a legally sufficient description of the land, including a metes and bounds description or a plat reference.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.310

SB 611 amends this section to provide that the requirement that assessments not paid when due become delinquent on the first day of the month following the date payment is due applies to assessments imposed under Water Code Section 51.305(a). The bill strikes language that the water control and improvement district board posts in a public place in the district a list of all persons who are delinquent in paying their assessments.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.311

SB 611 adds subsection (a) from pre-existing language and modifies provisions relating to cutting off the water supply to provide that if a landowner fails or refuses to pay any water assessment or a person fails to pay a charge, fee, rental, or deposit imposed under Water Code Chapter 51, Water Control and Improvement Districts or Water Code Chapter 49, Provisions Applicable to All Districts when due, the landowner's or person's water supply shall be cut off, and no water shall be furnished to the land until all back assessments or other amounts owed to the water control and improvement district are fully paid. The bill provides that the discontinuance of water service is binding on all persons who own or acquire any interest in land for which amounts owed to the district are due.

The bill adds subsection (b) to provide that a landowner or person whose water service has been discontinued under subsection (a) may request that the water control and improvement district board reconsider the discontinuance related to a charge, fee, rental, deposit, or penalty, and may not request that the board reconsider a discontinuance related to an assessment. If the board declines to reconsider the discontinuance, the landowner or person may file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or person described by this subsection.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in

law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.312

SB 611 amends this section to provide that suits for amounts owed to the water control and improvement district under Subchapter G, Water Charges and Assessments may be brought either in the county in which the district is located or in the county in which the defendant resides. The bill provides that the requirement that all landowners are personally liable for assessments applies to assessments imposed under Water Code Section 51.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.313

SB 611 amends subsection (a) to provide that the requirement that all assessments bear interest from the date payment is due at the rate of 15 percent a year applies to assessments imposed under Water Code Section 51.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 51.335

SB 902 amends subsection (b) to add an exception as provided by subsection (c) to the prohibition of a water control and improvement district from usurping functions or duplicating a service already adequately exercised or rendered by the other governmental agency.

The bill adds subsection (c) to authorize a district to finance, develop, and maintain recreational facilities under Subchapter N, Chapter 49, Water Code even if similar facilities may be provided by a political subdivision or other governmental entity included wholly or partly in the district.

Effective Sept. 1, 2013.

Section 51.523

SB 902 amends this section to modify the ballot language for an election under Subchapter L, Tax Plan to include language specifying the levy of a maintenance tax by a water control and improvement district.

Effective Sept. 1, 2013.

Section 51.527

SB 902 adds subsection (c) to provide that after bonds issued for a defined area or designated property are fully paid or defeased, the board of directors of a water control and improvement district may declare the defined area dissolved or may repeal the



designation of the designated property. After that declaration or repeal, the board is required to cease imposing any special taxes authorized under the adopted tax plan on the property located in the defined area or on the designated property.

Effective Sept. 1, 2013.

Section 54.016

SB 902 amends subsection (f) to specify that the authorization for a city to provide written consent for the inclusion of land in a municipal utility district applies to a district that is initially located wholly or partly outside the corporate limits of the city.

Effective Sept. 1, 2013. The Legislature finds that an agreement entered into before Sept. 1, 2013, by a city and a city utility district is an allocation agreement only if the district is initially located wholly or partly outside the corporate limits of the city; the agreement strictly complies with the requirements of subsection (f), Section 54.016, Water Code, as that section existed immediately before the effective date; and the agreement is specifically designated by the parties to the agreement as an "allocation agreement" under subsection (f), Section 54.016, Water Code.

Section 54.0161

HB 738 amends subsection (a) to provide that the section applies only to a proposed municipal utility district all of which is to be located outside the corporate limits of a city.

The bill adds subsection (a-1) to provide that, promptly after a petition is filed with TCEQ to create a district to which this section applies, TCEQ is required to notify the commissioners court of any county in which the proposed municipal utility district is to be located.

The bill adds subsection (a-2) to provide that the commissioners court of a county in which the municipal utility district is to be located may review the petition for creation and other evidence and information relating to the proposed district that the commissioners consider necessary. The bill requires petitioners for the creation of a municipal utility district to submit to the county commissioners court any relevant information requested by the commissioners court.

The bill amends subsection (b) to provide that in the event the county commissioners court votes to submit information to TCEQ or to make a recommendation regarding the creation of the proposed district (rather than in the event of a review) the commissioners court is required to submit to TCEQ, at least 10 days before the date set for action (rather than set for the hearing) on the petition, a written opinion stating:

- whether the commissioners court recommends (rather than county would recommend) the creation of the proposed district, and
- any findings, conclusions and other information that the commissioners court thinks (rather than commissioners think) would assist TCEQ in making a final determination on the petition.

The bill amends subsection (c) to provide that in passing on a petition subject to this section (rather than under this subchapter), TCEQ is required to consider the written opinion submitted by the county commissioners court (rather than county commissioners).

Effective Sept. 1, 2013, and applies only to a petition for the creation of a municipal utility district that is filed with TCEQ on or after the effective date.

Section 54.236

SB 902 amends subsection (a) to modify the authorization of a municipal utility district to purchase, install, operate, and maintain street lighting or security lighting to include lighting within public utility easements or public rights-of-way or property owned by the district.

The bill amends subsection (b) to provide an exception as authorized by Water Code Section 54.234 or Subchapter N, Chapter 49, Water Code to the prohibition of a district from issuing bonds supported by property taxes to pay for the purchase, installation, and maintenance of street or security lighting.

Effective Sept. 1, 2013.

Section 54.739

SB 902 amends this section to modify when a municipal utility district may exclude land that does not need or utilize the services of the district and include other land not within the boundaries of the district after the district organized and has obtained voter approval for the issuance of, or has sold, bonds payable wholly or partly from property taxes.

Effective May 18, 2013.

Section 54.744

SB 902 amends this section, relating to impairment of security, to create subsection (a) from pre-existing language.

The bill adds subsection (b) to modify pre-existing language relating to lands proposed for inclusion in a district. The bill provides that such lands are sufficient to avoid an impairment of the security for payment of the district's obligations at the time the board considers an application if the projected net revenues from the included lands equals or exceeds the projected net revenues from excluded lands.

The bill adds subsection (c) to provide that in this section, the taxable value of included land means the market value of the land if, before or contemporaneously with the inclusion of the land in the district, the owner of the land waives the right to special appraisal of the land as to the district under Tax Code Section 23.20.

Effective May 18, 2013.



Section 55.351

SB 611 amends this section to provide that the requirement that a person who desires to receive irrigation water at any time during the year furnish the secretary of the water improvement district board a written statement of the acreage the person intends to irrigate and the different crops the person intends to plant with the acreage of each crop applies if it is required by the board.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.352

SB 611 amends this section relating to the water improvement district board's estimate of maintenance and operating expense to provide for the estimate of the expenses of maintaining and operating the district's water delivery system (rather than irrigation system).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.354

SB 611 amends subsection (a) to require a water improvement district board to allocate a portion of the estimated maintenance and operating expenses that shall be paid by assessment against all land in the district to which the district can furnish irrigation water through its water delivery system or through an extension of its water delivery system. This assessment is required to be levied against all irrigable land in the district on a per acre basis, whether or not the land is actually irrigated. The bill strikes language that not less than one-third nor more than two-thirds of the estimated maintenance and operating expenses shall be paid by assessment against all land in the district to which the district can furnish water.

The bill amends subsection (b) to modify the requirement that the water improvement district board determine from year to year the proportionate amount of the expenses which will be borne by water users to provide that this is a determination for all water users receiving water delivery from the district.

The bill amends subsection (c) to provide that the remainder of the estimated expenses is required to be paid by assessments, charges, fees, rentals, or deposits required of persons in the district who use or who make application to use water. The bill strikes language that the district board prorate the remainder as equitably as possible and modifies the board's considerations in the proration to include the amount of water per acre used for irrigation purposes and other factors deemed appropriate by the board with respect to water used for other nonirrigation uses.

The bill amends subsection (d) to replace a reference to "water" with "irrigation water."

The bill adds subsection (e) to authorize a landowner of irrigable land in the district or a user of water delivered by the district for any purpose other than irrigation who disputes all or a part of a board order that determines the amount of an assessment, charge, fee, rental, or deposit to file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or user of water described by this subsection.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.355

SB 611 amends subsection (a) to provide that the requirement that public notices of all assessments be given by posting the printed notice applies to notices of assessments imposed under Water Code Section 55.354(a) and to require that the notice be posted in one public place, rather than three public places, in the water improvement district.

The bill amends subsection (b) to provide a deadline of not later than the fifth day before the date on which the assessment is due to the pre-existing requirement that a notice be mailed to each landowner at the address which the landowner furnished to the district board.

The bill amends subsection (c) to strike language that a notice be posted in a public place and mailed to each landowner five days before the assessment is due.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.356

SB 611 adds subsection (a) and (b) from pre-existing language and provides that the assessments required to be paid in installments at the times fixed by the water improvement district board applies to assessments imposed under Water Code Section 55.354(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.357

SB 611 amends subsection (a) to provide that the assessments that an assessor and collector of taxes or other person designated by the water improvement district board is required to collect applies to all assessments imposed under Water Code Section 55.354(a).



The bill amends subsections (b), (c), and (d) to replace references of “he” with “assessor and collector.”

The bill amends subsection (c) to require the assessor and collector to file with the secretary of the board a statement of all money collected each month, rather than each week.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.358

SB 611 amends subsections (a), (b), (c), and (d) to replace “water” with “irrigated water,” and a reference to “land” with “acreage.”

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.359

SB 611 amends subsection (a) to provide that the requirement that water improvement districts have a first lien, superior to all other liens, against all crops grown on a tract of land in the district to secure the payment of assessments applies to an assessment imposed against the tract under Water Code Section 55.354(a).

The bill adds subsection (c) to provide that if the crops against which the district has a lien under this section are cultivated on a basis other than annual replanting, the owner of the crops shall record with the county clerk of the county where the land on which the crops are cultivated is located a legally sufficient description of the land, including a metes and bounds description or a plat reference.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.360

SB 611 amends this section to provide that the provision that assessments not paid when due become delinquent on the first day of the month following the date payment is due applies to assessments imposed under Water Code Section 55.354(a). The bill strikes the requirement that a water improvement district board post in a public place in the district a list of all persons who are delinquent in paying their assessments. The bill provides that if a person who owes an assessment has executed a note and contract as provided in Water Code Section 55.358, the person may not be placed on the delinquent list until after the maturity of the note and contract.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in

law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.361

SB 611 adds subsection (a) from pre-existing language and modifies provisions relating to cutting off the water supply to provide that if a landowner fails or refuses to pay any water assessment or a person fails to pay a charge, fee, rental, or deposit imposed under Water Code Chapter 55, Water Improvement Districts or Water Code Chapter 49, Provisions Applicable to All Districts when due, the landowner's or person's water supply shall be cut off, and no water shall be furnished to the land until all back assessments or other amounts owed to the water improvement district are fully paid. The bill provides that the discontinuance of water service is binding on all persons who own or acquire any interest in land for which other amounts owed to the district are due.

The bill adds subsection (b) to provide that a landowner or person whose water service has been discontinued under subsection (a) may request that the water improvement district board reconsider the discontinuance related to a charge, fee, rental, deposit, or penalty, and may not request that the board reconsider a discontinuance related to an assessment. If the board declines to reconsider the discontinuance, the landowner or person may file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or person described by this subsection.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.362

SB 611 amends this section to provide that suits for delinquent amounts owed to the district under Subchapter H, Water Assessments may be brought either in the county in which the irrigation district is located or in the county in which the defendant resides. All landowners are personally liable for all assessments imposed under Water Code Section 55.354(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 55.363

SB 611 amends subsection (a) to provide that the provision that all assessments bear interest from the date payment is due at the rate of 15 percent a year applies to all assessments imposed under Water Code Section 55.354(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.



Section 58.137

SB 611 repeals this section relating to the investigation and report by an engineer of an irrigation district.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.301

SB 611 amends subsection (a) to provide that the requirement that a person who desires to receive irrigation water at any time during the year furnish the secretary of the irrigation district board a written statement of the acreage the person intends to irrigate and the different crops the person intends to plant with the acreage of each crop applies if it is required by the board.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.302

SB 611 amends subsections (a), (b), (c), and (d) to replace references of "water" with "irrigated water" and a reference to "land" with "acreage."

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.303

SB 611 amends this section to modify the pre-existing authorization of an irrigation district board to provide that the board may determine rules and regulations of an irrigation district board to adopt, alter, and rescind rules, and standing temporary orders as specified to govern assessments, charges, fees, rentals, or deposits for maintenance and operation and for the payment and enforcement of these payments. The bill amends a pre-existing authorization of the board to allow the board, if required, to furnish water to persons who did not apply for it before the assessment date or to persons who wish to take water for irrigation in excess of their original applications or for use on land not covered by their original applications.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.304

SB 611 amends this section relating to the irrigation district board's estimate of maintenance and operating expense to provide for the estimate of the expenses of maintaining and

operating the district's water delivery system (rather than irrigation system).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.305

SB 611 amends subsection (a) to require an irrigation district board to allocate a portion of the estimated maintenance and operating expenses that shall be paid by assessment against all land in the district to which the district can furnish irrigation water through its water delivery system or through an extension of its water delivery system. This assessment is required to be levied against all irrigable land in the district on a per acre basis, whether or not the land is actually irrigated. The bill strikes language that not less than one-third nor more than two-thirds of the estimated maintenance and operating expenses shall be paid by assessment against all land in the district to which the district can furnish water.

The bill amends subsection (b) to strike language that assessments shall be levied against all irrigable land in the district on a per acre basis, whether or not the land is actually irrigated. The bill modifies the requirement that the irrigation district board determine from year to year the proportionate amount of the expenses which will be borne by water users to provide that this is a determination for all water users receiving water delivery from the district.

The bill amends subsection (c) to provide that the remainder of the estimated expenses are required to be paid by charges, fees, rentals, or deposits (rather than assessments) required of persons in the district who use or who make application to use water and other charges approved by the irrigation district board. The bill strikes language that the irrigation district board prorate the remainder as equitably as possible and modifies the board's considerations in the proration to include the amount of water per acre used for irrigation purposes and other factors deemed appropriate by the board with respect to water used for other nonirrigation uses.

The bill adds subsection (d) to authorize a landowner of irrigable land in the district or a user of water delivered by the district for any purpose other than irrigation who disputes all or a part of a board order that determines the amount of an assessment, charge, fee, rental, or deposit to file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or user of water described by this subsection.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.



Section 58.306

SB 611 amends subsection (a) to provide that the requirement that public notices of all assessments be given by posting the printed notice applies to notices of assessments imposed under Water Code Section 58.305(a) and to require that the notice be posted in one public place, rather than three public places, in the irrigation district.

The bill amends subsection (b) to provide a deadline of not later than the fifth day before the date on which the assessment is due to the pre-existing requirement that a notice be mailed to each landowner at the address which the landowner furnished to the irrigation district board.

The bill amends subsection (c) to strike language that a notice be posted in a public place and mailed to each landowner five days before the assessment is due.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.307

SB 611 amends subsection (a) to provide that the requirement that all assessments be paid in installments at the times fixed by the irrigation district board applies to assessments imposed under Water Code Section 58.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.308

SB 611 amends subsection (a) to provide that the requirement that an assessor and collector or other person designated by the irrigation district board collect all assessments for maintenance and operating expenses applies to assessments imposed under Water Code Section 58.305(a).

The bill amends subsections (b) and (c) to replace “he” with “the assessor and collector.”

The bill amends subsection (c) to require the assessor and collector to file with the secretary of the irrigation board a statement of all money collected once each month, rather than once a week.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.309

SB 611 amends subsection (a) to provide that the provision that an irrigation district have a first lien, superior to all other liens, against all crops grown on a tract of land in the district

to secure the payment of an assessment applies to assessments imposed under Water Code Section 58.305(a).

The bill adds subsection (b) to provide that if the crops against which the district has a lien under this section are cultivated on a basis other than annual replanting, the owner of the crops is required to record with the county clerk of the county where the land on which the crops are cultivated is located a legally sufficient description of the land, including a metes and bounds description or a plat reference.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.310

SB 611 amends this section to provide that the provision that assessments not paid when due become delinquent on the first day of the month following the date payment is due applies to assessments imposed under Water Code Section 58.305(a). The bill strikes language that the board posts in a public place in the irrigation district a list of all persons who are delinquent in paying their assessments.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.311

SB 611 amends subsection (a) to provide that if a landowner fails or refuses to pay a water assessment or a person fails to pay a charge, fee, rental, or deposit imposed under Water Code Chapter 58, Irrigation Districts or Water Code Chapter 49, Provisions Applicable to All Districts when due, the landowner's or person's water supply is required to be cut off, and no water may be furnished to the land until all back assessments or other amounts owed to the irrigation district are fully paid. The discontinuance of water service is binding on all persons who own or acquire an interest in land for which assessments or other amounts owed to the district are due.

The bill adds subsection (b) to authorize a landowner or person whose water service has been discontinued under subsection (a) to request that the irrigation district board reconsider the discontinuance related to a charge, fee, rental, deposit, or penalty. The bill prohibits a request that the board reconsider a discontinuance related to an assessment. If the board declines to reconsider the discontinuance, the landowner or person is authorized to file a petition under Water Code Section 11.041. That petition filed with TCEQ is the sole remedy available to a landowner or person as described.

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.



Section 58.312

SB 611 amends this section to provide that suits for amounts owed to the irrigation district under Subchapter G, Water Charges and Assessments may be brought either in the county in which the district is located or in the county in which the defendant resides.

The bill provides that the requirement that all landowners are personally liable for assessments applies to assessments imposed under Water Code Section 58.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in

law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Section 58.313

SB 611 amends subsection (a) to provide that the requirement that all assessments bear interest from the date payment is due at the rate of 15 percent a year applies to assessments imposed under Water Code Section 58.305(a).

Effective Sept. 1, 2013. A district whose fiscal year begins on a date other than Sept. 1 is not required to comply with the changes in law made by this Act that apply to the district until the beginning of the district's next fiscal year following the effective date.

Texas Constitution

Article VIII, Section 1-b

HJR 24 amends subsection (j) to make a conforming change.

The resolution adds subsection (l) to authorize the Legislature to provide by general law that a partially disabled veteran is entitled to a property tax exemption of a percentage of the market value of his or her residence homestead that is equal to his or her disability percentage if a charitable organization donated the residence homestead at no cost to the disabled veteran. The resolution authorizes the Legislature to provide additional eligibility requirements. The resolution defines "partially disabled veteran" as a disabled veteran as described by Article VIII, Section 2(b) who is certified as having a disability rating of less than 100 percent, but a limitation or restriction on a disabled veteran's entitlement to, or the amount of, an exemption under Article VIII, Section 2(b) does not apply to an exemption under this subsection.

This amendment will be put before voters in an election to be held Nov. 5, 2013.

HJR 62 adds subsection (l) to authorize the Legislature to provide that the surviving spouse of a U.S. armed services member who is killed in action is entitled to a property tax exemption of all or part of the market value of the surviving spouse's residence homestead if the surviving spouse has not remarried since the death of the armed services member.

The resolution adds subsection (m) to authorize the Legislature by general law to provide that a surviving spouse who qualifies for and receives an exemption in accordance with subsection (l) and who subsequently qualifies a different property as the surviving spouse's residence homestead is entitled to a property tax exemption of the subsequently qualified homestead if the surviving spouse has not remarried since the death of the armed services member. The amount of this exemption is equal to the dollar amount of the property tax exemption of the first homestead for which the exemption was received in accordance with subsection (l) in the last year in which the surviving spouse

received the exemption in accordance with that subsection for that homestead.

This amendment will be put before the voters in an election to be held on Nov. 5, 2013. If approved by voters, these sections are Effective Jan. 1, 2014, and apply only to a tax year beginning on or after that date.

Article VIII, Section 1-j

HJR 133 amends subsection (a) to make a clarifying change and to provide that, if applicable, a later date (rather than 175 days after the date the person acquired or imported the property in this state) established by the governing body of the political subdivision under subsection (d) is the latest date by which certain goods, wares, merchandise, other tangible personal property and ores, other than oil, natural gas, and other petroleum products must be transported outside of this state to remain eligible for a property tax exemption.

The resolution adds subsection (d) to authorize the governing body of certain political subdivisions to extend by official action the number of days that qualifying aircraft parts may remain in this state (previously 175 days with no extension) before losing eligibility for a property tax exemption commonly referred to as a "freoport exemption." The resolution provides that 730 days is the maximum number of days that a governing body may permit qualifying aircraft parts to remain in this state and remain eligible for a freeport exemption, and that an extension adopted by official action under this subsection applies only to the property tax exemption by the political subdivision adopting the extension. The resolution authorizes the Legislature to provide by general law the manner by which the governing body may extend the period of time.

This amendment will be put before voters in an election to be held Nov. 5, 2013, and if adopted takes effect Jan. 1, 2014, and applies only to a tax year that begins on or after that date.

Article XVI, Section 50

SJR 18 amends subsection (k) to modify the definition of "reverse mortgage" to include that it is an extension of credit:



- for the purchase of homestead property that the borrower will occupy as a principal residence,
- that requires no payment of principal or interest until the borrower fails to timely occupy a homestead property as the borrower's principal residence within a specified period after the date the extension of credit is made that is stipulated in the written agreement creating the lien on the property if the extension of credit is used for the purchase of homestead property,
- that is not made unless the prospective borrower and the spouse of the prospective borrower attest in writing that the prospective borrower and the prospective borrower's spouse received counseling regarding the advisability and availability of reverse mortgages and other financial alternatives that was completed not earlier than the 180th day nor later than the 5th day before the date the extension of credit is closed, and
- that is not closed before the 12th day after the date the lender provides to the prospective borrower a prescribed written notice on a separate instrument, which the lender or

originator and the borrower must sign for the notice to take effect (rather than a requirement that a lender make specified disclosures).

Among other items, the prescribed written notice includes a notice that a reverse mortgage may require an elderly homeowner to forgo any previously approved deferral of collection of homestead property taxes and pay property taxes on an annual basis and includes a notice that a lender may foreclose the reverse mortgage and the homeowner could lose the home if the homeowner does not pay the taxes or other assessments on the home even if the homeowner is eligible to defer payment of property taxes.

This amendment will be put before the voters in an election to be held on Nov. 5, 2013.

Property Tax Information Services
www.window.state.tx.us
Call toll free in Texas 1-800-252-9121
In Austin, call 512-305-9999

Texas Comptroller of Public Accounts
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Texas Property Tax Law Changes 2015

Property Tax Assistance • August 2015

Property Tax Bills: 84th Texas Legislature, Regular

This publication includes highlights of recent legislation relating to property tax. The highlights are general summaries and do not reflect the exact or complete text of the legislation highlighted. Not all legislation impacting property tax is addressed. This publication does not include conforming or non-substantive changes to property tax related bills. In bills that are largely non-property tax related, only select property tax related provisions will be described. Please be advised that this information is being provided solely as an informational resource. The information provided is not intended for use in lieu of, or as a substitute for, the legislation referenced herein and should not be relied upon as such. Additionally, the information provided neither constitutes nor serves as a substitute for legal advice. Questions regarding the meaning or interpretation of any information included or referenced in this publication should, as appropriate or necessary, be directed to an attorney or other appropriate counsel.

*This session the Legislature enacted **SB 1296** which amends numerous codes, including code sections contained in this publication, to codify laws without substantive change, appropriately renumber or reletter duplicate official citations, correct enacted codes to conform the codes to the source law from which they were derived, and revise codes or parts of codes enacted during the preceding legislative session. Law changes enacted by **SB 1296** are not included in this publication. The Legislature enacted laws impacting specific special districts that impose a property tax; these bills are also not included in this publication. **HB 1905** adds Tax Code Section 11.211 to create a property tax exemption for real property leased to certain schools. This provision has no effect because a constitutional amendment authorizing the exemption was not enrolled by the 84th Legislature for voter approval and is not included in this publication.*

*Governor Greg Abbott vetoed three property tax bills: **HB 2282**, **HB 2826**, and **HB 4025**. **HB 2282** would have provided for the review of property owner evidence or argument provided before a protest hearing and would have allowed, for a limited time period, the appeal of an order of an appraisal review board located in a specified county to a justice court. **HB 2826** would have provided for a single unified project that is located in more than one but not more than three school districts to receive a tax limitation under Tax Code Chapter 313. **HB 4025** would have provided for county energy transportation reinvestment zone projects in the county, rather than in the zone.*

The following acronyms are used in this document:

ARB appraisal review board
CAD county appraisal district
DPS Texas Department of Public Safety
ERCOT Electric Reliability Council of Texas
HB House Bill
HJR House Joint Resolution
PUC Public Utility Commission of Texas
SB Senate Bill
SJR Senate Joint Resolution
TALCB Texas Appraiser Licensing and Certification Board
TDLR Texas Department of Licensing and Regulation
TEA Texas Education Agency
TJJD Texas Juvenile Justice Department
URL uniform resource locator
USPAP Uniform Standards of Professional Appraisal Practice

The Property Tax Assistance Division at the Texas Comptroller of Public Accounts provides property tax information and resources for taxpayers, local taxing entities, appraisal districts and appraisal review boards.

For more information, visit our website at comptroller.texas.gov/taxinfo/proptax or call us toll-free at 1-800-252-9121 (press 2 to access the menu, then press 1 to contact the Information Services Team). In Austin, call 512-305-9999.



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Table of Contents

Tax Code	3
Chapter 1. General Provisions	3
Chapter 5. State Administration	3
Chapter 6. Local Administration	3
Chapter 11. Taxable Property and Exemptions	4
Chapter 23. Appraisal Methods and Procedures	5
Chapter 25. Local Appraisal	7
Chapter 26. Assessment	7
Chapter 31. Collections	8
Chapter 33. Delinquency	9
Chapter 34. Tax Sales and Redemption	10
Chapter 41. Local Review	11
Chapter 41A. Appeal Through Binding Arbitration	11
Chapter 42. Judicial Review	11
Chapter 313. Texas Economic Development Act	12
Business and Commerce Code	12
Civil Practice and Remedies Code	13
Education Code	13
Estates Code	16
Family Code	16
Government Code	16
Health and Safety Code	21
Local Government Code	21
Occupations Code	24
Transportation Code	30
Utilities Code	31
Water Code	31
Texas Constitution	32



Tax Code

Chapter 1. General Provisions

Section 1.07

HB 1463 amends subsection (d) to add a notice of the cancellation of a residence homestead exemption under Tax Code Section 11.13 received by an individual who is 65 years or older to the list of notices that must be sent by certified mail.

Effective Sept. 1, 2015, and applies only to an action taken by a chief appraiser to cancel a residence homestead exemption that is received by an individual who is 65 years of age or older on or after the effective date.

HB 1464 amends subsection (d) to add notices of the cancellation of agricultural designation under Tax Code Section 23.46(f) and the cancellation of open-space appraisal under Tax Code Section 23.551(a) received by an individual who is 65 years or older to the list of notices that must be sent by certified mail.

Effective Sept. 1, 2015, and applies only to a determination by a chief appraiser that an individual 65 years of age or older is no

longer eligible to have land appraised as provided by Tax Code Chapter 23, Subchapter C or D that is made on or after the effective date.

Section 1.111

SB 1760 adds subsection (a-1) to provide that a lessee designated by a property owner as the owner's agent may, subject to the property owner's approval, designate a person to act as the lessee's agent for any purpose under the Property Tax Code for which the lessee is authorized to act on behalf of the owner in connection with the owner or the owner's property. The lessee's agent has the same authority and is subject to the same limitations as an agent designated by the property owner.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Chapter 5. State Administration

Section 5.07

SB 1760 adds subsections (d) and (e) to provide that a property tax form may be signed by means of an electronically captured handwritten signature. A property tax form is not invalid or unenforceable solely because the form is a photocopy, facsimile, or electronic copy of the original.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 5.091

SB 1760 adds this section to require the Comptroller to annually prepare a list including the total tax rate imposed by each taxing unit in this state, other than a school district, if the tax rate is reported to the Comptroller, for the year preceding the year in which the list is prepared. The tax rates must be listed in descending order. The Comptroller is required to publish the list on the Comptroller's website not later than Dec. 31st of each year.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Chapter 6. Local Administration

Section 6.41

SB 1468 amends subsection (i) to provide that the prohibition against communications with the local administrative district judge regarding the appointment of ARB members does not apply to a communication between a chief appraiser or another CAD employee or agent, an ARB member, or a member of the board of directors regarding information relating to the removal of a member of the ARB as provided in subsection (f) or relating to the number of ARB positions that require appointment or reasonable assistance by the CAD requested by the judge as provided in subsection (d-5).

The bill provides that the prohibition against communications with the local administrative district judge regarding the appointment of ARB members does not apply to a communication between a property tax consultant, a property owner, or an agent of the property owner and the CAD's taxpayer liaison officer regarding information relating to the removal of a member of the ARB as provided in subsection (f). The CAD taxpayer liaison officer is required to report the contents of the communication to the local administrative district judge.

Effective Sept. 1, 2015.



Chapter 11. Taxable Property and Exemptions

Section 11.13

SB 1 amends subsection (b) to increase the residence homestead exemption from \$15,000 to \$25,000 for school district taxes. The bill adds subsection (n-1) to prohibit the governing body of a school district, city, or county from repealing or reducing the amount of an optional percentage residence homestead exemption in effect for the 2014 tax year until Jan. 1, 2020.

Effective on the date on which the constitutional amendment proposed by SJR 1 takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year.

HB 1022 amends subsection (j)(1) to modify the definition of “residence homestead” to include those structures occupied by an owner’s surviving spouse who has a life estate in the property.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

SB 833 amends subsection (l) to provide that a residential structure does not lose its characteristic as a residence homestead when the owner temporarily stops occupying the structure if that owner does not establish a different principal residence and the absence is caused by military service inside or outside the United States. Previously, this provision only applied when the absence was caused by military service outside the United States.

Effective June 19, 2015.

Section 11.131

HB 992 amends subsection (c) to provide that the surviving spouse of a disabled veteran who would have qualified for an exemption under Tax Code Section 11.131(b) if that subsection had been in effect on the date the disabled veteran died, is entitled to an exemption from taxation of the total appraised value of the same property to which the disabled veteran’s exemption would have applied if the exemption had been authorized on the date the disabled veteran died if otherwise qualified for the exemption.

Effective Jan. 1, 2016, contingent on voter approval of HJR 75, and applies only to taxes imposed for a tax year beginning on or after the effective date.

Section 11.16

HB 275 amends subsection (a) to specify that an egg, as defined in Agriculture Code Section 132.001, is a farm product for purposes of the property tax exemption for farm products, regardless of whether the egg is packaged. The bill amends subsection (c) to add eggs to the specified farm products that are considered to be in the hands of the producer if under the ownership of the person who is financially providing for the

physical requirements of the specified farm products on Jan. 1 of the tax year.

Effective Jan. 1, 2016, and applies to taxes imposed for a tax year that begins on or after the effective date.

Section 11.23

HB 3623 adds subsection (m) to entitle the National Hispanic Institute to a property tax exemption of the real and tangible personal property it owns as long as the organization is exempt from federal income taxation under Section 501(a), Internal Revenue Code of 1986, as an organization described by Section 501(c)(3) of that code.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 11.231

HB 1905 adds subsection (a-1) to provide that the definition of “nonprofit community business organization” includes a Type A corporation governed by Local Government Code Chapter 504 and a Type B corporation governed by Local Government Code Chapter 505.

Effective Jan. 1, 2016, and applies only to taxes imposed for a tax year that begins on or after the effective date.

Section 11.26

SB 1 amends subsection (a) to require a tax official to reduce the tax ceiling of an individual who is at least 65 years of age or disabled to reflect the additional \$10,000 homestead exemption provided by the bill.

Effective on the date on which the constitutional amendment proposed by SJR 1 takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year.

Section 11.311

HB 994 renames this section “Landfill-Generated Gas Conversion Facilities” and repeals subsection (a) which provides that the exemption applies only to property that is used in the manner described by subsection (b) on Jan. 1, 2014.

The bill amends subsection (b) to provide that the exemption applies to tangible personal property, rather than real and personal property.

The bill repeals subsection (d) which provides that this section expires Dec. 31, 2015.

The bill adds subsection (e) to provide that property described by subsection (b) shall be appraised as tangible personal property for property tax purposes, regardless of whether the property is affixed to or incorporated into real property.



The bill adds subsection (f) to provide that this section may not be construed to exempt from taxation tangible personal property located on or in close proximity to a landfill that is not used in the manner prescribed by subsection (b).

Effective Jan. 1, 2016, and applies only to taxes imposed for a tax year beginning on or after the effective date.

Section 11.43

HB 706 amends subsection (c) to add the exemption under Tax Code Section 11 .27 for solar and wind-powered energy devices to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

SB 918 amends subsection (c) to add the exemption under Tax Code Section 11 .23(a) for property owned by certain nonprofit veterans' organizations to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2016, and applies only to taxes imposed for a tax year that begins on or after the effective date.

HB 3623 amends subsection (c) to add the exemption for the National Hispanic Institute under Tax Code Section 11 .23(m) to the list of exemptions that once allowed, need not be claimed in subsequent years.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

HB 1463 amends subsection (c) to provide that if a person previously allowed a homestead exemption under Tax Code Section 11 .13 is 65 years of age or older, the chief appraiser may not cancel the exemption due to the person's failure to file a new application unless the chief appraiser complies with the requirements of subsection (q) as added by the bill, if applicable.

The bill also amends subsection (h) to provide that the following requirement is subject to subsection (q) as added by the bill: If a chief appraiser determines that the property should not be exempt, the chief appraiser shall cancel the exemption and deliver written notice of the cancellation within five days after the date the exemption is cancelled.

The bill adds subsection (q) to prohibit a chief appraiser from cancelling an exemption under Tax Code Section 11 .13 that is received by an individual who is 65 years of age or older

without first providing written notice of the cancellation to the individual receiving the exemption. The notice must include a form on which the individual may indicate whether the individual is qualified to receive the exemption and a self-addressed postage prepaid envelope with instructions for returning the form to the chief appraiser. The chief appraiser shall consider the individual's response in determining whether to continue to allow the exemption.

If the chief appraiser does not receive a response on or before the 60th day after the date the notice is mailed, the chief appraiser may cancel the exemption on or after the 30th day after the expiration of the 60-day period, but only after making a reasonable effort to locate the individual and determine whether the individual is qualified to receive the exemption. A reasonable effort on the part of the chief appraiser includes sending an additional notice of cancellation by first class mail as specified or providing the additional notice in another manner that the chief appraiser determines is appropriate. The bill provides that this does not apply to an exemption under Tax Code Section 11 .13(c) or (d) for an individual 65 years of age or older that is cancelled because the chief appraiser determines that the individual receiving the exemption no longer owns the property subject to the exemption.

Effective Sept. 1, 2015, and applies only to an action taken by a chief appraiser to cancel a residence homestead exemption that is received by an individual who is 65 years of age or older on or after the effective date.

Section 11.431

SB 1760 amends subsection (b) to specify that a person is not required to apply for a property tax refund to receive a refund tied to a late homestead exemption application.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 11.48

HB 3532 amends subsection (a) and (b) to allow certain confidential information included in an exemption application (driver's license number, personal identification certificate number, or social security account number) to be released to an agent of the CAD who appraises property or performs appraisal services for the CAD.

Effective Sept. 1, 2015.

Chapter 23. Appraisal Methods and Procedures

Section 23.01

HB 2083 adds subsection (f) to provide that the selection of comparable properties and the application of appropriate adjustments for the determination of an appraised value of

property by any person under Tax Code Section 41 .43(b)(3) or 42.26(a)(3) must be based on the application of generally accepted appraisal methods and techniques. The bill provides



that adjustments must be based on recognized methods and techniques that are necessary to produce a credible opinion .

The bill adds subsection (g) to provide that, notwithstanding any other provision of this section, property owners representing themselves are entitled to offer an opinion of and present argument and evidence related to the market and appraised value or the inequality of appraisal of the owner's property.

Effective Jan. 1, 2016.

Section 23.175

SB 1985 amends subsection (a) to provide that, in some specified circumstances for purposes of appraising a real property interest in oil or gas in place, the price adjustment factor is calculated based on the United States Energy Information Administration's (EIA's) most recently published edition of the Annual Energy Outlook, rather than EIA's Early Release Overview of the Annual Energy Outlook . If on March 1 of the current calendar year the most recently published edition of the Annual Energy Outlook was published before Dec. 1 of the preceding calendar year, the bill requires the chief appraiser to use for the price adjustment factor calculations the projected current and preceding calendar year specified prices as stated in EIA's Short-Term Energy Outlook report published in January of the current calendar year .

The bill also, for purposes of calculating the price adjustment factor, replaces references to the "price of imported low-sulfur light crude oil in nominal dollars" with "spot price of West Texas Intermediate crude oil in nominal dollars per barrel" and replaces references to the "spot price of natural gas at the Henry Hub in nominal dollars" with "spot price of natural gas at the Henry Hub in nominal dollars per million British thermal units ."

Effective Jan. 1, 2016, and applies only to the appraisal for property tax purposes of a real property interest in oil or gas in place for a tax year beginning on or after the effective date.

Section 23.43

HB 1464 amends subsection (d) to provide that the application form for agricultural designation must include a space for the claimant to state the claimant's date of birth . The bill provides that the failure to provide the date of birth does not affect a claimant's right to an agricultural designation .

Effective Sept. 1, 2015.

Section 23.46

HB 1464 amends subsection (c) to provide that a determination that the land has been diverted to a nonagricultural use is made by the chief appraiser is subject to subsection (f) as added by the bill.

The bill adds subsection (f) to provide that if land designated for agricultural use is owned by an individual 65 years of age or older, before making a determination that the land has been

diverted to a nonagricultural use, the chief appraiser is required to deliver a written notice to the owner stating that the chief appraiser believes the land may have been diverted to a non-agricultural use . The notice must include a form on which the owner may indicate that the owner remains entitled to have the land designated for agricultural use and a self-addressed postage prepaid envelope with instructions for returning the form to the chief appraiser. The bill requires the chief appraiser to consider the owner's response in determining whether the land has been diverted to a nonagricultural use.

If the chief appraiser does not receive a response on or before the 60th day after the date the notice is mailed, the bill provides that the chief appraiser must make a reasonable effort to locate the owner and determine whether the owner remains entitled to have the land designated for agricultural use before determining that the land has been diverted to a nonagricultural use . A reasonable effort includes sending an additional notice by first class mail to the owner immediately after the expiration of the 60-day period as specified or providing the additional notice in another manner that the chief appraiser determines is appropriate .

Effective Sept. 1, 2015, and applies only to a determination by a chief appraiser that an individual 65 years of age or older is no longer eligible to have land appraised as provided by Tax Code Chapter 23, Subchapter C or D that is made on or after the effective date.

Section 23.54

HB 1464 amends subsection (c) to provide that the application form for open-space appraisal must include a space for the claimant to state the claimant's date of birth . The bill provides that the failure to provide the date of birth does not affect a claimant's eligibility to have the claimant's land appraised as open-space land .

The bill amends subsection (e) to provide that the authorization for a chief appraiser to require a person allowed open-space appraisal in a prior year to file a new application to confirm eligibility is subject to Tax Code Section 23 .551 as added by the bill .

Effective Sept. 1, 2015, and applies only to a determination by a chief appraiser that an individual 65 years of age or older is no longer eligible to have land appraised as provided by Tax Code Chapter 23, Subchapter C or D that is made on or after the effective date.

Section 23.55

HB 1464 amends subsection (e) to specify that the provision that a determination that a change in use of the land has occurred is made by the chief appraiser is subject to Tax Code Section 23 .551 as added by the bill .

Effective Sept. 1, 2015, and applies only to a determination by a chief appraiser that an individual 65 years of age or older is no longer eligible to have land appraised as provided by Tax Code Chapter 23, Subchapter C or D that is made on or after the effective date.



Section 23.551

HB 1464 adds this section to provide that if open-space land is owned by an individual 65 years of age or older, before making a determination that a change in use of the land has occurred, the chief appraiser is required deliver a written notice to the owner stating that the chief appraiser believes a change in use of the land may have occurred. The bill provides that the notice must include a form on which the owner may indicate that the land remains eligible to be appraised as open-space land and a self-addressed postage prepaid envelope with instructions for returning the form to the chief appraiser. The chief appraiser is required to consider the owner's response in determining whether the land remains eligible for open-space appraisal.

If the chief appraiser does not receive a response on or before the 60th day after the date the notice is mailed, the bill provides that the chief appraiser must make a reasonable effort to locate the owner and determine whether the land remains eligible for open-space appraisal before determining that a change in use of the land has occurred. A reasonable effort on the part of the chief appraiser includes sending an additional notice to the owner immediately after the expiration of the 60-day period by first class mail as specified or providing the additional notice in another manner that the chief appraiser determines is appropriate.

Effective Sept. 1, 2015, and applies only to a determination by a chief appraiser that an individual 65 years of age or older is no longer eligible to have land appraised as provided by Tax Code Chapter 23, Subchapter C or D that is made on or after the effective date.

Chapter 25. Local Appraisal

Section 25.025

HB 1311 reenacts and amends subsection (a) as amended by Chapters 996 (HB 2267) and 1028 (HB 2676), Acts of the 83rd Legislature, Regular Session, 2013, to provide that provisions relating to confidentiality of certain home address information apply to a current or former TJJD employee; a current or former juvenile probation or supervision officer certified by TJJD; and a current or former employee of a juvenile justice program or facility, as those terms are defined by Family Code Section 261.405.

Effective June 16, 2015.

Section 25.027

HB 394 renames the title of the section to "Restriction on Posting Information on Internet Website" and amends subsections (a) and (b) to provide that the prohibition on posting certain appraisal record information on the Internet applies to information that indicates the age of a property owner, including information indicating that a property owner is 65 years of age or older. The bill provides that not later than Sept. 1, 2015, the chief appraiser for each CAD is required to ensure that this information that is posted on an Internet website controlled by the CAD is removed from the website.

Effective Sept. 1, 2015.

Section 25.19

SB 1420 amends subsections (a) and (b) to require a chief appraiser to send a notice of appraised value to a property owner if an exemption or partial exemption approved for the property for the preceding year was cancelled or reduced for the current year.

The bill revises the notice of appraised value to include the kind and amount of each exemption (rather than just partial exemption) approved for the property in the current and preceding year. If an exemption or partial exemption that was approved for the preceding year was cancelled or reduced for the current year, the bill requires the notice to include the amount of the exemption or partial exemption cancelled or reduced.

Effective Jan. 1, 2016, and applies only to a notice of appraised value for a tax year beginning on or after the effective date.

Section 25.23

SB 1 adds subsection (a-1) to require a chief appraiser to prepare supplemental appraisal records that reflect a residence homestead exemption of \$25,000. This subsection applies only to the 2015 tax year and expires Dec. 31, 2016.

Effective June 15, 2015.

Chapter 26. Assessment

Section 26.04

SB 1 adds subsection (a-1) to require the assessor for a school district to determine the 2015 total taxable value of a school district's taxable property, including new property, based on a residence homestead exemption of \$25,000. This subsection expires on Dec. 31, 2016.

The bill adds subsection (c-1) to require the officer or employee designated by the governing body of a school district to calculate the effective and rollback school district tax rates for the 2015 tax year based on a residence homestead exemption of \$25,000. This subsection expires on Dec. 31, 2016.

Effective June 15, 2015.



Section 26.05

SB 1760 amends subsection (b) to provide that, for taxing units other than school districts, at least 60 percent of the members of the governing body must vote in favor to adopt a tax rate that exceeds the effective tax rate. For a school district, a vote setting a tax rate that exceeds the sum of the effective maintenance and operations tax rate and the current debt rate must be a record vote, and at least 60 percent of the members of the governing body must vote in favor of the ordinance, resolution or order.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 26.06

SB 1760 amends subsection (d) to require that a taxing unit describe the purpose for which the increased taxes will be used in a notice of tax revenue increase.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 26.08

SB 1760 amends subsection (b) to require that the school district describe the purpose for which the increased taxes will be used in a school district tax rate ratification election ballot.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

SB 1 adds subsection (q) to require that the 2015 effective maintenance and operations and rollback tax rates of a school

district be calculated based on a residence homestead exemption of \$25,000. This subsection expires on Dec. 31, 2016.

Effective June 15, 2015.

Section 26.09

SB 1 adds subsection (c-1) to require a school district assessor to calculate two 2015 tax amounts: the first based on a residence homestead exemption of \$15,000, and the second based on a residence homestead exemption of \$25,000. This subsection expires on Dec. 31, 2016.

Effective June 15, 2015.

Section 26.15

SB 1 adds subsection (h) to require a school district assessor to correct the 2015 school district tax roll to reflect the results of the election to approve the constitutional amendment proposed by **SJR 1** (which, if approved, would grant the new \$25,000 residence homestead exemption and the reduced school district tax limitation). This subsection expires on Dec. 31, 2016.

Effective June 15, 2015.

SB 1760 amends subsection (f) to provide that a property owner is not required to apply for a property tax refund to receive a refund tied to a tax roll correction that reduces a property owner's tax liability.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Chapter 31. Collections

Section 31.01

SB 1 adds subsections (d-2), (d-3), (d-4), and (d-5) to require the assessor for a school district to:

- make the computations required by this section based on a residence homestead exemption of \$25,000;
- indicate in the tax bill or separate statement that the tax bill is provisional;
- include a statement in the substantially prescribed form showing the tax amount if the Legislature had not increased the residence homestead exemption, the amount of tax savings that result from the Legislature's action, and the reduced tax amount resulting from the Legislature's action, contingent on voter approval of **SJR 1**;
- state that a supplemental tax bill equal to the contingent tax savings will be sent if **SJR 1** is not approved; and
- if the constitutional amendment is not approved by voters, follow certain specified calculation, delivery, and

delinquency procedures related to a supplemental tax bill mailed by Dec. 1, 2015 or as soon thereafter as practicable.

These subsections apply only to taxes imposed for the 2015 tax year and expire on Dec. 31, 2016.

Effective June 15, 2015. An assessor or collector for a school district is not liable for civil damages or subject to criminal prosecution for compliance in good faith with Tax Code Section 31.01, as amended; this provision expires on Dec. 31, 2018.

Section 31.02

SB 1 adds subsection (a-1) to provide that if a supplemental tax bill is mailed as provided in the bill, the taxes are due on receipt of the tax bill and are delinquent if not paid before March 1, 2016. This subsection expires on Dec. 31, 2016.

Effective June 15, 2015.



Section 31.031

HB 1933 amends subsection (a-1) to provide that the deadline for installment payments on certain homestead taxes with a delinquency date of Feb . 1 is before April 1 for the second installment, before June 1 for the third installment, and before Aug . 1 for the fourth installment . If the delinquency date is a date other than Feb . 1, the second installment must be paid before the first day of the second month after the delinquency date, the third installment must be paid before the first day of the fourth month after the delinquency date, and the fourth installment must be paid before the first day of the sixth month after the delinquency date .

The bill amends subsection (a-2) to provide that an eligible individual may pay taxes in four equal installments if the first installment is paid and the required notice is provided before the first day of the first month after the delinquency date, rather than before March 1 .

The bill amends subsection (b) to provide that an unpaid installment, rather than unpaid amount, is delinquent if the individual fails to make a payment before the applicable due date and the unpaid installment, rather than the unpaid amount, is delinquent and incurs a penalty of 6 percent and interest as provided by Tax Code Section 33 .01(c) . The penalty provided by Tax Code Section 33 .01(a) does not apply to the unpaid installment, rather than the unpaid amount .

The bill repeals subsection (d) relating to the collector extending each installment deadline by the number of months that a

delinquency date is postponed if the delinquency date for the applicable taxes is postponed to May 1 or a later date .

Effective Sept. 1, 2015, and applies only to an installment agreement entered into on or after the effective date.

Section 31.032

HB 1933 amends subsection (b) to provide that the deadline for installment payments of taxes on certain property in a disaster area with a delinquency date of Feb . 1 is before April 1 for the first installment, before June 1 for the second installment, and before Aug . 1 for the third installment . If the delinquency date is a date other than Feb . 1, the first installment must be paid before the first day of the second month after the delinquency date, the second installment must be paid before the first day of the fourth month after the delinquency date, and the third installment must be paid before the first day of the sixth month after the delinquency date .

The bill amends subsection (c) to provide that if a person fails to make a payment before the applicable date, the unpaid installment (rather than the unpaid amount) is delinquent and incurs a penalty of 6 percent and interest as provided by Tax Code Section 33 .01(c) .

The bill repeals subsection (e) relating to the collector extending each installment deadline by the number of months that a delinquency date is postponed if the delinquency date for the applicable taxes is postponed to May 1 or a later date .

Effective Sept. 1, 2015, and applies only to an installment agreement entered into on or after the effective date.

Chapter 33. Delinquency

Section 33.011

HB 1933 amends subsections (d) and (i) regarding waivers of penalty and interest to update references to Tax Code Section 33.04(c) .

Effective Sept. 1, 2015, and applies only to an installment agreement entered into on or after the effective date.

Section 33.02

HB 1933 amends subsections (a) and (b-1) and adds subsection (a-1) to specify that the provisions that require a collector, upon request, to enter an installment agreement for delinquent residence homestead taxes, apply to a residence homestead for which the property owner has been granted an exemption under Tax Code Section 11 .13 . The bill applies the requirement that these installment payments must extend for a period of at least 12 months only to a residence homestead for which the person entering into the installment agreement has been granted an exemption under Tax Code Section 11 .13, rather than to any delinquent tax installment

agreement . The bill also provides that installment agreements for delinquent taxes be paid in monthly installments, rather than equal monthly installments .

The bill adds subsection (f) to provide that the collector for a taxing unit must deliver a notice of default to a person who is in breach of an installment agreement and to any other owner of an interest in the property subject to the agreement whose name appears on the delinquent tax roll before the collector may seize and sell the property or file a suit to collect a delinquent tax subject to the agreement .

Effective Sept. 1, 2015, and applies only to an installment agreement entered into on or after the effective date.

Section 33.04

HB 1933 amends this section as amended by Chapters 935 (HB 1597) and 967 (HB 1913), Acts of the 83rd Legislature, Regular Session, 2013, to amend subsection (b) to make minor changes to the required statement on the notice of delinquency .



The bill strikes pre-existing subsection (c) relating to the collector for a taxing unit delivering a notice of delinquency to a person who is in breach of an installment agreement under Tax Code Section 33.02 and to any other owner of an interest in the property subject to the agreement whose name appears on the delinquent tax roll before the collector may seize and sell the property or file a suit to collect a delinquent tax subject to the agreement.

Effective Sept. 1, 2015, and applies only to a notice of delinquency delivered on or after the effective date.

Section 33.475

HB 2710 adds this section to provide that in a suit to collect a delinquent tax, an attorney ad litem appointed by a court to represent the interests of a defendant served with process by means of citation by publication or posting is required to submit to the court a report describing the actions taken by the attorney ad litem to locate and represent the interests of the defendant. The court may not approve the fees of the attorney ad litem until the attorney ad litem submits the required report and the court determines that the actions taken by the attorney ad litem as described in the report were sufficient to discharge the attorney's duties to the defendant.

Effective Sept. 1, 2015, and applies only to an attorney ad litem appointed to represent the interests of a defendant in a delinquent tax suit on or after the effective date.

Chapter 34. Tax Sales and Redemption

Section 34.01

SB 1452 adds subsection (a-1) and amends subsection (r) to permit a commissioners court of a county to adopt rules to govern an online auction and to authorize the officer charged with selling property to conduct a public auction using online bidding and sale. Adopted rules take effect on the 90th day after the date the rules are published in the county's real property records.

Effective May 15, 2015.

Section 34.011

HB 3951 adds this section to authorize a commissioners court to require that, to be eligible to bid at a sale of real property, a person must be registered as a bidder with the county assessor-collector before the sale begins if the commissioners court by order has adopted the provisions of this section. The county assessor-collector may adopt rules governing the registration of bidders. The county assessor-collector may require a person registering as a bidder to:

- designate the person's name and address;
- provide valid proof of identification;
- provide written proof of authority to bid on behalf of another person, if applicable;
- provide any additional information reasonably required by the county assessor-collector; and
- at least annually execute a statement on a form provided by the county assessor-collector certifying that there are no delinquent property taxes owed by the person registering as a bidder to the county or to any taxing unit having territory in the county.

The bill requires the county assessor-collector to issue a written registration statement to a person who has registered as a

bidder. A person is not eligible to bid at a sale of real property unless the county assessor-collector has issued a written registration statement to the person before the sale begins.

Effective Jan. 1, 2016, and applies only to the sale of real property under Civil Practice and Remedies Code Chapter 34, Subchapter C or Tax Code Chapter 34 on or after the effective date.

Section 34.015

HB 3951 amends subsection (p) to specify that the provisions of this section apply only to a sale of real property under Tax Code Section 34.01 that is conducted in a county with a population of 250,000 or more if the commissioners court has not by order adopted the provisions of Tax Code Section 34.011 as added by the bill.

Effective Jan. 1, 2016, and applies only to the sale of real property under Civil Practice and Remedies Code Chapter 34, Subchapter C or Tax Code Chapter 34 on or after the effective date.

Section 34.03

SB 1725 amends subsection (a) to require a court clerk to send to the attorney general notice of the deposit and amount of excess proceeds from a property tax sale (regardless of the amount) if the attorney general or a state agency represented by the attorney general is named as an *in rem* defendant in the underlying suit for seizure of the property or foreclosure of a tax lien on the property.

Effective Sept. 1, 2015, and applies to the disposition of excess proceeds of a property tax foreclosure sale paid into court regardless of the date on which the foreclosure sale occurred or the date on which the proceeds were paid into the court. If on the effective date the court clerk is retaining excess proceeds and Tax Code Section 34.03(a)(3) as added by this bill applies, the bill requires



the clerk to mail the notice as soon as practicable after the effective date. The clerk may not distribute those proceeds as provided by Tax Code Section 34.03(b) before the second anniversary of the

date the notice is mailed. A claim for the proceeds made on or before that second anniversary is considered to have been made within the period provided by Tax Code Section 34.03(b).

Chapter 41. Local Review

Section 41.45

SB 1394 amends subsection (h) to require a chief appraiser and the property owner or owner's agent, before or at the beginning of an ARB hearing, to provide each other with a copy of any material preserved on any portable device designed to maintain an electronic, magnetic, or digital reproduction of a document or image (as an alternative to a copy of any written

material) that the person intends to offer or submit to the ARB at the hearing .

The bill adds subsection (o) to require that if the chief appraiser uses audiovisual equipment at a hearing on a protest, the appraisal office provides audiovisual equipment of the same general type, kind, and character for use during the hearing by the property owner or owner's agent .

Effective Jan. 1, 2016.

Chapter 41A. Appeal Through Binding Arbitration

Section 41A.01

SB 849 amends this section to modify the value of non-residence homestead property for which, as an alternative to a district court appeal, an owner may appeal certain ARB orders through binding arbitration, to properties with an appraised or market value of \$3 million or less, rather than \$1 million or less .

Effective Sept. 1, 2015, and applies only to a request for binding arbitration under Tax Code Chapter 41A that is filed on or after the effective date.

Section 41A.03

SB 849 amends subsection (a) to modify the deposit amount required to file for binding arbitration from \$500 to specified amounts depending on whether the property qualifies as a residence homestead under Tax Code Section 11 .13 and depending on the property value as determined by the ARB order. For those properties that qualify as a residence homestead, the deposit amount is \$450 if the value of the homestead is \$500,000 or less, and \$500 if the value of the homestead is greater than \$500,000 . For those properties that do not qualify as a residence homestead, the deposit amount ranges from \$500 to \$1,050, depending on the value of the property .

Effective Sept. 1, 2015, and applies only to a request for binding arbitration under Tax Code Chapter 41A that is filed on or after the effective date.

Section 41A.05

SB 849 amends subsection (b) to modify the amount of the deposit the Comptroller may retain to cover administrative costs to \$50, rather than an amount equal to 10 percent of the deposit .

Effective Sept. 1, 2015, and applies only to a request for binding arbitration under Tax Code Chapter 41A that is filed on or after the effective date.

Section 41A.06

SB 849 amends subsection (b) to require that to initially qualify to serve as an arbitrator a person must agree to conduct an arbitration for a fee that is not more than an amount ranging from \$400 to \$1,000, depending on whether the property qualifies as a residential homestead, and depending on the appraised or market value (as applicable) of the property .

Effective Sept. 1, 2015, and applies only to a request for binding arbitration under Tax Code Chapter 41A that is filed on or after the effective date.

Chapter 42. Judicial Review

Section 42.221

SB 287 amends subsection (b) to strike the \$5 fee for filing each additional petition for district court review of an ARB

order for multicounty property related to the same property in a tax year .

Effective June 19, 2015.



Section 42.227

SB 593 adds this section to permit a property owner or CAD that is a party to an appeal to district court to submit a written request for settlement discussions to the other party. The settlement discussions may include an informal settlement conference or alternative dispute resolution. The court, on motion of either party, is required to enter orders necessary to implement this section, including an order specifying the form that the settlement discussions must take or changing the deadline for expert witness designations.

On or before the 120th day after the date the written request is delivered, each party (or their attorney) is required to attend the settlement discussions and make a good faith effort to resolve the case. If the CAD is unable for any reason to attend the settlement discussions on or before the 120th day after the date the written request is delivered, the deadline to designate experts, is set as follows (notwithstanding a deadline prescribed by the Texas Rules of Civil Procedure):

1. all experts testifying for a party seeking affirmative relief must be designated 60 days before the date of trial; and
2. all other experts must be designated 30 days before the date of trial.

If a property owner is unable for any reason to attend the settlement discussions on or before the 120th day after the date the written request is delivered, Tax Code Section

42.23(d) (regarding expert witness discovery) does not apply to the parties to the appeal.

A CAD may not request or require a property owner to waive a right under the Property Tax Code as a condition of attending a settlement discussion.

Effective June 20, 2015, and applies only to a district court appeal filed on or after the effective date.

Section 42.23

SB 1760 adds subsection (i) to permit a court to give preference to testimony, regarding excessive or unequal property appraisal, of a CAD employee who is authorized to appraise real estate under Occupations Code Section 1103.201.

Effective Jan. 1, 2020, and applies only to a tax year that begins on or after the effective date.

Section 42.43

SB 1760 amends subsection (b) to modify the interest rate on a refund to a taxpayer after a court determination that lowers the taxpayer's tax bill. The new interest rate is an annual rate of 9.5 percent, rather than 2 percent plus the prime rate but not more than 8 percent.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Chapter 313. Texas Economic Development Act

Section 313.010

HB 2712 amends this section as added by Chapter 1274 (HB 1223), Acts of the 83rd Legislature, Regular Session, 2013, to add to the entities not eligible to receive an appraised value limitation an entity that has been issued a registration number under Tax Code Section 151.3595 (Property Used in Certain

Large Data Center Projects; Temporary Sales and Use Tax Exemption) as added by this bill.

Effective June 10, 2015, and does not affect tax liability accruing before the effective date. That liability continues in effect as if the bill had not been enacted, and the former law is continued in effect for the collection of taxes due and for civil and criminal enforcement of the liability for those taxes.

Business and Commerce Code

Section 112.004

HB 2358 adds this section in new Business and Commerce Code Chapter 112, regarding facilitating business rapid response to state declared disasters, to provide that notwithstanding any other law and except as provided by Business and Commerce Code Section 112.006, an out-of-state business entity whose transaction of business in this state is limited to the performance of disaster or emergency related work during a disaster response period is not required to:

- register with the secretary of state;
- file a tax report with or pay taxes or fees to this state or a political subdivision of this state;

- pay a property tax or use tax on equipment that is brought into the state by the entity, used only by the entity to perform disaster or emergency related work during the disaster response period, and removed from the state by the entity following the disaster response period;
- comply with state or local business licensing or registration requirements; or,
- comply with state or local occupational licensing requirements or related fees.

Effective June 16, 2015.



Section 112.006

HB 2358 adds this section to provide that an out-of-state business entity whose transaction of business in this state is limited to the performance of disaster or emergency related work during a disaster response period is subject to a

transaction tax or fee, including a motor fuels tax, sales or use tax, hotel occupancy tax, and the tax imposed on the rental of a motor vehicle, unless the entity is otherwise exempt from the tax or fee.

Effective June 16, 2015.

Civil Practice and Remedies Code

Sections 34.0445

HB 3951 amends subsections (a) and (c) to provide that an officer conducting a sale of real property in a county in which Tax Code Section 34.011 has been adopted may not execute or deliver a deed to the purchaser unless the purchaser exhibits to the officer the written registration statement issued under Tax Code Section 34.011 showing that the purchaser was a registered bidder at the sale and the deed itself recites that the purchaser exhibited the registration statement to the officer.

Effective Jan. 1, 2016, and applies only to the sale of real property under Civil Practice and Remedies Code Chapter 34, Subchapter C or Tax Code Chapter 34 on or after the effective date.

Section 101.064

SB 450 amends this section of the Texas Tort Claims Act to limit the liability of all political subdivisions (not just cities) for tort claims arising out of land the political subdivisions acquire under certain circumstances. The bill revises the section heading to include not only “Land Acquired Under

Foreclosure of Lien” but also “by Conveyance in Satisfaction of Certain Tax Debt.”

The bill amends subsections (a) and (b) to provide that a claim cannot be brought under Civil Practice and Remedies Code Chapter 101, the Texas Tort Claims Act, against a political subdivision of this state (not just a city) that acquires land under Tax Code Section 31.061 (conveyance by deed for payment of taxes) or as a result of the foreclosure of a lien held by the political subdivision, including land that was bid off to the political subdivision under Tax Code Section 34.01. This limitation on the political subdivision’s liability arises after the date the land was acquired and ends the date the land is sold, conveyed, or exchanged by the political subdivision; it covers an action committed on the land by any person, other than an agent or employee of the political subdivision; it includes any building or improvement on the land the political subdivision acquired.

Effective Sept. 1, 2015, and applies only to a claim that arises on or after the effective date, regardless of whether the land was acquired by a political subdivision before, on, or after the effective date.

Education Code

Section 41.0011

SB 1 adds this section to require that, notwithstanding any other provision of Education Code Chapter 41, in computing a school district’s wealth per student for the 2015-2016 school year, a school district’s taxable property value determined by the Comptroller is computed as if the increase in the homestead exemption to \$25,000 and the additional limitation on tax increases proposed in **SJR 1** had been in effect for the 2014 tax year.

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires Sept. 1, 2016.*

Section 41.004

SB 1 adds subsection (a-1) to provide that, in the event that **SJR 1** is approved by the voters, the Commissioner of Education shall review the wealth per student of districts in

the state and revise as necessary the notices required under subsection (a) of this section for the 2015-2016 school year as soon as practicable after receiving revised property values.

The bill adds subsection (b-1) which applies only to a district that has not previously held an election under Education Code Chapter 41 and is not eligible to reduce the district’s wealth per student in the manner authorized by Education Code Section 41.0041. Notwithstanding subsection (b), a district that enters into an agreement to exercise an option to reduce the district’s wealth per student under Education Code Section 41.003(3), (4), or (5), for the 2015-2016 school year may request and, as provided by Education Code Section 41.0042(a), receive approval from the Commissioner of Education to delay the date of the election otherwise required to be ordered before Sept. 1.

The bill adds subsection (c-1) to provide that, notwithstanding subsection (c), a district that receives approval from the Commissioner of Education to delay an election as provided by subsection (b-1) may adopt a tax rate for the 2015 tax



year before the Commissioner of Education certifies that the district has achieved the equalized wealth level .

Effective June 15, 2015 and expires Sept. 1, 2016.

Section 41.0042

SB 1 adds this section to require the Commissioner of Education to approve a school district's request under Education Code Section 41 .004(b-1) to delay the date of the election required under Education Code Chapter 41 if the Commissioner of Education determines that the district would not have a wealth per student that exceeds the equalized wealth level in the event that **SJR 1** is approved by the voters. The bill requires the Commissioner of Education to set a date by which each school district that receives approval under this section must order the election . The bill provides that, not later than the 2016-2017 school year, the Commissioner of Education shall order detachment and annexation of property under Education Code Chapter 41, Subchapter G (Detachment and Annexation by Commissioner) or consolidation under Education Code Chapter 41, Subchapter H (Consolidation by Commissioner) as necessary to achieve the equalized wealth level for a district that receives approval under this section and subsequently fails to hold the election or does not receive voter approval at the election.

Effective June 15, 2015 and expires Sept. 1, 2017.

Section 41.0121

SB 1 adds this section to provide that, for an election under Education Code Chapter 41 that occurs during the 2015-2016 school year, Education Code Section 41 .012, regarding election dates, and Election Code Section 41.001, regarding uniform election dates, do not apply to a school district that receives approval of a delayed election request under Education Code Section 41 .0042. The school district is required to hold the election on a Tuesday or Saturday on or before a date specified by the Commissioner of Education.

Effective June 15, 2015 and expires on Sept. 1, 2016.

Section 41.094

SB 1 adds subsection (a-1) to require a school district that receives approval of a delayed election request under Education Code Section 41 .0042 to pay for credits purchased in equal monthly payments as determined by the Commissioner of Education beginning March 15, 2016, and ending Aug. 15, 2016 .

Effective June 15, 2015 and expires on Sept. 1, 2016.

Section 41.0981

SB 1 adds this section to provide that notwithstanding Education Code Section 41.098, a school district that receives approval of a request for a delayed election under Education

Code Section 41 .0042 may receive the early agreement credit described under Education Code Section 41 .098 for the 2015-2016 school year if the district orders the election and obtains voter approval not later than the date specified by the Commissioner of Education .

Effective June 15, 2015 and expires on Sept. 1, 2016.

Section 41.208

SB 1 adds subsection (a-1) to require the Commissioner of Education to order any detachments and annexations of property as soon as practicable after the canvass of the votes on **SJR 1** .

Effective June 15, 2015 and expires on Sept. 1, 2016.

Section 42.2518

SB 1 adds this section to provide that, for the 2015-2016 and 2016-2017 school years, a school district is entitled to additional state aid to the extent that state and local revenue is less than the state and local revenue that would have been available to the school district if the increase in the residence homestead exemption and additional limitation on tax increases had not occurred . The state aid calculation under this section is based on the lesser of the school district's currently adopted maintenance and operations tax rate or the maintenance and operations tax rate adopted for the 2014 tax year . Revenue from maintenance and operations taxes levied to pay the costs of certain lease-purchase agreements is included in the state aid calculation . The Commissioner of Education is required to compute the amount of additional state aid for each school district using information from the Comptroller and the Commissioner of Education's determination of the amount is final and may not be appealed.

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires on Aug. 31, 2017.*

SB 1 adds this section to provide that beginning with the 2017-2018 school year, a school district is entitled to additional state aid to the extent that state and local revenue is less than the state and local revenue that would have been available to the school district if the increase in the residence homestead exemption and additional limitation on tax increases had not occurred, excluding any state aid that would have been provided under former Education Code Section 42 .2516 . The state aid calculation under this section is based on the lesser of the school district's currently adopted maintenance and operations tax rate or the maintenance and operations tax rate adopted for the 2014 tax year . Revenue from maintenance and operations taxes levied to pay the costs of certain lease-purchase agreements is included in the state aid calculation . The Commissioner of Education is required to compute the amount of additional state aid for each school



district using information from the Comptroller and the Commissioner of Education's determination of the amount is final and may not be appealed .

Effective Sept. 1, 2017.

Section 42.252

SB 1 adds subsection (e) to provide that in computing each school district's local share of program cost for the 2015-2016 school year, a school district's taxable value of property under Government Code Chapter 403, Subchapter M, is determined as if the increase in the residence homestead exemption and additional limitation on tax increases, as proposed in **SJR 1**, had been in effect for the 2014 tax year .

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires on Sept. 1, 2016.*

Section 42.302

SB 1 adds subsection (g) to provide that in computing a school district's enrichment tax rate ("DTR") and local revenue ("LR") for the 2015-2016 school year, a school district's taxable value of property under Government Code Chapter 403, Subchapter M, is determined as if the increase in the residence homestead exemption and additional limitation on tax increases, as proposed in **SJR 1**, had been in effect for the 2014 tax year .

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires on Sept. 1, 2016.*

Section 46.003

SB 1 adds subsection (i) to require that in computing a school district's bond tax rate ("BTR") and taxable value of property ("DPV") for the 2015-2016 school year, a school district's taxable value of property under Government Code Chapter 403, Subchapter M, is determined as if the increase in the residence homestead exemption and additional limitation on tax increases, as proposed in **SJR 1**, had been in effect for the 2014 tax year .

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires on Sept. 1, 2016.*

Section 46.032

SB 1 adds subsection (d) to provide that in computing a school district's existing debt tax rate ("EDTR") and taxable value of property ("DPV") for the 2015-2016 school year, a school district's taxable value of property under Government

Code Chapter 403, Subchapter M, is determined as if the increase in the residence homestead exemption and additional limitation on tax increases, as proposed in **SJR 1**, had been in effect for the 2014 tax year .

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not approved by the voters, has no effect. Applies beginning with the 2015 tax year and expires on Sept. 1, 2016.*

Section 46.071, Subchapter D

SB 1 adds this subchapter titled "State Aid for Homestead Exemption and Limitation on Tax Increases" to provide in subsection (a) of this section that, beginning with the 2015-2016 school year, a school district is entitled to additional state aid to the extent that state and local revenue used to service eligible debt is less than the state and local revenue that would have been available to the district under Education Code Chapter 46 as it existed on Sept . 1, 2015 if the increase in the residence homestead exemption and additional limitation on tax increases proposed in **SJR 1** had not occurred .

The bill adds subsection (b) to provide that subject to subsections (c) through (e), additional state aid under this section is equal to the amount by which the loss of local interest and sinking revenue for debt service attributable to the increase in the residence homestead exemption and additional limitation on tax increases proposed in **SJR 1** is not offset by a gain in state aid under Education Code Chapter 46 .

The bill adds subsection (c) to provide that for purposes of determining state aid under this section, local interest and sinking revenue for debt service is limited to revenue required to service debt eligible under Education Code Chapter 46 as of Sept . 1, 2015 (including refunding of that debt), subject to Education Code Section 46 .061 . The limit on state assistance under Education Code Section 46 .034(a) does not apply for the purpose of determining state aid under this section .

The bill adds subsection (d) to provide that, if the amount required to pay debt service eligible under this section is less than the sum of state and local assistance provided under Education Code Chapter 46 (including the amount of additional aid provided under this section), a school district may not receive state aid under this section in excess of the amount that, when added to the school district's local interest and sinking revenue for debt service for the school year, and state aid under Education Code Chapter 46, Subchapters A and B (Instructional Facilities Allotment, and Assistance with Payment of Existing Debt, respectively), would equal the amount required to pay the school district's eligible debt service .

The bill adds subsection (e) to provide that the Commissioner of Education, using information from the Comptroller and other information as necessary, is required to compute the amount of additional state aid to which a school district



is entitled under this section and the Commissioner of Education's determination is final and may not be appealed.

*Effective on the date on which the constitutional amendment proposed by **SJR 1** takes effect, and if that amendment is not*

approved by the voters, has no effect. Applies beginning with the 2015 tax year.

Estates Code

Section 114.101

SB 462 adds a new chapter to the Estates Code, Chapter 114 (Transfer on Death Deed), that may be cited as the "Texas Real Property Transfer on Death Act." The bill includes this section to provide that, during a transferor's life, a transfer on death deed does not:

- affect an interest or right of the transferor or any other owner, including the right to transfer or encumber the real property that is the subject of the deed; homestead rights in the property, if applicable; and property tax exemptions, including exemptions for residence homestead, persons 65 years of age or older, persons with disabilities, and veterans;
- affect an interest or right of a transferee of the real property that is the subject of the deed, even if the transferee has actual or constructive notice of the deed;

- affect an interest or right of a secured or unsecured creditor or future creditor of the transferor, even if the creditor has actual or constructive notice of the deed;
- affect the transferor's or designated beneficiary's eligibility for any form of public assistance, subject to applicable federal law;
- constitute a transfer triggering a "due on sale" or similar clause;
- invoke statutory real estate notice or disclosure requirements;
- create a legal or equitable interest in favor of the designated beneficiary; or,
- subject the real property to claims or process of a creditor of the designated beneficiary.

Effective Sept. 1, 2015.

Family Code

Sections 2.601 and 2.602, Subchapter G

SB 2065 adds this new subchapter to the Family Code titled "Freedom of Religion with Respect to Recognizing or Performing Certain Marriages." The bill provides under Family Code Section 2.601 that a religious organization, an organization supervised or controlled by or in connection with a religious organization, an individual employed by a religious organization while acting in the scope of that employment, or a clergy or minister may not be required to solemnize any marriage or provide services, accommodations, facilities, goods, or privileges for a purpose related to the solemnization, formation, or celebration of any marriage if

the action would cause the organization or individual to violate a sincerely held religious belief. The bill provides under Family Code Section 2.602 that a refusal to provide services, accommodations, facilities, goods, or privileges under Family Code Section 2.601 is not the basis for a civil or criminal cause of action or any other action by this state or a political subdivision to penalize or withhold benefits or privileges, including tax exemptions or governmental contracts, grants, or licenses, from any protected organization or individual.

Effective June 11, 2015.

Government Code

Section 403.014

HB 1261 adds subsection (a-1) to require the Comptroller, in preparing the report under subsection (a), regarding a required report on the effect of certain exemptions and other tax preferences, to use available statistical data to estimate the effect of an exemption, discount, exclusion, special valuation, special accounting treatment, special rate, or special method of reporting relating to a tax, if actual data is not available.

If the report states that the effect of a particular tax preference cannot be determined, the Comptroller is required to include in the report a complete explanation of why the Comptroller reached that conclusion.

Effective Sept. 1, 2015.

Section 403.302

SB 1 and **HB 2293** amend subsection (j) to require the Comptroller to certify the final taxable value for each school



district, appropriately adjusted to give effect to certain provisions of the Education Code related to school funding, to the Commissioner of Education as provided by the terms of a memorandum of understanding entered into between the Comptroller, the Legislative Budget Board, and the Commissioner of Education. The bill strikes provisions specifying the calculation of several final school district taxable values.

The bill repeals subsection (k), related to the requirement that, for the purposes of Education Code Section 42.2522, the Comptroller certify to the Commissioner of Education final taxable values for each school district calculated in a specified manner.

Effective on the date on which the constitutional amendment proposed by SJR 1 takes effect, and if that amendment is not approved by the voters, has no effect; applies beginning with the 2015 tax year (SB 1). Effective Jan. 1, 2016, and applies only to a certification made by the Comptroller of the adjusted taxable value for a school district to the Commissioner of Education on or after the effective date (HB 2293).

Section 551.001

SB 679 amends this section to modify the definition of “governmental body” for purposes of Government Code Chapter 551 (Open Meetings) to include a joint airport board created under Transportation Code Section 22.074.

Effective May 23, 2015, and applies only to notice that is required to be posted on or after the effective date.

Section 551.0501

SB 679 adds this section to require a joint airport board created under Transportation Code Section 22.074 to post notice of each meeting on a physical or electronic bulletin board, as defined, at a place convenient to the public in the board’s administrative offices.

Effective May 23, 2015, and applies only to notice that is required to be posted on or after the effective date.

Section 551.053

HB 3357 amends subsection (a) and (c) to provide that the governing body of a water district or other district or political subdivision that extends into four or more counties shall, in addition to other notice requirements, either post the required notice of each meeting on the district’s or political subdivision’s Internet website or provide notice of each meeting to the county clerk of the county in which the administrative office of the district or political subdivision is located (which the county clerk shall post on a bulletin board at a place convenient to the public in the county courthouse).

Effective Sept. 1, 2015, and applies only to notice for a meeting held on or after the effective date.

Section 551.054

HB 3357 amends subsection (a) and (c) to provide that the governing body of a water district or other district or political subdivision that extends into fewer than four counties shall post the required notice of each meeting on the district’s or political subdivision’s Internet website, as an alternative to providing notice of each meeting to the county clerk of each county in which the district or political subdivision is located (and which each county clerk shall post on a bulletin board at a place convenient to the public in the county courthouse).

Effective Sept. 1, 2015, and applies only to notice for a meeting held on or after the effective date.

Section 551.056

SB 679 renames the title of the section to “Additional Posting Requirements for Certain Municipalities, Counties, School Districts, Junior College Districts, Development Corporations, Authorities, and Joint Boards” and amends subsection (b) to add to the list of governmental bodies and economic development corporations which must concurrently post notice of a meeting on an Internet website (in addition to the other required posting location), a joint airport board created under Transportation Code Section 22.074.

Effective May 23, 2015, and applies only to notice that is required to be posted on or after the effective date.

Section 551.121

SB 27 amends subsection (f) to require that each part of a telephone conference call meeting of a governing board of an institution of higher education, the Board for Lease of University Lands, or the Texas Higher Education Coordinating Board that is required to be open to the public be broadcast over the Internet in the manner prescribed by Government Code Section 551.128 and made available to the public in an online archive located on the Internet website of the entity holding the meeting.

Effective Sept. 1, 2015, and applies only to a meeting for which notice is posted under Government Code Section 551.043 on or after the effective date.

Section 551.128

HB 283 amends subsection (b) to include certain exceptions to the authority of a governmental body to broadcast an open meeting over the Internet. The bill adds subsection (b-1) which requires the following governmental bodies to make a video and audio recording of reasonable quality of each regularly scheduled open meeting (not including work sessions or special called meetings) and make available an archived copy of these recordings on the Internet:

- a transit authority or department subject to Transportation Code Chapters 451, 452, 453, or 460;



- an elected school district board of trustees for a school district that has a student enrollment of 10,000 or more;
- an elected governing body of a home-rule municipality that has a population of 50,000 or more; and,
- a county commissioners court for a county that has a population of 125,000 or more.

The bill adds subsections (b-2) through (b-4) and amends subsection (c) to specify the Internet availability and maintenance requirements of these archived recordings of meetings of the governmental bodies described in subsection (b-1). The bill adds subsection (b-5) to provide for an exemption if the governmental body's failure to make the required recording available is the result of a catastrophe, as defined, or a technical breakdown. Following a catastrophe or breakdown, the bill provides that a governmental body must make all reasonable efforts to make the required recording available in a timely manner.

The bill adds subsection (b-6) to authorize these governmental bodies to broadcast a regularly scheduled open meeting of the body on television.

Effective Jan. 1, 2016, and applies only to an open meeting held on or after the effective date.

Section 552.1081

SB 1697 adds this section to provide that information is excepted from the requirements of Government Code Section 552.021 if it contains identifying information under Code of Criminal Procedure Article 43.14 including that of any person who participates in an execution procedure, including a person who uses, supplies, or administers a substance during the execution, and any person or entity that manufactures, transports, tests, procures, compounds, prescribes, dispenses, or provides a substance or supplies used in an execution.

Effective Sept. 1, 2015, and applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.114

HB 4046 amends this section to provide that information in a student record, as defined, at an educational institution funded wholly or partly by state revenue is confidential and that this does not prohibit the disclosure or provision of information included in an education record if the disclosure or provision is authorized by 20 U.S.C. Section 1232g or other federal law.

The bill adds subsection (d) to authorize an educational institution to redact information covered under subsection (b) from information disclosed under Government Code Section 552.021 without requesting a decision from the attorney general, except as provided by subsection (e). The bill adds subsection (e) to provide that if an applicant for admission to an educational institution or a parent or legal guardian of a minor applicant

requests information in the applicant's record, the educational institution is required to disclose any information that is related to the applicant's application for admission and that was provided to the educational institution by the applicant.

Effective Sept. 1, 2015.

Section 552.115

SB 1485 amends subsection (a) to provide an exception to the provision that a death record is public information and available to the public on and after the 25th anniversary of the date of death. The exception is that if a decedent is unidentified, the death record maintained by the vital statistics unit of the Department of State Health Services or a local registration official is public information and available to the public on and after the first anniversary of the date of death. The bill also replaces references to the "bureau of vital statistics of the Texas Department of Health" with the "vital statistics unit of the Department of State Health Services."

Effective June 1, 2015.

Section 552.117

HB 1311 amends subsection (a) to modify exceptions to the requirements of Government Code Section 552.021 for certain information related to employees of listed entities (home address, home telephone number, emergency contact information, or social security number or information that reveals whether the person has family members) to specify that the exception applies to current and former employees who work for TJJD, as juvenile probation or supervision officers certified by TJJD, or for a juvenile justice program or facility. The exceptions apply to these current or former employees regardless of whether the current or former employee complies with Government Code Section 552.024 or 552.1175.

Effective June 16, 2015.

HB 2152 amends subsection (a) to add as an exception to the requirements of Government Code Section 552.021, certain information that relates to a current or former member of the Texas military forces, as that term is defined by Government Code Section 437.001 (home address, home telephone number, emergency contact information, or social security number or information that reveals whether the person has family members).

Effective Sept. 1, 2015, and applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.1175

HB 1311 reenacts and amends this section as amended by Chapters 937 (HB 1632) and 1033 (HB 2733), Acts of the 83rd Legislature, Regular Session, 2013, to provide that this section relating to specified individuals' option to notify a



governmental body that the individual chooses to restrict public access and make confidential certain information applies to current and former employees, rather than just employees, of a juvenile justice program or facility and to current and former employees, rather than just employees, who are juvenile probation and detention officers certified by TJJD . The information that the individual may choose to restrict from public access includes home address, home telephone number, emergency contact information, date of birth, or social security number of an individual or information that reveals whether the individual has family members .

Effective June 16, 2015.

Section 552.118

SB 195 amends this section relating to the confidentiality of official prescription program information to replace references of “director of the Department of Public Safety” with “Texas State Board of Pharmacy.”

Effective Sept. 1, 2016.

Section 552.142

HB 2286 renames the section title to “Exception: Confidentiality of Records of Certain Criminal History Information” and amends subsection (a) to add to the information that is excepted from the requirements of Government Code Section 552 .021 if an order of nondisclosure with respect to the information has been issued under Government Code Section 411 .081(d-1) relating to a person who is convicted under Penal Code Article 43 .02 relating to prostitution . The bill amends subsection (b) to allow a person who is the subject of this information to deny the occurrence of the criminal proceedings, rather than the arrest and prosecution, to which the information relates except as provided .

Effective Sept. 1, 2015, and applies to a person whose conviction for an offense under Penal Code Section 43.02 is set aside under Code of Criminal Procedure, Article 42.12, Section 20(a), on or after the effective date, regardless of when the person committed the offense for which the person was convicted. This provision takes effect only if SB 1902 does not become law; if that bill becomes law, this provision has no effect.

HB 2286 amends subsection (b) to allow a person who is the subject of information for which an order of nondisclosure has been issued to deny the occurrence of the criminal proceedings, rather than the arrest and prosecution, to which the information relates except as provided .

Effective Sept. 1, 2015, and applies to a person whose conviction for an offense under Penal Code Section 43.02 is set aside under Code of Criminal Procedure, Article 42.12, Section 20(a), on or after the effective date, regardless of when the person committed the offense for which the person was convicted. This provision

takes effect only if SB 1902 becomes law; if that bill does not become law, this provision has no effect.

SB 1902 renames the section title to “Exception: Confidentiality of Records Subject to Order of Nondisclosure” and amends subsection (a) to specify the information that is excepted from the requirements of Government Code Section 552.021 if an order of nondisclosure of criminal history record information with respect to the information has been issued under Government Code Chapter 411, Subchapter E-1 .

Effective Sept. 1, 2015, and applies only to the issuance of an order of nondisclosure of criminal history record information for an offense committed on or after the effective date. An offense is committed before the effective date if any element of the offense occurred before that date.

Section 552.1425

HB 2286 amends subsection (a) to add to the types of criminal history record information that a private entity may not compile or disseminate for compensation information with respect to which the entity has received notice that an order of nondisclosure has been issued under Government Code Section 411 .081(d-1) relating to a person who is convicted under Penal Code Article 43 .02 relating to prostitution .

Effective Sept. 1, 2015, and applies to a person whose conviction for an offense under Penal Code Section 43.02 is set aside under Code of Criminal Procedure, Article 42.12, Section 20(a), on or after the effective date, regardless of when the person committed the offense for which the person was convicted. This provision takes effect only if SB 1902 does not become law; if that bill becomes law, this provision has no effect.

SB 1902 amends subsection (a) to modify the types of criminal history record information that a private entity may not compile or disseminate for compensation to include information with respect to which the entity has received notice that an order of nondisclosure of criminal history record information has been issued under Government Code Chapter 411, Subchapter E-1 .

Effective Sept. 1, 2015, and applies only to the issuance of an order of nondisclosure of criminal history record information for an offense committed on or after the effective date. An offense is committed before the effective date if any element of the offense occurred before that date.

Section 552.155

SB 46 adds this section to provide that an interior photograph taken by a chief appraiser or the chief appraiser’s representative for property tax appraisal purposes is confidential and excepted from disclosure under Government Code Section 552 .021 . These photographs must be disclosed to a requestor who had an ownership interest in the property improvement



shown in the photograph on the date the photograph was taken and, if relevant, may be used as evidence in and provided to the parties to a property tax protest or appeal . A photograph used as evidence remains confidential in the possession of the person to whom it is disclosed, and may not be disclosed or used for any other purpose .

The bill also provides that, notwithstanding any other law, interior photographs may be used to ascertain the location of equipment used to produce or transmit oil and gas for purposes of taxation if that equipment is located on Jan. 1 in the CAD for the preceding 365 consecutive days.

Effective Sept. 1, 2015.

Section 552.156

HB 1832 adds this section to provide that, except as otherwise provided by this section, a state agency's continuity of operations plan that outlines procedures to keep the agency operational in case of disruptions to production, finance, administration, or other essential operations is excepted from disclosure under Government Code Chapter 552 . All records written, produced, collected, assembled, or maintained as part of the development or review of the plan are excepted from disclosure.

The forms, standards, and other instructional, informational, or planning materials adopted by the State Office of Risk Management to provide guidance or assistance to a state agency in developing a continuity of operations plan are public information subject to disclosure . The bill authorizes a governmental body to disclose or make available information that is confidential under this section to another governmental body or a federal agency and provides that this disclosure does not waive or affect that information's confidentiality.

Effective June 19, 2015.

Section 552.221

HB 685 adds subsections (b-1) and (b-2) to provide that, in addition to the prescribed methods of production, a public information officer complies with public information request requirements by referring a requestor to an exact Internet location or URL address on a website maintained by the political subdivision and accessible to the public if the requested information is identifiable and readily available on that website. If the person requesting the information prefers a manner other than access through the URL, the bill provides that a political subdivision must supply the information in the manner required by subsection (b).

If a public information officer for a political subdivision provides by email an Internet location or URL address, the email must contain a statement in a conspicuous font clearly indicating that the requestor may nonetheless access the

requested information by inspection or duplication or by receipt through United States mail .

Effective Sept. 1, 2015, and applies only to a request for information that is received by a governmental body or an officer for public information on or after the effective date.

Section 552.222

HB 2134 amends subsection (f) to provide that the provision that a public information request is not considered withdrawn unless a written request for clarification is sent by certified mail is subject to an exception provided by subsection (g) as added by the bill .

The bill adds subsection (g) to provide that a request for public information may be considered withdrawn under subsection (d) if the public information request was sent by electronic mail; a request for clarification or discussion or a written request for additional information was sent by electronic mail to the same electronic mail address from which the original request was sent or to another electronic mail address provided by the requestor; and the governmental body, officer for public information, or agent, as applicable, does not receive from the requestor a written response or response by electronic mail within the period described by subsection (d).

Effective Sept. 1, 2015, and applies only to a request for information that is received by a governmental body, an officer for public information, or an agent on or after the effective date.

SB 46 amends subsection (a) and adds subsection (c-1) to provide that, if a CAD photograph of an interior improvement (described by Government Code Section 552.155 as added by this bill) is requested, a public information officer or the officer's agent may require the requestor to provide additional information sufficient for the officer or agent to determine whether the requestor is eligible to receive the information under Government Code Section 552.155(b) .

Effective Sept. 1, 2015.

Section 1201.0245

HB 114 adds this section to prohibit a county, municipality, special district, school district, junior college district, or other political subdivision from issuing capital appreciation bonds that are secured by property taxes unless the bonds have a scheduled maturity date that is not later than 20 years after the date of issuance and the governing body of the political subdivision has undertaken the following:

- received a written estimate of the cost of the issuance;
- determined in writing whether any personal or financial relationship exists between the members of the governing body and any financial advisor, bond counsel, bond underwriter, or other professional associated with the bond issuance; and



- posts prominently on the political subdivision's website and enters in the minutes specified information regarding the proposed bonds and current outstanding bonded indebtedness .

The governing body that makes a determination that a personal or financial relationship exists between a governing body member and specified parties is required to submit the determination to the Texas Ethics Commission . A governing body is required to regularly update the debt information posted on the political subdivision's website to ensure that the information is current and accurate .

The bill prohibits capital appreciation bond proceeds from being used to purchase the following items (unless an item has an expected useful life, determined based on the depreciable life of the asset under the Internal Revenue Code of 1986, that exceeds the bond's maturity date): items more regularly considered maintenance items or transportation-related items .

Capital appreciation bond proceeds unspent after completion of the intended project may be used only for a use identified on the political subdivision's website, unless another use is

approved by the voters of the political subdivision at an election held for that purpose .

The bill provides that the total amount of capital appreciation bonds may not exceed 25 percent of the political subdivision's total outstanding bonded indebtedness at the time of the issuance (including principal and interest to be paid) .

Except as provided, a political subdivision may not extend the maturity date of an issued capital appreciation bond, including through refunding the bond . The bill allows a political subdivision to extend the maturity date only if: the extension will decrease the total amount of projected principal and interest; or the political subdivision is a school district and the maximum legally allowable tax rate for indebtedness has been adopted and TEA certifies in writing that the solvency of the permanent school fund's bond guarantee program would be threatened without the extension . This section does not apply to the issuance of refunding bonds under Government Code Chapter 1207 or capital appreciation bonds for the purpose of financing transportation projects .

Effective Sept. 1, 2015, and does not affect the validity of capital appreciation bonds issued before the effective date.

Health and Safety Code

Section 775.0821

HB 2257 amends subsection (a) to provide that this section relating to audit alternatives for emergency services districts in less populous counties applies only to those districts that, among other requirements, did not have any outstanding bonds secured by property taxes, rather than just outstanding bonds, or any outstanding liabilities secured by property taxes,

rather than just outstanding liabilities, having a term of more than one year during the previous fiscal year .

The bill adds subsection (e) to require an emergency services district that files compiled financial statements in accordance with subsection (b) and that maintains an Internet website to post on the website the compiled financial statements for the most recent three years .

Effective Sept. 1, 2015.

Local Government Code

Section 140.008

HB 1378 adds this section to require, except as provided, political subdivisions to annually report specified financial information, including information on authorized and outstanding debt obligations secured by property taxes . As an alternative to providing an annual report under subsection (f), a political subdivision may report this information to the Comptroller, as specified, and this information must be posted on the Comptroller's website . The Comptroller is required to adopt rules as provided .

Effective Jan. 1, 2016, and applies only to a fiscal year ending on or after the effective date.

Section 140.010

SB 1760 amends subsections (e) and (f) to require that a county or city describe the purpose for a tax rate increase in a notice of a proposed property tax rate that exceeds the lower of the effective tax rate or the rollback tax rate . A city and county proposed property tax rate notice must be provided in one of the specified methods and by posting it on an Internet website not later than the later of Sept . 1 or the 30th day after the first date that the taxing unit has received each applicable certified appraisal roll, rather than not later than Sept . 1 .

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.



HB 1953 amends subsection (f) to require a county or city to provide the notice required by subsection (d) or (e) (both related to proposed property tax rates), as applicable, by publication or mail, as specified, and by posting on its Internet website not later than the later of Sept. 1 or the 30th day after the first date that the taxing unit has received each applicable certified appraisal roll, rather than not later than Sept. 1.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.

Section 140.011

HB 7 adds this section to entitle qualified cities and counties to a disabled veteran assistance payment from the state to ensure that the cost of providing property tax relief to disabled veterans is shared equitably among the residents of this state. This section applies to qualified cities adjacent to a United States military installation and qualified counties in which a United States military installation is wholly or partly located.

A city or county is qualified for a fiscal year for the payment if the amount of lost property tax revenue for that fiscal year is equal to or greater than 2 percent of the local government's general fund revenue for that fiscal year.

The amount of lost property tax revenue for a city or county for a fiscal year is calculated by multiplying the property tax rate adopted under Tax Code Section 26.05 for the tax year in which the fiscal year begins by the total appraised value of all property located in the local government that is granted an exemption under Tax Code Section 11.131 for that tax year.

The amount of a disabled veteran assistance payment is calculated by subtracting from the lost property tax revenue for that fiscal year an amount equal to 1 percent of the general fund revenue for that fiscal year.

Not later than April 1 of the first year following the end of a fiscal year for which a qualified city or county is entitled to a disabled veteran assistance payment, the city or county may submit an application to the Comptroller to receive payment for that fiscal year. The bill requires the application be made on a form prescribed by the Comptroller. The Comptroller may require the city or county to submit an independent audit otherwise required by law to be prepared for the city or county for that fiscal year. A qualified city or county that does not submit an application to the Comptroller by the April 1 deadline is not entitled to a payment for the fiscal year for which the deadline applies.

The bill requires the Comptroller to review each application to determine whether the city or county applying is entitled to a disabled veteran assistance payment. If the Comptroller determines that the city or county is entitled to the payment, the Comptroller is required to remit the payment from available funds not later than the 30th day after the application date. The Comptroller is required to transfer funds to a newly created account in the state treasury for the purpose of reimbursement.

The Comptroller is required to adopt rules necessary to implement this section.

Effective Sept. 1, 2015. As soon as practicable, but not later than Dec. 1, 2015, the Comptroller is required to develop the disabled veteran assistance payment form required by the bill, Local Government Code Section 140.011. A city or county that is a qualified local government, as that term is defined by Local Government Code Section 140.011, for a fiscal year that began in the 2014 tax year is eligible to apply for a disabled veteran assistance payment for that fiscal year.

Section 191.010

HB 1681 adds this section to authorize a county clerk in a county with a population of 3 .3 million or more to require a person presenting a document in person for filing in the real property records of the county to present a photo identification, as defined, to the clerk. The clerk may copy the photo identification or record information from the photo identification. The clerk may not charge a person a fee to copy or record this information. The bill provides that information copied or recorded from the photo identification is confidential. A document filed with a county clerk is not invalid solely because the county clerk did not copy a photo identification or record the information from the photo identification.

Effective June 19, 2015.

Section 193.003

SB 584 amends subsections (a) and (b) and adds subsection (d) to require a county clerk to maintain correction instruments and to provide that an index entry for a correction instrument must contain the names of the grantors and grantees as stated in the correction instrument, as defined.

Effective Sept. 1, 2015.

Section 232.001

HB 2033 adds subsection (f) to authorize a county commissioners court to require a digital map be included with a plat application submitted for approval for land that is divided into two or more tracts to lay out a subdivision, lots, or streets and other areas for use by others, and is located outside the limits of a city.

The digital map must be compatible with other mapping systems used by the county and must geo-reference the subdivision plat and related public infrastructure using the Texas Coordinate Systems adopted under Natural Resources Code Section 21.071. The digital map may be required only in a format widely used by common geographic information system software.

The bill also provides that a requirement adopted under this subsection must provide for an exemption from the requirement if the owner of the tract submits with the plat



application an acknowledged statement indicating that the digital mapping technology necessary to submit a map that complies with this subsection was not reasonably accessible.

Effective Sept. 1, 2015.

Section 232.023

HB 2033 adds subsection (f) to authorize a county commissioners court to require a digital map be included with a plat application submitted for approval for a subdivision which creates at least one lot of five acres or less intended for residential use and is located within 50 to 100 miles from an international border.

The digital map must be compatible with other mapping systems used by the county and must geo-reference the subdivision plat and related public infrastructure using the Texas Coordinate Systems adopted under Natural Resources Code Section 21 .071. The digital map may be required only in a format widely used by common geographic information system software.

The bill also provides that a requirement adopted under this subsection must provide for an exemption from the requirement if the owner of the tract submits with the plat application an acknowledged statement indicating that the digital mapping technology necessary to submit a map that complies with this subsection was not reasonably accessible.

Effective Sept. 1, 2015.

Section 232.072

HB 2033 adds subsection (d) to authorize a county commissioners court to require a digital map be included with a plat application submitted for approval for a subdivision which creates at least one lot of five acres or less intended for residential purposes, located outside a city, and located in a county in which a political subdivision is eligible for and has applied for financial assistance, as specified.

The digital map must be compatible with other mapping systems used by the county and must geo-reference the subdivision plat and related public infrastructure using the Texas Coordinate Systems adopted under Natural Resources Code Section 21 .071. The digital map may be required only in a format widely used by common geographic information system software.

The bill also provides that a requirement adopted under this subsection must provide for an exemption from the requirement if the owner of the tract submits with the plat application an acknowledged statement indicating that the digital mapping technology necessary to submit a map that complies with this subsection was not reasonably accessible.

Effective Sept. 1, 2015.

Section 303.041

HB 2679 amends subsection (a) to add to the rights and the powers of a public facility corporation the right to exercise any powers that a nonprofit corporation may exercise to the extent necessary or convenient to accomplish the purpose of the corporation, and the authority to grant a leasehold or other possessory interest in a public facility owned by the corporation. The bill also modifies preexisting rights and the powers of a public facility corporation as specified.

Effective June 16, 2015.

Section 303.042

HB 2679 adds subsection (f) to provide that, notwithstanding subsections (a) and (b), during the period of time that a public facility corporation owns a particular public facility, a leasehold or other possessory interest in the real property of the public facility granted by the public facility corporation shall be treated in the same manner as a leasehold or other possessory interest in real property granted by a defense base development authority under Local Government Code Section 379B .011(b).

Effective June 16, 2015.

Section 379C.004

HB 1289 amends subsection (a) to authorize the governing body of a city to adopt an urban land bank demonstration program in which the officer charged with selling real property pursuant to foreclosure of a tax lien may sell certain eligible real property by private sale for affordable housing development or other purposes, rather than just for purposes of affordable housing development, as provided by Local Government Chapter 379C, Urban Land Bank Demonstration Program Act.

Effective June 17, 2015.

Section 379C.014

HB 1289 amends subsection (a) to provide that, notwithstanding the other provisions of Local Government Chapter 379C, a land bank may acquire and sell to a developer property intended for commercial use, rather than sell property to a developer to allow the construction of a grocery store that has at least 6,000 square feet of enclosed space and that offers for sale fresh produce and other food items for home consumption.

The bill amends subsection (c) to provide that a sale under this section within the four-year period following the date of acquisition of the property by the land bank is for a public purpose.

Effective June 17, 2015.



Section 399.008

HB 3187 amends subsection (a) to modify the required actions for a governing body to establish a program under Local Government Code Chapter 399, Property Assessed Clean Energy Act, to (among other actions that are required to be taken in a specified order): adopt a resolution of intent that includes, among other items, a statement identifying

the appropriate representative of the local government (rather than identifying the appropriate local official) and the appropriate assessor-collector for purposes of consulting regarding collecting the proposed contractual assessments (rather than proposed contractual assessments with property taxes) imposed on the assessed property.

Effective June 16, 2015.

Occupations Code

Section 51.404

HB 3742 repeals this section related to Texas Commission of Licensing and Regulation waivers of prerequisites to obtaining a license after reviewing the applicant's credentials and determining that the applicant holds a license issued by another jurisdiction that has licensing requirements substantially equivalent to those of this state or waivers of prerequisites to obtaining a license for an applicant who holds a license issued by another jurisdiction with which this state has a reciprocity agreement.

Effective Sept. 1, 2015.

Section 51.4041

HB 3742 adds this section to authorize the Texas Commission of Licensing and Regulation, TDLR, or the executive director of TDLR, to adopt alternative means of determining or verifying a person's eligibility for a license issued by TDLR, including evaluating the person's education, training, experience, and military service. Notwithstanding any other law, the commission or the executive director may waive any prerequisite for obtaining a license if the applicant currently holds a similar license issued by another jurisdiction that has substantially equivalent requirements or has a reciprocity agreement with this state. The bill authorizes TDLR, with approval of the governor, to enter into an agreement with another state to allow for licensing by reciprocity.

Effective Sept. 1, 2015, and applies only to an application for a license submitted to TDLR on or after the effective date.

Section 1103.003

SB 1007 amends and adds several subdivisions to define "appraisal review," "appraiser trainee," "certified appraiser," "licensed appraiser," and "supervisory appraiser," and strikes certain terms and definitions.

Effective Jan. 1, 2016.

Section 1103.004

SB 1007 amends this section to strike the term "salesperson" and replace it with "sales agent." The bill also provides that an appraiser who is certified by a jurisdiction other than this

state is not prohibited from performing an appraisal review of an appraisal performed on real property in this state, if the appraiser does not offer an opinion of value as part of the appraisal review.

Effective Jan. 1, 2016.

Section 1103.005

SB 1007 repeals this section which previously provided that a person was not required to be licensed as a real estate broker or salesperson under Occupations Code Chapter 1101 to appraise real property in this state if the person is certified or licensed or approved as an appraiser trainee under Occupations Code Chapter 1103 or certified or licensed as a real estate appraiser by another state.

Effective Jan. 1, 2016.

Section 1103.006

SB 1007 amends this section to provide that TALCB is subject to Government Code Chapter 325 (Texas Sunset Act) and, unless continued in existence as provided by that chapter, is abolished, and this chapter and Occupations Code Chapter 1104 expire Sept. 1, 2019.

Effective Jan. 1, 2016.

Section 1103.0545

SB 1007 adds this section to provide that a person who is appointed to and qualifies for office as a TALCB member may not vote, deliberate, or be counted as a member in attendance at a board meeting until the person completes a training program that complies with specified requirements.

The bill provides that a person appointed to TALCB is entitled to reimbursement for the travel expenses incurred in attending the training program, regardless of whether the attendance at the program occurs before or after the person qualifies for office.

Effective Jan. 1, 2016.



Section 1103.055

SB 1007 amends this section to increase the term length of an appointed TALCB member from two to six years . The terms of one or two, rather than two, appraiser members and one or two, rather than two, public members expire on Jan . 31 of each odd-numbered year, rather than each year . The bill requires the governor to appoint a person to fill an unexpired term in the event of a vacancy .

Effective Jan. 1, 2016, and does not affect the terms of TALCB members who are serving on the effective date. Members appointed to fill vacancies occurring on or after the effective date shall be appointed to serve staggered terms in accordance with this section.

Section 1103.056

SB 1007 amends this section to require the governor to designate a TALCB member who is an appraiser to serve as presiding officer of the board .

Effective Jan. 1, 2016.

Section 1103.057

SB 1007 amends subsection (c) to require the TALCB commissioner to notify the presiding officer of the board of a potential ground for removal from TALCB. If the potential ground for removal involves the presiding officer, the commissioner is required to notify the next highest ranking officer of the board . The presiding officer, or next highest ranking officer as applicable, is required to immediately notify the governor and the attorney general, rather than just the governor, that a potential ground for removal exists .

Effective Jan. 1, 2016.

Section 1103.058

SB 1007 amends this section to authorize TALCB to determine by rule what constitutes a “day” or “actual and necessary expenses” for reimbursement purposes .

Effective Jan. 1, 2016.

Section 1103.060

SB 1007 adds this section to permit a TALCB member or employee to make a presentation to a group of certificate or license holders for which the certificate or license holders may receive certain continuing education credit for renewal . The TALCB member or employee may not receive compensation for the presentation, but may be reimbursed for reasonable travel expenses .

Effective Jan. 1, 2016.

Section 1103.101

SB 1007 amends subsection (b) to authorize TALCB to delegate to the TALCB commissioner the responsibility for administering Occupations Code Chapters 1103 and 1104, related to appraisal management companies, rather than just Occupations Code Chapter 1103 .

Effective Jan. 1, 2016.

Section 1103.102

SB 1007 amends this section to authorize TALCB to employ other officers and employees as necessary to administer Occupations Code Chapters 1103 and 1104, related to appraisal management companies, rather than just Occupations Code Chapter 1103 .

Effective Jan. 1, 2016.

Section 1103.103

SB 1007 amends this section to require the TALCB commissioner, rather than the administrator of the Texas Real Estate Commission, to determine the salaries of TALCB officers and employees .

Effective Jan. 1, 2016.

Section 1103.104

SB 1007 amends this section to require the TALCB commissioner to administer rules, review and recommend fees, and perform any other duty prescribed by TALCB under Occupations Code Chapters 1103 and 1104, related to appraisal management companies, rather than just Occupations Code Chapter 1103 .

Effective Jan. 1, 2016.

Section 1103.151

SB 1007 amends this section to strike certain references to rules regarding appraisal trainee approvals . The bill permits TALCB to adopt rules relating to the “qualifying” education and experience required for certifying or licensing an appraiser or appraiser trainee .

Effective Jan. 1, 2016.

Section 1103.153

SB 1007 amends this section to authorize TALCB to adopt rules relating to “qualifying,” and not just “continuing,” education . The bill permits TALCB to adopt rules relating to the requirements for approval of a provider, course, or instructor for qualifying or continuing education .

Effective Jan. 1, 2016.



Section 1103.154

SB 1007 amends this section to authorize TALCB to adopt rules requiring an “appraiser trainee,” and not just a certified or licensed appraiser, to comply with standards of competency, professional conduct, and ethics prescribed by USPAP . The bill also permits TALCB to adopt rules relating to the standards for the development of an appraisal and the conveyance of an appraisal report by an “appraiser trainee” (not just a “certified or licensed appraiser”); and the standards are to be “recognized as substantially equivalent to,” and not just consistent with USPAP .

Effective Jan. 1, 2016.

Section 1103.155

SB 1007 amends subsection (c) to require TALCB to send a copy of the roster of persons who are certified or licensed under Occupations Code Chapter 1103 to the appraisal subcommittee at least weekly, rather than annually .

Effective Jan. 1, 2016.

Section 1103.157

SB 1007 amends this section to authorize TALCB to solicit, accept, and administer gifts, grants, and donations of any kind from any public or private source for the purposes of Occupations Code Chapters 1103 and 1104, rather than just Occupations Code Chapter 1103 .

Effective Jan. 1, 2016.

Section 1103.159

SB 1007 amends this section to modify the terms, number of members, provisions for vacancies, and method of holding meetings for the TALCB advisory committee .

Effective Jan. 1, 2016, and does not affect the terms of the members of the advisory committee who are serving on the effective date. Not later than the 60th day after the effective date, the governor is required to appoint the two new members of the advisory committee to serve staggered terms in accordance with this section.

Section 1103.201

SB 1007 amends subsection (a) to prohibit an appraiser trainee from performing an appraisal of real estate unless the appraiser trainee is acting under the “supervision of a supervisory appraiser,” rather than just the “sponsorship of a certified appraiser .” The bill also modifies subsection (b) to provide that unless the person holds the appropriate license or certification, a person may not use the title “certified real estate appraiser” (rather than “state-certified real estate appraiser”) or “licensed real estate appraiser” (rather than “state-licensed real estate appraiser”) .

Effective Jan. 1, 2016.

Section 1103.2015

SB 1007 repeals this section related to general application requirements of providing an applicant’s current mailing address, telephone number, and email address, if available .

Effective Jan. 1, 2016.

Section 1103.202

SB 1007 amends this section to require that, to be eligible for a certificate or license, rather than just certificate, an applicant must pass the applicable examination, rather than just examination, and comply with the requirements of Occupations Code Sections 1103.203 and 1103.2031, in addition to existing requirements in previous law .

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.

Section 1103.203

SB 1007 amends this section to add new disclosure requirements related to criminal history and background in an application for an appraisal certificate or license, rather than specify license eligibility requirements . The bill specifies required contact information to be included in the application and requires that the applicant notify TALCB of any changes to the contact information while the application is pending .

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.

Section 1103.2031

SB 1007 adds this section to permit TALCB to require by rule that an applicant for a certificate or license or renewal of an unexpired certificate or license submit a complete and legible set of fingerprints, on a prescribed form, for the purpose of obtaining criminal history information . The bill provides that if TALCB implements the fingerprint requirement, it may not issue or renew a certificate or license to an applicant who does not comply and must conduct a criminal history check using information provided by the applicant as well as law enforcement authorities . The board is authorized to enter into an agreement with DPS or other federally authorized entity to administer a criminal history check, and may authorize those entities to collect a fee from each applicant to cover the incurred costs .

Effective Jan. 1, 2016.

Section 1103.204

SB 1007 amends subsection (c) to replace the term “salesperson” with “sales agent” and strikes the reference to Occupations Code Section 1103.203(2) .

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.



Section 1103.205

SB 1007 amends subsections (a) and (c) to strike a reference to Occupations Code Section 1103 .208 which is no longer in statute and add the word “mortgage” after “real estate” and before “lending officer.”

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.

Section 1103.206

SB 1007 amends subsection (b) to strike the requirement that TALCB “must rely on appropriate sampling techniques that are applied to not more than five percent of the license applications.” The bill retains the pre-existing requirement that the method to verify the evidence of applicants’ appraisal experience “include the review of appraisal experience of all applicants for certification.”

Effective Jan. 1, 2016.

Section 1103.207

SB 1007 amends subsection (a) to replace the phrase “consumer complaint or peer complaint” with “formal complaint” in the provision relating to additional information TALCB may obtain from an applicant for a certificate or license based on a complaint against the applicant .

Effective Jan. 1, 2016.

Section 1103.209

SB 1007 amends subsection (a) to require TALCB to issue a reciprocal license or certificate to an applicant from another state, if the applicant complies with the requirements of Occupations Code Sections 1103 .203 and 1103 .2031 and meets other requirements .

Effective Jan. 1, 2016.

Section 1103.2091

SB 1007 amends this section to make clarifying changes regarding probationary certificates or licenses .

Effective Jan. 1, 2016.

Section 1103.211

SB 1007 amends subsection (b) to add requirements for a person to renew an appraisal certificate or license by satisfying TALCB as to the person’s honesty, trustworthiness, and integrity; and complying with the requirements of Occupations Code Sections 1103 .203 and 1103 .2031 .

The bill amends subsection (c) to require that for specified purposes TALCB accept as continuing education any educational offering that complies with the guidelines recognized by the Appraiser Qualifications Board that a certified or licensed

appraiser was awarded by a provider of qualifying appraisal education approved by TALCB, rather than awarded by a national appraiser organization approved by TALCB .

Effective Jan. 1, 2016.

Section 1103.2111

SB 1007 amends this section to strike references to “trainee approval.”

Effective Jan. 1, 2016.

Section 1103.213

SB 1007 amends this section to modify the deadline before which the certificate or license of an appraiser or appraiser trainee may be placed on inactive status after expiration of the certificate or license if certain requirements are met . The deadline is changed from not later than the first anniversary of the expiration date to not later than the 180th day after the expiration date . The bill also provides that an appraiser or appraiser trainee must meet the requirements of Occupations Code Section 1103 .2111 .

The bill adds to the conditions that must be met for TALCB to be required to return an appraiser’s certificate or license to active status to include that the appraiser satisfies TALCB as to the person’s honesty, trustworthiness, and integrity; and complies with the requirements of Occupations Code Sections 1103 .203 and 1103 .2031 . The bill also modifies the condition that the appraiser submit proof of complying with continuing education requirements to specify the proof of compliance is for the cumulative continuing education requirements during the period the license has been on inactive status and strikes the requirement that this condition must be met during the two years preceding the date the application for an active license is filed with TALCB.

Effective Jan. 1, 2016.

Section 1103.252

SB 1007 amends this section to provide that TALCB or the testing service, rather than just the testing service, may collect an appraiser examination fee from an applicant for a certificate or license .

Effective Jan. 1, 2016.

Section 1103.253

SB 1007 amends this section to provide that TALCB or the testing service shall offer the appraiser examination at least once each month in Austin and at other locations and times as determined or required by TALCB . The bill requires TALCB to provide public notice of all examinations on its Internet website . The bill strikes all previous language related to time, place or notice of appraiser examinations .

Effective Jan. 1, 2016.



Section 1103.255

SB 1007 amends this section to provide that an applicant for an appraiser examination must fulfill applicable experience requirements for a certificate or license before taking an examination rather than not fulfill this requirement. The bill also modifies the section name to “Experience Required Before Taking Examination.”

Effective Jan. 1, 2016.

Section 1103.257

SB 1007 amends subsection (a) to require that not later than the 10th day, rather than the 31st day, after the date a person takes an appraiser examination, TALCB or the testing service, rather than just TALCB, must notify the person of the results. The bill strikes language related to TALCB receiving results from a national testing service and then TALCB notifying the person not later than the 31st day after the date TALCB received those results.

The bill amends subsection (b) to provide that if notice of the appraiser examination results will be delayed for more than 10 days, rather than 90 days, after the examination date, TALCB shall notify each examinee of the reason for the delay not later than the 10th day, rather than the 90th day.

Effective Jan. 1, 2016.

Section 1103.302

SB 1007 amends this section to add payment of the required fee to the requirements for registering with TALCB.

Effective Jan. 1, 2016.

Section 1103.303

SB 1007 amends this section to replace a reference to “Appraiser Qualifications Board” with “Appraisal Subcommittee” in the provision regarding a person’s eligibility to register with TALCB if the person is certified or licensed by another state.

Effective Jan. 1, 2016.

Section 1103.351

SB 1007 amends this section to provide that TALCB may authorize a certified appraiser to “supervise” (rather than “sponsor”) an appraiser trainee if the certified appraiser meets TALCB requirements consistent with applicable federal law and that the trainee may have more than one “supervisory” appraiser (rather than “sponsor”).

Effective Jan. 1, 2016.

Section 1103.352

SB 1007 amends this section to require that an applicant for a license as an appraiser trainee and each supervisory appraiser

of the applicant must apply to TALCB using the online application on TALCB’s Internet website or on a TALCB prescribed form.

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.

Section 1103.353

SB 1007 amends this section to provide that an applicant is eligible for a “license” (rather than “approval”) as an appraiser trainee if the applicant complies with the requirements of Occupations Code Sections 1103.203 and 1103.2031, in addition to other pre-existing requirements.

Effective Jan. 1, 2016, and applies only to an application for a license or certificate submitted to TALCB on or after the effective date.

Section 1103.354

SB 1007 amends this section to provide that the supervisory appraiser of a trainee is responsible to the public and to TALCB for the appraiser trainee’s reports and conduct, rather than just conduct. The bill also replaces references to a “sponsor or authorized sponsor” with “supervisory appraiser.”

Effective Jan. 1, 2016.

Section 1103.355

SB 1007 amends subsection (a) to replace a reference to “appraiser trainee’s authority” with “appraiser trainee’s license” in relation to the reprimand of an appraiser or revocation of an appraiser trainee’s license for violation of Occupations Code Chapter 1103 or rules adopted under Occupations Code Chapter 1103, Subchapter H (Appraiser Trainees).

Effective Jan. 1, 2016.

Section 1103.356

SB 1007 amends this section to replace a reference to an “approval” as an appraiser trainee with a “license” as an appraiser trainee in relation to the requirements for renewing a license as an appraiser trainee. The bill also amends the section title to replace the word “approval” with “license” to rename the title to “Renewal of Appraiser Trainee License.”

Effective Jan. 1, 2016.

Section 1103.405

SB 1007 amends this section relating to professional standards and to those subject to Occupations Code Chapter 1103 complying with the most current edition of USPAP or other standards provided by TALCB rule that are at least as stringent as USPAP. The bill strikes the reference to an “approval” issued under Occupations Code Chapter 1103 and adds the term “registration.”

Effective Jan. 1, 2016.



Section 1103.451

SB 1007 amends this section relating to the initiation of the complaint process . The bill provides that the process is initiated by submitting to TALCB a written “allegation of a violation of this chapter,” Occupations Code Chapter 1103, (not just a “complaint”), on a TALCB prescribed form . The bill also authorizes TALCB, on its own motion, to file a formal complaint against an appraiser trainee or a registrant under Occupations Code Chapter 1103, Subchapter G (Temporary Appraisal Authority for Out-of-State Appraisers) .

The bill prohibits TALCB from conducting an investigation of a person certified, licensed, or registered under Occupations Code Chapter 1103 or Chapter 1104 for an allegation of a violation submitted to TALCB more than four years after the alleged violation occurred.

Effective Jan. 1, 2016, and applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.

Section 1103.452

SB 1007 amends subsection (a) to provide that TALCB shall review and investigate an alleged act or omission that “is the subject of an allegation submitted or a formal complaint filed” under Occupations Code Section 1103 .451 . This standard replaces TALCB review and investigation on receipt of a complaint or on its own motion of an alleged act or omission that TALCB “believes is a ground for disciplinary action.”

The bill amends subsection (b) to provide that an investigator designated by the commissioner (rather than the TALCB presiding officer), shall investigate each allegation or formal complaint. The bill strikes language requiring a determination of whether “probable cause exists for a hearing on the complaint.”

The bill amends subsection (c) to provide that if TALCB determines at any time that an allegation or formal complaint “is inappropriate or without merit,” (rather than “does not present facts that are grounds for disciplinary action”), TALCB or the commissioner shall dismiss the complaint and may not take further action .

The bill adds subsection (d) to provide that, for purposes of subsection (c), a determination that the allegation or complaint is inappropriate or without merit includes a determination that the allegation or complaint:

- is not within TALCB’s jurisdiction,
- was made in bad faith or filed for the purpose of harassment or to gain a competitive or economic advantage, or
- lacks sufficient basis in fact or evidence.

Effective Jan. 1, 2016, and applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.

Section 1103.453

SB 1007 amends subsection (b) to require that a peer investigative committee consists of two or more, rather than three, certified or licensed appraisers .

Effective Jan. 1, 2016.

Section 1103.455

SB 1007 amends subsection (a) to require that at the conclusion of the investigation of a complaint, the investigator shall prepare, rather than submit to TALCB, a written report to enable TALCB to determine what further action is necessary .

Effective Jan. 1, 2016.

Section 1103.456

SB 1007 amends this section to authorize, as one of several options, that TALCB permit the appraiser or appraiser trainee who is the subject of the complaint to participate in a voluntary discussion of the facts and circumstances of the alleged violation (rather than attend an informal discussion as provided by Occupations Code Section 1103 .457—which is repealed by this bill) .

Effective Jan. 1, 2016.

Section 1103.457

SB 1007 repeals this section related to informal discussions of a complaint .

Effective Jan. 1, 2016.

Section 1103.458

SB 1007 amends subsection (d) to provide that a TALCB member who participates in negotiating a consent order under this section is disqualified, rather than is not disqualified, from participating in the adjudication of a contested case that results from the negotiation.

The bill adds subsection (g) to provide that an appraiser or appraiser trainee may be disciplined for failure to comply with a consent order .

Effective Jan. 1, 2016, and applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.

Section 1103.459

SB 1007 amends subsection (d) to provide that an appraiser or appraiser trainee may be “disciplined,” rather than “prosecuted,” for failure to comply with a consent agreement .

Effective Jan. 1, 2016, and applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.



Section 1103.460

SB 1007 changes the title of this section from “Public Availability of Final Decision” to “Confidentiality of Investigation Material.” The bill strikes the language of this section entirely which previously provided for the public availability of a TALCB final decision relating to disciplinary action. Instead, the bill sets forth in subsections (a) through (e) provisions relating to the confidentiality and terms of disclosure of information or material prepared or compiled in connection with a complaint, investigation, or audit of any person subject to TALCB jurisdiction.

Effective Jan. 1, 2016.

Section 1103.519

SB 1007 amends this section to provide that a party to a contested case hearing under Occupations Code Chapter 1103, may file a motion for rehearing (rather than application) with TALCB and this motion is governed by Government Code Chapter 2001. This amendment replaces the previous requirement to file an application for rehearing not later than the 20th day after the date a final decision is issued in a contested case and strikes language pertaining to the denial of an application. The bill also renames the section title to “Motion for Rehearing.”

Effective Jan. 1, 2016, and applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.

Section 1103.522

SB 1007 amends this section to prohibit a person whose certificate or license application has been denied after a hearing under Occupations Code Section 1103.508 from applying to TALCB for a certificate or license until the second anniversary of the denial date.

Effective Jan. 1, 2016.

Section 1103.523

SB 1007 adds this section to authorize an administrative law judge to award specified reasonable costs to TALCB on a request for and proof of the costs, if a respondent fails to appear for a hearing under Occupations Code Section 1103.510.

Effective Jan. 1, 2016, applies only to a disciplinary proceeding or a contested case hearing for conduct that occurs on or after the effective date.

Section 1103.552

SB 1007 adds subsection (c) to require, notwithstanding any other law, an administrative penalty collected under this section to be deposited in a restricted fund maintained and operated by TALCB to develop educational programs for appraisers or conduct studies that enhance consumer protection.

Effective Jan. 1, 2016.

Section 1103.5525

SB 1007 adds this section to permit TALCB to issue a cease and desist order prohibiting a person from engaging in an activity if it appears to TALCB that a person is violating Occupations Code Chapter 1103 or Chapter 1104 or a rule adopted under those chapters. The order is permitted only after notice and opportunity for a hearing. A violation of the order constitutes grounds for imposing an administrative penalty.

Effective Jan. 1, 2016.

Section 1152.053

HB 7 repeals this section relating to the increased registration fee and the increased renewal registration fee under Occupations Code Chapter 1152, Property Tax Consultants.

Effective Sept. 1, 2015, and does not affect a surcharge, additional fee, additional charge, fee increase, tax, or late fee imposed before the effective date, and the law in effect before the effective date is continued in effect for purposes of the liability for and collection of those surcharges, additional fees, additional charges, fee increases, taxes, and late fees.

Transportation Code

Section 280.003

HB 3002 amends subsection (b) which provides for the establishment of certain streetlights and the collection of a certain streetlight fee only in the unincorporated area of a county that has any of its territory located within 150 miles of an international boundary. In a county commissioners court’s order to provide for streetlights along a county road located in a subdivision, the bill authorizes the county commissioners

court to provide (among other items) for the collection of a streetlight fee by the county tax assessor-collector, rather than by the county or another public or private entity with which the county may contract.

The bill adds subsection (d) to require the county tax assessor-collector of a county in which a fee is imposed to include the fee in the tax bill prepared under Tax Code Section 31.01, for each landowner whose real property is benefited by the street lights.



The tax bill is required to separately state the amount of the fee and the county tax assessor-collector is required to collect the fee in the same manner that county property taxes are collected.

The bill adds subsection (e) to permit the county commissioners court to obtain a lien against real property benefited by the street lights to secure payment of the fee. To obtain the lien, the county commissioners court must file a notice with the county clerk that includes a statement that the fee has been imposed on the landowner and the amount of the fee, a legal description of the property to which the lien attaches, and the name of the landowner, if known.

The bill adds subsection (f) to provide that the lien authorized by this section exists in favor of the county and attaches to the real property on the date the notice of lien is filed with the county clerk. The bill specifies that the lien is inferior to a mortgage lien recorded with the county clerk before the date the lien authorized by this section attaches to the property. A county is not permitted to foreclose the lien if the lien is the only lien attached to the property.

Effective Sept. 1, 2015, and applies only to a fee imposed by a county under Transportation Code Section 280.003, as amended by the bill, on or after the effective date.

Utilities Code

Section 35.009

SB 776 adds this section to provide that a city-owned utility that is required to apply for a certificate of public convenience and necessity to construct, install, or extend a transmission facility within ERCOT under Utilities Code Chapter 37, regarding Certificates of Convenience and Necessity, is entitled to recover, through the utility's wholesale transmission rate, reasonable payments made to a taxing entity in lieu of property taxes on that facility provided that:

- the utility enters into a written agreement with the governing body of the taxing entity related to the payments,

Section 521.001

HB 1080 amends subsection (a) (8-a) to modify the definition of "state judge" to include a judge of a statutory probate court of this state and an associate judge appointed under Government Code Chapter 54A or Health and Safety Code Chapter 574.

Effective June 16, 2015.

Section 521.049

HB 1464 amends subsection (d) to add to the reasons for which DPS is required to provide, without charge, to chief appraisers a copy of each driver's license record or personal identification certificate record held by DPS or information as shown in those records, the applicability to certain individuals of additional notice provisions under Tax Code Chapter 23, Subchapters C and D.

Effective Sept. 1, 2015.

- the amount paid is the same as the amount the utility would have to pay to the taxing entity on that transmission facility if the facility were subject to property taxation,
- the governing body of the taxing entity is not the governing body of the utility, and
- the utility provides the PUC with a copy of the written agreement and any other information the PUC considers necessary in relation to the agreement.

Effective Sept. 1, 2015, and applies only to a transmission facility for which construction began on or after the effective date.

Water Code

Section 49.2361

SB 1760 adds this section to require that if a water district proposes to adopt a combined tax rate that would authorize the qualified voters of the district by petition to require a rollback election, the notice required under Water Code Section 49.236 must include a description of the purpose of the proposed tax rate increase.

Effective Jan. 1, 2016, and applies only to a tax year that begins on or after the effective date.



Texas Constitution

Article VIII, Section 1-b

SJR 1 amends subsections (c), (d), and (e) to increase the mandatory homestead exemption for school districts from \$15,000 to \$25,000 and to require tax ceilings for taxpayers who are age 65 or older, or disabled, be reduced to reflect the additional exemption. The Legislature is permitted to prohibit the governing body of a political subdivision from reducing the amount of or repealing an exemption adopted under subsection (e).

This amendment will be put before the voters at an election to be held Nov. 3, 2015. If approved by the voters, the amendments to Sections 1-b(c), (d), and (e), Article VIII, of the Texas Constitution would take effect for the tax year beginning Jan. 1, 2015.

HJR 75 adds subsection (j-1) to authorize the Legislature by general law to provide that the surviving spouse of a disabled veteran who would have qualified for a property tax exemption of all or part of the market value of the disabled veteran's residence homestead under subsection (i) of this section if that subsection had been in effect on the date the disabled veteran died is entitled to a property tax exemption of the same portion of the market value of the same property to which the disabled veteran's exemption would have applied

if the surviving spouse otherwise meets the requirements of subsection (j) of this section. The resolution amends subsection (k) to provide for these surviving spouses to subsequently qualify a different property as the surviving spouse's residence homestead for an exemption in an amount equal to the dollar amount of the exemption of the former homestead in the last year in which the surviving spouse received the exemption for that homestead if the surviving spouse has not remarried since the death of the disabled veteran.

This amendment will be put before the voters at an election to be held Nov. 3, 2015. If approved by the voters, the amendments to Section 1-b, Article VIII, of the Texas Constitution would take effect for the tax year beginning Jan. 1, 2016.

Article VIII, Section 29

SJR 1 adds this section to prohibit, after Jan. 1, 2016, a law that imposes a transfer tax on a transaction that conveys fee simple title to real property and provides certain exceptions.

This amendment will be put before the voters at an election to be held Nov. 3, 2015.

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Chapter XII – Mineral and Industrial Properties

Introduction

This mass appraisal assignment includes all the property classed as Mineral and Industrial Properties that fall within the boundaries of the Brazoria County appraisal district. These properties are contracted to be appraised by Hugh Landrum and Associates. Mineral appraisers appraise the properties according to the statutes. However, the affect of easements, restrictions, encumbrances, leases, contracts or special assessments are considered on an individual basis. Fractional interest or partial holdings of real property are appraised in fee simple for the whole property and divided programmatically based on their prorated interests.

Mineral and Industrial Properties Re-Appraisal

Mineral and Industrial properties are currently re-appraised every year by Hugh Landrum and Associates. This is the only equitable way to value such properties. With regards to oil and gas mineral properties (Category J) it would be unfair to those mineral owners whose leases have depleted during the year to pick up the new leases without removing the depleted leases from the rolls. That then creates inequity between those leases that significantly decreased in value during the year, but remain producing and are being taxed at the previous year's value. Unlike residential properties or land, the very nature of oil and gas mineral properties is that they can change significantly over just a short period of time. For this reason, they should be reappraised annually.

While not considered in the property value study, industrial properties (Category F2 & L2) are similar to mineral properties in that they tend to change dramatically from one year to the next. In many instances, new property is added to an existing unit to replace old property. In that case, to pick up just the new value without removing the value of the old property would be improper. Further, the addition of new equipment to an industrial unit reduces the effective age of the entire unit. If you just pick up the new and delete the old, you have incorrectly valued the remaining unit. For these reasons, industrial properties should also continue to be re-appraised every year.

Appraisal Resources

Personnel — The mineral and industrial properties are appraised by Hugh Landrum and Associates an appraisal firm.

Data — The mineral and industrial properties are appraised by the contract staff using data collected from a variety of sources. Among these data sources are: Gas prices from the comptroller, production from the Rail Road Commission, Average gas prices from the industry, and data from the operators of the properties.

Area Analysis

The scope of market forces affecting mineral products tends to extend beyond regional considerations. The Global market effects the valuation of the property. Appraisers must study and analyze the current and future market in order to appraise the properties appropriately.

Highest and Best Use

All Mineral and Industrial properties are appraised based on their highest and best use as determined by the contract staff during their appraisal.

Market Analysis

Market analysis is the basis for determining the future worth of the recoverable reserves of a mineral property. However, each property may have unique properties which are taken into consideration when estimating the final value of the property.

Appraisal Method

All Mineral and Industrial Properties are appraised as described by the property tax code and laws. Mineral properties are appraised using a discount cash flow method as prescribed by the Texas Comptroller of Public Accounts.

Review, Verification, and Evaluation of Appraisal Services Contractor by the CAD

Prior to submission of the Appraisal Roll to the ARB, the Chief Appraiser shall request a random sampling of appraisals from HLL&A. HLL&A shall provide the Chief Appraiser with the requested appraisals and all non-privileged and non-proprietary supporting data and review the information with the Chief Appraiser in order for the CAD to evaluate the appraisal procedures and results of HLL&A. The HLL&A appraiser responsible for each property sampled will review the appraisal, including but not limited to methodology, technique, data used and final outcome, with the Chief Appraiser or other employee of the CAD designated by the Chief Appraiser to review the contracted work. The Chief Appraiser or their designee will verify that all assigned properties were indeed appraised and valued as set out in the Contract and as set forth in the contractor's Appraisal Manual, and document any failure to do so, noting what if anything is required to fulfill the contract requirements.

Further, a computer-assisted statistical review of property value changes will be conducted at various times throughout the year allowing the CAD to verify that the properties called for in the Contract were appraised and values were entered.

At various times throughout the year, at the request of the Chief Appraiser, HLL&A shall provide an updated list from the Railroad Commission in order for the CAD to compare to the list of mineral leases already being appraised by HLL&A for the CAD. In this way, the CAD can verify that HLL&A is indeed discovering all taxable mineral properties in its discovery process.

Chapter XIII – Informal Appeals Process

Introduction

The informal appeal process procedures covers property assessment appeals initiated by property owners. These informal procedures are intended to help create a simple, understandable, responsive, and cost-conscious system that will be effective in removing assessment inequities.

Informal assessment appeals are a very important component in the entire appeals process. Appeals provide an opportunity for property owners to meet with an appraiser to inquire about their assessment and learn about assessment and appeal procedures. It is imperative that BCAD appraisers and staff understand the appeals process and procedures to better help explain the process to property owners.

This informal process allows a large number of property owners to obtain information, state their grievances, and perhaps resolve their appeals in a simple, low cost manner. During the informal review the property owner will be able to receive information and provide responses to broad requests. Strict confidentiality of information must be maintained as required by statute, rules, and regulations.

Informal Review by the Appraiser

The informal review is the first step a property owner will go through during a protest of their property. The four reasons a property owner may seek an informal review of their assessed value include:

- Factual error – that is, data collection or clerical error.
- Uniformity claim – claim of discriminatory level of assessment.
- Belief that the valuation is inaccurate.
- Exemption claim

When one of these disputes are brought up a protest form is given to the property owner and a protest is created. Using the protest form allows the protest to be stated in a written form and dates the protest so that the property owner does not inadvertently lose the right to appeal because of untimeliness.

The informal review may, at the option of the property owner, be handled by a face to face meeting, telephone conference, mail, fax, or electronic mail. The informal review allows both the property owner and appraisal district to consider their positions before the formal appeal takes place in front of the Appraisal Review Board. The informal review will begin with an informal meeting between the appraiser and the property owner to:

- Identify and document errors
- Review the uniformity of assessment
- Determine to what extent the appraiser and the property owner can agree upon. This could include:
 - Property boundaries
 - Property characteristics
 - Use or classification of the property
 - Gross and net income (if applicable)
 - Particulars of a sale or comparable sales (if applicable)
 - Construction costs (if applicable)
 - Financial conditions that have an effect on value

- Identify and clarify the basis for an exemption claim

****** IT IS REQUIRED THAT EVERY APPRAISER DOES NOT MAKE ANY CHANGES TO THE APPRAISAL RECORDS IN AN INFORMAL HEARING UNLESS:**

- **THERE IS A GRID CORRECTLY CONFIGURED SHOWING A CHANGE IS NEEDED.**
- **THERE IS AMPLE EVIDENCE FROM THE TAXPAYER SHOWING THAT AN ADJUSTMENT IS REQUIRED (IT IS THE RESPONSIBILITY OF THE APPRAISER TO MAKE SURE THAT THE EVIDENCE IS SCANNED INTO THE ARB IMAGES)**
- **SOME OTHER TYPE OF EVIDENCE THAT SHOWS A CHANGE IS REQUIRED (THIS EVIDENCE SHOULD BE APPROVED BY A SUPERVISOR).**

AT NO POINT SHOULD A CHANGE BE MADE TO THE APPRAISAL RECORDS THAT DOES NOT INCLUDE EVIDENCE (PER “SUPERVISOR INITIALS” IN APPRAISER COMMENTS WILL NOT SUFFICE AS EVIDENCE). ****

If time is needed for the property owner to retrieve any documents, pictures, appraisals, and etc.. Then the appraiser should give the property owner ten days to return such evidence. If more time than ten days is required the appraiser should make sure to let the property owner know the amount of time that will be allowed. This can be accomplished by giving the property owner a date on which they must have all evidence to the appraiser. The appraiser should also notate in the appraiser comments the date which evidence must be presented by.

After this informal meeting if all necessary documentation has been collected by the appraiser then an informal decision based on evidence collected during the meeting should be given to the property owner. This decision should be in the form of a Settlement Waiver and will include the improvement value, land value, and market value of the protested property.

If evidence was requested and the property owner does not return the evidence within the allotted time then a Settlement Waiver should be sent through the mail to the property owner and the protest should be closed.

If the property owner does not agree with the appraiser then the protest will be setup for a formal protest before the Appraisal Review Board. If the property owner decides to go to the formal appeal then the appraisal district designee will send or give all documents that explain the formal appeal process.

Appraisal Review Board

The Appraisal Review Board is the second step a property owner will go through during a protest of their property. As stated above this process will begin if the property owner was unable to come to an agreement with the appraiser during the informal meeting.

For more information about the ARB process see Appendix 7 – PACS ARB Overview

Conflict of Interest

A member of the appraisal staff who appears to have a conflict of interest, a personal bias or prejudice, or an apparent or non-apparent interest in a property will not be involved in a protest during informal or formal appeal.

Informal Meeting Reminders

Below are the informal review reminders and rules that every appraiser should use when conducting an informal review. These rules are always subject to change and any questions or suggestions should be given to the appraisers immediate supervisor.

1. Inform the Taxpayer that this is their informal meeting. Answer any questions about the informal/formal process.
2. Verify Name/Address
3. Look on Pictometry
4. Review Exemptions
5. Briefly Describe Data for Verification
6. Look to see if there was a sale
7. Look at previous years protest if applicable
8. Other areas to look at include:
 - a) Appraiser Info Screen
 - b) Images
 - c) Properties
 - d) Notes on First Improvement
9. Adjustments to look for include:
 - a) Functions – Obsolescence on the property
 - b) Economic – Obsolescence outside the property
 - c) Adjustments – Cost to Cure (One time adjustment)
 - d) Modifier and Distributed Values – Market Only Adjustments
10. Understand Market/Equity – if the mean (average) price per square foot in a subdivision is \$85 and the median range of appraisal is at 99% then the absolute equitable and uniform value for a 2,000 s/f home on a primary lot with no additional amenities would be: $\$85 \times 2000 = \$170,000$ @ 99% = 168,300. DO NOT automatically go to 95% of a sale unless it meets this standard.
11. Evidence – any change to the appraisal records must include evidence with no exceptions.
12. If the appraiser is going to make an adjustment, make sure that there is evidence to support the adjustment. If the overall adjustment is more that 10% then a supervisor must approve the adjustment. Make sure to note which supervisor approved the change in the comments section of the protest.
13. Let taxpayers know that we will hold a file open ten days to give the taxpayer time to present evidence. The ten days ending date should be noted to the comments screen. Writing the date on the back of your business card for the taxpayer is also a good idea.

Appendix 1 – Agriculture Productivity Values

Determining the Agriculture Productivity Values

Step 1: Create a folder (preferably on your desktop) so that you will have a place to save and organize all the following work. A good way to name it is Ag Productivity and then the year (example: Ag Productivity 2008)

Step 2: Prepare the Agricultural Productivity Questionnaire and Letter for approval by the Agriculture Board. If you put them both in the same word document it will make it easier for you to use mail-merge later on.

Step 3: Figure out how many properties will receive the Questionnaire per land type.

Step 4: Randomly select properties to be sent the Questionnaire. This can be done easily by following the below steps.

Q. Using Query individually run each land type and export results into tab delimited making sure to include headers. The easiest way to name the file is the land type and year (example: A5N-08).
Example of Query:

SELECT

ld1.[prop_id],
ld1.[land_type_cd],
ld1.[ag_use_cd],
oev1.[file_as_name],
oev1.[addr_line2],
oev1.[addr_line3],
oev1.[addr_city],
oev1.[addr_state],
oev1.[addr_zip]

FROM dbo.land_detail AS ld1 WITH(nolog) JOIN dbo.prop_supp_assoc AS psa1 WITH
(nolog) ON

psa1.[prop_id] = ld1.[prop_id] AND
psa1.[owner_tax_yr] = ld1.[prop_val_yr]
AND

psa1.[sup_num] = ld1.[sup_num]

JOIN dbo.property AS p1 WITH(nolog) ON

p1.[prop_id] = psa1.[prop_id]

JOIN dbo.property_val AS pv1 WITH(nolog) ON

pv1.[prop_id] = ld1.[prop_id] AND
pv1.[prop_val_yr] = ld1.[prop_val_yr] AND
pv1.[sup_num] = ld1.[sup_num]

JOIN dbo.query_builder_owner_everything_vw AS

oev1 WITH(nolog) ON

oev1.[prop_id] = ld1.[prop_id] AND
oev1.[owner_tax_yr] = ld1.[prop_val_yr] AND

```

oev1.[sup_num] = ld1.[sup_num]
WHERE
ld1.[land_type_cd] IN ( 'A9D') AND
ld1.[ag_use_cd] = '1D1' AND
ld1.[prop_val_yr] = 2008 AND
pv1.[prop_inactive_dt] IS NULL

```

- Q. Once all the files are exported you can then convert them to an excel file by opening the files in excel. Then click the file tab and select save as... After doing that make sure that the save as type says Microsoft Office Excel Workbook (*.xls). Make sure that you are saving it to the Folder that you made earlier and click save.
- Q. The other none excel files can now be deleted if you prefer. If you make a mistake later on though they could be used as backup so it is usually a good idea to just keep them.
1. The first thing that we have to do is remove multiple entries of the same person. There are a few ways to do this, but the most accurate way is by using the address_line2 as your filter agent. Select the entire column of address_line2 then click the data tab and select filter then finally select advanced filter. Make sure that you filter the list in place and you want unique records only so make sure that is checked. Then click OK. Depending on the number of accounts in the spreadsheet it may take a minute to filter the list.
1. Now we need to make your main excel workbook that you are going to use. To do this open up excel by using the start menu then programs and then Microsoft office and select excel. This will start a new workbook. Save the workbook as something like Ag Productivity 2008 replacing the year with the current year and make sure to save it in your folder. Leave this workbook open and go back to the other workbook that you just filtered.
- Q. Select the data in the workbook. The easiest way to do this is by selecting the box that is in the upper left corner of the labels (it is the empty looking box that is above the 1 and to the left of the A). After that your entire screen will turn blue you then need to right click on the blue area and select copy. The screen will look a little bit different than normal copying and pasting in excel because the list is filtered, but it will do what we need it to do.
- A. Now select the Ag Productivity 2008 workbook and place the cursor in the first box in column A that is empty (if this is the first sheet you have done it should be row 1 column A). This will place only the unique filtered properties from the previous workbook. You can now close that land workbook that you were working with making sure to save the file when prompted.
4. You now have to do D, F, and G for each land workbook that you have. The only real change is in F. You will not need the header row 1 because it was already copied over when you pasted the first workbook. The easiest way to complete this is to just go ahead and copy it over and then just select the whole row that it is in and delete the row. To accomplish this lets say that the first workbook had 126 properties. So when you complete the paste your header row will be on row 127. All you would have to do is click the 127 and it will highlight the entire row. Then right click the 127 and select delete this should delete the entire row.
- Q. Once you have completely done all of the above steps to all the land types that were pulled with the queries then proceed to the next step.

- Q. Your Ag Productivity 2008 workbook should now have the sorted lists for each land type that was pulled. This can be check by just looking down the land_type_cd column and making sure that each land type is accounted for. Do this now and after it is verified move to the next step.
- Q. At the bottom of the workbook you should have three tabs that say Sheet 1, Sheet 2, and then sheet 3. We have to do one final sort so you will need to name these sheets so that you can keep them in order. Right click on Sheet one and select rename. Name Sheet 1 Pre-Sort. Then right click on sheet two and select rename. Name Sheet 2 Sorted List. Then do step D just like you did before. This sheet will have quite a few properties so it could take a couple of minutes to complete.
- Q. Once it has completed we will select the entire sheet and copy it from the Pre-Sort sheet to the Sorted List. You now have a pretty accurate list that is as sorted as possible and should not produce any duplicates when you randomly select properties to receive the Questionnaire.
- Q. We now need to get a random selection of properties from the sorted list and have then sorted by the type of properties to make them easier to deal with. To start you need to make sure that you have the right add-ins to do the sampling. To do that select tools then add-ins and make sure that analysis tool pack is selected. Then press OK.
- Q. Now with the sorted worksheet selected select the tools menu and select Data Analysis. From the list select Sampling and click OK.
- Q. Make sure that your cursor is active in the input range box then on the sorted worksheet you will need to select your first property id numbers for the land type that you are getting a sample from. For example the prop_id under column A (which you will also have if you used the supplied Query). The first land type is A9 and it goes from rows 2-126. So place the cursor into the input range box then select the column A from row 2-126 (giving a 125 prop_id's currently selected) after selecting them the input range box said `$A$2:$A$126` which pretty much just means that it's an absolute range of column A row 2 through column A row 126.
1. Once that is done make sure that your labels check box is not checked. Then you want a random number of samples selected and you need to put the number of samples you want for that land type which should have been figured out in Step 3 of this guide. So for instance it's going to say that 20 Properties out of the 125 are selected. On the output options you want a new worksheet ply: and just name it by what the land type is so something like A9-08 in my example. Then just click Ok.
- Q. A new worksheet has now been created named A9-08 and the 20 random samples prop_id numbers will be in column A row 1-20. Now you need to copy your header labels. To do this right click on the number 1 row and select insert. This will insert a now blank row and will move your data all down a row. In my example the prop_id's are now still in column A, but are in row 2-21 instead of 1-20.
- Q. Now go back to your sorted list and select row 1 by click on 1 then select copy. Now move back to the A9-8 worksheet and paste the data into the first row. Just select the 1 on the row and right click then select paste. You now have your original header labels as in the sorted list. We now need to copy over the other information.
- Q. This next part may seem a lot harder than it really is, but if you follow the guide exactly you should

not have any problem. To start out you need to place the following code into column B row 2 (this will be the column directly to the right of your first prop_id). It is very important that you copy this code exactly as one missing letter or symbol will make the code not work. Enter this code: =index((do not push enter or select another box)

- Q. Now with the =index(in the box select the sorted list tab(you will notice that the box at the top of excel that shows you what is in a cell should say =index('sorted list'! which is correct) we now will select column B row 2 through what ever the last piece of data that you have in excel for that land type in column B. Now column B row 2 through column B row 126 is selected. The box now says =index('sorted list'!B2:B126
1. Now hit the comma button and type in match(A2, your box will now say =index('sorted list'!B2:B126,match(A2, you now need to select column A row 2 through the end of your data for the land type in the sorted list worksheet. In the example selected column A row 2 through column A row 126. Then hit the comma button. The box now says =index('sorted list'!B2:B126,match(A2,'sorted list'!A2:A126, You now need to type FALSE),1) so for the example the entire row looks like this =index('sorted list'!B2:B126,match(A2,'sorted list'!A2:A126,FALSE),1) so now you will hit the enter button. This will take you back to your A9-08 worksheet and you should now see your land_type_cd (if you kept the same order as me) as what ever the land type is. You can now see A9 in column B row 2. We are not done yet though.
- Q. There are a couple of things in the code above that we do not want to change when we copy and paste this code to the other boxes. To make sure that they don't we need to set some of the ranges as absolute value ranges. This is very simple to do. First start off by selecting 'sorted list'!A2:A126 and then press F4 one time. It will now also look like 'sorted list'!\$A\$2:\$A\$126 so now it's absolute. Now select A2 which is the A2 right after match(then press F4 on it and it will look like \$A\$2. At this point your entire code will look like this: =index('sorted list'!B2:B126,MATCH(\$A\$2,'sorted list'!\$A\$2:\$A\$126,FALSE),1)
1. Now copy that code from column b row 2 through the last column row 2 of your data. In the example copy the code from column b row 2 through column I row 2.
- Q. Now we need to make the code ready to be copied down to the lower rows. To do that you will need to first select the \$A\$2 (which is the one next to the match(just like before). Then you need to press F4 3 times until it looks like A2 again. Then select 'sorted list'!B2:B126 and press F4 one time. It should look like 'sorted list'!\$B\$2:\$B\$126. Once that is done your code in column b row 2 will look like this: =index('sorted list'!\$B\$2:\$B\$126,MATCH(A2,'sorted list'!\$A\$2:\$A\$126, FALSE),1)
- Q. Now that it looks like that then you can copy it down through all the rows of column B for the example copy the code from column B row 2 through column B row 21.
1. Now we have to do the same thing for the rest of the columns that have data in them. Then you have to change the same items like in X. The only difference is that your first range for the code will change based on which column you will be in. For example the next column range after doing the steps in X above will look like this: =index('sorted list'!C\$2:\$C\$126,MATCH(A2,'sorted list'!\$A\$2:\$A\$126,FALSE),1). As you see the only thing that really changed was the C2:C126 which just reflects the current column you are in. Once this is completed you will need to do this

for each land worksheet (it may seem complicated now, but by the end you will be a pro!)

Step 5: This step should not be completed until the Ag Productivity Letter and Questionnaire are approved by the Ag Board. After approval then follow the steps below.

Q. Print the letter and questionnaire using mail merge to merge all the information that you have with the letter. If there was any additional information that you pulled out of the database when using Query this is where it should be mail merged into the letter and questionnaire at.

7. At this point you need to acquire the self addressed/postage paid envelopes that will be included in the mailing.

Q. Once they are all printed or while they are printing you can start folding and combining the self addressed/postage paid envelopes into your mailing envelope. You do not need to seal the envelopes though as the machine that places postage on them will do this for you.

Q. Once all the envelopes are stuffed all that is needed is for them to be taken to the mail room to be mailed out.

Step 6: This step is optional, but is good practice and will help you later on when finishing up the project.

Q. Figure out how many total properties you had for each land type. This is done easily by looking at your sorted list. You should easily be able to tell the amount of properties you were taking a sample from. In the example that was used above it had a total of 125 total accounts which a sample of 20 accounts out of that 125 were taken. You want to get those two numbers for each land type.

Q. Then make a report that shows the number of total properties, the number of samples taken, and the percentage of samples from the total. For example it could look something like this:

Land Type	Total Ac- counts	Total Sam- ples	% of Sam- ples
A9	125	20	16%

Step 7: For the next part go ahead and make a new spread sheet that is called Ag Calculations and save it into your folder.

Step 8: Now it's time to decide how you are going to handle the information that you get in from the taxpayers. There are really two ways to handle the data. You can compile it using a paper/pencil type structure. Where write the important data that you need to determine value down on a piece of paper. Or you can use excel to do all the work and calculations for you. The excel method has the least chance of errors.. For the most part they are the same just that you will need to write the information down and make sure that you are very accurate then you will have to manually do the addition/subtraction/multiplication/division that is needed. Once you decide then proceed to the next step.

Step 9: Sorting the data or having a way to sort it later is very important and will save a lot of time if you do it daily as the questionnaires are returned. The easiest way to do it is just make a large worksheet that will allow you to enter the data as it comes in.

Q. To start off open the Ag Calculation spreadsheet and renamed sheet 1 to Questionnaires. Then put the first header label as QID(Question ID) this was mainly used to keep a number on the amount of questionnaires that were returned and to keep some type of order for them. Also if you have a question about something that is in the worksheet you can go to that specific questionnaire a lot faster.

Q. Then place a header label for each of the prop_id, land type, name, address2, and city.

15. After that place a column for every question or place that could have a response from the taxpayer. For example location of property (north, south, etc), do you graze livestock in Brazoria County (yes or no), etc...Those were the first two questions that were on the questionnaire. It's best that you keep them in the order of the questionnaire to ease data entry into the worksheet.

1. Everyday enter the data into the worksheet as the questionnaires come in. This makes it very easy because you will not have to worry about sorting the data or anything else until the very end when it's time to do the calculations. This also makes it so that you don't have to keep up with multiple pieces of paper and makes your calculations a lot less likely to have mistakes.

Q. Once it is decided what the last day will be of taking and using the questionnaires then proceed to the next step.

Step 10: One of the first steps you will want to do is make up your calculations page. You can do this by renaming the Sheet 2 to calculations. You will want it to look something like what is below. Now you will not have the calculations for the year you are working on (the example is after the calculations are already done). You should have the past 4 years as shown below. This should be all on one worksheet. There is not any reason to make multiple workbooks.

Improved Pasture Land

Year	2003	2004	2005	2006	2007
Year #	Year 1	Year 2	Year 3	Year 4	Year 5
Income					
Lease	15	15	15	16	19.85
Hunting					
Other					
Total Inc	15	15	15	16	19.85
Expenses					
Tax	2.25	2.15	2.4	2.4	1.98
Fence	2.12	2.85	2.85	3.17	3.47
Well					
Mgmt	0.75	0.75	0.75	0.8	0.93
Other					
Total Exp	5.12	5.75	6	6.37	6.38
Net to land	9.88	9.25	9	9.63	13.47
5 Year Average	10.25				

Native Pasture Land

Year	2003	2004	2005	2006	2007
Year #	Year 1	Year 2	Year 3	Year 4	Year 5
Income					
Lease	10.05	10	10	12	14
Hunting					
Other					
Total Inc	10.05	10	10	12	14
Expenses					
Tax	1.9	1.75	1.75	1.5	1.48
Fence	2.12	2.85	2.85	3.17	3.47
Well					
Mgmt	0.5	0.5	0.5	0.58	0.7
Other					
Total Exp	4.52	5.1	5.1	5.25	5.65
Net to land	5.53	4.9	4.9	6.75	8.35
5 Year Average	6.09				

Marsh, Saltgrass, Bottomland Pasture

Year	2003	2004	2005	2006	2007
Year #	Year 1	Year 2	Year 3	Year 4	Year 5
Income					
Lease	5	5	5	6	6
Hunting					
Other					
Total Inc	5	5	5	6	6
Expenses					
Tax	1.1	0.95	0.95	0.75	0.66
Fence		1.5	1.5	1.59	1.74
Well					
Mgmt	0.25	0.25	0.25	0.3	0.3
Other					
Total Exp	1.35	2.7	2.7	2.64	2.7
Net to land	3.65	2.3	2.3	3.36	3.3
5 Year Average	2.98				

Dry Crop

Year	2003	2004	2005	2006	2007
Year #	Year 1	Year 2	Year 3	Year 4	Year 5
Income					
Lease	20	18.3	19.5	22	32.04
Hunting					
Other					
Total Inc	20	18.3	19.5	22	32.04
Expenses					
Tax	3.3	3.25	3.5	3.63	2.91
Fence					1.74
Well					
Mgmt	1	0.9	0.98	1.1	1.6
Other					
Total Exp	4.3	4.15	4.48	4.73	6.25
Net to land	15.7	14.15	15.02	17.27	25.79
5 Year Average	17.59				

		<u>Irrigated Crop</u>				
Year		2003	2004	2005	2006	2007
Year #		Year 1	Year 2	Year 3	Year 4	Year 5
Income						
	Lease	25	28	25	28	31.58
	Hunting					
	Other					
	<u>Total Inc</u>	25	28	25	28	31.58
Expenses						
	Tax	4.25	4	4.5	4.75	4.05
	Fence					1.74
	Well					
	Mgmt	1.25	1.4	1.25	1.4	1.58
	Other					
	<u>Total Exp</u>	5.5	5.4	5.75	6.15	7.37
Net to land		19.5	22.6	19.25	21.85	24.21
5 Year Average		21.48				

Step 11: Another page that you can make and will need is your Calculations and Final Reconciliation worksheet. This will give you your final value for each land type as calculated using the 5 year average and the cap rate as determined by the state. You can find the current cap rate at the following website <http://www.window.state.tx.us/taxinfo/proptax/08agtimbercap/index.html>. Just change the 08agtimbercap to the year that you are doing for example if it was 09 the link would look as follows <http://www.window.state.tx.us/taxinfo/proptax/09agtimbercap/index.html>. Your Calculations and Final Reconciliation worksheet should look something like the one below.

CALCULATIONS AND FINAL RECONCILIATION

2008 Cap Rate 10%

Improved Pasture or Hay

$$10.3 \div 0.1 = 103$$

Native Pasture

$$6.09 \div 0.1 = 61$$

Marsh, Saltgrass, and/or Bottomland Pasture

$$2.98 \div 0.1 = 30$$

Irrigated Crop

$$21.5 \div 0.1 = 215$$

Dry Crop

$$17.6 \div 0.1 = 176$$

Step 12: Now that your calculation pages are setup it's now time to calculate your values so that the calculations can be completed and you can get your value. Here is an example of how you can come up with your values again these amounts are determined by using your questionnaires and any local resources you can come up with to get a correct value:

MARSH, SALTGRASS, AND/OR BOTTOMLAND PASTURE		NATIVE PASTURE	
Income		Income	
Lease	6	Lease	14
Hunting		Hunting	
Other		Other	
<u>Total Inc</u>	6	<u>Total Inc</u>	14
Expenses		Expenses	
Tax	0.66	Tax	1.48
Fence	1.74	Fence	3.47
Well		Well	
Mgmt	0.30	Mgmt	0.7
Other		Other	
<u>Total Exp</u>	2.70	<u>Total Exp</u>	5.65
Net to land	3.30	Net to land	8.35
IRRIGATED CROP		IMPROVED PASTURE	
Income		Income	
Lease	31.58	Lease	19.85
Hunting		Hunting	
Other		Other	
<u>Total Inc</u>	31.58	<u>Total Inc</u>	19.85
Expenses		Expenses	
Tax	4.05	Tax	1.98
Fence	1.74	Fence	3.47
Well		Well	
Mgmt	1.58	Mgmt	0.93
Other		Other	
<u>Total Exp</u>	7.37	<u>Total Exp</u>	6.38
Net to land	24.21	Net to land	13.47
DRY CROP			
Income			
Lease	32.04		
Hunting			
Other			
<u>Total Inc</u>	32.04		
Expenses			
Tax	2.91		
Fence	1.74		
Well			
Mgmt	1.60		
Other			
<u>Total Exp</u>	6.25		
Net to land	25.79		

Step 13: Once your value is completed then you have successfully determined the Agriculture Productivity Value for the year that you are doing. Below are some more of the value sheets that shows a little bit more how to come to the values that are above. You may not always have an exact answer because the amount of information that was obtained from the surveys is not sufficient. If you need some more information you might try looking at some of the previous year's information. You can also contact some of the taxpayers that maybe were

not completed or you believe were not completed correct and get the information that you need to complete the survey from the surveyed taxpayers.

A4 - IMPROVED PASTURE OR HAY

AVG ROUND BALE PER ACRE	4.66	40% LABOR AND MA- CHINERY
AVG WEIGHT IN TON	0.5	10% ASSIGNED TO RENT
PRICE PER TON	142	

	4.66
x	0.5
	2.33

AVG ROUND BALE PER ACRE
AVG WEIGHT IN TON
AVG TON PER ACRE

	2.33
x	142
	330.86

AVG TON PER ACRE
PRICER PER TON
GROSS POTENTIAL VALUE

	330.86
x	0.4
	132.34

GROSS POTENTIAL VALUE
40% LABOR AND MACHINERY
LABOR AND MACHINERY EXPENSE

	330.86
-	132.34
	198.52

GROSS POTENTIAL VALUE
LABOR AND MACHINERY EXPENSE
NET INCOME FROM PASTURE

	198.52
x	0.1
	19.85

NET INCOME FROM PASTURE
10% ASSIGNED TO RENT
TOTAL INCOME

	19.85
-	6.38
	13.47

TOTAL INCOME
EXPENSES
NET TO LAND

HAY

31 FARMS

79.29 ACRE AVERAGE

382 ACRES

1783 ROUND BALES
891.50 TONS
1,783,000 POUNDS

1000 POUND AVERAGE ROUND
BALE

2700 SQAURE BALES
67.5 TONS
135,000 POUNDS

50 POUND AVERAGE SQUARE
BALE

A5N - NATIVE PASTURE

14	AVG CASH LEASE
- 5.65	OWNER EXPENSE
<u>8.35</u>	NET TO LAND

LIVESTOCK

77 FARMS

4.5-1000+ FARMS

23,259 ACRES

306.63 ACRE AVGERAGE

4044 HEAD OF CATTLE

APPROXIMATE 1 : 5.75 RATIO LAND/CATTLE

164 HEAD OTHER LIVESTOCK (HORSES, DONKEYS, GOATS, ETC)

TOTAL: 96% CATTLE

4% OTHER

AVERAGE RENT: \$14

A8 - MARSH, SALTGRASS, AND/OR BOTTOMLAND PASTURE

6	AVG CASH LEASE PER ACRE
- 2.7	OWNER EXPENSE
<u>3.3</u>	NET TO LAND

A9D - DRY CROP

AVG DRY CROP PER ACRE
AVG % TO
OWNER
AVG CASH
LEASE

546.67

33

14

546.67
x 0.33
180.4

POTENTIAL GROSS INCOME
% OWNER RECEIVES

180.4
x 0.1
18.04

% OWNER RECEIVES
10% ASSIGNED TO RENT
% ASSIGNED TO RENT

18.04
+ 14
32.04

% ASSIGNED TO RENT
AVG CASH LEASE
TOTAL INCOME FROM PROPERTY

32.04
- 6.25
25.79

TOTAL INCOME FROM PROPERTY
OWNER EXPENSE
NET TO LAND

A9I - IRRIGATED CROP

AVG IRRIGATED CROP PER ACRE
AVG % TO
OWNER
AVG CASH
LEASE

593.25

33

12

593.25
x 0.33
195.77

GROSS POTENTIAL INCOME
1/3 AVG AMOUNT OWNER RECEIVES
% OWNER RECEIVES

195.77
x 0.1
19.58

% OWNER RECEIVES
10% ASSIGNED TO RENT
% ASSIGNED TO RENT

19.58
+ 12
31.58

% ASSIGNED TO RENT
AVG CASH LEASE
TOTAL INCOME FROM PROPERTY

31.58
- 7.37
24.21

TOTAL INCOME FROM PROPERTY
OWNER EXPENSES
NET TO LAND

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	100	*	2016	99999999	56.71	100	56.71	0
C	100	*	2016	1	56.71	100	56.71	0
C	100	A-	2016	99999999	56.71	145	82.23	
C	100	A	2016	99999999	56.71	155	87.9	
C	100	A+	2016	99999999	56.71	175	99.24	
C	100	AA-	2016	99999999	56.71	200	113.42	
C	100	AA	2016	99999999	56.71	250	141.78	
C	100	AA+	2016	99999999	56.71	325	184.31	
C	100	B-	2016	99999999	56.71	120	68.05	
C	100	B	2016	99999999	56.71	128	72.59	
C	100	B+	2016	99999999	56.71	135	76.56	
C	100	C-	2016	99999999	56.71	95	53.87	
C	100	C	2016	99999999	56.71	100	56.71	
C	100	C+	2016	99999999	56.71	110	62.38	
C	100	D-	2016	99999999	56.71	75	42.53	
C	100	D	2016	99999999	56.71	85	48.2	
C	100	D+	2016	99999999	56.71	90	51.04	
C	100	E-	2016	99999999	56.71	45	25.52	
C	100	E	2016	99999999	56.71	55	31.19	
C	100	E+	2016	99999999	56.71	65	36.86	
C	118	*	2016	99999999	56.71	100	56.71	0
C	118	*	2016	1	56.71	100	56.71	0
C	118	A-	2016	99999999	56.71	145	82.23	
C	118	A	2016	99999999	56.71	155	87.9	
C	118	A+	2016	99999999	56.71	175	99.24	
C	118	AA-	2016	99999999	56.71	200	113.42	
C	118	AA	2016	99999999	56.71	250	141.78	
C	118	AA+	2016	99999999	56.71	325	184.31	
C	118	B-	2016	99999999	56.71	120	68.05	
C	118	B	2016	99999999	56.71	128	72.59	
C	118	B+	2016	99999999	56.71	135	76.56	
C	118	C-	2016	99999999	56.71	95	53.87	
C	118	C	2016	99999999	56.71	100	56.71	
C	118	C+	2016	99999999	56.71	110	62.38	
C	118	D-	2016	99999999	56.71	75	42.53	
C	118	D	2016	99999999	56.71	85	48.2	
C	118	D+	2016	99999999	56.71	90	51.04	
C	118	E-	2016	99999999	56.71	45	25.52	
C	118	E	2016	99999999	56.71	55	31.19	
C	118	E+	2016	99999999	56.71	65	36.86	
C	AC1	*	2016	99999999	2.6	100	2.6	
C	AC1	*	2016	1	2.6	100	2.6	
C	AC1	A-	2016	99999999	2.6	145	3.77	
C	AC1	A	2016	99999999	2.6	155	4.03	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	AC1	A+	2016	99999999	2.6	175	4.55	
C	AC1	AA-	2016	99999999	2.6	200	5.2	
C	AC1	AA	2016	99999999	2.6	250	6.5	
C	AC1	AA+	2016	99999999	2.6	325	8.45	
C	AC1	B-	2016	99999999	2.6	120	3.12	
C	AC1	B	2016	99999999	2.6	128	3.33	
C	AC1	B+	2016	99999999	2.6	135	3.51	
C	AC1	C-	2016	99999999	2.6	95	2.47	
C	AC1	C	2016	99999999	2.6	100	2.6	
C	AC1	C+	2016	99999999	2.6	110	2.86	
C	AC1	D-	2016	99999999	2.6	75	1.95	
C	AC1	D	2016	99999999	2.6	85	2.21	
C	AC1	D+	2016	99999999	2.6	90	2.34	
C	AC1	E-	2016	99999999	2.6	45	1.17	
C	AC1	E	2016	99999999	2.6	55	1.43	
C	AC1	E+	2016	99999999	2.6	65	1.69	
C	AC2	*	2016	99999999	1.33	100	1.33	
C	AC2	*	2016	1	1.33	100	1.33	
C	AC2	A-	2016	99999999	1.33	145	1.93	
C	AC2	A	2016	99999999	1.33	155	2.06	
C	AC2	A+	2016	99999999	1.33	175	2.33	
C	AC2	AA-	2016	99999999	1.33	200	2.66	
C	AC2	AA	2016	99999999	1.33	250	3.33	
C	AC2	AA+	2016	99999999	1.33	325	4.32	
C	AC2	B-	2016	99999999	1.33	120	1.6	
C	AC2	B	2016	99999999	1.33	128	1.7	
C	AC2	B+	2016	99999999	1.33	135	1.8	
C	AC2	C-	2016	99999999	1.33	95	1.26	
C	AC2	C	2016	99999999	1.33	100	1.33	
C	AC2	C+	2016	99999999	1.33	110	1.46	
C	AC2	D-	2016	99999999	1.33	75	1	
C	AC2	D	2016	99999999	1.33	85	1.13	
C	AC2	D+	2016	99999999	1.33	90	1.2	
C	AC2	E-	2016	99999999	1.33	45	0.6	
C	AC2	E	2016	99999999	1.33	55	0.73	
C	AC2	E+	2016	99999999	1.33	65	0.86	
C	AT1	*	2016	99999999	24.91	100	24.91	
C	AT1	*	2016	1	24.91	100	24.91	
C	AT1	A-	2016	99999999	24.91	145	36.12	
C	AT1	A	2016	99999999	24.91	155	38.61	
C	AT1	A+	2016	99999999	24.91	175	43.59	
C	AT1	AA-	2016	99999999	24.91	200	49.82	
C	AT1	AA	2016	99999999	24.91	250	62.28	
C	AT1	AA+	2016	99999999	24.91	325	80.96	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	AT1	B-	2016	99999999	24.91	120	29.89	
C	AT1	B	2016	99999999	24.91	128	31.88	
C	AT1	B+	2016	99999999	24.91	135	33.63	
C	AT1	C-	2016	99999999	24.91	95	23.66	
C	AT1	C	2016	99999999	24.91	100	24.91	
C	AT1	C+	2016	99999999	24.91	110	27.4	
C	AT1	D-	2016	99999999	24.91	75	18.68	
C	AT1	D	2016	99999999	24.91	85	21.17	
C	AT1	D+	2016	99999999	24.91	90	22.42	
C	AT1	E-	2016	99999999	24.91	45	11.21	
C	AT1	E	2016	99999999	24.91	55	13.7	
C	AT1	E+	2016	99999999	24.91	65	16.19	
C	AT2	*	2016	99999999	9.06	100	9.06	
C	AT2	*	2016	1	9.06	100	9.06	
C	AT2	A-	2016	99999999	9.06	145	13.14	
C	AT2	A	2016	99999999	9.06	155	14.04	
C	AT2	A+	2016	99999999	9.06	175	15.86	
C	AT2	AA-	2016	99999999	9.06	200	18.12	
C	AT2	AA	2016	99999999	9.06	250	22.65	
C	AT2	AA+	2016	99999999	9.06	325	29.45	
C	AT2	B-	2016	99999999	9.06	120	10.87	
C	AT2	B	2016	99999999	9.06	128	11.6	
C	AT2	B+	2016	99999999	9.06	135	12.23	
C	AT2	C-	2016	99999999	9.06	95	8.61	
C	AT2	C	2016	99999999	9.06	100	9.06	
C	AT2	C+	2016	99999999	9.06	110	9.97	
C	AT2	D-	2016	99999999	9.06	75	6.8	
C	AT2	D	2016	99999999	9.06	85	7.7	
C	AT2	D+	2016	99999999	9.06	90	8.15	
C	AT2	E-	2016	99999999	9.06	45	4.08	
C	AT2	E	2016	99999999	9.06	55	4.98	
C	AT2	E+	2016	99999999	9.06	65	5.89	
C	AW1	*	2016	99999999	155.82	100	155.82	
C	AW1	*	2016	1	155.82	100	155.82	
C	AW1	A-	2016	99999999	155.82	145	225.94	
C	AW1	A	2016	99999999	155.82	155	241.52	
C	AW1	A+	2016	99999999	155.82	175	272.69	
C	AW1	AA-	2016	99999999	155.82	200	311.64	
C	AW1	AA	2016	99999999	155.82	250	389.55	
C	AW1	AA+	2016	99999999	155.82	325	506.42	
C	AW1	B-	2016	99999999	155.82	120	186.98	
C	AW1	B	2016	99999999	155.82	128	199.45	
C	AW1	B+	2016	99999999	155.82	135	210.36	
C	AW1	C-	2016	99999999	155.82	95	148.03	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	AW1	C	2016	99999999	155.82	100	155.82	
C	AW1	C+	2016	99999999	155.82	110	171.4	
C	AW1	D-	2016	99999999	155.82	75	116.87	
C	AW1	D	2016	99999999	155.82	85	132.45	
C	AW1	D+	2016	99999999	155.82	90	140.24	
C	AW1	E-	2016	99999999	155.82	45	70.12	
C	AW1	E	2016	99999999	155.82	55	85.7	
C	AW1	E+	2016	99999999	155.82	65	101.28	
C	BC1	*	2016	99999999	22.47	100	22.47	
C	BC1	*	2016	1	22.47	100	22.47	
C	BC1	A-	2016	99999999	22.47	145	32.58	
C	BC1	A	2016	99999999	22.47	155	34.83	
C	BC1	A+	2016	99999999	22.47	175	39.32	
C	BC1	AA-	2016	99999999	22.47	200	44.94	
C	BC1	AA	2016	99999999	22.47	250	56.18	
C	BC1	AA+	2016	99999999	22.47	325	73.03	
C	BC1	B-	2016	99999999	22.47	120	26.96	
C	BC1	B	2016	99999999	22.47	128	28.76	
C	BC1	B+	2016	99999999	22.47	135	30.33	
C	BC1	C-	2016	99999999	22.47	95	21.35	
C	BC1	C	2016	99999999	22.47	100	22.47	
C	BC1	C+	2016	99999999	22.47	110	24.72	
C	BC1	D-	2016	99999999	22.47	75	16.85	
C	BC1	D	2016	99999999	22.47	85	19.1	
C	BC1	D+	2016	99999999	22.47	90	20.22	
C	BC1	E-	2016	99999999	22.47	45	10.11	
C	BC1	E	2016	99999999	22.47	55	12.36	
C	BC1	E+	2016	99999999	22.47	65	14.61	
C	BE1	*	2016	99999999	80.45	100	80.45	
C	BE1	*	2016	1	80.45	100	80.45	
C	BE1	A-	2016	99999999	80.45	145	116.65	
C	BE1	A	2016	99999999	80.45	155	124.7	
C	BE1	A+	2016	99999999	80.45	175	140.79	
C	BE1	AA-	2016	99999999	80.45	200	160.9	
C	BE1	AA	2016	99999999	80.45	250	201.13	
C	BE1	AA+	2016	99999999	80.45	325	261.46	
C	BE1	B-	2016	99999999	80.45	120	96.54	
C	BE1	B	2016	99999999	80.45	128	102.98	
C	BE1	B+	2016	99999999	80.45	135	108.61	
C	BE1	C-	2016	99999999	80.45	95	76.43	
C	BE1	C	2016	99999999	80.45	100	80.45	
C	BE1	C+	2016	99999999	80.45	110	88.5	
C	BE1	D-	2016	99999999	80.45	75	60.34	
C	BE1	D	2016	99999999	80.45	85	68.38	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	BE1	D+	2016	99999999	80.45	90	72.41	
C	BE1	E-	2016	99999999	80.45	45	36.2	
C	BE1	E	2016	99999999	80.45	55	44.25	
C	BE1	E+	2016	99999999	80.45	65	52.29	
C	BE2	*	2016	99999999	24.33	100	24.33	
C	BE2	*	2016	1	24.33	100	24.33	
C	BE2	A-	2016	99999999	24.33	145	35.28	
C	BE2	A	2016	99999999	24.33	155	37.71	
C	BE2	A+	2016	99999999	24.33	175	42.58	
C	BE2	AA-	2016	99999999	24.33	200	48.66	
C	BE2	AA	2016	99999999	24.33	250	60.83	
C	BE2	AA+	2016	99999999	24.33	325	79.07	
C	BE2	B-	2016	99999999	24.33	120	29.2	
C	BE2	B	2016	99999999	24.33	128	31.14	
C	BE2	B+	2016	99999999	24.33	135	32.85	
C	BE2	C-	2016	99999999	24.33	95	23.11	
C	BE2	C	2016	99999999	24.33	100	24.33	
C	BE2	C+	2016	99999999	24.33	110	26.76	
C	BE2	D-	2016	99999999	24.33	75	18.25	
C	BE2	D	2016	99999999	24.33	85	20.68	
C	BE2	D+	2016	99999999	24.33	90	21.9	
C	BE2	E-	2016	99999999	24.33	45	10.95	
C	BE2	E	2016	99999999	24.33	55	13.38	
C	BE2	E+	2016	99999999	24.33	65	15.81	
C	BT1	*	2016	99999999	5.41	100	5.41	
C	BT1	*	2016	1	5.41	100	5.41	
C	BT1	A-	2016	99999999	5.41	145	7.84	
C	BT1	A	2016	99999999	5.41	155	8.39	
C	BT1	A+	2016	99999999	5.41	175	9.47	
C	BT1	AA-	2016	99999999	5.41	200	10.82	
C	BT1	AA	2016	99999999	5.41	250	13.53	
C	BT1	AA+	2016	99999999	5.41	325	17.58	
C	BT1	B-	2016	99999999	5.41	120	6.49	
C	BT1	B	2016	99999999	5.41	128	6.92	
C	BT1	B+	2016	99999999	5.41	135	7.3	
C	BT1	C-	2016	99999999	5.41	95	5.14	
C	BT1	C	2016	99999999	5.41	100	5.41	
C	BT1	C+	2016	99999999	5.41	110	5.95	
C	BT1	D-	2016	99999999	5.41	75	4.06	
C	BT1	D	2016	99999999	5.41	85	4.6	
C	BT1	D+	2016	99999999	5.41	90	4.87	
C	BT1	E-	2016	99999999	5.41	45	2.43	
C	BT1	E	2016	99999999	5.41	55	2.98	
C	BT1	E+	2016	99999999	5.41	65	3.52	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CBH1	*	2016	9999999	150	100	150	
C	CBH1	*	2016	1	150	100	150	
C	CBH2	*	2016	999999	175	100	175	
C	CBH2	*	2016	1	175	100	175	
C	CBH3	*	2016	9999999	200	100	200	
C	CBH3	*	2016	1	200	100	200	
C	CCP	*	2016	99999999	23	100	23	
C	CCP	*	2016	1	23	100	23	
C	CD1	1	2016	99999999	15.8	80	12.64	
C	CD1	2	2016	99999999	15.8	80	12.64	
C	CD1	3	2016	99999999	15.8	80	12.64	
C	CD1	4	2016	99999999	15.8	100	15.8	
C	CD1	5	2016	99999999	15.8	120	18.96	
C	CD1	6	2016	99999999	15.8	120	18.96	
C	CD1	7	2016	99999999	15.8	120	18.96	
C	CD1	*	2016	99999999	15.8	80	12.64	
C	CD2	1	2016	99999999	21.4	80	17.12	
C	CD2	2	2016	99999999	21.4	80	17.12	
C	CD2	3	2016	99999999	21.4	80	17.12	
C	CD2	4	2016	99999999	21.4	100	21.4	
C	CD2	5	2016	99999999	21.4	120	25.68	
C	CD2	6	2016	99999999	21.4	120	25.68	
C	CD2	7	2016	99999999	21.4	120	25.68	
C	CD2	*	2016	99999999	21.4	80	17.12	
C	CD3	1	2016	99999999	30.14	80	24.11	
C	CD3	2	2016	99999999	30.14	80	24.11	
C	CD3	3	2016	99999999	30.14	80	24.11	
C	CD3	4	2016	99999999	30.14	100	30.14	
C	CD3	5	2016	99999999	30.14	120	36.17	
C	CD3	6	2016	99999999	30.14	120	36.17	
C	CD3	7	2016	99999999	30.14	120	36.17	
C	CD3	*	2016	99999999	30.14	80	24.11	
C	CGH1	*	2016	99999999	6.15	100	6.15	
C	CGH1	*	2016	1	6.15	100	6.15	
C	CGH1	A-	2016	99999999	6.15	145	8.92	
C	CGH1	A	2016	99999999	6.15	155	9.53	
C	CGH1	A+	2016	99999999	6.15	175	10.76	
C	CGH1	AA-	2016	99999999	6.15	200	12.3	
C	CGH1	AA	2016	99999999	6.15	250	15.38	
C	CGH1	AA+	2016	99999999	6.15	325	19.99	
C	CGH1	B-	2016	99999999	6.15	120	7.38	
C	CGH1	B	2016	99999999	6.15	128	7.87	
C	CGH1	B+	2016	99999999	6.15	135	8.3	
C	CGH1	C-	2016	99999999	6.15	95	5.84	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CGH1	C	2016	99999999	6.15	100	6.15	
C	CGH1	C+	2016	99999999	6.15	110	6.77	
C	CGH1	D-	2016	99999999	6.15	75	4.61	
C	CGH1	D	2016	99999999	6.15	85	5.23	
C	CGH1	D+	2016	99999999	6.15	90	5.54	
C	CGH1	E-	2016	99999999	6.15	45	2.77	
C	CGH1	E	2016	99999999	6.15	55	3.38	
C	CGH1	E+	2016	99999999	6.15	65	4	
C	CGH2	*	2016	99999999	7.9	100	7.9	
C	CGH2	*	2016	1	7.9	100	7.9	
C	CGH2	A-	2016	99999999	7.9	145	11.46	
C	CGH2	A	2016	99999999	7.9	155	12.25	
C	CGH2	A+	2016	99999999	7.9	175	13.83	
C	CGH2	AA-	2016	99999999	7.9	200	15.8	
C	CGH2	AA	2016	99999999	7.9	250	19.75	
C	CGH2	AA+	2016	99999999	7.9	325	25.68	
C	CGH2	B-	2016	99999999	7.9	120	9.48	
C	CGH2	B	2016	99999999	7.9	128	10.11	
C	CGH2	B+	2016	99999999	7.9	135	10.67	
C	CGH2	C-	2016	99999999	7.9	95	7.51	
C	CGH2	C	2016	99999999	7.9	100	7.9	
C	CGH2	C+	2016	99999999	7.9	110	8.69	
C	CGH2	D-	2016	99999999	7.9	75	5.93	
C	CGH2	D	2016	99999999	7.9	85	6.72	
C	CGH2	D+	2016	99999999	7.9	90	7.11	
C	CGH2	E-	2016	99999999	7.9	45	3.56	
C	CGH2	E	2016	99999999	7.9	55	4.35	
C	CGH2	E+	2016	99999999	7.9	65	5.14	
C	CGH3	*	2016	99999999	9.22	100	9.22	
C	CGH3	*	2016	1	9.22	100	9.22	
C	CGH3	A-	2016	99999999	9.22	145	13.37	
C	CGH3	A	2016	99999999	9.22	155	14.29	
C	CGH3	A+	2016	99999999	9.22	175	16.14	
C	CGH3	AA-	2016	99999999	9.22	200	18.44	
C	CGH3	AA	2016	99999999	9.22	250	23.05	
C	CGH3	AA+	2016	99999999	9.22	325	29.97	
C	CGH3	B-	2016	99999999	9.22	120	11.06	
C	CGH3	B	2016	99999999	9.22	128	11.8	
C	CGH3	B+	2016	99999999	9.22	135	12.45	
C	CGH3	C-	2016	99999999	9.22	95	8.76	
C	CGH3	C	2016	99999999	9.22	100	9.22	
C	CGH3	C+	2016	99999999	9.22	110	10.14	
C	CGH3	D-	2016	99999999	9.22	75	6.92	
C	CGH3	D	2016	99999999	9.22	85	7.84	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CGH3	D+	2016	99999999	9.22	90	8.3	
C	CGH3	E-	2016	99999999	9.22	45	4.15	
C	CGH3	E	2016	99999999	9.22	55	5.07	
C	CGH3	E+	2016	99999999	9.22	65	5.99	
C	CM1	*	2016	99999999	18.71	100	18.71	
C	CM1	*	2016	1	18.71	100	18.71	
C	CM1	A-	2016	99999999	18.71	145	27.13	
C	CM1	A	2016	99999999	18.71	155	29	
C	CM1	A+	2016	99999999	18.71	175	32.74	
C	CM1	AA-	2016	99999999	18.71	200	37.42	
C	CM1	AA	2016	99999999	18.71	250	46.78	
C	CM1	AA+	2016	99999999	18.71	325	60.81	
C	CM1	B-	2016	99999999	18.71	120	22.45	
C	CM1	B	2016	99999999	18.71	128	23.95	
C	CM1	B+	2016	99999999	18.71	135	25.26	
C	CM1	C-	2016	99999999	18.71	95	17.77	
C	CM1	C	2016	99999999	18.71	100	18.71	
C	CM1	C+	2016	99999999	18.71	110	20.58	
C	CM1	D-	2016	99999999	18.71	75	14.03	
C	CM1	D	2016	99999999	18.71	85	15.9	
C	CM1	D+	2016	99999999	18.71	90	16.84	
C	CM1	E-	2016	99999999	18.71	45	8.42	
C	CM1	E	2016	99999999	18.71	55	10.29	
C	CM1	E+	2016	99999999	18.71	65	12.16	
C	CP5	*	2016	99999999	4.82	100	4.82	
C	CP5	*	2016	1	4.82	100	4.82	
C	CP5	A-	2016	99999999	4.82	145	6.99	
C	CP5	A	2016	99999999	4.82	155	7.47	
C	CP5	A+	2016	99999999	4.82	175	8.44	
C	CP5	AA-	2016	99999999	4.82	200	9.64	
C	CP5	AA	2016	99999999	4.82	250	12.05	
C	CP5	AA+	2016	99999999	4.82	325	15.67	
C	CP5	B-	2016	99999999	4.82	120	5.78	
C	CP5	B	2016	99999999	4.82	128	6.17	
C	CP5	B+	2016	99999999	4.82	135	6.51	
C	CP5	C-	2016	99999999	4.82	95	4.58	
C	CP5	C	2016	99999999	4.82	100	4.82	
C	CP5	C+	2016	99999999	4.82	110	5.3	
C	CP5	D-	2016	99999999	4.82	75	3.62	
C	CP5	D	2016	99999999	4.82	85	4.1	
C	CP5	D+	2016	99999999	4.82	90	4.34	
C	CP5	E-	2016	99999999	4.82	45	2.17	
C	CP5	E	2016	99999999	4.82	55	2.65	
C	CP5	E+	2016	99999999	4.82	65	3.13	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	CP6	*	2016	99999999	5.99	100	5.99	
C	CP6	*	2016	1	5.99	100	5.99	
C	CP6	A-	2016	99999999	5.99	145	8.69	
C	CP6	A	2016	99999999	5.99	155	9.28	
C	CP6	A+	2016	99999999	5.99	175	10.48	
C	CP6	AA-	2016	99999999	5.99	200	11.98	
C	CP6	AA	2016	99999999	5.99	250	14.98	
C	CP6	AA+	2016	99999999	5.99	325	19.47	
C	CP6	B-	2016	99999999	5.99	120	7.19	
C	CP6	B	2016	99999999	5.99	128	7.67	
C	CP6	B+	2016	99999999	5.99	135	8.09	
C	CP6	C-	2016	99999999	5.99	95	5.69	
C	CP6	C	2016	99999999	5.99	100	5.99	
C	CP6	C+	2016	99999999	5.99	110	6.59	
C	CP6	D-	2016	99999999	5.99	75	4.49	
C	CP6	D	2016	99999999	5.99	85	5.09	
C	CP6	D+	2016	99999999	5.99	90	5.39	
C	CP6	E-	2016	99999999	5.99	45	2.7	
C	CP6	E	2016	99999999	5.99	55	3.29	
C	CP6	E+	2016	99999999	5.99	65	3.89	
C	CP7	*	2016	99999999	4.82	100	4.82	
C	CP7	*	2016	1	4.82	100	4.82	
C	CP7	A-	2016	99999999	4.82	145	6.99	
C	CP7	A	2016	99999999	4.82	155	7.47	
C	CP7	A+	2016	99999999	4.82	175	8.44	
C	CP7	AA-	2016	99999999	4.82	200	9.64	
C	CP7	AA	2016	99999999	4.82	250	12.05	
C	CP7	AA+	2016	99999999	4.82	325	15.67	
C	CP7	B-	2016	99999999	4.82	120	5.78	
C	CP7	B	2016	99999999	4.82	128	6.17	
C	CP7	B+	2016	99999999	4.82	135	6.51	
C	CP7	C-	2016	99999999	4.82	95	4.58	
C	CP7	C	2016	99999999	4.82	100	4.82	
C	CP7	C+	2016	99999999	4.82	110	5.3	
C	CP7	D-	2016	99999999	4.82	75	3.62	
C	CP7	D	2016	99999999	4.82	85	4.1	
C	CP7	D+	2016	99999999	4.82	90	4.34	
C	CP7	E-	2016	99999999	4.82	45	2.17	
C	CP7	E	2016	99999999	4.82	55	2.65	
C	CP7	E+	2016	99999999	4.82	65	3.13	
C	CP8	*	2016	99999999	8.11	100	8.11	
C	CP8	*	2016	1	8.11	100	8.11	
C	CP8	A-	2016	99999999	8.11	145	11.76	
C	CP8	A	2016	99999999	8.11	155	12.57	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CP8	A+	2016	99999999	8.11	175	14.19	
C	CP8	AA-	2016	99999999	8.11	200	16.22	
C	CP8	AA	2016	99999999	8.11	250	20.27	
C	CP8	AA+	2016	99999999	8.11	325	26.36	
C	CP8	B-	2016	99999999	8.11	120	9.73	
C	CP8	B	2016	99999999	8.11	128	10.38	
C	CP8	B+	2016	99999999	8.11	135	10.95	
C	CP8	C-	2016	99999999	8.11	95	7.7	
C	CP8	C	2016	99999999	8.11	100	8.11	
C	CP8	C+	2016	99999999	8.11	110	8.92	
C	CP8	D-	2016	99999999	8.11	75	6.08	
C	CP8	D	2016	99999999	8.11	85	6.89	
C	CP8	D+	2016	99999999	8.11	90	7.3	
C	CP8	E-	2016	99999999	8.11	45	3.65	
C	CP8	E	2016	99999999	8.11	55	4.46	
C	CP8	E+	2016	99999999	8.11	65	5.27	
C	CP9	*	2016	99999999	11.4	100	11.4	
C	CP9	*	2016	1	11.4	100	11.4	
C	CP9	A-	2016	99999999	11.4	145	16.53	
C	CP9	A	2016	99999999	11.4	155	17.67	
C	CP9	A+	2016	99999999	11.4	175	19.95	
C	CP9	AA-	2016	99999999	11.4	200	22.8	
C	CP9	AA	2016	99999999	11.4	250	28.5	
C	CP9	AA+	2016	99999999	11.4	325	37.05	
C	CP9	B-	2016	99999999	11.4	120	13.68	
C	CP9	B	2016	99999999	11.4	128	14.59	
C	CP9	B+	2016	99999999	11.4	135	15.39	
C	CP9	C-	2016	99999999	11.4	95	10.83	
C	CP9	C	2016	99999999	11.4	100	11.4	
C	CP9	C+	2016	99999999	11.4	110	12.54	
C	CP9	D-	2016	99999999	11.4	75	8.55	
C	CP9	D	2016	99999999	11.4	85	9.69	
C	CP9	D+	2016	99999999	11.4	90	10.26	
C	CP9	E-	2016	99999999	11.4	45	5.13	
C	CP9	E	2016	99999999	11.4	55	6.27	
C	CP9	E+	2016	99999999	11.4	65	7.41	
C	CRG1	*	2016	99999999	11.24	100	11.24	
C	CRG1	*	2016	1	11.24	100	11.24	
C	CRG1	A-	2016	99999999	11.24	145	16.3	
C	CRG1	A	2016	99999999	11.24	155	17.42	
C	CRG1	A+	2016	99999999	11.24	175	19.67	
C	CRG1	AA-	2016	99999999	11.24	200	22.48	
C	CRG1	AA	2016	99999999	11.24	250	28.1	
C	CRG1	AA+	2016	99999999	11.24	325	36.53	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CRG1	B-	2016	99999999	11.24	120	13.49	
C	CRG1	B	2016	99999999	11.24	128	14.39	
C	CRG1	B+	2016	99999999	11.24	135	15.17	
C	CRG1	C-	2016	99999999	11.24	95	10.68	
C	CRG1	C	2016	99999999	11.24	100	11.24	
C	CRG1	C+	2016	99999999	11.24	110	12.36	
C	CRG1	D-	2016	99999999	11.24	75	8.43	
C	CRG1	D	2016	99999999	11.24	85	9.55	
C	CRG1	D+	2016	99999999	11.24	90	10.12	
C	CRG1	E-	2016	99999999	11.24	45	5.06	
C	CRG1	E	2016	99999999	11.24	55	6.18	
C	CRG1	E+	2016	99999999	11.24	65	7.31	
C	CRG2	*	2016	99999999	14.38	100	14.38	
C	CRG2	*	2016	1	14.38	100	14.38	
C	CRG2	A-	2016	99999999	14.38	145	20.85	
C	CRG2	A	2016	99999999	14.38	155	22.29	
C	CRG2	A+	2016	99999999	14.38	175	25.17	
C	CRG2	AA-	2016	99999999	14.38	200	28.76	
C	CRG2	AA	2016	99999999	14.38	250	35.95	
C	CRG2	AA+	2016	99999999	14.38	325	46.74	
C	CRG2	B-	2016	99999999	14.38	120	17.26	
C	CRG2	B	2016	99999999	14.38	128	18.41	
C	CRG2	B+	2016	99999999	14.38	135	19.41	
C	CRG2	C-	2016	99999999	14.38	95	13.66	
C	CRG2	C	2016	99999999	14.38	100	14.38	
C	CRG2	C+	2016	99999999	14.38	110	15.82	
C	CRG2	D-	2016	99999999	14.38	75	10.79	
C	CRG2	D	2016	99999999	14.38	85	12.22	
C	CRG2	D+	2016	99999999	14.38	90	12.94	
C	CRG2	E-	2016	99999999	14.38	45	6.47	
C	CRG2	E	2016	99999999	14.38	55	7.91	
C	CRG2	E+	2016	99999999	14.38	65	9.35	
C	CRP1	*	2016	99999999	9.33	100	9.33	
C	CRP1	*	2016	1	9.33	100	9.33	
C	CRP1	A-	2016	99999999	9.33	145	13.53	
C	CRP1	A	2016	99999999	9.33	155	14.46	
C	CRP1	A+	2016	99999999	9.33	175	16.33	
C	CRP1	AA	2016	99999999	9.33	250	23.33	
C	CRP1	AA+	2016	99999999	9.33	325	30.32	
C	CRP1	B-	2016	99999999	9.33	120	11.2	
C	CRP1	B	2016	99999999	9.33	128	11.94	
C	CRP1	B+	2016	99999999	9.33	135	12.6	
C	CRP1	C-	2016	99999999	9.33	95	8.86	
C	CRP1	C	2016	99999999	9.33	100	9.33	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CRP1	C+	2016	99999999	9.33	110	10.26	
C	CRP1	D-	2016	99999999	9.33	75	7	
C	CRP1	D	2016	99999999	9.33	85	7.93	
C	CRP1	D+	2016	99999999	9.33	90	8.4	
C	CRP1	E-	2016	99999999	9.33	45	4.2	
C	CRP1	E	2016	99999999	9.33	55	5.13	
C	CRP1	E+	2016	99999999	9.33	65	6.06	
C	CRP2	*	2016	99999999	16.22	100	16.22	
C	CRP2	*	2016	1	16.22	100	16.22	
C	CRP2	A-	2016	99999999	16.22	145	23.52	
C	CRP2	A	2016	99999999	16.22	155	25.14	
C	CRP2	A+	2016	99999999	16.22	175	28.39	
C	CRP2	AA-	2016	99999999	16.22	200	32.44	
C	CRP2	AA	2016	99999999	16.22	250	40.55	
C	CRP2	AA+	2016	99999999	16.22	325	52.72	
C	CRP2	B-	2016	99999999	16.22	120	19.46	
C	CRP2	B	2016	99999999	16.22	128	20.76	
C	CRP2	B+	2016	99999999	16.22	135	21.9	
C	CRP2	C-	2016	99999999	16.22	95	15.41	
C	CRP2	C	2016	99999999	16.22	100	16.22	
C	CRP2	C+	2016	99999999	16.22	110	17.84	
C	CRP2	D-	2016	99999999	16.22	75	12.17	
C	CRP2	D	2016	99999999	16.22	85	13.79	
C	CRP2	D+	2016	99999999	16.22	90	14.6	
C	CRP2	E-	2016	99999999	16.22	45	7.3	
C	CRP2	E	2016	99999999	16.22	55	8.92	
C	CRP2	E+	2016	99999999	16.22	65	10.54	
C	CRP3	*	2016	99999999	5.51	100	5.51	
C	CRP3	*	2016	1	5.51	100	5.51	
C	CRP3	A-	2016	99999999	5.51	145	7.99	
C	CRP3	A	2016	99999999	5.51	155	8.54	
C	CRP3	A+	2016	99999999	5.51	175	9.64	
C	CRP3	AA-	2016	99999999	5.51	200	11.02	
C	CRP3	AA	2016	99999999	5.51	250	13.78	
C	CRP3	AA+	2016	99999999	5.51	325	17.91	
C	CRP3	B-	2016	99999999	5.51	120	6.61	
C	CRP3	B	2016	99999999	5.51	128	7.05	
C	CRP3	B+	2016	99999999	5.51	135	7.44	
C	CRP3	C-	2016	99999999	5.51	95	5.23	
C	CRP3	C	2016	99999999	5.51	100	5.51	
C	CRP3	C+	2016	99999999	5.51	110	6.06	
C	CRP3	D-	2016	99999999	5.51	75	4.13	
C	CRP3	D	2016	99999999	5.51	85	4.68	
C	CRP3	D+	2016	99999999	5.51	90	4.96	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CRP3	E-	2016	99999999	5.51	45	2.48	
C	CRP3	E	2016	99999999	5.51	55	3.03	
C	CRP3	E+	2016	99999999	5.51	65	3.58	
C	CRP4	*	2016	99999999	9.33	100	9.33	
C	CRP4	*	2016	1	9.33	100	9.33	
C	CRP4	A-	2016	99999999	9.33	145	13.53	
C	CRP4	A	2016	99999999	9.33	155	14.46	
C	CRP4	A+	2016	99999999	9.33	175	16.33	
C	CRP4	AA-	2016	99999999	9.33	200	18.66	
C	CRP4	AA	2016	99999999	9.33	250	23.33	
C	CRP4	AA+	2016	99999999	9.33	325	30.32	
C	CRP4	B-	2016	99999999	9.33	120	11.2	
C	CRP4	B	2016	99999999	9.33	128	11.94	
C	CRP4	B+	2016	99999999	9.33	135	12.6	
C	CRP4	C-	2016	99999999	9.33	95	8.86	
C	CRP4	C	2016	99999999	9.33	100	9.33	
C	CRP4	C+	2016	99999999	9.33	110	10.26	
C	CRP4	D-	2016	99999999	9.33	75	7	
C	CRP4	D	2016	99999999	9.33	85	7.93	
C	CRP4	D+	2016	99999999	9.33	90	8.4	
C	CRP4	E-	2016	99999999	9.33	45	4.2	
C	CRP4	E	2016	99999999	9.33	55	5.13	
C	CRP4	E+	2016	99999999	9.33	65	6.06	
C	CS1	*	2016	99999999	5.51	100	5.51	
C	CS1	*	2016	1	5.51	100	5.51	
C	CS1	A-	2016	99999999	5.51	145	7.99	
C	CS1	A	2016	99999999	5.51	155	8.54	
C	CS1	A+	2016	99999999	5.51	175	9.64	
C	CS1	AA-	2016	99999999	5.51	200	11.02	
C	CS1	AA	2016	99999999	5.51	250	13.78	
C	CS1	AA+	2016	99999999	5.51	325	17.91	
C	CS1	B-	2016	99999999	5.51	120	6.61	
C	CS1	B	2016	99999999	5.51	128	7.05	
C	CS1	B+	2016	99999999	5.51	135	7.44	
C	CS1	C-	2016	99999999	5.51	95	5.23	
C	CS1	C	2016	99999999	5.51	100	5.51	
C	CS1	C+	2016	99999999	5.51	110	6.06	
C	CS1	D-	2016	99999999	5.51	75	4.13	
C	CS1	D	2016	99999999	5.51	85	4.68	
C	CS1	D+	2016	99999999	5.51	90	4.96	
C	CS1	E-	2016	99999999	5.51	45	2.48	
C	CS1	E	2016	99999999	5.51	55	3.03	
C	CS1	E+	2016	99999999	5.51	65	3.58	
C	CS2	*	2016	99999999	7.31	100	7.31	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CS2	*	2016	1	7.31	100	7.31	
C	CS2	A-	2016	99999999	7.31	145	10.6	
C	CS2	A	2016	99999999	7.31	155	11.33	
C	CS2	A+	2016	99999999	7.31	175	12.79	
C	CS2	AA-	2016	99999999	7.31	200	14.62	
C	CS2	AA	2016	99999999	7.31	250	18.28	
C	CS2	AA+	2016	99999999	7.31	325	23.76	
C	CS2	B-	2016	99999999	7.31	120	8.77	
C	CS2	B	2016	99999999	7.31	128	9.36	
C	CS2	B+	2016	99999999	7.31	135	9.87	
C	CS2	C-	2016	99999999	7.31	95	6.94	
C	CS2	C	2016	99999999	7.31	100	7.31	
C	CS2	C+	2016	99999999	7.31	110	8.04	
C	CS2	D-	2016	99999999	7.31	75	5.48	
C	CS2	D	2016	99999999	7.31	85	6.21	
C	CS2	D+	2016	99999999	7.31	90	6.58	
C	CS2	E-	2016	99999999	7.31	45	3.29	
C	CS2	E	2016	99999999	7.31	55	4.02	
C	CS2	E+	2016	99999999	7.31	65	4.75	
C	CS3	*	2016	99999999	8.48	100	8.48	
C	CS3	*	2016	1	8.48	100	8.48	
C	CS3	A-	2016	99999999	8.48	145	12.3	
C	CS3	A	2016	99999999	8.48	155	13.14	
C	CS3	A+	2016	99999999	8.48	175	14.84	
C	CS3	AA-	2016	99999999	8.48	200	16.96	
C	CS3	AA	2016	99999999	8.48	250	21.2	
C	CS3	AA+	2016	99999999	8.48	325	27.56	
C	CS3	B-	2016	99999999	8.48	120	10.18	
C	CS3	B	2016	99999999	8.48	128	10.85	
C	CS3	B+	2016	99999999	8.48	135	11.45	
C	CS3	C-	2016	99999999	8.48	95	8.06	
C	CS3	C	2016	99999999	8.48	100	8.48	
C	CS3	C+	2016	99999999	8.48	110	9.33	
C	CS3	D-	2016	99999999	8.48	75	6.36	
C	CS3	D	2016	99999999	8.48	85	7.21	
C	CS3	D+	2016	99999999	8.48	90	7.63	
C	CS3	E-	2016	99999999	8.48	45	3.82	
C	CS3	E	2016	99999999	8.48	55	4.66	
C	CS3	E+	2016	99999999	8.48	65	5.51	
C	CW1	*	2016	99999999	27.45	100	27.45	
C	CW1	*	2016	1	27.45	100	27.45	
C	CW1	A-	2016	99999999	27.45	145	39.8	
C	CW1	A	2016	99999999	27.45	155	42.55	
C	CW1	A+	2016	99999999	27.45	175	48.04	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	CW1	AA-	2016	99999999	27.45	200	54.9	
C	CW1	AA	2016	99999999	27.45	250	68.63	
C	CW1	AA+	2016	99999999	27.45	325	89.21	
C	CW1	B-	2016	99999999	27.45	120	32.94	
C	CW1	B	2016	99999999	27.45	128	35.14	
C	CW1	B+	2016	99999999	27.45	135	37.06	
C	CW1	C-	2016	99999999	27.45	95	26.08	
C	CW1	C	2016	99999999	27.45	100	27.45	
C	CW1	C+	2016	99999999	27.45	110	30.2	
C	CW1	D-	2016	99999999	27.45	75	20.59	
C	CW1	D	2016	99999999	27.45	85	23.33	
C	CW1	D+	2016	99999999	27.45	90	24.71	
C	CW1	E-	2016	99999999	27.45	45	12.35	
C	CW1	E	2016	99999999	27.45	55	15.1	
C	CW1	E+	2016	99999999	27.45	65	17.84	
C	CWD	*	2016	1E+12	7.5	100	7.5	
C	DA1	*	2016	99999999	1500	100	1500	
C	DA2	*	2016	99999999	2500	100	2500	
C	DL1	*	2016	99999999	2.5	100	2.5	
C	DL1	*	2016	1	2.5	100	2.5	
C	DL1	A-	2016	99999999	0.85	145	1.23	
C	DL1	A	2016	99999999	0.85	155	1.32	
C	DL1	A+	2016	99999999	0.85	175	1.49	
C	DL1	AA-	2016	99999999	0.85	200	1.7	
C	DL1	AA	2016	99999999	0.85	250	2.13	
C	DL1	AA+	2016	99999999	0.85	325	2.76	
C	DL1	B-	2016	99999999	0.85	120	1.02	
C	DL1	B	2016	99999999	5.97	100	5.97	
C	DL1	B+	2016	99999999	0.85	135	1.15	
C	DL1	C-	2016	99999999	0.85	95	0.81	
C	DL1	C	2016	99999999	4.62	100	4.62	
C	DL1	C+	2016	99999999	0.85	110	0.94	
C	DL1	D-	2016	99999999	0.85	75	0.64	
C	DL1	D	2016	99999999	0.85	85	0.72	
C	DL1	D+	2016	99999999	0.85	90	0.77	
C	DL1	E-	2016	99999999	0.85	45	0.38	
C	DL1	E	2016	99999999	0.85	55	0.47	
C	DL1	E+	2016	99999999	0.85	65	0.55	
C	EE1	*	2016	99999999	16.85	100	16.85	
C	EE1	*	2016	1	16.85	100	16.85	
C	EE1	A-	2016	99999999	16.85	145	24.43	
C	EE1	A	2016	99999999	16.85	155	26.12	
C	EE1	A+	2016	99999999	16.85	175	29.49	
C	EE1	AA-	2016	99999999	16.85	200	33.7	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	EE1	AA	2016	99999999	16.85	250	42.13	
C	EE1	AA+	2016	99999999	16.85	325	54.76	
C	EE1	B-	2016	99999999	16.85	120	20.22	
C	EE1	B	2016	99999999	16.85	128	21.57	
C	EE1	B+	2016	99999999	16.85	135	22.75	
C	EE1	C-	2016	99999999	16.85	95	16.01	
C	EE1	C	2016	99999999	16.85	100	16.85	
C	EE1	C+	2016	99999999	16.85	110	18.54	
C	EE1	D-	2016	99999999	16.85	75	12.64	
C	EE1	D	2016	99999999	16.85	85	14.32	
C	EE1	D+	2016	99999999	16.85	90	15.17	
C	EE1	E-	2016	99999999	16.85	45	7.58	
C	EE1	E	2016	99999999	16.85	55	9.27	
C	EE1	E+	2016	99999999	16.85	65	10.95	
C	EGATE1	*	2016	1E+12	2500	100	2500	
C	EGATE2	*	2016	1E+12	4500	100	4500	
C	EGATE3	*	2016	1E+12	6500	100	6500	
C	EL1	*	2016	99999999	1.17	100	1.17	
C	EL1	*	2016	1	1.17	100	1.17	
C	EL1	A-	2016	99999999	1.17	145	1.7	
C	EL1	A	2016	99999999	1.17	155	1.81	
C	EL1	A+	2016	99999999	1.17	175	2.05	
C	EL1	AA-	2016	99999999	1.17	200	2.34	
C	EL1	AA	2016	99999999	1.17	250	2.93	
C	EL1	AA+	2016	99999999	1.17	325	3.8	
C	EL1	B-	2016	99999999	1.17	120	1.4	
C	EL1	B	2016	99999999	1.17	128	1.5	
C	EL1	B+	2016	99999999	1.17	135	1.58	
C	EL1	C-	2016	99999999	1.17	95	1.11	
C	EL1	C	2016	99999999	1.17	100	1.17	
C	EL1	C+	2016	99999999	1.17	110	1.29	
C	EL1	D-	2016	99999999	1.17	75	0.88	
C	EL1	D	2016	99999999	1.17	85	0.99	
C	EL1	D+	2016	99999999	1.17	90	1.05	
C	EL1	E-	2016	99999999	1.17	45	0.53	
C	EL1	E	2016	99999999	1.17	55	0.64	
C	EL1	E+	2016	99999999	1.17	65	0.76	
C	EL2	A-	2016	99999999	1.13	145	1.64	
C	EL2	A	2016	99999999	1.13	155	1.75	
C	EL2	A+	2016	99999999	1.13	175	1.98	
C	EL2	AA-	2016	99999999	1.13	200	2.26	
C	EL2	AA	2016	99999999	1.13	250	2.83	
C	EL2	AA+	2016	99999999	1.13	325	3.67	
C	EL2	B-	2016	99999999	1.13	120	1.36	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	EL2	B	2016	99999999	1.13	128	1.45	
C	EL2	B+	2016	99999999	1.13	135	1.53	
C	EL2	C-	2016	99999999	1.13	95	1.07	
C	EL2	C	2016	99999999	1.13	100	1.13	
C	EL2	C+	2016	99999999	1.13	110	1.24	
C	EL2	D-	2016	99999999	1.13	75	0.85	
C	EL2	D	2016	99999999	1.13	200	2.26	
C	EL2	D+	2016	99999999	1.13	90	1.02	
C	EL2	E-	2016	99999999	1.13	45	0.51	
C	EL2	E	2016	99999999	1.13	55	0.62	
C	EL2	E+	2016	99999999	1.13	65	0.73	
C	EL3	*	2016	99999999	1.13	100	1.13	0
C	EL3	*	2016	1	1.13	100	1.13	0
C	EL3	A-	2016	99999999	1.13	145	1.64	
C	EL3	A	2016	99999999	1.13	155	1.75	
C	EL3	A+	2016	99999999	1.13	175	1.98	
C	EL3	AA-	2016	99999999	1.13	200	2.26	
C	EL3	AA	2016	99999999	1.13	250	2.83	
C	EL3	AA+	2016	99999999	1.13	325	3.67	
C	EL3	B-	2016	99999999	1.13	120	1.36	
C	EL3	B	2016	99999999	1.13	128	1.45	
C	EL3	B+	2016	99999999	1.13	135	1.53	
C	EL3	C-	2016	99999999	1.13	95	1.07	
C	EL3	C	2016	99999999	1.13	100	1.13	
C	EL3	C+	2016	99999999	1.13	110	1.24	
C	EL3	D-	2016	99999999	1.13	75	0.85	
C	EL3	D	2016	99999999	1.13	85	0.96	
C	EL3	D+	2016	99999999	1.13	90	1.02	
C	EL3	E-	2016	99999999	1.13	45	0.51	
C	EL3	E	2016	99999999	1.13	55	0.62	
C	EL3	E+	2016	99999999	1.13	65	0.73	
C	EL4	*	2016	99999999	1.13	100	1.13	
C	EL4	*	2016	1	1.13	100	1.13	
C	EL4	A-	2016	99999999	1.13	145	1.64	
C	EL4	A	2016	99999999	1.13	155	1.75	
C	EL4	A+	2016	99999999	1.13	175	1.98	
C	EL4	AA-	2016	99999999	1.13	200	2.26	
C	EL4	AA	2016	99999999	1.13	250	2.83	
C	EL4	AA+	2016	99999999	1.13	325	3.67	
C	EL4	B-	2016	99999999	1.13	120	1.36	
C	EL4	B	2016	99999999	1.13	128	1.45	
C	EL4	B+	2016	99999999	1.13	135	1.53	
C	EL4	C-	2016	99999999	1.13	95	1.07	
C	EL4	C	2016	99999999	1.13	100	1.13	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	EL4	C+	2016	99999999	1.13	110	1.24	
C	EL4	D-	2016	99999999	1.13	75	0.85	
C	EL4	D	2016	99999999	1.13	85	0.96	
C	EL4	D+	2016	99999999	1.13	90	1.02	
C	EL4	E-	2016	99999999	1.13	45	0.51	
C	EL4	E	2016	99999999	1.13	55	0.62	
C	EL4	E+	2016	99999999	1.13	65	0.73	
C	FI1	*	2016	99999999	2247.2	100	2247.2	
C	FI1	A-	2016	99999999	2247.2	145	3258.44	
C	FI1	A	2016	99999999	2247.2	155	3483.16	
C	FI1	A+	2016	99999999	2247.2	175	3932.6	
C	FI1	AA-	2016	99999999	2247.2	200	4494.4	
C	FI1	AA	2016	99999999	2247.2	250	5618	
C	FI1	AA+	2016	99999999	2247.2	325	7303.4	
C	FI1	B-	2016	99999999	2247.2	120	2696.64	
C	FI1	B	2016	99999999	2247.2	128	2876.42	
C	FI1	B+	2016	99999999	2247.2	135	3033.72	
C	FI1	C-	2016	99999999	2247.2	95	2134.84	
C	FI1	C	2016	99999999	2247.2	100	2247.2	
C	FI1	C+	2016	99999999	2247.2	110	2471.92	
C	FI1	D-	2016	99999999	2247.2	75	1685.4	
C	FI1	D	2016	99999999	2247.2	85	1910.12	
C	FI1	D+	2016	99999999	2247.2	90	2022.48	
C	FI1	E-	2016	99999999	2247.2	45	1011.24	
C	FI1	E	2016	99999999	2247.2	55	1235.96	
C	FI1	E+	2016	99999999	2247.2	65	1460.68	
C	FI2	*	2016	99999999	3370.8	100	3370.8	
C	FI2	A-	2016	99999999	3370.8	145	4887.66	
C	FI2	A	2016	99999999	3370.8	155	5224.74	
C	FI2	A+	2016	99999999	3370.8	175	5898.9	
C	FI2	AA-	2016	99999999	3370.8	200	6741.6	
C	FI2	AA	2016	99999999	3370.8	250	8427	
C	FI2	AA+	2016	99999999	3370.8	325	10955.1	
C	FI2	B-	2016	99999999	3370.8	120	4044.96	
C	FI2	B	2016	99999999	3370.8	128	4314.62	
C	FI2	B+	2016	99999999	3370.8	135	4550.58	
C	FI2	C-	2016	99999999	3370.8	95	3202.26	
C	FI2	C	2016	99999999	3370.8	100	3370.8	
C	FI2	C+	2016	99999999	3370.8	110	3707.88	
C	FI2	D-	2016	99999999	3370.8	75	2528.1	
C	FI2	D	2016	99999999	3370.8	85	2865.18	
C	FI2	D+	2016	99999999	3370.8	90	3033.72	
C	FI2	E-	2016	99999999	3370.8	45	1516.86	
C	FI2	E	2016	99999999	3370.8	55	1853.94	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	FI2	E+	2016	99999999	3370.8	65	2191.02	
C	FI3	*	2016	99999999	44940.4	100	44940.4	
C	FI3	A-	2016	99999999	4494.4	145	6516.88	
C	FI3	A	2016	99999999	4494.4	155	6966.32	
C	FI3	A+	2016	99999999	4494.4	175	7865.2	
C	FI3	AA-	2016	99999999	4494.4	200	8988.8	
C	FI3	AA	2016	99999999	4494.4	250	11236	
C	FI3	AA+	2016	99999999	4494.4	325	14606.8	
C	FI3	B-	2016	99999999	4494.4	120	5393.28	
C	FI3	B	2016	99999999	4494.4	128	5752.83	
C	FI3	B+	2016	99999999	4494.4	135	6067.44	
C	FI3	C-	2016	99999999	4494.4	95	4269.68	
C	FI3	C	2016	99999999	4494.4	100	4494.4	
C	FI3	C+	2016	99999999	4494.4	110	4943.84	
C	FI3	D-	2016	99999999	4494.4	75	3370.8	
C	FI3	D	2016	99999999	4494.4	85	3820.24	
C	FI3	D+	2016	99999999	4494.4	90	4044.96	
C	FI3	E-	2016	99999999	4494.4	45	2022.48	
C	FI3	E	2016	99999999	4494.4	55	2471.92	
C	FI3	E+	2016	99999999	4494.4	65	2921.36	
C	GCH	1	2016	99999999	70250	100	70250	
C	GCH	1	2016	1	70250	100	70250	
C	GCH	2	2016	99999999	100000	100	100000	
C	GCH	2	2016	1	100000	100	100000	
C	GCH	3	2016	99999999	145000	100	145000	
C	GCH	3	2016	1	145000	100	145000	
C	GH1	*	2016	99999999	6.15	100	6.15	
C	GH1	*	2016	1	6.15	100	6.15	
C	GH1	A-	2016	99999999	6.15	145	8.92	
C	GH1	A	2016	99999999	6.15	155	9.53	
C	GH1	A+	2016	99999999	6.15	175	10.76	
C	GH1	AA-	2016	99999999	6.15	200	12.3	
C	GH1	AA	2016	99999999	6.15	250	15.38	
C	GH1	AA+	2016	99999999	6.15	325	19.99	
C	GH1	B-	2016	99999999	6.15	120	7.38	
C	GH1	B	2016	99999999	6.15	128	7.87	
C	GH1	B+	2016	99999999	6.15	135	8.3	
C	GH1	C-	2016	99999999	6.15	95	5.84	
C	GH1	C	2016	99999999	6.15	100	6.15	
C	GH1	C+	2016	99999999	6.15	110	6.77	
C	GH1	D-	2016	99999999	6.15	75	4.61	
C	GH1	D	2016	99999999	6.15	85	5.23	
C	GH1	D+	2016	99999999	6.15	90	5.54	
C	GH1	E-	2016	99999999	6.15	45	2.77	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	GH1	E	2016	99999999	6.15	55	3.38	
C	GH1	E+	2016	99999999	6.15	65	4	
C	GH2	*	2016	99999999	7.9	100	7.9	0
C	GH2	*	2016	1	7.9	100	7.9	0
C	GH2	A-	2016	99999999	7.9	145	11.46	
C	GH2	A	2016	99999999	7.9	155	12.25	
C	GH2	A+	2016	99999999	7.9	175	13.83	
C	GH2	AA-	2016	99999999	7.9	200	15.8	
C	GH2	AA	2016	99999999	7.9	250	19.75	
C	GH2	AA+	2016	99999999	7.9	325	25.68	
C	GH2	B-	2016	99999999	7.9	120	9.48	
C	GH2	B	2016	99999999	7.9	128	10.11	
C	GH2	B+	2016	99999999	7.9	135	10.67	
C	GH2	C-	2016	99999999	7.9	95	7.51	
C	GH2	C	2016	99999999	7.9	100	7.9	
C	GH2	C+	2016	99999999	7.9	110	8.69	
C	GH2	D-	2016	99999999	7.9	75	5.93	
C	GH2	D	2016	99999999	7.9	85	6.72	
C	GH2	D+	2016	99999999	7.9	90	7.11	
C	GH2	E-	2016	99999999	7.9	45	3.56	
C	GH2	E	2016	99999999	7.9	55	4.35	
C	GH2	E+	2016	99999999	7.9	65	5.14	
C	GH3	*	2016	99999999	9.22	100	9.22	
C	GH3	*	2016	1	9.22	100	9.22	
C	GH3	A-	2016	99999999	9.22	145	13.37	
C	GH3	A	2016	99999999	9.22	155	14.29	
C	GH3	A+	2016	99999999	9.22	175	16.14	
C	GH3	AA-	2016	99999999	9.22	200	18.44	
C	GH3	AA	2016	99999999	9.22	250	23.05	
C	GH3	AA+	2016	99999999	9.22	325	29.97	
C	GH3	B-	2016	99999999	9.22	120	11.06	
C	GH3	B	2016	99999999	9.22	128	11.8	
C	GH3	B+	2016	99999999	9.22	135	12.45	
C	GH3	C-	2016	99999999	9.22	95	8.76	
C	GH3	C	2016	99999999	9.22	100	9.22	
C	GH3	C+	2016	99999999	9.22	110	10.14	
C	GH3	D-	2016	99999999	9.22	75	6.92	
C	GH3	D	2016	99999999	9.22	85	7.84	
C	GH3	D+	2016	99999999	9.22	90	8.3	
C	GH3	E-	2016	99999999	9.22	45	4.15	
C	GH3	E	2016	99999999	9.22	55	5.07	
C	GH3	E+	2016	99999999	9.22	65	5.99	
C	GS3	*	2016	99999999	74.84	100	74.84	
C	GS3	*	2016	1	74.84	100	74.84	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	GS3	A-	2016	99999999	74.84	145	108.52	
C	GS3	A	2016	99999999	74.84	155	116	
C	GS3	A+	2016	99999999	74.84	175	130.97	
C	GS3	AA-	2016	99999999	74.84	200	149.68	
C	GS3	AA	2016	99999999	74.84	250	187.1	
C	GS3	AA+	2016	99999999	74.84	325	243.23	
C	GS3	B-	2016	99999999	74.84	120	89.81	
C	GS3	B	2016	99999999	74.84	128	95.8	
C	GS3	B+	2016	99999999	74.84	135	101.03	
C	GS3	C-	2016	99999999	74.84	95	71.1	
C	GS3	C	2016	99999999	74.84	100	74.84	
C	GS3	C+	2016	99999999	74.84	110	82.32	
C	GS3	D-	2016	99999999	74.84	75	56.13	
C	GS3	D	2016	99999999	74.84	85	63.61	
C	GS3	D+	2016	99999999	74.84	90	67.36	
C	GS3	E-	2016	99999999	74.84	45	33.68	
C	GS3	E	2016	99999999	74.84	55	41.16	
C	GS3	E+	2016	99999999	74.84	65	48.65	
C	GS4	*	2016	99999999	59.89	100	59.89	
C	GS4	*	2016	1	59.89	100	59.89	
C	GS4	A-	2016	99999999	59.89	145	86.84	
C	GS4	A	2016	99999999	59.89	155	92.83	
C	GS4	A+	2016	99999999	59.89	175	104.81	
C	GS4	AA-	2016	99999999	59.89	200	119.78	
C	GS4	AA	2016	99999999	59.89	250	149.73	
C	GS4	AA+	2016	99999999	59.89	325	194.64	
C	GS4	B-	2016	99999999	59.89	120	71.87	
C	GS4	B	2016	99999999	59.89	128	76.66	
C	GS4	B+	2016	99999999	59.89	135	80.85	
C	GS4	C-	2016	99999999	59.89	95	56.9	
C	GS4	C	2016	99999999	59.89	100	59.89	
C	GS4	C+	2016	99999999	59.89	110	65.88	
C	GS4	D-	2016	99999999	59.89	75	44.92	
C	GS4	D	2016	99999999	59.89	85	50.91	
C	GS4	D+	2016	99999999	59.89	90	53.9	
C	GS4	E-	2016	99999999	59.89	45	26.95	
C	GS4	E	2016	99999999	59.89	55	32.94	
C	GS4	E+	2016	99999999	59.89	65	38.93	
C	LD1	*	2016	99999999	7.47	100	7.47	
C	LD1	*	2016	1	7.47	100	7.47	
C	LD1	A-	2016	99999999	7.47	145	10.83	
C	LD1	A	2016	99999999	7.47	155	11.58	
C	LD1	A+	2016	99999999	7.47	175	13.07	
C	LD1	AA-	2016	99999999	7.47	200	14.94	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	LD1	AA	2016	99999999	7.47	250	18.68	
C	LD1	AA+	2016	99999999	7.47	325	24.28	
C	LD1	B-	2016	99999999	7.47	120	8.96	
C	LD1	B	2016	99999999	7.47	128	9.56	
C	LD1	B+	2016	99999999	7.47	135	10.08	
C	LD1	C-	2016	99999999	7.47	95	7.1	
C	LD1	C	2016	99999999	7.47	100	7.47	
C	LD1	C+	2016	99999999	7.47	110	8.22	
C	LD1	D-	2016	99999999	7.47	75	5.6	
C	LD1	D	2016	99999999	7.47	85	6.35	
C	LD1	D+	2016	99999999	7.47	90	6.72	
C	LD1	E-	2016	99999999	7.47	45	3.36	
C	LD1	E	2016	99999999	7.47	55	4.11	
C	LD1	E+	2016	99999999	7.47	65	4.86	
C	LD2	*	2016	99999999	5.09	100	5.09	
C	LD2	*	2016	1	5.09	100	5.09	
C	LD2	A-	2016	99999999	5.09	145	7.38	
C	LD2	A	2016	99999999	5.09	155	7.89	
C	LD2	A+	2016	99999999	5.09	175	8.91	
C	LD2	AA-	2016	99999999	5.09	200	10.18	
C	LD2	AA	2016	99999999	5.09	250	12.73	
C	LD2	AA+	2016	99999999	5.09	325	16.54	
C	LD2	B-	2016	99999999	5.09	120	6.11	
C	LD2	B	2016	99999999	5.09	128	6.52	
C	LD2	B+	2016	99999999	5.09	135	6.87	
C	LD2	C-	2016	99999999	5.09	95	4.84	
C	LD2	C	2016	99999999	5.09	100	5.09	
C	LD2	C+	2016	99999999	5.09	110	5.6	
C	LD2	D-	2016	99999999	5.09	75	3.82	
C	LD2	D	2016	99999999	5.09	85	4.33	
C	LD2	D+	2016	99999999	5.09	90	4.58	
C	LD2	E-	2016	99999999	5.09	45	2.29	
C	LD2	E	2016	99999999	5.09	55	2.8	
C	LD2	E+	2016	99999999	5.09	65	3.31	
C	LD3	*	2016	99999999	16.22	100	16.22	
C	LD3	*	2016	1	16.22	100	16.22	
C	LD3	A-	2016	99999999	16.22	145	23.52	
C	LD3	A	2016	99999999	16.22	155	25.14	
C	LD3	A+	2016	99999999	16.22	175	28.39	
C	LD3	AA-	2016	99999999	16.22	200	32.44	
C	LD3	AA	2016	99999999	16.22	250	40.55	
C	LD3	AA+	2016	99999999	16.22	325	52.72	
C	LD3	B-	2016	99999999	16.22	120	19.46	
C	LD3	B	2016	99999999	16.22	128	20.76	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	LD3	B+	2016	99999999	16.22	135	21.9	
C	LD3	C-	2016	99999999	16.22	95	15.41	
C	LD3	C	2016	99999999	16.22	100	16.22	
C	LD3	C+	2016	99999999	16.22	110	17.84	
C	LD3	D-	2016	99999999	16.22	75	12.17	
C	LD3	D	2016	99999999	16.22	85	13.79	
C	LD3	D+	2016	99999999	16.22	90	14.6	
C	LD3	E-	2016	99999999	16.22	45	7.3	
C	LD3	E	2016	99999999	16.22	55	8.92	
C	LD3	E+	2016	99999999	16.22	65	10.54	
C	LD4	*	2016	99999999	8.9	100	8.9	
C	LD4	*	2016	1	8.9	100	8.9	
C	LD4	A-	2016	99999999	8.9	145	12.91	
C	LD4	A	2016	99999999	8.9	155	13.8	
C	LD4	A+	2016	99999999	8.9	175	15.58	
C	LD4	AA-	2016	99999999	8.9	200	17.8	
C	LD4	AA	2016	99999999	8.9	250	22.25	
C	LD4	AA+	2016	99999999	8.9	325	28.93	
C	LD4	B-	2016	99999999	8.9	120	10.68	
C	LD4	B	2016	99999999	8.9	128	11.39	
C	LD4	B+	2016	99999999	8.9	135	12.02	
C	LD4	C-	2016	99999999	8.9	95	8.46	
C	LD4	C	2016	99999999	8.9	100	8.9	
C	LD4	C+	2016	99999999	8.9	110	9.79	
C	LD4	D-	2016	99999999	8.9	75	6.68	
C	LD4	D	2016	99999999	8.9	85	7.57	
C	LD4	D+	2016	99999999	8.9	90	8.01	
C	LD4	E-	2016	99999999	8.9	45	4.01	
C	LD4	E	2016	99999999	8.9	55	4.9	
C	LD4	E+	2016	99999999	8.9	65	5.79	
C	LPL1	*	2016	99999	1500	100	1500	
C	LPL1	*	2016	1	1500	100	1500	
C	LPL2	*	2016	99999	1800	100	1800	
C	LPL2	*	2016	1	1800	100	1800	
C	LPL3	*	2016	99999	2100	100	2100	
C	LPL3	*	2016	1	2100	100	2100	
C	LPL4	*	2016	99999	2400	100	2400	
C	LPL4	*	2016	1	2400	100	2400	
C	MHPK	A	2016	999999	0.01	100	0.01	
C	MHPK	C	2016	999999	0.01	100	0.01	
C	MHPK	E	2016	999999	0.01	100	0.01	
C	MHPK	G	2016	999999	0.01	100	0.01	
C	MHPK	L	2016	999999	0.01	100	0.01	
C	MS1	*	2016	99999999	1.06	100	1.06	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	MS1	*	2016	1	1.06	100	1.06	
C	MS1	A-	2016	99999999	1.06	145	1.54	
C	MS1	A	2016	99999999	1.06	155	1.64	
C	MS1	A+	2016	99999999	1.06	175	1.86	
C	MS1	AA-	2016	99999999	1.06	200	2.12	
C	MS1	AA	2016	99999999	1.06	250	2.65	
C	MS1	AA+	2016	99999999	1.06	325	3.45	
C	MS1	B-	2016	99999999	1.06	120	1.27	
C	MS1	B	2016	99999999	1.06	128	1.36	
C	MS1	B+	2016	99999999	1.06	135	1.43	
C	MS1	C-	2016	99999999	1.06	95	1.01	
C	MS1	C	2016	99999999	1.06	100	1.06	
C	MS1	C+	2016	99999999	1.06	110	1.17	
C	MS1	D-	2016	99999999	1.06	75	0.8	
C	MS1	D	2016	99999999	1.06	85	0.9	
C	MS1	D+	2016	99999999	1.06	90	0.95	
C	MS1	E-	2016	99999999	1.06	45	0.48	
C	MS1	E	2016	99999999	1.06	55	0.58	
C	MS1	E+	2016	99999999	1.06	65	0.69	
C	OA1	*	2016	99999999	4.61	100	4.61	
C	OA1	*	2016	1	4.61	100	4.61	
C	OA1	A-	2016	99999999	4.61	145	6.68	
C	OA1	A	2016	99999999	4.61	155	7.15	
C	OA1	A+	2016	99999999	4.61	175	8.07	
C	OA1	AA-	2016	99999999	4.61	200	9.22	
C	OA1	AA	2016	99999999	4.61	250	11.53	
C	OA1	AA+	2016	99999999	4.61	325	14.98	
C	OA1	B-	2016	99999999	4.61	120	5.53	
C	OA1	B	2016	99999999	4.61	128	5.9	
C	OA1	B+	2016	99999999	4.61	135	6.22	
C	OA1	C-	2016	99999999	4.61	95	4.38	
C	OA1	C	2016	99999999	4.61	100	4.61	
C	OA1	C+	2016	99999999	4.61	110	5.07	
C	OA1	D-	2016	99999999	4.61	75	3.46	
C	OA1	D	2016	99999999	4.61	85	3.92	
C	OA1	D+	2016	99999999	4.61	90	4.15	
C	OA1	E-	2016	99999999	4.61	45	2.07	
C	OA1	E	2016	99999999	4.61	55	2.54	
C	OA1	E+	2016	99999999	4.61	65	3	
C	OA2	*	2016	99999999	4.24	100	4.24	
C	OA2	*	2016	1	4.24	100	4.24	
C	OA2	A-	2016	99999999	4.24	145	6.15	
C	OA2	A	2016	99999999	4.24	155	6.57	
C	OA2	A+	2016	99999999	4.24	175	7.42	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	OA2	AA-	2016	99999999	4.24	200	8.48	
C	OA2	AA	2016	99999999	4.24	250	10.6	
C	OA2	AA+	2016	99999999	4.24	325	13.78	
C	OA2	B-	2016	99999999	4.24	120	5.09	
C	OA2	B	2016	99999999	4.24	128	5.43	
C	OA2	B+	2016	99999999	4.24	135	5.72	
C	OA2	C-	2016	99999999	4.24	95	4.03	
C	OA2	C	2016	99999999	4.24	100	4.24	
C	OA2	C+	2016	99999999	4.24	110	4.66	
C	OA2	D-	2016	99999999	4.24	75	3.18	
C	OA2	D	2016	99999999	4.24	85	3.6	
C	OA2	D+	2016	99999999	4.24	90	3.82	
C	OA2	E-	2016	99999999	4.24	45	1.91	
C	OA2	E	2016	99999999	4.24	55	2.33	
C	OA2	E+	2016	99999999	4.24	65	2.76	
C	OA3	*	2016	99999999	4.98	100	4.98	
C	OA3	*	2016	1	4.98	100	4.98	
C	OA3	A-	2016	99999999	4.98	145	7.22	
C	OA3	A	2016	99999999	4.98	155	7.72	
C	OA3	A+	2016	99999999	4.98	175	8.72	
C	OA3	AA-	2016	99999999	4.98	200	9.96	
C	OA3	AA	2016	99999999	4.98	250	12.45	
C	OA3	AA+	2016	99999999	4.98	325	16.19	
C	OA3	B-	2016	99999999	4.98	120	5.98	
C	OA3	B	2016	99999999	4.98	128	6.37	
C	OA3	B+	2016	99999999	4.98	135	6.72	
C	OA3	C-	2016	99999999	4.98	95	4.73	
C	OA3	C	2016	99999999	4.98	100	4.98	
C	OA3	C+	2016	99999999	4.98	110	5.48	
C	OA3	D-	2016	99999999	4.98	75	3.74	
C	OA3	D	2016	99999999	4.98	85	4.23	
C	OA3	D+	2016	99999999	4.98	90	4.48	
C	OA3	E-	2016	99999999	4.98	45	2.24	
C	OA3	E	2016	99999999	4.98	55	2.74	
C	OA3	E+	2016	99999999	4.98	65	3.24	
C	OA4	*	2016	99999999	4.98	100	4.98	
C	OA4	*	2016	1	4.98	100	4.98	
C	OA4	A-	2016	99999999	4.98	145	7.22	
C	OA4	A	2016	99999999	4.98	155	7.72	
C	OA4	A+	2016	99999999	4.98	175	8.72	
C	OA4	AA-	2016	99999999	4.98	200	9.96	
C	OA4	AA	2016	99999999	4.98	250	12.45	
C	OA4	AA+	2016	99999999	4.98	325	16.19	
C	OA4	B-	2016	99999999	4.98	120	5.98	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	OA4	B	2016	99999999	4.98	128	6.37	
C	OA4	B+	2016	99999999	4.98	135	6.72	
C	OA4	C-	2016	99999999	4.98	95	4.73	
C	OA4	C	2016	99999999	4.98	100	4.98	
C	OA4	C+	2016	99999999	4.98	110	5.48	
C	OA4	D-	2016	99999999	4.98	75	3.74	
C	OA4	D	2016	99999999	4.98	85	4.23	
C	OA4	D+	2016	99999999	4.98	90	4.48	
C	OA4	E-	2016	99999999	4.98	45	2.24	
C	OA4	E	2016	99999999	4.98	55	2.74	
C	OA4	E+	2016	99999999	4.98	65	3.24	
C	OA5	*	2016	99999999	6.1	100	6.1	
C	OA5	*	2016	1	6.1	100	6.1	
C	OA5	A-	2016	99999999	6.1	145	8.85	
C	OA5	A	2016	99999999	6.1	155	9.46	
C	OA5	A+	2016	99999999	6.1	175	10.68	
C	OA5	AA-	2016	99999999	6.1	200	12.2	
C	OA5	AA	2016	99999999	6.1	250	15.25	
C	OA5	AA+	2016	99999999	6.1	325	19.83	
C	OA5	B-	2016	99999999	6.1	120	7.32	
C	OA5	B	2016	99999999	6.1	128	7.81	
C	OA5	B+	2016	99999999	6.1	135	8.24	
C	OA5	C-	2016	99999999	6.1	95	5.8	
C	OA5	C	2016	99999999	6.1	100	6.1	
C	OA5	C+	2016	99999999	6.1	110	6.71	
C	OA5	D-	2016	99999999	6.1	75	4.58	
C	OA5	D	2016	99999999	6.1	85	5.19	
C	OA5	D+	2016	99999999	6.1	90	5.49	
C	OA5	E-	2016	99999999	6.1	45	2.75	
C	OA5	E	2016	99999999	6.1	55	3.36	
C	OA5	E+	2016	99999999	6.1	65	3.97	
C	OA6	*	2016	99999999	6.57	100	6.57	
C	OA6	*	2016	1	6.57	100	6.57	
C	OA6	A-	2016	99999999	6.57	145	9.53	
C	OA6	A	2016	99999999	6.57	155	10.18	
C	OA6	A+	2016	99999999	6.57	175	11.5	
C	OA6	AA-	2016	99999999	6.57	200	13.14	
C	OA6	AA	2016	99999999	6.57	250	16.43	
C	OA6	AA+	2016	99999999	6.57	325	21.35	
C	OA6	B-	2016	99999999	6.57	120	7.88	
C	OA6	B	2016	99999999	6.57	128	8.41	
C	OA6	B+	2016	99999999	6.57	135	8.87	
C	OA6	C-	2016	99999999	6.57	95	6.24	
C	OA6	C	2016	99999999	6.57	100	6.57	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	OA6	C+	2016	99999999	6.57	110	7.23	
C	OA6	D-	2016	99999999	6.57	75	4.93	
C	OA6	D	2016	99999999	6.57	85	5.58	
C	OA6	D+	2016	99999999	6.57	90	5.91	
C	OA6	E-	2016	99999999	6.57	45	2.96	
C	OA6	E	2016	99999999	6.57	55	3.61	
C	OA6	E+	2016	99999999	6.57	65	4.27	
C	OA7	*	2016	99999999	3.6	100	3.6	
C	OA7	*	2016	1	3.6	100	3.6	
C	OA7	A-	2016	99999999	3.6	145	5.22	
C	OA7	A	2016	99999999	3.6	155	5.58	
C	OA7	A+	2016	99999999	3.6	175	6.3	
C	OA7	AA-	2016	99999999	3.6	200	7.2	
C	OA7	AA	2016	99999999	3.6	250	9	
C	OA7	AA+	2016	99999999	3.6	325	11.7	
C	OA7	B-	2016	99999999	3.6	120	4.32	
C	OA7	B	2016	99999999	3.6	128	4.61	
C	OA7	B+	2016	99999999	3.6	135	4.86	
C	OA7	C-	2016	99999999	3.6	95	3.42	
C	OA7	C	2016	99999999	3.6	100	3.6	
C	OA7	C+	2016	99999999	3.6	110	3.96	
C	OA7	D-	2016	99999999	3.6	75	2.7	
C	OA7	D	2016	99999999	3.6	85	3.06	
C	OA7	D+	2016	99999999	3.6	90	3.24	
C	OA7	E-	2016	99999999	3.6	45	1.62	
C	OA7	E	2016	99999999	3.6	55	1.98	
C	OA7	E+	2016	99999999	3.6	65	2.34	
C	OA8	*	2016	99999999	6.2	100	6.2	
C	OA8	*	2016	1	6.2	100	6.2	
C	OA8	A-	2016	99999999	6.2	145	8.99	
C	OA8	A	2016	99999999	6.2	155	9.61	
C	OA8	A+	2016	99999999	6.2	175	10.85	
C	OA8	AA-	2016	99999999	6.2	200	12.4	
C	OA8	AA	2016	99999999	6.2	250	15.5	
C	OA8	AA+	2016	99999999	6.2	325	20.15	
C	OA8	B-	2016	99999999	6.2	120	7.44	
C	OA8	B	2016	99999999	6.2	128	7.94	
C	OA8	B+	2016	99999999	6.2	135	8.37	
C	OA8	C-	2016	99999999	6.2	95	5.89	
C	OA8	C	2016	99999999	6.2	100	6.2	
C	OA8	C+	2016	99999999	6.2	110	6.82	
C	OA8	D-	2016	99999999	6.2	75	4.65	
C	OA8	D	2016	99999999	6.2	85	5.27	
C	OA8	D+	2016	99999999	6.2	90	5.58	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	OA8	E-	2016	99999999	6.2	45	2.79	
C	OA8	E	2016	99999999	6.2	55	3.41	
C	OA8	E+	2016	99999999	6.2	65	4.03	
C	OA9	*	2016	99999999	4.98	100	4.98	
C	OA9	*	2016	1	4.98	100	4.98	
C	OD1	*	2016	99999999	8.64	100	8.64	
C	OD1	*	2016	1	8.64	100	8.64	
C	OD1	A-	2016	99999999	8.64	145	12.53	
C	OD1	A	2016	99999999	8.64	155	13.39	
C	OD1	A+	2016	99999999	8.64	175	15.12	
C	OD1	AA-	2016	99999999	8.64	200	17.28	
C	OD1	AA	2016	99999999	8.64	250	21.6	
C	OD1	AA+	2016	99999999	8.64	325	28.08	
C	OD1	B-	2016	99999999	8.64	120	10.37	
C	OD1	B	2016	99999999	8.64	128	11.06	
C	OD1	B+	2016	99999999	8.64	135	11.66	
C	OD1	C-	2016	99999999	8.64	95	8.21	
C	OD1	C	2016	99999999	8.64	100	8.64	
C	OD1	C+	2016	99999999	8.64	110	9.5	
C	OD1	D-	2016	99999999	8.64	75	6.48	
C	OD1	D	2016	99999999	8.64	85	7.34	
C	OD1	D+	2016	99999999	8.64	90	7.78	
C	OD1	E-	2016	99999999	8.64	45	3.89	
C	OD1	E	2016	99999999	8.64	55	4.75	
C	OD1	E+	2016	99999999	8.64	65	5.62	
C	OD2	*	2016	99999999	13.67	100	13.67	
C	OD2	*	2016	1	13.67	100	13.67	
C	OD2	A-	2016	99999999	13.67	145	19.82	
C	OD2	A	2016	99999999	13.67	155	21.19	
C	OD2	A+	2016	99999999	13.67	175	23.92	
C	OD2	AA-	2016	99999999	13.67	200	27.34	
C	OD2	AA	2016	99999999	13.67	250	34.18	
C	OD2	AA+	2016	99999999	13.67	325	44.43	
C	OD2	B-	2016	99999999	13.67	120	16.4	
C	OD2	B	2016	99999999	13.67	128	17.5	
C	OD2	B+	2016	99999999	13.67	135	18.45	
C	OD2	C-	2016	99999999	13.67	95	12.99	
C	OD2	C	2016	99999999	13.67	100	13.67	
C	OD2	C+	2016	99999999	13.67	110	15.04	
C	OD2	D-	2016	99999999	13.67	75	10.25	
C	OD2	D	2016	99999999	13.67	85	11.62	
C	OD2	D+	2016	99999999	13.67	90	12.3	
C	OD2	E-	2016	99999999	13.67	45	6.15	
C	OD2	E	2016	99999999	13.67	55	7.52	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	OD2	E+	2016	99999999	13.67	65	8.89	
C	PA1	*	2016	99999999	1.11	100	1.11	0
C	PA1	*	2016	1	1.11	100	1.11	0
C	PA2	*	2016	99999999	1.27	100	1.27	0
C	PA2	*	2016	1	1.27	100	1.27	0
C	PB1	*	2016	99999999	498.2	100	498.2	
C	PB1	A-	2016	99999999	498.2	145	722.39	
C	PB1	A	2016	99999999	498.2	155	772.21	
C	PB1	A+	2016	99999999	498.2	175	871.85	
C	PB1	AA-	2016	99999999	498.2	200	996.4	
C	PB1	AA	2016	99999999	498.2	250	1245.5	
C	PB1	AA+	2016	99999999	498.2	325	1619.15	
C	PB1	B-	2016	99999999	498.2	120	597.84	
C	PB1	B	2016	99999999	498.2	128	637.7	
C	PB1	B+	2016	99999999	498.2	135	672.57	
C	PB1	C-	2016	99999999	498.2	95	473.29	
C	PB1	C	2016	99999999	498.2	100	498.2	
C	PB1	C+	2016	99999999	498.2	110	548.02	
C	PB1	D-	2016	99999999	498.2	75	373.65	
C	PB1	D	2016	99999999	498.2	85	423.47	
C	PB1	D+	2016	99999999	498.2	90	448.38	
C	PB1	E-	2016	99999999	498.2	45	224.19	
C	PB1	E	2016	99999999	498.2	55	274.01	
C	PB1	E+	2016	99999999	498.2	65	323.83	
C	PC1	*	2016	99999999	2.07	100	2.07	0
C	PC1	*	2016	1	2.07	100	2.07	0
C	PC2	*	2016	99999999	2.28	100	2.28	0
C	PC2	*	2016	1	2.28	100	2.28	0
C	PC3	*	2016	99999999	3.13	100	3.13	0
C	PC3	*	2016	1	3.13	100	3.13	0
C	PG	1	2016	99999999	1500	100	1500	
C	PG	2	2016	99999999	2500	100	2500	
C	PG	3	2016	99999999	3500	100	3500	
C	PG	4	2016	99999999	4500	100	4500	
C	PG	*	2016	99999999	3500	100	3500	
C	RC1	*	2016	99999999	4.82	100	4.82	
C	RC1	*	2016	1	4.82	100	4.82	
C	RC1	A-	2016	99999999	4.82	145	6.99	
C	RC1	A	2016	99999999	4.82	155	7.47	
C	RC1	A+	2016	99999999	4.82	175	8.44	
C	RC1	AA-	2016	99999999	4.82	200	9.64	
C	RC1	AA	2016	99999999	4.82	250	12.05	
C	RC1	AA+	2016	99999999	4.82	325	15.67	
C	RC1	B-	2016	99999999	4.82	120	5.78	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	RC1	B	2016	99999999	4.82	128	6.17	
C	RC1	B+	2016	99999999	4.82	135	6.51	
C	RC1	C-	2016	99999999	4.82	95	4.58	
C	RC1	C	2016	99999999	4.82	100	4.82	
C	RC1	C+	2016	99999999	4.82	110	5.3	
C	RC1	D-	2016	99999999	4.82	75	3.62	
C	RC1	D	2016	99999999	4.82	85	4.1	
C	RC1	D+	2016	99999999	4.82	90	4.34	
C	RC1	E-	2016	99999999	4.82	45	2.17	
C	RC1	E	2016	99999999	4.82	55	2.65	
C	RC1	E+	2016	99999999	4.82	65	3.13	
C	RG1	*	2016	99999999	10.6	100	10.6	
C	RG1	*	2016	1	10.6	100	10.6	
C	RG1	A-	2016	99999999	10.6	145	15.37	
C	RG1	A	2016	99999999	10.6	155	16.43	
C	RG1	A+	2016	99999999	10.6	175	18.55	
C	RG1	AA-	2016	99999999	10.6	200	21.2	
C	RG1	AA	2016	99999999	10.6	250	26.5	
C	RG1	AA+	2016	99999999	10.6	325	34.45	
C	RG1	B-	2016	99999999	10.6	120	12.72	
C	RG1	B	2016	99999999	10.6	128	13.57	
C	RG1	B+	2016	99999999	10.6	135	14.31	
C	RG1	C-	2016	99999999	10.6	95	10.07	
C	RG1	C	2016	99999999	10.6	100	10.6	
C	RG1	C+	2016	99999999	10.6	110	11.66	
C	RG1	D-	2016	99999999	10.6	75	7.95	
C	RG1	D	2016	99999999	10.6	85	9.01	
C	RG1	D+	2016	99999999	10.6	90	9.54	
C	RG1	E-	2016	99999999	10.6	45	4.77	
C	RG1	E	2016	99999999	10.6	55	5.83	
C	RG1	E+	2016	99999999	10.6	65	6.89	
C	RG2	*	2016	99999999	13.57	100	13.57	
C	RG2	*	2016	1	13.57	100	13.57	
C	RG2	A-	2016	99999999	13.57	145	19.68	
C	RG2	A	2016	99999999	13.57	155	21.03	
C	RG2	A+	2016	99999999	13.57	175	23.75	
C	RG2	AA-	2016	99999999	13.57	200	27.14	
C	RG2	AA	2016	99999999	13.57	250	33.93	
C	RG2	AA+	2016	99999999	13.57	325	44.1	
C	RG2	B-	2016	99999999	13.57	120	16.28	
C	RG2	B	2016	99999999	13.57	128	17.37	
C	RG2	B+	2016	99999999	13.57	135	18.32	
C	RG2	C-	2016	99999999	13.57	95	12.89	
C	RG2	C	2016	99999999	13.57	100	13.57	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	RG2	C+	2016	99999999	13.57	110	14.93	
C	RG2	D-	2016	99999999	13.57	75	10.18	
C	RG2	D	2016	99999999	13.57	85	11.53	
C	RG2	D+	2016	99999999	13.57	90	12.21	
C	RG2	E-	2016	99999999	13.57	45	6.11	
C	RG2	E	2016	99999999	13.57	55	7.46	
C	RG2	E+	2016	99999999	13.57	65	8.82	
C	RG4	*	2016	99999999	11.02	100	11.02	
C	RG4	*	2016	1	11.02	100	11.02	
C	RG4	A-	2016	99999999	11.02	145	15.98	
C	RG4	A	2016	99999999	11.02	155	17.08	
C	RG4	A+	2016	99999999	11.02	175	19.29	
C	RG4	AA-	2016	99999999	11.02	200	22.04	
C	RG4	AA	2016	99999999	11.02	250	27.55	
C	RG4	AA+	2016	99999999	11.02	325	35.82	
C	RG4	B-	2016	99999999	11.02	120	13.22	
C	RG4	B	2016	99999999	11.02	128	14.11	
C	RG4	B+	2016	99999999	11.02	135	14.88	
C	RG4	C-	2016	99999999	11.02	95	10.47	
C	RG4	C	2016	99999999	11.02	100	11.02	
C	RG4	C+	2016	99999999	11.02	110	12.12	
C	RG4	D-	2016	99999999	11.02	75	8.27	
C	RG4	D	2016	99999999	11.02	85	9.37	
C	RG4	D+	2016	99999999	11.02	90	9.92	
C	RG4	E-	2016	99999999	11.02	45	4.96	
C	RG4	E	2016	99999999	11.02	55	6.06	
C	RG4	E+	2016	99999999	11.02	65	7.16	
C	RG5	*	2016	99999999	16.96	100	16.96	
C	RG5	*	2016	1	16.96	100	16.96	
C	RG5	A-	2016	99999999	16.96	145	24.59	
C	RG5	A	2016	99999999	16.96	155	26.29	
C	RG5	A+	2016	99999999	16.96	175	29.68	
C	RG5	AA-	2016	99999999	16.96	200	33.92	
C	RG5	AA	2016	99999999	16.96	250	42.4	
C	RG5	AA+	2016	99999999	16.96	325	55.12	
C	RG5	B-	2016	99999999	16.96	120	20.35	
C	RG5	B	2016	99999999	16.96	128	21.71	
C	RG5	B+	2016	99999999	16.96	135	22.9	
C	RG5	C-	2016	99999999	16.96	95	16.11	
C	RG5	C	2016	99999999	16.96	100	16.96	
C	RG5	C+	2016	99999999	16.96	110	18.66	
C	RG5	D-	2016	99999999	16.96	75	12.72	
C	RG5	D	2016	99999999	16.96	85	14.42	
C	RG5	D+	2016	99999999	16.96	90	15.26	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	RG5	E-	2016	99999999	16.96	45	7.63	
C	RG5	E	2016	99999999	16.96	55	9.33	
C	RG5	E+	2016	99999999	16.96	65	11.02	
C	RP1	*	2016	99999999	9.33	100	9.33	
C	RP1	*	2016	1	9.33	100	9.33	
C	RP1	A-	2016	99999999	9.33	145	13.53	
C	RP1	A	2016	99999999	9.33	155	14.46	
C	RP1	A+	2016	99999999	9.33	175	16.33	
C	RP1	AA-	2016	99999999	9.33	200	18.66	
C	RP1	AA	2016	99999999	9.33	250	23.33	
C	RP1	AA+	2016	99999999	9.33	325	30.32	
C	RP1	B-	2016	99999999	9.33	120	11.2	
C	RP1	B	2016	99999999	9.33	128	11.94	
C	RP1	B+	2016	99999999	9.33	135	12.6	
C	RP1	C-	2016	99999999	9.33	95	8.86	
C	RP1	C	2016	99999999	9.33	100	9.33	
C	RP1	C+	2016	99999999	9.33	110	10.26	
C	RP1	D-	2016	99999999	9.33	75	7	
C	RP1	D	2016	99999999	9.33	85	7.93	
C	RP1	D+	2016	99999999	9.33	90	8.4	
C	RP1	E-	2016	99999999	9.33	45	4.2	
C	RP1	E	2016	99999999	9.33	55	5.13	
C	RP1	E+	2016	99999999	9.33	65	6.06	
C	RP2	*	2016	99999999	16.22	100	16.22	
C	RP2	*	2016	1	16.22	100	16.22	
C	RP3	*	2016	99999999	5.51	100	5.51	
C	RP3	*	2016	1	5.51	100	5.51	
C	RP3	A-	2016	99999999	5.51	145	7.99	
C	RP3	A	2016	99999999	5.51	155	8.54	
C	RP3	A+	2016	99999999	5.51	175	9.64	
C	RP3	AA-	2016	99999999	5.51	200	11.02	
C	RP3	AA	2016	99999999	5.51	250	13.78	
C	RP3	AA+	2016	99999999	5.51	325	17.91	
C	RP3	B-	2016	99999999	5.51	120	6.61	
C	RP3	B	2016	99999999	5.51	128	7.05	
C	RP3	B+	2016	99999999	5.51	135	7.44	
C	RP3	C-	2016	99999999	5.51	95	5.23	
C	RP3	C	2016	99999999	5.51	100	5.51	
C	RP3	C+	2016	99999999	5.51	110	6.06	
C	RP3	D-	2016	99999999	5.51	75	4.13	
C	RP3	D	2016	99999999	5.51	85	4.68	
C	RP3	D+	2016	99999999	5.51	90	4.96	
C	RP3	E-	2016	99999999	5.51	45	2.48	
C	RP3	E	2016	99999999	5.51	55	3.03	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	RP3	E+	2016	99999999	5.51	65	3.58	
C	RP4	*	2016	99999999	9.33	100	9.33	
C	RP4	*	2016	1	9.33	100	9.33	
C	RP4	A-	2016	99999999	9.33	145	13.53	
C	RP4	A	2016	99999999	9.33	155	14.46	
C	RP4	A+	2016	99999999	9.33	175	16.33	
C	RP4	AA-	2016	99999999	9.33	200	18.66	
C	RP4	AA	2016	99999999	9.33	250	23.33	
C	RP4	AA+	2016	99999999	9.33	325	30.32	
C	RP4	B-	2016	99999999	9.33	120	11.2	
C	RP4	B	2016	99999999	9.33	128	11.94	
C	RP4	B+	2016	99999999	9.33	135	12.6	
C	RP4	C-	2016	99999999	9.33	95	8.86	
C	RP4	C	2016	99999999	9.33	100	9.33	
C	RP4	C+	2016	99999999	9.33	110	10.26	
C	RP4	D-	2016	99999999	9.33	75	7	
C	RP4	D	2016	99999999	9.33	85	7.93	
C	RP4	D+	2016	99999999	9.33	90	8.4	
C	RP4	E-	2016	99999999	9.33	45	4.2	
C	RP4	E	2016	99999999	9.33	55	5.13	
C	RP4	E+	2016	99999999	9.33	65	6.06	
C	RS1	*	2016	99999999	5.51	100	5.51	
C	RS1	*	2016	1	5.51	100	5.51	
C	RS1	A-	2016	99999999	5.51	145	7.99	
C	RS1	A	2016	99999999	5.51	155	8.54	
C	RS1	A+	2016	99999999	5.51	175	9.64	
C	RS1	AA-	2016	99999999	5.51	200	11.02	
C	RS1	AA	2016	99999999	5.51	250	13.78	
C	RS1	AA+	2016	99999999	5.51	325	17.91	
C	RS1	B-	2016	99999999	5.51	120	6.61	
C	RS1	B	2016	99999999	5.51	128	7.05	
C	RS1	B+	2016	99999999	5.51	135	7.44	
C	RS1	C-	2016	99999999	5.51	95	5.23	
C	RS1	C	2016	99999999	5.51	100	5.51	
C	RS1	C+	2016	99999999	5.51	110	6.06	
C	RS1	D-	2016	99999999	5.51	75	4.13	
C	RS1	D	2016	99999999	5.51	85	4.68	
C	RS1	D+	2016	99999999	5.51	90	4.96	
C	RS1	E-	2016	99999999	5.51	45	2.48	
C	RS1	E	2016	99999999	5.51	55	3.03	
C	RS1	E+	2016	99999999	5.51	65	3.58	
C	RS2	*	2016	99999999	7.31	100	7.31	
C	RS2	*	2016	1	7.31	100	7.31	
C	RS2	A-	2016	99999999	7.31	145	10.6	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	RS2	A	2016	99999999	7.31	155	11.33	
C	RS2	A+	2016	99999999	7.31	175	12.79	
C	RS2	AA-	2016	99999999	7.31	200	14.62	
C	RS2	AA	2016	99999999	7.31	250	18.28	
C	RS2	AA+	2016	99999999	7.31	325	23.76	
C	RS2	B-	2016	99999999	7.31	120	8.77	
C	RS2	B	2016	99999999	7.31	128	9.36	
C	RS2	B+	2016	99999999	7.31	135	9.87	
C	RS2	C-	2016	99999999	7.31	95	6.94	
C	RS2	C	2016	99999999	7.31	100	7.31	
C	RS2	C+	2016	99999999	7.31	110	8.04	
C	RS2	D-	2016	99999999	7.31	75	5.48	
C	RS2	D	2016	99999999	7.31	85	6.21	
C	RS2	D+	2016	99999999	7.31	90	6.58	
C	RS2	E-	2016	99999999	7.31	45	3.29	
C	RS2	E	2016	99999999	7.31	55	4.02	
C	RS2	E+	2016	99999999	7.31	65	4.75	
C	RS3	*	2016	99999999	8.48	100	8.48	
C	RS3	*	2016	1	8.48	100	8.48	
C	RS3	A-	2016	99999999	8.48	145	12.3	
C	RS3	A	2016	99999999	8.48	155	13.14	
C	RS3	A+	2016	99999999	8.48	175	14.84	
C	RS3	AA-	2016	99999999	8.48	200	16.96	
C	RS3	AA	2016	99999999	8.48	250	21.2	
C	RS3	AA+	2016	99999999	8.48	325	27.56	
C	RS3	B-	2016	99999999	8.48	120	10.18	
C	RS3	B	2016	99999999	8.48	128	10.85	
C	RS3	B+	2016	99999999	8.48	135	11.45	
C	RS3	C-	2016	99999999	8.48	95	8.06	
C	RS3	C	2016	99999999	8.48	100	8.48	
C	RS3	C+	2016	99999999	8.48	110	9.33	
C	RS3	D-	2016	99999999	8.48	75	6.36	
C	RS3	D	2016	99999999	8.48	85	7.21	
C	RS3	D+	2016	99999999	8.48	90	7.63	
C	RS3	E-	2016	99999999	8.48	45	3.82	
C	RS3	E	2016	99999999	8.48	55	4.66	
C	RS3	E+	2016	99999999	8.48	65	5.51	
C	RTA	*	2016	99999999	30	100	30	
C	RTA1	*	2016	99999999	30	100	30	
C	RTA2	*	2016	99999999	20	100	20	
C	RTT	3	2016	99999999	509571	50	254785.5	0
C	RTT	6	2016	99999999	509571	100	509571	0
C	RTT	*	2016	99999999	509571	100	509571	0
C	RVPK	A	2016	999999	0.01	100	0.01	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	RVPK	C	2016	999999	0.01	100	0.01	
C	RVPK	E	2016	999999	0.01	100	0.01	
C	RVPK	G	2016	999999	0.01	100	0.01	
C	RVPK	L	2016	9999999	0.01	100	0.01	
C	SC1	*	2016	99999999	35.4	100	35.4	
C	SC1	*	2016	1	35.4	100	35.4	
C	SC2	*	2016	99999999	31.16	100	31.16	
C	SC2	*	2016	1	31.16	100	31.16	
C	SC2	A-	2016	99999999	31.16	145	45.18	
C	SC2	A	2016	99999999	31.16	155	48.3	
C	SC2	A+	2016	99999999	31.16	175	54.53	
C	SC2	AA-	2016	99999999	31.16	200	62.32	
C	SC2	AA	2016	99999999	31.16	250	77.9	
C	SC2	AA+	2016	99999999	31.16	325	101.27	
C	SC2	B-	2016	99999999	31.16	120	37.39	
C	SC2	B	2016	99999999	31.16	128	39.88	
C	SC2	B+	2016	99999999	31.16	135	42.07	
C	SC2	C-	2016	99999999	31.16	95	29.6	
C	SC2	C	2016	99999999	31.16	100	31.16	
C	SC2	C+	2016	99999999	31.16	110	34.28	
C	SC2	D-	2016	99999999	31.16	75	23.37	
C	SC2	D	2016	99999999	31.16	85	26.49	
C	SC2	D+	2016	99999999	31.16	90	28.04	
C	SC2	E-	2016	99999999	31.16	45	14.02	
C	SC2	E	2016	99999999	31.16	55	17.14	
C	SC2	E+	2016	99999999	31.16	65	20.25	
C	SF1	*	2016	99999999	62.38	100	62.38	
C	SF1	*	2016	1	62.38	100	62.38	
C	SF1	A-	2016	99999999	62.38	145	90.45	
C	SF1	A	2016	99999999	62.38	155	96.69	
C	SF1	A+	2016	99999999	62.38	175	109.17	
C	SF1	AA-	2016	99999999	62.38	200	124.76	
C	SF1	AA	2016	99999999	62.38	250	155.95	
C	SF1	AA+	2016	99999999	62.38	325	202.74	
C	SF1	B-	2016	99999999	62.38	120	74.86	
C	SF1	B	2016	99999999	62.38	128	79.85	
C	SF1	B+	2016	99999999	62.38	135	84.21	
C	SF1	C-	2016	99999999	62.38	95	59.26	
C	SF1	C	2016	99999999	62.38	100	62.38	
C	SF1	C+	2016	99999999	62.38	110	68.62	
C	SF1	D-	2016	99999999	62.38	75	46.79	
C	SF1	D	2016	99999999	62.38	85	53.02	
C	SF1	D+	2016	99999999	62.38	90	56.14	
C	SF1	E-	2016	99999999	62.38	45	28.07	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	SF1	E	2016	99999999	62.38	55	34.31	
C	SF1	E+	2016	99999999	62.38	65	40.55	
C	SF2	*	2016	99999999	124.76	100	124.76	
C	SF2	*	2016	1	124.76	100	124.76	
C	SF2	A-	2016	99999999	124.76	145	180.9	
C	SF2	A	2016	99999999	124.76	155	193.38	
C	SF2	A+	2016	99999999	124.76	175	218.33	
C	SF2	AA-	2016	99999999	124.76	200	249.52	
C	SF2	AA	2016	99999999	124.76	250	311.9	
C	SF2	AA+	2016	99999999	124.76	325	405.47	
C	SF2	B-	2016	99999999	124.76	120	149.71	
C	SF2	B	2016	99999999	124.76	128	159.69	
C	SF2	B+	2016	99999999	124.76	135	168.43	
C	SF2	C-	2016	99999999	124.76	95	118.52	
C	SF2	C	2016	99999999	124.76	100	124.76	
C	SF2	C+	2016	99999999	124.76	110	137.24	
C	SF2	D-	2016	99999999	124.76	75	93.57	
C	SF2	D	2016	99999999	124.76	85	106.05	
C	SF2	D+	2016	99999999	124.76	90	112.28	
C	SF2	E-	2016	99999999	124.76	45	56.14	
C	SF2	E	2016	99999999	124.76	55	68.62	
C	SF2	E+	2016	99999999	124.76	65	81.09	
C	SF3	*	2016	99999999	187.14	100	187.14	
C	SF3	*	2016	1	187.14	100	187.14	
C	SF3	A-	2016	99999999	187.14	145	271.35	
C	SF3	A	2016	99999999	187.14	155	290.07	
C	SF3	A+	2016	99999999	187.14	175	327.5	
C	SF3	AA-	2016	99999999	187.14	200	374.28	
C	SF3	AA	2016	99999999	187.14	250	467.85	
C	SF3	AA+	2016	99999999	187.14	325	608.21	
C	SF3	B-	2016	99999999	187.14	120	224.57	
C	SF3	B	2016	99999999	187.14	128	239.54	
C	SF3	B+	2016	99999999	187.14	135	252.64	
C	SF3	C-	2016	99999999	187.14	95	177.78	
C	SF3	C	2016	99999999	187.14	100	187.14	
C	SF3	C+	2016	99999999	187.14	110	205.85	
C	SF3	D-	2016	99999999	187.14	75	140.36	
C	SF3	D	2016	99999999	187.14	85	159.07	
C	SF3	D+	2016	99999999	187.14	90	168.43	
C	SF3	E-	2016	99999999	187.14	45	84.21	
C	SF3	E	2016	99999999	187.14	55	102.93	
C	SF3	E+	2016	99999999	187.14	65	121.64	
C	SH1	*	2016	99999999	6.15	100	6.15	
C	SH1	*	2016	1	6.15	100	6.15	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	SH2	*	2016	99999999	7.58	100	7.58	
C	SH2	*	2016	1	7.58	100	7.58	
C	SH2	A-	2016	99999999	7.58	145	10.99	
C	SH2	A	2016	99999999	7.58	155	11.75	
C	SH2	A+	2016	99999999	7.58	175	13.27	
C	SH2	AA-	2016	99999999	7.58	200	15.16	
C	SH2	AA	2016	99999999	7.58	250	18.95	
C	SH2	AA+	2016	99999999	7.58	325	24.64	
C	SH2	B-	2016	99999999	7.58	120	9.1	
C	SH2	B	2016	99999999	7.58	128	9.7	
C	SH2	B+	2016	99999999	7.58	135	10.23	
C	SH2	C-	2016	99999999	7.58	95	7.2	
C	SH2	C	2016	99999999	7.58	100	7.58	
C	SH2	C+	2016	99999999	7.58	110	8.34	
C	SH2	D-	2016	99999999	7.58	75	5.69	
C	SH2	D	2016	99999999	7.58	85	6.44	
C	SH2	D+	2016	99999999	7.58	90	6.82	
C	SH2	E-	2016	99999999	7.58	45	3.41	
C	SH2	E	2016	99999999	7.58	55	4.17	
C	SH2	E+	2016	99999999	7.58	65	4.93	
C	SH3	*	2016	99999999	10.81	100	10.81	
C	SH3	*	2016	1	10.81	100	10.81	
C	SH4	*	2016	99999999	8.8	100	8.8	
C	SH4	*	2016	1	8.8	100	8.8	
C	SH4	A-	2016	99999999	8.8	145	12.76	
C	SH4	A	2016	99999999	8.8	155	13.64	
C	SH4	A+	2016	99999999	8.8	175	15.4	
C	SH4	AA-	2016	99999999	8.8	200	17.6	
C	SH4	AA	2016	99999999	8.8	250	22	
C	SH4	AA+	2016	99999999	8.8	325	28.6	
C	SH4	B-	2016	99999999	8.8	120	10.56	
C	SH4	B	2016	99999999	8.8	128	11.26	
C	SH4	B+	2016	99999999	8.8	135	11.88	
C	SH4	C-	2016	99999999	8.8	95	8.36	
C	SH4	C	2016	99999999	8.8	100	8.8	
C	SH4	C+	2016	99999999	8.8	110	9.68	
C	SH4	D-	2016	99999999	8.8	75	6.6	
C	SH4	D	2016	99999999	8.8	85	7.48	
C	SH4	D+	2016	99999999	8.8	90	7.92	
C	SH4	E-	2016	99999999	8.8	45	3.96	
C	SH4	E	2016	99999999	8.8	55	4.84	
C	SH4	E+	2016	99999999	8.8	65	5.72	
C	SH5	*	2016	99999999	3.76	100	3.76	
C	SH5	*	2016	1	3.76	100	3.76	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	SH6	*	2016	99999999	3.45	100	3.45	
C	SH6	*	2016	1	3.45	100	3.45	
C	SH6	A-	2016	99999999	3.45	145	5	
C	SH6	A	2016	99999999	3.45	155	5.35	
C	SH6	A+	2016	99999999	3.45	175	6.04	
C	SH6	AA-	2016	99999999	3.45	200	6.9	
C	SH6	AA	2016	99999999	3.45	250	8.63	
C	SH6	AA+	2016	99999999	3.45	325	11.21	
C	SH6	B-	2016	99999999	3.45	120	4.14	
C	SH6	B	2016	99999999	3.45	128	4.42	
C	SH6	B+	2016	99999999	3.45	135	4.66	
C	SH6	C-	2016	99999999	3.45	95	3.28	
C	SH6	C	2016	99999999	3.45	100	3.45	
C	SH6	C+	2016	99999999	3.45	110	3.8	
C	SH6	D-	2016	99999999	3.45	75	2.59	
C	SH6	D	2016	99999999	3.45	85	2.93	
C	SH6	D+	2016	99999999	3.45	90	3.11	
C	SH6	E-	2016	99999999	3.45	45	1.55	
C	SH6	E	2016	99999999	3.45	55	1.9	
C	SH6	E+	2016	99999999	3.45	65	2.24	
C	SS	*	2016	999999999 9	3	100	3	
C	SS1	*	2016	99999999	1.11	100	1.11	
C	SS1	*	2016	1	1.11	100	1.11	
C	SS1	A-	2016	99999999	1.11	145	1.61	
C	SS1	A	2016	99999999	1.11	155	1.72	
C	SS1	A+	2016	99999999	1.11	175	1.94	
C	SS1	AA-	2016	99999999	1.11	200	2.22	
C	SS1	AA	2016	99999999	1.11	250	2.78	
C	SS1	AA+	2016	99999999	1.11	325	3.61	
C	SS1	B-	2016	99999999	1.11	120	1.33	
C	SS1	B	2016	99999999	1.11	128	1.42	
C	SS1	B+	2016	99999999	1.11	135	1.5	
C	SS1	C-	2016	99999999	1.11	95	1.05	
C	SS1	C	2016	99999999	1.11	100	1.11	
C	SS1	C+	2016	99999999	1.11	110	1.22	
C	SS1	D-	2016	99999999	1.11	75	0.83	
C	SS1	D	2016	99999999	1.11	85	0.94	
C	SS1	D+	2016	99999999	1.11	90	1	
C	SS1	E-	2016	99999999	1.11	45	0.5	
C	SS1	E	2016	99999999	1.11	55	0.61	
C	SS1	E+	2016	99999999	1.11	65	0.72	
C	SS2	*	2016	99999999	1.27	100	1.27	
C	SS2	*	2016	1	1.27	100	1.27	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	SS2	A-	2016	99999999	1.27	145	1.84	
C	SS2	A	2016	99999999	1.27	155	1.97	
C	SS2	A+	2016	99999999	1.27	175	2.22	
C	SS2	AA-	2016	99999999	1.27	200	2.54	
C	SS2	AA	2016	99999999	1.27	250	3.18	
C	SS2	AA+	2016	99999999	1.27	325	4.13	
C	SS2	B-	2016	99999999	1.27	120	1.52	
C	SS2	B	2016	99999999	1.27	128	1.63	
C	SS2	B+	2016	99999999	1.27	135	1.71	
C	SS2	C-	2016	99999999	1.27	95	1.21	
C	SS2	C	2016	99999999	1.27	100	1.27	
C	SS2	C+	2016	99999999	1.27	110	1.4	
C	SS2	D-	2016	99999999	1.27	75	0.95	
C	SS2	D	2016	99999999	1.27	85	1.08	
C	SS2	D+	2016	99999999	1.27	90	1.14	
C	SS2	E-	2016	99999999	1.27	45	0.57	
C	SS2	E	2016	99999999	1.27	55	0.7	
C	SS2	E+	2016	99999999	1.27	65	0.83	
C	TC1	*	2016	99999999	14630	100	14630	
C	TC2	*	2016	99999999	17596	100	17596	
C	TC3	*	2016	99999999	10260.8	100	10260.8	
C	TR1	*	2016	99999999	19.98	100	19.98	
C	TR1	*	2016	1	19.98	100	19.98	
C	TR1	A-	2016	99999999	19.98	145	28.97	
C	TR1	A	2016	99999999	19.98	155	30.97	
C	TR1	A+	2016	99999999	19.98	175	34.97	
C	TR1	AA-	2016	99999999	19.98	200	39.96	
C	TR1	AA	2016	99999999	19.98	250	49.95	
C	TR1	AA+	2016	99999999	19.98	325	64.94	
C	TR1	B-	2016	99999999	19.98	120	23.98	
C	TR1	B	2016	99999999	19.98	128	25.57	
C	TR1	B+	2016	99999999	19.98	135	26.97	
C	TR1	C-	2016	99999999	19.98	95	18.98	
C	TR1	C	2016	99999999	19.98	100	19.98	
C	TR1	C+	2016	99999999	19.98	110	21.98	
C	TR1	D-	2016	99999999	19.98	75	14.99	
C	TR1	D	2016	99999999	19.98	85	16.98	
C	TR1	D+	2016	99999999	19.98	90	17.98	
C	TR1	E-	2016	99999999	19.98	45	8.99	
C	TR1	E	2016	99999999	19.98	55	10.99	
C	TR1	E+	2016	99999999	19.98	65	12.99	
C	TR2	*	2016	99999999	23.69	100	23.69	
C	TR2	*	2016	1	23.69	100	23.69	
C	TR2	A-	2016	99999999	23.69	145	34.35	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
C	TR2	A	2016	99999999	23.69	155	36.72	
C	TR2	A+	2016	99999999	23.69	175	41.46	
C	TR2	AA-	2016	99999999	23.69	200	47.38	
C	TR2	AA	2016	99999999	23.69	250	59.23	
C	TR2	AA+	2016	99999999	23.69	325	76.99	
C	TR2	B-	2016	99999999	23.69	120	28.43	
C	TR2	B	2016	99999999	23.69	128	30.32	
C	TR2	B+	2016	99999999	23.69	135	31.98	
C	TR2	C-	2016	99999999	23.69	95	22.51	
C	TR2	C	2016	99999999	23.69	100	23.69	
C	TR2	C+	2016	99999999	23.69	110	26.06	
C	TR2	D-	2016	99999999	23.69	75	17.77	
C	TR2	D	2016	99999999	23.69	85	20.14	
C	TR2	D+	2016	99999999	23.69	90	21.32	
C	TR2	E-	2016	99999999	23.69	45	10.66	
C	TR2	E	2016	99999999	23.69	55	13.03	
C	TR2	E+	2016	99999999	23.69	65	15.4	
C	TU1	*	2016	99999999	261.82	100	261.82	
C	TU1	*	2016	1	261.82	100	261.82	
C	TU1	A-	2016	99999999	261.82	145	379.64	
C	TU1	A	2016	99999999	261.82	155	405.82	
C	TU1	A+	2016	99999999	261.82	175	458.19	
C	TU1	AA-	2016	99999999	261.82	200	523.64	
C	TU1	AA	2016	99999999	261.82	250	654.55	
C	TU1	AA+	2016	99999999	261.82	325	850.92	
C	TU1	B-	2016	99999999	261.82	120	314.18	
C	TU1	B	2016	99999999	261.82	128	335.13	
C	TU1	B+	2016	99999999	261.82	135	353.46	
C	TU1	C-	2016	99999999	261.82	95	248.73	
C	TU1	C	2016	99999999	261.82	100	261.82	
C	TU1	C+	2016	99999999	261.82	110	288	
C	TU1	D-	2016	99999999	261.82	75	196.37	
C	TU1	D	2016	99999999	261.82	85	222.55	
C	TU1	D+	2016	99999999	261.82	90	235.64	
C	TU1	E-	2016	99999999	261.82	45	117.82	
C	TU1	E	2016	99999999	261.82	55	144	
C	TU1	E+	2016	99999999	261.82	65	170.18	
C	WIC	*	2016	99999999	65	100	65	
C	WIC	*	2016	1	65	100	65	
C	YAC1	*	2016	99999999	2.6	100	2.6	
C	YAC1	*	2016	1	2.6	100	2.6	
C	YAC2	*	2016	99999999	1.33	100	1.33	
C	YAC2	*	2016	1	1.33	100	1.33	
C	YAT1	*	2016	99999999	24.91	100	24.91	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	YAT1	*	2016	1	24.91	100	24.91	0
C	YAT2	*	2016	99999999	9.06	100	9.06	0
C	YAT2	*	2016	1	9.06	100	9.06	0
C	YAW1	*	2016	99999999	155.82	100	155.82	0
C	YAW1	*	2016	1	155.82	100	155.82	0
C	YBC1	*	2016	99999999	22.47	100	22.47	
C	YBC1	*	2016	1	22.47	100	22.47	
C	YBE1	*	2016	99999999	80.45	100	80.45	0
C	YBE1	*	2016	1	80.45	100	80.45	0
C	YBE2	*	2016	99999999	24.33	100	24.33	0
C	YBE2	*	2016	1	24.33	100	24.33	0
C	YBT1	*	2016	99999999	5.41	100	5.41	0
C	YBT1	*	2016	1	5.41	100	5.41	0
C	YCM1	*	2016	99999999	18.71	100	18.71	0
C	YCM1	*	2016	1	18.71	100	18.71	0
C	YCP5	*	2016	99999999	4.82	100	4.82	
C	YCP5	*	2016	1	4.82	100	4.82	
C	YCP6	*	2016	99999999	5.99	100	5.99	
C	YCP6	*	2016	1	5.99	100	5.99	
C	YCP7	*	2016	99999999	4.82	100	4.82	
C	YCP7	*	2016	1	4.82	100	4.82	
C	YCP8	*	2016	99999999	8.11	100	8.11	
C	YCP8	*	2016	1	8.11	100	8.11	
C	YCP9	*	2016	99999999	11.87	100	11.87	
C	YCP9	*	2016	1	11.87	100	11.87	
C	YCRP1	*	2016	99999999	9.33	100	9.33	0
C	YCRP1	*	2016	1	9.33	100	9.33	0
C	YCRP2	*	2016	99999999	16.22	100	16.22	0
C	YCRP2	*	2016	1	16.22	100	16.22	0
C	YCRP3	*	2016	99999999	5.51	100	5.51	0
C	YCRP3	*	2016	1	5.51	100	5.51	0
C	YCW1	*	2016	99999999	27.45	100	27.45	0
C	YCW1	*	2016	1	27.45	100	27.45	0
C	YDL1	*	2016	99999999	0.85	100	0.85	0
C	YDL1	*	2016	1	0.85	100	0.85	0
C	YEE1	*	2016	99999999	16.85	100	16.85	0
C	YEE1	*	2016	1	16.85	100	16.85	0
C	YEL1	*	2016	99999999	1.17	100	1.17	0
C	YEL1	*	2016	1	1.17	100	1.17	0
C	YEL2	*	2016	99999999	1.13	100	1.13	0
C	YEL2	*	2016	1	1.13	100	1.13	0
C	YEL3	*	2016	99999999	1.13	100	1.13	0
C	YEL3	*	2016	1	1.13	100	1.13	0
C	YEL4	*	2016	99999999	1.13	100	1.13	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	YEL4	*	2016	1	1.13	100	1.13	0
C	YGH1	*	2016	99999999	6.15	100	6.15	
C	YGH1	*	2016	1	6.15	100	6.15	
C	YGH2	*	2016	99999999	7.9	100	7.9	
C	YGH2	*	2016	1	7.9	100	7.9	
C	YGH3	*	2016	99999999	9.22	100	9.22	
C	YGH3	*	2016	1	9.22	100	9.22	
C	YGS3	*	2016	99999999	74.84	100	74.84	
C	YGS3	*	2016	1	74.84	100	74.84	
C	YGS4	*	2016	99999999	59.89	100	59.89	
C	YGS4	*	2016	1	59.89	100	59.89	
C	YLD1	*	2016	99999999	7.47	100	7.47	0
C	YLD1	*	2016	1	7.47	100	7.47	0
C	YLD2	*	2016	99999999	5.09	100	5.09	0
C	YLD2	*	2016	1	5.09	100	5.09	0
C	YLD3	*	2016	99999999	16.22	100	16.22	0
C	YLD3	*	2016	1	16.22	100	16.22	0
C	YLD4	*	2016	99999999	8.9	100	8.9	0
C	YLD4	*	2016	1	8.9	100	8.9	0
C	YMS1	*	2016	99999999	1.06	100	1.06	
C	YMS1	*	2016	1	1.06	100	1.06	
C	YOA1	*	2016	99999999	4.61	100	4.61	0
C	YOA1	*	2016	1	4.61	100	4.61	0
C	YOA2	*	2016	99999999	4.24	100	4.24	0
C	YOA2	*	2016	1	4.24	100	4.24	0
C	YOA3	*	2016	99999999	4.98	100	4.98	0
C	YOA3	*	2016	1	4.98	100	4.98	0
C	YOA4	*	2016	99999999	4.98	100	4.98	0
C	YOA4	*	2016	1	4.98	100	4.98	0
C	YOA5	*	2016	99999999	6.1	100	6.1	0
C	YOA5	*	2016	1	6.1	100	6.1	0
C	YOA6	*	2016	99999999	6.57	100	6.57	0
C	YOA6	*	2016	1	6.57	100	6.57	0
C	YOA7	*	2016	99999999	3.6	100	3.6	0
C	YOA7	*	2016	1	3.6	100	3.6	0
C	YOA8	*	2016	99999999	6.2	100	6.2	0
C	YOA8	*	2016	1	6.2	100	6.2	0
C	YOA9	*	2016	99999999	4.98	100	4.98	0
C	YOA9	*	2016	1	4.98	100	4.98	0
C	YOD1	*	2016	99999999	8.64	100	8.64	0
C	YOD1	*	2016	1	8.64	100	8.64	0
C	YOD2	*	2016	99999999	13.67	100	13.67	0
C	YOD2	*	2016	1	13.67	100	13.67	0
C	YPA1	*	2016	99999999	2.89	100	2.89	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	YPA1	*	2016	1	2.89	100	2.89	
C	YPA2	*	2016	99999999	2.45	100	2.45	
C	YPA2	*	2016	1	2.45	100	2.45	
C	YPB1	*	2016	99999999	498.2	100	498.2	
C	YPC1	*	2016	99999999	4.07	100	4.07	
C	YPC1	*	2016	1	4.07	100	4.07	
C	YPC2	*	2016	99999999	3.16	100	3.16	
C	YPC2	*	2016	1	3.16	100	3.16	
C	YPC3	*	2016	99999999	4.25	100	4.25	
C	YPC3	*	2016	1	4.25	100	4.25	
C	YRC1	*	2016	99999999	4.82	100	4.82	
C	YRC1	*	2016	1	4.82	100	4.82	
C	YRG1	*	2016	99999999	10.6	100	10.6	0
C	YRG1	*	2016	1	10.6	100	10.6	0
C	YRG2	*	2016	99999999	13.57	100	13.57	0
C	YRG2	*	2016	1	13.57	100	13.57	0
C	YRG4	*	2016	99999999	11.02	100	11.02	
C	YRG4	*	2016	1	11.02	100	11.02	
C	YRG5	*	2016	99999999	16.96	100	16.96	
C	YRG5	*	2016	1	16.96	100	16.96	
C	YRP1	*	2016	99999999	9.33	100	9.33	0
C	YRP1	*	2016	1	9.33	100	9.33	0
C	YRP2	*	2016	99999999	16.22	100	16.22	0
C	YRP2	*	2016	1	16.22	100	16.22	0
C	YRP3	*	2016	99999999	5.51	100	5.51	0
C	YRP3	*	2016	1	5.51	100	5.51	0
C	YRP4	*	2016	99999999	9.33	100	9.33	0
C	YRP4	*	2016	1	9.33	100	9.33	0
C	YRS1	*	2016	99999999	5.51	100	5.51	
C	YRS1	*	2016	1	5.51	100	5.51	
C	YRS2	*	2016	99999999	7.31	100	7.31	
C	YRS2	*	2016	1	7.31	100	7.31	
C	YRS3	*	2016	99999999	8.48	100	8.48	
C	YRS3	*	2016	1	8.48	100	8.48	
C	YSC1	*	2016	99999999	35.4	100	35.4	
C	YSC1	*	2016	1	35.4	100	35.4	
C	YSC2	*	2016	99999999	3	100	3	
C	YSC2	*	2016	25000	3.25	100	3.25	
C	YSC2	*	2016	22000	3.5	100	3.5	
C	YSC2	*	2016	17000	4	100	4	
C	YSC2	*	2016	12500	4	100	4	
C	YSC2	*	2016	10000	4.5	100	4.5	
C	YSC2	*	2016	7500	5	100	5	
C	YSC2	*	2016	5500	6	100	6	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
C	YSC2	*	2016	4000	7	100	7	
C	YSC2	*	2016	1	7	100	7	
C	YSF1	*	2016	99999999	62.38	100	62.38	0
C	YSF1	*	2016	1	62.38	100	62.38	0
C	YSF2	*	2016	99999999	124.76	100	124.76	0
C	YSF2	*	2016	1	124.76	100	124.76	0
C	YSF3	*	2016	99999999	187.14	100	187.14	0
C	YSF3	*	2016	1	187.14	100	187.14	0
C	YSH1	*	2016	99999999	6.15	100	6.15	
C	YSH1	*	2016	1	6.15	100	6.15	
C	YSH2	*	2016	99999999	7.58	100	7.58	
C	YSH2	*	2016	1	7.58	100	7.58	
C	YSH3	*	2016	99999999	10.81	100	10.81	
C	YSH3	*	2016	1	10.81	100	10.81	
C	YSH4	*	2016	99999999	8.8	100	8.8	
C	YSH4	*	2016	1	8.8	100	8.8	
C	YSH5	*	2016	99999999	3.99	100	3.99	
C	YSH5	*	2016	1	3.99	100	3.99	
C	YSH6	*	2016	99999999	3.45	100	3.45	
C	YSH6	*	2016	1	3.45	100	3.45	
C	YSS1	*	2016	99999999	1.11	100	1.11	
C	YSS1	*	2016	1	1.11	100	1.11	
C	YSS2	*	2016	99999999	1.27	100	1.27	
C	YSS2	*	2016	1	1.27	100	1.27	
C	YTC1	*	2016	99999999	14225.2	0.01	1.42	
C	YTC2	*	2016	99999999	17087.2	0.01	1.71	
C	YTC3	*	2016	99999999	10260.8	0.01	1.03	
C	YTR1	*	2016	99999999	19.88	100	19.88	
C	YTR1	*	2016	1	19.88	100	19.88	
C	YTR2	*	2016	99999999	23.69	100	23.69	
C	YTR2	*	2016	1	23.69	100	23.69	
C	YTU1	*	2016	99999999	261.82	100	261.82	0
C	YTU1	*	2016	1	261.82	100	261.82	0
M	MAMH1	1	2016	999999999	11.23	78	8.76	
M	MAMH1	1	2016	1450	11.23	78	8.76	0.0018
M	MAMH1	1	2016	1400	11.34	78	8.85	0.0016
M	MAMH1	1	2016	1350	11.45	78	8.93	0.0018
M	MAMH1	1	2016	1300	11.57	78	9.02	0.002
M	MAMH1	1	2016	1280	11.62	78	9.06	0.002187
M	MAMH1	1	2016	1216	11.79	78	9.2	0.002188
M	MAMH1	1	2016	1120	12.07	78	9.41	0.002857
M	MAMH1	1	2016	1092	12.17	78	9.49	0.0025
M	MAMH1	1	2016	1064	12.26	78	9.56	0.002857
M	MAMH1	1	2016	1036	12.36	78	9.64	0.003214

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	1	2016	1008	12.47	78	9.73	0.002857
M	MAMH1	1	2016	980	12.58	78	9.81	0.003214
M	MAMH1	1	2016	952	12.69	78	9.9	0.003571
M	MAMH1	1	2016	924	12.82	78	10	0.003571
M	MAMH1	1	2016	896	12.95	78	10.1	0.003571
M	MAMH1	1	2016	868	13.08	78	10.2	0.004286
M	MAMH1	1	2016	840	13.23	78	10.32	0.004167
M	MAMH1	1	2016	816	13.36	78	10.42	0.005
M	MAMH1	1	2016	812	13.38	78	10.44	0.0045
M	MAMH1	1	2016	792	13.5	78	10.53	0.00375
M	MAMH1	1	2016	784	13.54	78	10.56	0.005
M	MAMH1	1	2016	768	13.64	78	10.64	0.005
M	MAMH1	1	2016	756	13.72	78	10.7	0.005
M	MAMH1	1	2016	744	13.79	78	10.76	0.005
M	MAMH1	1	2016	728	13.9	78	10.84	0.00625
M	MAMH1	1	2016	720	13.96	78	10.89	0.0055
M	MAMH1	1	2016	700	14.1	78	11	0.005
M	MAMH1	1	2016	696	14.13	78	11.02	0.00625
M	MAMH1	1	2016	680	14.25	78	11.12	0.005
M	MAMH1	1	2016	672	14.31	78	11.16	0.006667
M	MAMH1	1	2016	660	14.41	78	11.24	0.006667
M	MAMH1	1	2016	648	14.51	78	11.32	0.00625
M	MAMH1	1	2016	640	14.58	78	11.37	0.006875
M	MAMH1	1	2016	624	14.72	78	11.48	0.0075
M	MAMH1	1	2016	620	14.75	78	11.51	0.007
M	MAMH1	1	2016	600	14.94	78	11.65	0.008
M	MAMH1	1	2016	580	15.14	78	11.81	0.0075
M	MAMH1	1	2016	576	15.18	78	11.84	0.008125
M	MAMH1	1	2016	560	15.35	78	11.97	0.00875
M	MAMH1	1	2016	552	15.44	78	12.04	0.009167
M	MAMH1	1	2016	540	15.58	78	12.15	0.009167
M	MAMH1	1	2016	528	15.72	78	12.26	0.01
M	MAMH1	1	2016	520	15.82	78	12.34	0.01
M	MAMH1	1	2016	504	16.03	78	12.5	0.01
M	MAMH1	1	2016	500	16.08	78	12.54	0.011
M	MAMH1	1	2016	480	16.36	78	12.76	0.0115
M	MAMH1	1	2016	460	16.66	78	12.99	0.0125
M	MAMH1	1	2016	456	16.72	78	13.04	0.0125
M	MAMH1	1	2016	440	16.98	78	13.24	0.01375
M	MAMH1	1	2016	432	17.12	78	13.35	0.014167
M	MAMH1	1	2016	420	17.33	78	13.52	0.015
M	MAMH1	1	2016	400	17.72	78	13.82	0.0165
M	MAMH1	1	2016	380	18.14	78	14.15	0.018
M	MAMH1	1	2016	360	18.6	78	14.51	0.01875

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	1	2016	352	18.8	78	14.66	0.020625
M	MAMH1	1	2016	336	19.22	78	14.99	0.0225
M	MAMH1	1	2016	320	19.68	78	15.35	0.0265
M	MAMH1	1	2016	280	21.04	78	16.41	0.0345
M	MAMH1	1	2016	240	22.81	78	17.79	0.047
M	MAMH1	1	2016	200	25.22	78	19.67	0.059
M	MAMH1	1	2016	190	25.97	78	20.26	0.064
M	MAMH1	1	2016	180	26.8	78	20.9	0.072
M	MAMH1	1	2016	170	27.72	78	21.62	0.08
M	MAMH1	1	2016	160	28.74	78	22.42	0.089
M	MAMH1	1	2016	150	29.88	78	23.31	0
M	MAMH1	2	2016	999999999	11.23	78	8.76	
M	MAMH1	2	2016	1450	11.23	78	8.76	0.0018
M	MAMH1	2	2016	1400	11.34	78	8.85	0.0016
M	MAMH1	2	2016	1350	11.45	78	8.93	0.0018
M	MAMH1	2	2016	1300	11.57	78	9.02	0.002
M	MAMH1	2	2016	1280	11.62	78	9.06	0.002187
M	MAMH1	2	2016	1216	11.79	78	9.2	0.002188
M	MAMH1	2	2016	1120	12.07	78	9.41	0.002857
M	MAMH1	2	2016	1092	12.17	78	9.49	0.0025
M	MAMH1	2	2016	1064	12.26	78	9.56	0.002857
M	MAMH1	2	2016	1036	12.36	78	9.64	0.003214
M	MAMH1	2	2016	1008	12.47	78	9.73	0.002857
M	MAMH1	2	2016	980	12.58	78	9.81	0.003214
M	MAMH1	2	2016	952	12.69	78	9.9	0.003571
M	MAMH1	2	2016	924	12.82	78	10	0.003571
M	MAMH1	2	2016	896	12.95	78	10.1	0.003571
M	MAMH1	2	2016	868	13.08	78	10.2	0.004286
M	MAMH1	2	2016	840	13.23	78	10.32	0.004167
M	MAMH1	2	2016	816	13.36	78	10.42	0.005
M	MAMH1	2	2016	812	13.38	78	10.44	0.0045
M	MAMH1	2	2016	792	13.5	78	10.53	0.00375
M	MAMH1	2	2016	784	13.54	78	10.56	0.005
M	MAMH1	2	2016	768	13.64	78	10.64	0.005
M	MAMH1	2	2016	756	13.72	78	10.7	0.005
M	MAMH1	2	2016	744	13.79	78	10.76	0.005
M	MAMH1	2	2016	728	13.9	78	10.84	0.00625
M	MAMH1	2	2016	720	13.96	78	10.89	0.0055
M	MAMH1	2	2016	700	14.1	78	11	0.005
M	MAMH1	2	2016	696	14.13	78	11.02	0.00625
M	MAMH1	2	2016	680	14.25	78	11.12	0.005
M	MAMH1	2	2016	672	14.31	78	11.16	0.006667
M	MAMH1	2	2016	660	14.41	78	11.24	0.006667
M	MAMH1	2	2016	648	14.51	78	11.32	0.00625

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	2	2016	640	14.58	78	11.37	0.006875
M	MAMH1	2	2016	624	14.72	78	11.48	0.0075
M	MAMH1	2	2016	620	14.75	78	11.51	0.007
M	MAMH1	2	2016	600	14.94	78	11.65	0.008
M	MAMH1	2	2016	580	15.14	78	11.81	0.0075
M	MAMH1	2	2016	576	15.18	78	11.84	0.008125
M	MAMH1	2	2016	560	15.35	78	11.97	0.00875
M	MAMH1	2	2016	552	15.44	78	12.04	0.009167
M	MAMH1	2	2016	540	15.58	78	12.15	0.009167
M	MAMH1	2	2016	528	15.72	78	12.26	0.01
M	MAMH1	2	2016	520	15.82	78	12.34	0.01
M	MAMH1	2	2016	504	16.03	78	12.5	0.01
M	MAMH1	2	2016	500	16.08	78	12.54	0.011
M	MAMH1	2	2016	480	16.36	78	12.76	0.0115
M	MAMH1	2	2016	460	16.66	78	12.99	0.0125
M	MAMH1	2	2016	456	16.72	78	13.04	0.0125
M	MAMH1	2	2016	440	16.98	78	13.24	0.01375
M	MAMH1	2	2016	432	17.12	78	13.35	0.014167
M	MAMH1	2	2016	420	17.33	78	13.52	0.015
M	MAMH1	2	2016	400	17.72	78	13.82	0.0165
M	MAMH1	2	2016	380	18.14	78	14.15	0.018
M	MAMH1	2	2016	360	18.6	78	14.51	0.01875
M	MAMH1	2	2016	352	18.8	78	14.66	0.020625
M	MAMH1	2	2016	336	19.22	78	14.99	0.0225
M	MAMH1	2	2016	320	19.68	78	15.35	0.0265
M	MAMH1	2	2016	280	21.04	78	16.41	0.0345
M	MAMH1	2	2016	240	22.81	78	17.79	0.047
M	MAMH1	2	2016	200	25.22	78	19.67	0.059
M	MAMH1	2	2016	190	25.97	78	20.26	0.064
M	MAMH1	2	2016	180	26.8	78	20.9	0.072
M	MAMH1	2	2016	170	27.72	78	21.62	0.08
M	MAMH1	2	2016	160	28.74	78	22.42	0.089
M	MAMH1	2	2016	150	29.88	78	23.31	0
M	MAMH1	3	2016	999999999	11.23	78	8.76	
M	MAMH1	3	2016	1450	11.23	78	8.76	0.0018
M	MAMH1	3	2016	1400	11.34	78	8.85	0.0016
M	MAMH1	3	2016	1350	11.45	78	8.93	0.0018
M	MAMH1	3	2016	1300	11.57	78	9.02	0.002
M	MAMH1	3	2016	1280	11.62	78	9.06	0.002187
M	MAMH1	3	2016	1216	11.79	78	9.2	0.002188
M	MAMH1	3	2016	1120	12.07	78	9.41	0.002857
M	MAMH1	3	2016	1092	12.17	78	9.49	0.0025
M	MAMH1	3	2016	1064	12.26	78	9.56	0.002857
M	MAMH1	3	2016	1036	12.36	78	9.64	0.003214

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	3	2016	1008	12.47	78	9.73	0.002857
M	MAMH1	3	2016	980	12.58	78	9.81	0.003214
M	MAMH1	3	2016	952	12.69	78	9.9	0.003571
M	MAMH1	3	2016	924	12.82	78	10	0.003571
M	MAMH1	3	2016	896	12.95	78	10.1	0.003571
M	MAMH1	3	2016	868	13.08	78	10.2	0.004286
M	MAMH1	3	2016	840	13.23	78	10.32	0.004167
M	MAMH1	3	2016	816	13.36	78	10.42	0.005
M	MAMH1	3	2016	812	13.38	78	10.44	0.0045
M	MAMH1	3	2016	792	13.5	78	10.53	0.00375
M	MAMH1	3	2016	784	13.54	78	10.56	0.005
M	MAMH1	3	2016	768	13.64	78	10.64	0.005
M	MAMH1	3	2016	756	13.72	78	10.7	0.005
M	MAMH1	3	2016	744	13.79	78	10.76	0.005
M	MAMH1	3	2016	728	13.9	78	10.84	0.00625
M	MAMH1	3	2016	720	13.96	78	10.89	0.0055
M	MAMH1	3	2016	700	14.1	78	11	0.005
M	MAMH1	3	2016	696	14.13	78	11.02	0.00625
M	MAMH1	3	2016	680	14.25	78	11.12	0.005
M	MAMH1	3	2016	672	14.31	78	11.16	0.006667
M	MAMH1	3	2016	660	14.41	78	11.24	0.006667
M	MAMH1	3	2016	648	14.51	78	11.32	0.00625
M	MAMH1	3	2016	640	14.58	78	11.37	0.006875
M	MAMH1	3	2016	624	14.72	78	11.48	0.0075
M	MAMH1	3	2016	620	14.75	78	11.51	0.007
M	MAMH1	3	2016	600	14.94	78	11.65	0.008
M	MAMH1	3	2016	580	15.14	78	11.81	0.0075
M	MAMH1	3	2016	576	15.18	78	11.84	0.008125
M	MAMH1	3	2016	560	15.35	78	11.97	0.00875
M	MAMH1	3	2016	552	15.44	78	12.04	0.009167
M	MAMH1	3	2016	540	15.58	78	12.15	0.009167
M	MAMH1	3	2016	528	15.72	78	12.26	0.01
M	MAMH1	3	2016	520	15.82	78	12.34	0.01
M	MAMH1	3	2016	504	16.03	78	12.5	0.01
M	MAMH1	3	2016	500	16.08	78	12.54	0.011
M	MAMH1	3	2016	480	16.36	78	12.76	0.0115
M	MAMH1	3	2016	460	16.66	78	12.99	0.0125
M	MAMH1	3	2016	456	16.72	78	13.04	0.0125
M	MAMH1	3	2016	440	16.98	78	13.24	0.01375
M	MAMH1	3	2016	432	17.12	78	13.35	0.014167
M	MAMH1	3	2016	420	17.33	78	13.52	0.015
M	MAMH1	3	2016	400	17.72	78	13.82	0.0165
M	MAMH1	3	2016	380	18.14	78	14.15	0.018
M	MAMH1	3	2016	360	18.6	78	14.51	0.01875

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	3	2016	352	18.8	78	14.66	0.020625
M	MAMH1	3	2016	336	19.22	78	14.99	0.0225
M	MAMH1	3	2016	320	19.68	78	15.35	0.0265
M	MAMH1	3	2016	280	21.04	78	16.41	0.0345
M	MAMH1	3	2016	240	22.81	78	17.79	0.047
M	MAMH1	3	2016	200	25.22	78	19.67	0.059
M	MAMH1	3	2016	190	25.97	78	20.26	0.064
M	MAMH1	3	2016	180	26.8	78	20.9	0.072
M	MAMH1	3	2016	170	27.72	78	21.62	0.08
M	MAMH1	3	2016	160	28.74	78	22.42	0.089
M	MAMH1	3	2016	150	29.88	78	23.31	0
M	MAMH1	4	2016	999999999	11.23	100	11.23	
M	MAMH1	4	2016	1450	11.23	100	11.23	0
M	MAMH1	4	2016	1400	11.34	100	11.34	0
M	MAMH1	4	2016	1350	11.45	100	11.45	0
M	MAMH1	4	2016	1300	11.57	100	11.57	0
M	MAMH1	4	2016	1280	11.62	100	11.62	0
M	MAMH1	4	2016	1216	11.79	100	11.79	0
M	MAMH1	4	2016	1120	12.07	100	12.07	0
M	MAMH1	4	2016	1092	12.17	100	12.17	0
M	MAMH1	4	2016	1064	12.26	100	12.26	0
M	MAMH1	4	2016	1036	12.36	100	12.36	0
M	MAMH1	4	2016	1008	12.47	100	12.47	0
M	MAMH1	4	2016	980	12.58	100	12.58	0
M	MAMH1	4	2016	952	12.69	100	12.69	0
M	MAMH1	4	2016	924	12.82	100	12.82	0
M	MAMH1	4	2016	896	12.95	100	12.95	0
M	MAMH1	4	2016	868	13.08	100	13.08	0
M	MAMH1	4	2016	840	13.23	100	13.23	0
M	MAMH1	4	2016	816	13.36	100	13.36	0
M	MAMH1	4	2016	812	13.38	100	13.38	0
M	MAMH1	4	2016	792	13.5	100	13.5	0
M	MAMH1	4	2016	784	13.54	100	13.54	0
M	MAMH1	4	2016	768	13.64	100	13.64	0
M	MAMH1	4	2016	756	13.72	100	13.72	0
M	MAMH1	4	2016	744	13.79	100	13.79	0
M	MAMH1	4	2016	728	13.9	100	13.9	0
M	MAMH1	4	2016	720	13.96	100	13.96	0
M	MAMH1	4	2016	700	14.1	100	14.1	0
M	MAMH1	4	2016	696	14.13	100	14.13	0
M	MAMH1	4	2016	680	14.25	100	14.25	0
M	MAMH1	4	2016	672	14.31	100	14.31	0
M	MAMH1	4	2016	660	14.41	100	14.41	0
M	MAMH1	4	2016	648	14.51	100	14.51	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	4	2016	640	14.58	100	14.58	0
M	MAMH1	4	2016	624	14.72	100	14.72	0
M	MAMH1	4	2016	620	14.75	100	14.75	0
M	MAMH1	4	2016	600	14.94	100	14.94	0
M	MAMH1	4	2016	580	15.14	100	15.14	0
M	MAMH1	4	2016	576	15.18	100	15.18	0
M	MAMH1	4	2016	560	15.35	100	15.35	0
M	MAMH1	4	2016	552	15.44	100	15.44	0
M	MAMH1	4	2016	540	15.58	100	15.58	0
M	MAMH1	4	2016	528	15.72	100	15.72	0
M	MAMH1	4	2016	520	15.82	100	15.82	0
M	MAMH1	4	2016	504	16.03	100	16.03	0
M	MAMH1	4	2016	500	16.08	100	16.08	0
M	MAMH1	4	2016	480	16.36	100	16.36	0
M	MAMH1	4	2016	460	16.66	100	16.66	0
M	MAMH1	4	2016	456	16.72	100	16.72	0
M	MAMH1	4	2016	440	16.98	100	16.98	0
M	MAMH1	4	2016	432	17.12	100	17.12	0
M	MAMH1	4	2016	420	17.33	100	17.33	0
M	MAMH1	4	2016	400	17.72	100	17.72	0
M	MAMH1	4	2016	380	18.14	100	18.14	0
M	MAMH1	4	2016	360	18.6	100	18.6	0
M	MAMH1	4	2016	352	18.8	100	18.8	0
M	MAMH1	4	2016	336	19.22	100	19.22	0
M	MAMH1	4	2016	320	19.68	100	19.68	0
M	MAMH1	4	2016	280	21.04	100	21.04	0
M	MAMH1	4	2016	240	22.81	100	22.81	0
M	MAMH1	4	2016	200	25.22	100	25.22	0
M	MAMH1	4	2016	190	25.97	100	25.97	0
M	MAMH1	4	2016	180	26.8	100	26.8	0
M	MAMH1	4	2016	170	27.72	100	27.72	0
M	MAMH1	4	2016	160	28.74	100	28.74	0
M	MAMH1	4	2016	150	29.88	100	29.88	0
M	MAMH1	5	2016	999999999	11.23	126	14.15	
M	MAMH1	5	2016	1450	11.23	126	14.15	0.0028
M	MAMH1	5	2016	1400	11.34	126	14.29	0.0028
M	MAMH1	5	2016	1350	11.45	126	14.43	0.003
M	MAMH1	5	2016	1300	11.57	126	14.58	0.003
M	MAMH1	5	2016	1280	11.62	126	14.64	0.003437
M	MAMH1	5	2016	1216	11.79	126	14.86	0.003646
M	MAMH1	5	2016	1120	12.07	126	15.21	0.004286
M	MAMH1	5	2016	1092	12.17	126	15.33	0.004286
M	MAMH1	5	2016	1064	12.26	126	15.45	0.004286
M	MAMH1	5	2016	1036	12.36	126	15.57	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	5	2016	1008	12.47	126	15.71	0.005
M	MAMH1	5	2016	980	12.58	126	15.85	0.005
M	MAMH1	5	2016	952	12.69	126	15.99	0.005714
M	MAMH1	5	2016	924	12.82	126	16.15	0.006071
M	MAMH1	5	2016	896	12.95	126	16.32	0.005714
M	MAMH1	5	2016	868	13.08	126	16.48	0.006786
M	MAMH1	5	2016	840	13.23	126	16.67	0.006667
M	MAMH1	5	2016	816	13.36	126	16.83	0.0075
M	MAMH1	5	2016	812	13.38	126	16.86	0.0075
M	MAMH1	5	2016	792	13.5	126	17.01	0.00625
M	MAMH1	5	2016	784	13.54	126	17.06	0.008125
M	MAMH1	5	2016	768	13.64	126	17.19	0.008333
M	MAMH1	5	2016	756	13.72	126	17.29	0.0075
M	MAMH1	5	2016	744	13.79	126	17.38	0.008125
M	MAMH1	5	2016	728	13.9	126	17.51	0.01
M	MAMH1	5	2016	720	13.96	126	17.59	0.009
M	MAMH1	5	2016	700	14.1	126	17.77	0.0075
M	MAMH1	5	2016	696	14.13	126	17.8	0.01
M	MAMH1	5	2016	680	14.25	126	17.96	0.00875
M	MAMH1	5	2016	672	14.31	126	18.03	0.010833
M	MAMH1	5	2016	660	14.41	126	18.16	0.01
M	MAMH1	5	2016	648	14.51	126	18.28	0.01125
M	MAMH1	5	2016	640	14.58	126	18.37	0.01125
M	MAMH1	5	2016	624	14.72	126	18.55	0.01
M	MAMH1	5	2016	620	14.75	126	18.59	0.0115
M	MAMH1	5	2016	600	14.94	126	18.82	0.013
M	MAMH1	5	2016	580	15.14	126	19.08	0.0125
M	MAMH1	5	2016	576	15.18	126	19.13	0.013125
M	MAMH1	5	2016	560	15.35	126	19.34	0.01375
M	MAMH1	5	2016	552	15.44	126	19.45	0.015
M	MAMH1	5	2016	540	15.58	126	19.63	0.015
M	MAMH1	5	2016	528	15.72	126	19.81	0.015
M	MAMH1	5	2016	520	15.82	126	19.93	0.016875
M	MAMH1	5	2016	504	16.03	126	20.2	0.015
M	MAMH1	5	2016	500	16.08	126	20.26	0.0175
M	MAMH1	5	2016	480	16.36	126	20.61	0.019
M	MAMH1	5	2016	460	16.66	126	20.99	0.02
M	MAMH1	5	2016	456	16.72	126	21.07	0.02
M	MAMH1	5	2016	440	16.98	126	21.39	0.0225
M	MAMH1	5	2016	432	17.12	126	21.57	0.0225
M	MAMH1	5	2016	420	17.33	126	21.84	0.0245
M	MAMH1	5	2016	400	17.72	126	22.33	0.0265
M	MAMH1	5	2016	380	18.14	126	22.86	0.029
M	MAMH1	5	2016	360	18.6	126	23.44	0.03125

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	5	2016	352	18.8	126	23.69	0.033125
M	MAMH1	5	2016	336	19.22	126	24.22	0.03625
M	MAMH1	5	2016	320	19.68	126	24.8	0.04275
M	MAMH1	5	2016	280	21.04	126	26.51	0.05575
M	MAMH1	5	2016	240	22.81	126	28.74	0.076
M	MAMH1	5	2016	200	25.22	126	31.78	0.094
M	MAMH1	5	2016	190	25.97	126	32.72	0.105
M	MAMH1	5	2016	180	26.8	126	33.77	0.116
M	MAMH1	5	2016	170	27.72	126	34.93	0.128
M	MAMH1	5	2016	160	28.74	126	36.21	0.144
M	MAMH1	5	2016	150	29.88	126	37.65	0
M	MAMH1	6	2016	999999999	11.23	174	19.54	
M	MAMH1	6	2016	1450	11.23	174	19.54	0.0038
M	MAMH1	6	2016	1400	11.34	174	19.73	0.0038
M	MAMH1	6	2016	1350	11.45	174	19.92	0.0042
M	MAMH1	6	2016	1300	11.57	174	20.13	0.0045
M	MAMH1	6	2016	1280	11.62	174	20.22	0.004531
M	MAMH1	6	2016	1216	11.79	174	20.51	0.005104
M	MAMH1	6	2016	1120	12.07	174	21	0.006429
M	MAMH1	6	2016	1092	12.17	174	21.18	0.005357
M	MAMH1	6	2016	1064	12.26	174	21.33	0.006429
M	MAMH1	6	2016	1036	12.36	174	21.51	0.006786
M	MAMH1	6	2016	1008	12.47	174	21.7	0.006786
M	MAMH1	6	2016	980	12.58	174	21.89	0.006786
M	MAMH1	6	2016	952	12.69	174	22.08	0.008214
M	MAMH1	6	2016	924	12.82	174	22.31	0.007857
M	MAMH1	6	2016	896	12.95	174	22.53	0.008214
M	MAMH1	6	2016	868	13.08	174	22.76	0.009286
M	MAMH1	6	2016	840	13.23	174	23.02	0.009583
M	MAMH1	6	2016	816	13.36	174	23.25	0.0075
M	MAMH1	6	2016	812	13.38	174	23.28	0.0105
M	MAMH1	6	2016	792	13.5	174	23.49	0.00875
M	MAMH1	6	2016	784	13.54	174	23.56	0.010625
M	MAMH1	6	2016	768	13.64	174	23.73	0.011667
M	MAMH1	6	2016	756	13.72	174	23.87	0.01
M	MAMH1	6	2016	744	13.79	174	23.99	0.0125
M	MAMH1	6	2016	728	13.9	174	24.19	0.0125
M	MAMH1	6	2016	720	13.96	174	24.29	0.012
M	MAMH1	6	2016	700	14.1	174	24.53	0.015
M	MAMH1	6	2016	696	14.13	174	24.59	0.013125
M	MAMH1	6	2016	680	14.25	174	24.8	0.0125
M	MAMH1	6	2016	672	14.31	174	24.9	0.014167
M	MAMH1	6	2016	660	14.41	174	25.07	0.015
M	MAMH1	6	2016	648	14.51	174	25.25	0.015

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	6	2016	640	14.58	174	25.37	0.015
M	MAMH1	6	2016	624	14.72	174	25.61	0.0125
M	MAMH1	6	2016	620	14.75	174	25.66	0.017
M	MAMH1	6	2016	600	14.94	174	26	0.017
M	MAMH1	6	2016	580	15.14	174	26.34	0.0175
M	MAMH1	6	2016	576	15.18	174	26.41	0.01875
M	MAMH1	6	2016	560	15.35	174	26.71	0.02
M	MAMH1	6	2016	552	15.44	174	26.87	0.02
M	MAMH1	6	2016	540	15.58	174	27.11	0.02
M	MAMH1	6	2016	528	15.72	174	27.35	0.0225
M	MAMH1	6	2016	520	15.82	174	27.53	0.0225
M	MAMH1	6	2016	504	16.03	174	27.89	0.0225
M	MAMH1	6	2016	500	16.08	174	27.98	0.0245
M	MAMH1	6	2016	480	16.36	174	28.47	0.026
M	MAMH1	6	2016	460	16.66	174	28.99	0.025
M	MAMH1	6	2016	456	16.72	174	29.09	0.02875
M	MAMH1	6	2016	440	16.98	174	29.55	0.03
M	MAMH1	6	2016	432	17.12	174	29.79	0.03
M	MAMH1	6	2016	420	17.33	174	30.15	0.034
M	MAMH1	6	2016	400	17.72	174	30.83	0.0365
M	MAMH1	6	2016	380	18.14	174	31.56	0.04
M	MAMH1	6	2016	360	18.6	174	32.36	0.04375
M	MAMH1	6	2016	352	18.8	174	32.71	0.045625
M	MAMH1	6	2016	336	19.22	174	33.44	0.05
M	MAMH1	6	2016	320	19.68	174	34.24	0.05925
M	MAMH1	6	2016	280	21.04	174	36.61	0.077
M	MAMH1	6	2016	240	22.81	174	39.69	0.10475
M	MAMH1	6	2016	200	25.22	174	43.88	0.131
M	MAMH1	6	2016	190	25.97	174	45.19	0.144
M	MAMH1	6	2016	180	26.8	174	46.63	0.16
M	MAMH1	6	2016	170	27.72	174	48.23	0.178
M	MAMH1	6	2016	160	28.74	174	50.01	0.198
M	MAMH1	6	2016	150	29.88	174	51.99	0
M	MAMH1	7	2016	999999999	11.23	230	25.83	
M	MAMH1	7	2016	1450	11.23	230	25.83	0.005
M	MAMH1	7	2016	1400	11.34	230	26.08	0.0052
M	MAMH1	7	2016	1350	11.45	230	26.34	0.0054
M	MAMH1	7	2016	1300	11.57	230	26.61	0.006
M	MAMH1	7	2016	1280	11.62	230	26.73	0.006094
M	MAMH1	7	2016	1216	11.79	230	27.12	0.006667
M	MAMH1	7	2016	1120	12.07	230	27.76	0.008214
M	MAMH1	7	2016	1092	12.17	230	27.99	0.0075
M	MAMH1	7	2016	1064	12.26	230	28.2	0.008214
M	MAMH1	7	2016	1036	12.36	230	28.43	0.008929

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH1	7	2016	1008	12.47	230	28.68	0.008929
M	MAMH1	7	2016	980	12.58	230	28.93	0.009286
M	MAMH1	7	2016	952	12.69	230	29.19	0.010714
M	MAMH1	7	2016	924	12.82	230	29.49	0.010714
M	MAMH1	7	2016	896	12.95	230	29.79	0.010357
M	MAMH1	7	2016	868	13.08	230	30.08	0.0125
M	MAMH1	7	2016	840	13.23	230	30.43	0.0125
M	MAMH1	7	2016	816	13.36	230	30.73	0.01
M	MAMH1	7	2016	812	13.38	230	30.77	0.014
M	MAMH1	7	2016	792	13.5	230	31.05	0.01125
M	MAMH1	7	2016	784	13.54	230	31.14	0.014375
M	MAMH1	7	2016	768	13.64	230	31.37	0.015833
M	MAMH1	7	2016	756	13.72	230	31.56	0.013333
M	MAMH1	7	2016	744	13.79	230	31.72	0.015625
M	MAMH1	7	2016	728	13.9	230	31.97	0.0175
M	MAMH1	7	2016	720	13.96	230	32.11	0.016
M	MAMH1	7	2016	700	14.1	230	32.43	0.0175
M	MAMH1	7	2016	696	14.13	230	32.5	0.016875
M	MAMH1	7	2016	680	14.25	230	32.77	0.0175
M	MAMH1	7	2016	672	14.31	230	32.91	0.019167
M	MAMH1	7	2016	660	14.41	230	33.14	0.019167
M	MAMH1	7	2016	648	14.51	230	33.37	0.02
M	MAMH1	7	2016	640	14.58	230	33.53	0.020625
M	MAMH1	7	2016	624	14.72	230	33.86	0.015
M	MAMH1	7	2016	620	14.75	230	33.92	0.022
M	MAMH1	7	2016	600	14.94	230	34.36	0.023
M	MAMH1	7	2016	580	15.14	230	34.82	0.0225
M	MAMH1	7	2016	576	15.18	230	34.91	0.025
M	MAMH1	7	2016	560	15.35	230	35.31	0.025
M	MAMH1	7	2016	552	15.44	230	35.51	0.026667
M	MAMH1	7	2016	540	15.58	230	35.83	0.0275
M	MAMH1	7	2016	528	15.72	230	36.16	0.02875
M	MAMH1	7	2016	520	15.82	230	36.39	0.03
M	MAMH1	7	2016	504	16.03	230	36.87	0.0275
M	MAMH1	7	2016	500	16.08	230	36.98	0.0325
M	MAMH1	7	2016	480	16.36	230	37.63	0.0345
M	MAMH1	7	2016	460	16.66	230	38.32	0.035
M	MAMH1	7	2016	456	16.72	230	38.46	0.036875
M	MAMH1	7	2016	440	16.98	230	39.05	0.04125
M	MAMH1	7	2016	432	17.12	230	39.38	0.04
M	MAMH1	7	2016	420	17.33	230	39.86	0.045
M	MAMH1	7	2016	400	17.72	230	40.76	0.048
M	MAMH1	7	2016	380	18.14	230	41.72	0.053
M	MAMH1	7	2016	360	18.6	230	42.78	0.0575

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	7	2016	352	18.8	230	43.24	0.060625
M	MAMH1	7	2016	336	19.22	230	44.21	0.065625
M	MAMH1	7	2016	320	19.68	230	45.26	0.07825
M	MAMH1	7	2016	280	21.04	230	48.39	0.10175
M	MAMH1	7	2016	240	22.81	230	52.46	0.13875
M	MAMH1	7	2016	200	25.22	230	58.01	0.172
M	MAMH1	7	2016	190	25.97	230	59.73	0.191
M	MAMH1	7	2016	180	26.8	230	61.64	0.212
M	MAMH1	7	2016	170	27.72	230	63.76	0.234
M	MAMH1	7	2016	160	28.74	230	66.1	0.262
M	MAMH1	7	2016	150	29.88	230	68.72	0
M	MAMH1	*	2016	999999999	11.23	100	11.23	
M	MAMH1	*	2016	1450	11.23	100	11.23	0
M	MAMH1	*	2016	1400	11.34	100	11.34	0
M	MAMH1	*	2016	1350	11.45	100	11.45	0
M	MAMH1	*	2016	1300	11.57	100	11.57	0
M	MAMH1	*	2016	1280	11.62	100	11.62	0
M	MAMH1	*	2016	1216	11.79	100	11.79	0
M	MAMH1	*	2016	1120	12.07	100	12.07	0
M	MAMH1	*	2016	1092	12.17	100	12.17	0
M	MAMH1	*	2016	1064	12.26	100	12.26	0
M	MAMH1	*	2016	1036	12.36	100	12.36	0
M	MAMH1	*	2016	1008	12.47	100	12.47	0
M	MAMH1	*	2016	980	12.58	100	12.58	0
M	MAMH1	*	2016	952	12.69	100	12.69	0
M	MAMH1	*	2016	924	12.82	100	12.82	0
M	MAMH1	*	2016	896	12.95	100	12.95	0
M	MAMH1	*	2016	868	13.08	100	13.08	0
M	MAMH1	*	2016	840	13.23	100	13.23	0
M	MAMH1	*	2016	816	13.36	100	13.36	0
M	MAMH1	*	2016	812	13.38	100	13.38	0
M	MAMH1	*	2016	792	13.5	100	13.5	0
M	MAMH1	*	2016	784	13.54	100	13.54	0
M	MAMH1	*	2016	768	13.64	100	13.64	0
M	MAMH1	*	2016	756	13.72	100	13.72	0
M	MAMH1	*	2016	744	13.79	100	13.79	0
M	MAMH1	*	2016	728	13.9	100	13.9	0
M	MAMH1	*	2016	720	13.96	100	13.96	0
M	MAMH1	*	2016	700	14.1	100	14.1	0
M	MAMH1	*	2016	696	14.13	100	14.13	0
M	MAMH1	*	2016	680	14.25	100	14.25	0
M	MAMH1	*	2016	672	14.31	100	14.31	0
M	MAMH1	*	2016	660	14.41	100	14.41	0
M	MAMH1	*	2016	648	14.51	100	14.51	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH1	*	2016	640	14.58	100	14.58	0
M	MAMH1	*	2016	624	14.72	100	14.72	0
M	MAMH1	*	2016	620	14.75	100	14.75	0
M	MAMH1	*	2016	600	14.94	100	14.94	0
M	MAMH1	*	2016	580	15.14	100	15.14	0
M	MAMH1	*	2016	576	15.18	100	15.18	0
M	MAMH1	*	2016	560	15.35	100	15.35	0
M	MAMH1	*	2016	552	15.44	100	15.44	0
M	MAMH1	*	2016	540	15.58	100	15.58	0
M	MAMH1	*	2016	528	15.72	100	15.72	0
M	MAMH1	*	2016	520	15.82	100	15.82	0
M	MAMH1	*	2016	504	16.03	100	16.03	0
M	MAMH1	*	2016	500	16.08	100	16.08	0
M	MAMH1	*	2016	480	16.36	100	16.36	0
M	MAMH1	*	2016	460	16.66	100	16.66	0
M	MAMH1	*	2016	456	16.72	100	16.72	0
M	MAMH1	*	2016	440	16.98	100	16.98	0
M	MAMH1	*	2016	432	17.12	100	17.12	0
M	MAMH1	*	2016	420	17.33	100	17.33	0
M	MAMH1	*	2016	400	17.72	100	17.72	0
M	MAMH1	*	2016	380	18.14	100	18.14	0
M	MAMH1	*	2016	360	18.6	100	18.6	0
M	MAMH1	*	2016	352	18.8	100	18.8	0
M	MAMH1	*	2016	336	19.22	100	19.22	0
M	MAMH1	*	2016	320	19.68	100	19.68	0
M	MAMH1	*	2016	280	21.04	100	21.04	0
M	MAMH1	*	2016	240	22.81	100	22.81	0
M	MAMH1	*	2016	200	25.22	100	25.22	0
M	MAMH1	*	2016	190	25.97	100	25.97	0
M	MAMH1	*	2016	180	26.8	100	26.8	0
M	MAMH1	*	2016	170	27.72	100	27.72	0
M	MAMH1	*	2016	160	28.74	100	28.74	0
M	MAMH1	*	2016	150	29.88	100	29.88	0
M	MAMH2	1	2016	99999999	15.9	78	12.4	0
M	MAMH2	1	2016	2200	15.9	78	12.4	0.0015
M	MAMH2	1	2016	2120	16.05	78	12.52	0.001833
M	MAMH2	1	2016	2060	16.19	78	12.63	0.002167
M	MAMH2	1	2016	2000	16.36	78	12.76	0.003
M	MAMH2	1	2016	1960	16.51	78	12.88	0.00275
M	MAMH2	1	2016	1920	16.65	78	12.99	0.0075
M	MAMH2	1	2016	1904	16.81	78	13.11	0.001161
M	MAMH2	1	2016	1792	16.97	78	13.24	0.002143
M	MAMH2	1	2016	1736	17.13	78	13.36	0.002321
M	MAMH2	1	2016	1680	17.29	78	13.49	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH2	1	2016	1632	17.45	78	13.61	0.01625
M	MAMH2	1	2016	1624	17.61	78	13.74	0.00325
M	MAMH2	1	2016	1584	17.78	78	13.87	0.008125
M	MAMH2	1	2016	1568	17.95	78	14	0.004063
M	MAMH2	1	2016	1536	18.12	78	14.13	0.002917
M	MAMH2	1	2016	1488	18.29	78	14.27	0.002708
M	MAMH2	1	2016	1440	18.46	78	14.4	0.002708
M	MAMH2	1	2016	1392	18.63	78	14.53	0.004063
M	MAMH2	1	2016	1360	18.8	78	14.66	0.00875
M	MAMH2	1	2016	1344	18.98	78	14.8	0.005833
M	MAMH2	1	2016	1320	19.16	78	14.94	0.00625
M	MAMH2	1	2016	1296	19.34	78	15.09	0.00875
M	MAMH2	1	2016	1280	19.52	78	15.23	0.004375
M	MAMH2	1	2016	1248	19.7	78	15.37	0.0175
M	MAMH2	1	2016	1240	19.88	78	15.51	0.0035
M	MAMH2	1	2016	1200	20.07	78	15.65	0.00375
M	MAMH2	1	2016	1160	20.26	78	15.8	0.01875
M	MAMH2	1	2016	1152	20.45	78	15.95	0.004688
M	MAMH2	1	2016	1120	20.64	78	16.1	0.009375
M	MAMH2	1	2016	1104	20.83	78	16.25	0.006667
M	MAMH2	1	2016	1080	21.04	78	16.41	0.006667
M	MAMH2	1	2016	1056	21.24	78	16.57	0.009375
M	MAMH2	1	2016	1040	21.43	78	16.72	0.005
M	MAMH2	1	2016	1008	21.64	78	16.88	0.02
M	MAMH2	1	2016	1000	21.84	78	17.04	0.00375
M	MAMH2	1	2016	960	22.04	78	17.19	0.00425
M	MAMH2	1	2016	920	22.25	78	17.36	0.004
M	MAMH2	1	2016	880	22.46	78	17.52	0.004
M	MAMH2	1	2016	840	22.67	78	17.68	0.00425
M	MAMH2	1	2016	800	22.88	78	17.85	0.00325
M	MAMH2	1	2016	760	23.05	78	17.98	0.005
M	MAMH2	1	2016	720	23.31	78	18.18	0.00425
M	MAMH2	1	2016	680	23.53	78	18.35	0.0045
M	MAMH2	1	2016	640	23.75	78	18.53	0.00425
M	MAMH2	1	2016	600	23.97	78	18.7	0
M	MAMH2	2	2016	99999999	15.9	78	12.4	0
M	MAMH2	2	2016	2200	15.9	78	12.4	0.0015
M	MAMH2	2	2016	2120	16.05	78	12.52	0.001833
M	MAMH2	2	2016	2060	16.19	78	12.63	0.002167
M	MAMH2	2	2016	2000	16.36	78	12.76	0.003
M	MAMH2	2	2016	1960	16.51	78	12.88	0.00275
M	MAMH2	2	2016	1920	16.65	78	12.99	0.0075
M	MAMH2	2	2016	1904	16.81	78	13.11	0.001161
M	MAMH2	2	2016	1792	16.97	78	13.24	0.002143

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH2	2	2016	1736	17.13	78	13.36	0.002321
M	MAMH2	2	2016	1680	17.29	78	13.49	0.0025
M	MAMH2	2	2016	1632	17.45	78	13.61	0.01625
M	MAMH2	2	2016	1624	17.61	78	13.74	0.00325
M	MAMH2	2	2016	1584	17.78	78	13.87	0.008125
M	MAMH2	2	2016	1568	17.95	78	14	0.004063
M	MAMH2	2	2016	1536	18.12	78	14.13	0.002917
M	MAMH2	2	2016	1488	18.29	78	14.27	0.002708
M	MAMH2	2	2016	1440	18.46	78	14.4	0.002708
M	MAMH2	2	2016	1392	18.63	78	14.53	0.004063
M	MAMH2	2	2016	1360	18.8	78	14.66	0.00875
M	MAMH2	2	2016	1344	18.98	78	14.8	0.005833
M	MAMH2	2	2016	1320	19.16	78	14.94	0.00625
M	MAMH2	2	2016	1296	19.34	78	15.09	0.00875
M	MAMH2	2	2016	1280	19.52	78	15.23	0.004375
M	MAMH2	2	2016	1248	19.7	78	15.37	0.0175
M	MAMH2	2	2016	1240	19.88	78	15.51	0.0035
M	MAMH2	2	2016	1200	20.07	78	15.65	0.00375
M	MAMH2	2	2016	1160	20.26	78	15.8	0.01875
M	MAMH2	2	2016	1152	20.45	78	15.95	0.004688
M	MAMH2	2	2016	1120	20.64	78	16.1	0.009375
M	MAMH2	2	2016	1104	20.83	78	16.25	0.006667
M	MAMH2	2	2016	1080	21.04	78	16.41	0.006667
M	MAMH2	2	2016	1056	21.24	78	16.57	0.009375
M	MAMH2	2	2016	1040	21.43	78	16.72	0.005
M	MAMH2	2	2016	1008	21.64	78	16.88	0.02
M	MAMH2	2	2016	1000	21.84	78	17.04	0.00375
M	MAMH2	2	2016	960	22.04	78	17.19	0.00425
M	MAMH2	2	2016	920	22.25	78	17.36	0.004
M	MAMH2	2	2016	880	22.46	78	17.52	0.004
M	MAMH2	2	2016	840	22.67	78	17.68	0.00425
M	MAMH2	2	2016	800	22.88	78	17.85	0.00325
M	MAMH2	2	2016	760	23.05	78	17.98	0.005
M	MAMH2	2	2016	720	23.31	78	18.18	0.00425
M	MAMH2	2	2016	680	23.53	78	18.35	0.0045
M	MAMH2	2	2016	640	23.75	78	18.53	0.00425
M	MAMH2	2	2016	600	23.97	78	18.7	0
M	MAMH2	3	2016	9999999	15.9	78	12.4	0
M	MAMH2	3	2016	2200	15.9	78	12.4	0.0015
M	MAMH2	3	2016	2120	16.05	78	12.52	0.001833
M	MAMH2	3	2016	2060	16.19	78	12.63	0.002167
M	MAMH2	3	2016	2000	16.36	78	12.76	0.003
M	MAMH2	3	2016	1960	16.51	78	12.88	0.00275
M	MAMH2	3	2016	1920	16.65	78	12.99	0.0075

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH2	3	2016	1904	16.81	78	13.11	0.001161
M	MAMH2	3	2016	1792	16.97	78	13.24	0.002143
M	MAMH2	3	2016	1736	17.13	78	13.36	0.002321
M	MAMH2	3	2016	1680	17.29	78	13.49	0.0025
M	MAMH2	3	2016	1632	17.45	78	13.61	0.01625
M	MAMH2	3	2016	1624	17.61	78	13.74	0.00325
M	MAMH2	3	2016	1584	17.78	78	13.87	0.008125
M	MAMH2	3	2016	1568	17.95	78	14	0.004063
M	MAMH2	3	2016	1536	18.12	78	14.13	0.002917
M	MAMH2	3	2016	1488	18.29	78	14.27	0.002708
M	MAMH2	3	2016	1440	18.46	78	14.4	0.002708
M	MAMH2	3	2016	1392	18.63	78	14.53	0.004063
M	MAMH2	3	2016	1360	18.8	78	14.66	0.00875
M	MAMH2	3	2016	1344	18.98	78	14.8	0.005833
M	MAMH2	3	2016	1320	19.16	78	14.94	0.00625
M	MAMH2	3	2016	1296	19.34	78	15.09	0.00875
M	MAMH2	3	2016	1280	19.52	78	15.23	0.004375
M	MAMH2	3	2016	1248	19.7	78	15.37	0.0175
M	MAMH2	3	2016	1240	19.88	78	15.51	0.0035
M	MAMH2	3	2016	1200	20.07	78	15.65	0.00375
M	MAMH2	3	2016	1160	20.26	78	15.8	0.01875
M	MAMH2	3	2016	1152	20.45	78	15.95	0.004688
M	MAMH2	3	2016	1120	20.64	78	16.1	0.009375
M	MAMH2	3	2016	1104	20.83	78	16.25	0.006667
M	MAMH2	3	2016	1080	21.04	78	16.41	0.006667
M	MAMH2	3	2016	1056	21.24	78	16.57	0.009375
M	MAMH2	3	2016	1040	21.43	78	16.72	0.005
M	MAMH2	3	2016	1008	21.64	78	16.88	0.02
M	MAMH2	3	2016	1000	21.84	78	17.04	0.00375
M	MAMH2	3	2016	960	22.04	78	17.19	0.00425
M	MAMH2	3	2016	920	22.25	78	17.36	0.004
M	MAMH2	3	2016	880	22.46	78	17.52	0.004
M	MAMH2	3	2016	840	22.67	78	17.68	0.00425
M	MAMH2	3	2016	800	22.88	78	17.85	0.00325
M	MAMH2	3	2016	760	23.05	78	17.98	0.005
M	MAMH2	3	2016	720	23.31	78	18.18	0.00425
M	MAMH2	3	2016	680	23.53	78	18.35	0.0045
M	MAMH2	3	2016	640	23.75	78	18.53	0.00425
M	MAMH2	3	2016	600	23.97	78	18.7	0
M	MAMH2	4	2016	9999999	15.9	100	15.9	0
M	MAMH2	4	2016	2200	15.9	100	15.9	0.001875
M	MAMH2	4	2016	2120	16.05	100	16.05	0.002333
M	MAMH2	4	2016	2060	16.19	100	16.19	0.002833
M	MAMH2	4	2016	2000	16.36	100	16.36	0.00375

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH2	4	2016	1960	16.51	100	16.51	0.0035
M	MAMH2	4	2016	1920	16.65	100	16.65	0.01
M	MAMH2	4	2016	1904	16.81	100	16.81	0.001429
M	MAMH2	4	2016	1792	16.97	100	16.97	0.002857
M	MAMH2	4	2016	1736	17.13	100	17.13	0.002857
M	MAMH2	4	2016	1680	17.29	100	17.29	0.003333
M	MAMH2	4	2016	1632	17.45	100	17.45	0.02
M	MAMH2	4	2016	1624	17.61	100	17.61	0.00425
M	MAMH2	4	2016	1584	17.78	100	17.78	0.010625
M	MAMH2	4	2016	1568	17.95	100	17.95	0.005313
M	MAMH2	4	2016	1536	18.12	100	18.12	0.003542
M	MAMH2	4	2016	1488	18.29	100	18.29	0.003542
M	MAMH2	4	2016	1440	18.46	100	18.46	0.003542
M	MAMH2	4	2016	1392	18.63	100	18.63	0.005313
M	MAMH2	4	2016	1360	18.8	100	18.8	0.01125
M	MAMH2	4	2016	1344	18.98	100	18.98	0.0075
M	MAMH2	4	2016	1320	19.16	100	19.16	0.0075
M	MAMH2	4	2016	1296	19.34	100	19.34	0.01125
M	MAMH2	4	2016	1280	19.52	100	19.52	0.005625
M	MAMH2	4	2016	1248	19.7	100	19.7	0.0225
M	MAMH2	4	2016	1240	19.88	100	19.88	0.00475
M	MAMH2	4	2016	1200	20.07	100	20.07	0.00475
M	MAMH2	4	2016	1160	20.26	100	20.26	0.02375
M	MAMH2	4	2016	1152	20.45	100	20.45	0.005938
M	MAMH2	4	2016	1120	20.64	100	20.64	0.011875
M	MAMH2	4	2016	1104	20.83	100	20.83	0.00875
M	MAMH2	4	2016	1080	21.04	100	21.04	0.008333
M	MAMH2	4	2016	1056	21.24	100	21.24	0.011875
M	MAMH2	4	2016	1040	21.43	100	21.43	0.006563
M	MAMH2	4	2016	1008	21.64	100	21.64	0.025
M	MAMH2	4	2016	1000	21.84	100	21.84	0.005
M	MAMH2	4	2016	960	22.04	100	22.04	0.00525
M	MAMH2	4	2016	920	22.25	100	22.25	0.00525
M	MAMH2	4	2016	880	22.46	100	22.46	0.00525
M	MAMH2	4	2016	840	22.67	100	22.67	0.00525
M	MAMH2	4	2016	800	22.88	100	22.88	0.00425
M	MAMH2	4	2016	760	23.05	100	23.05	0.0065
M	MAMH2	4	2016	720	23.31	100	23.31	0.0055
M	MAMH2	4	2016	680	23.53	100	23.53	0.0055
M	MAMH2	4	2016	640	23.75	100	23.75	0.0055
M	MAMH2	4	2016	600	23.97	100	23.97	0
M	MAMH2	5	2016	9999999	15.9	126	20.03	0
M	MAMH2	5	2016	2200	15.9	126	20.03	0.002375
M	MAMH2	5	2016	2120	16.05	126	20.22	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH2	5	2016	2060	16.19	126	20.4	0.0035
M	MAMH2	5	2016	2000	16.36	126	20.61	0.00475
M	MAMH2	5	2016	1960	16.51	126	20.8	0.0045
M	MAMH2	5	2016	1920	16.65	126	20.98	0.0125
M	MAMH2	5	2016	1904	16.81	126	21.18	0.001786
M	MAMH2	5	2016	1792	16.97	126	21.38	0.003571
M	MAMH2	5	2016	1736	17.13	126	21.58	0.00375
M	MAMH2	5	2016	1680	17.29	126	21.79	0.004167
M	MAMH2	5	2016	1632	17.45	126	21.99	0.025
M	MAMH2	5	2016	1624	17.61	126	22.19	0.00525
M	MAMH2	5	2016	1584	17.78	126	22.4	0.01375
M	MAMH2	5	2016	1568	17.95	126	22.62	0.006562
M	MAMH2	5	2016	1536	18.12	126	22.83	0.004583
M	MAMH2	5	2016	1488	18.29	126	23.05	0.004375
M	MAMH2	5	2016	1440	18.46	126	23.26	0.004375
M	MAMH2	5	2016	1392	18.63	126	23.47	0.006875
M	MAMH2	5	2016	1360	18.8	126	23.69	0.01375
M	MAMH2	5	2016	1344	18.98	126	23.91	0.009583
M	MAMH2	5	2016	1320	19.16	126	24.14	0.009583
M	MAMH2	5	2016	1296	19.34	126	24.37	0.014375
M	MAMH2	5	2016	1280	19.52	126	24.6	0.006875
M	MAMH2	5	2016	1248	19.7	126	24.82	0.02875
M	MAMH2	5	2016	1240	19.88	126	25.05	0.006
M	MAMH2	5	2016	1200	20.07	126	25.29	0.006
M	MAMH2	5	2016	1160	20.26	126	25.53	0.03
M	MAMH2	5	2016	1152	20.45	126	25.77	0.0075
M	MAMH2	5	2016	1120	20.64	126	26.01	0.015
M	MAMH2	5	2016	1104	20.83	126	26.25	0.010833
M	MAMH2	5	2016	1080	21.04	126	26.51	0.010417
M	MAMH2	5	2016	1056	21.24	126	26.76	0.015
M	MAMH2	5	2016	1040	21.43	126	27	0.008437
M	MAMH2	5	2016	1008	21.64	126	27.27	0.03125
M	MAMH2	5	2016	1000	21.84	126	27.52	0.00625
M	MAMH2	5	2016	960	22.04	126	27.77	0.00675
M	MAMH2	5	2016	920	22.25	126	28.04	0.0065
M	MAMH2	5	2016	880	22.46	126	28.3	0.0065
M	MAMH2	5	2016	840	22.67	126	28.56	0.00675
M	MAMH2	5	2016	800	22.88	126	28.83	0.00525
M	MAMH2	5	2016	760	23.05	126	29.04	0.00825
M	MAMH2	5	2016	720	23.31	126	29.37	0.007
M	MAMH2	5	2016	680	23.53	126	29.65	0.007
M	MAMH2	5	2016	640	23.75	126	29.93	0.00675
M	MAMH2	5	2016	600	23.97	126	30.2	0
M	MAMH2	6	2016	99999999	15.9	174	27.67	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH2	6	2016	2200	15.9	174	27.67	0.00325
M	MAMH2	6	2016	2120	16.05	174	27.93	0.004
M	MAMH2	6	2016	2060	16.19	174	28.17	0.005
M	MAMH2	6	2016	2000	16.36	174	28.47	0.0065
M	MAMH2	6	2016	1960	16.51	174	28.73	0.006
M	MAMH2	6	2016	1920	16.65	174	28.97	0.0175
M	MAMH2	6	2016	1904	16.81	174	29.25	0.0025
M	MAMH2	6	2016	1792	16.97	174	29.53	0.005
M	MAMH2	6	2016	1736	17.13	174	29.81	0.004821
M	MAMH2	6	2016	1680	17.29	174	30.08	0.005833
M	MAMH2	6	2016	1632	17.45	174	30.36	0.035
M	MAMH2	6	2016	1624	17.61	174	30.64	0.0075
M	MAMH2	6	2016	1584	17.78	174	30.94	0.018125
M	MAMH2	6	2016	1568	17.95	174	31.23	0.009375
M	MAMH2	6	2016	1536	18.12	174	31.53	0.006042
M	MAMH2	6	2016	1488	18.29	174	31.82	0.00625
M	MAMH2	6	2016	1440	18.46	174	32.12	0.00625
M	MAMH2	6	2016	1392	18.63	174	32.42	0.009062
M	MAMH2	6	2016	1360	18.8	174	32.71	0.02
M	MAMH2	6	2016	1344	18.98	174	33.03	0.012917
M	MAMH2	6	2016	1320	19.16	174	33.34	0.012917
M	MAMH2	6	2016	1296	19.34	174	33.65	0.019375
M	MAMH2	6	2016	1280	19.52	174	33.96	0.01
M	MAMH2	6	2016	1248	19.7	174	34.28	0.03875
M	MAMH2	6	2016	1240	19.88	174	34.59	0.00825
M	MAMH2	6	2016	1200	20.07	174	34.92	0.00825
M	MAMH2	6	2016	1160	20.26	174	35.25	0.04125
M	MAMH2	6	2016	1152	20.45	174	35.58	0.010312
M	MAMH2	6	2016	1120	20.64	174	35.91	0.020625
M	MAMH2	6	2016	1104	20.83	174	36.24	0.015417
M	MAMH2	6	2016	1080	21.04	174	36.61	0.014583
M	MAMH2	6	2016	1056	21.24	174	36.96	0.020625
M	MAMH2	6	2016	1040	21.43	174	37.29	0.01125
M	MAMH2	6	2016	1008	21.64	174	37.65	0.04375
M	MAMH2	6	2016	1000	21.84	174	38	0.00875
M	MAMH2	6	2016	960	22.04	174	38.35	0.00925
M	MAMH2	6	2016	920	22.25	174	38.72	0.009
M	MAMH2	6	2016	880	22.46	174	39.08	0.00925
M	MAMH2	6	2016	840	22.67	174	39.45	0.009
M	MAMH2	6	2016	800	22.88	174	39.81	0.0075
M	MAMH2	6	2016	760	23.05	174	40.11	0.01125
M	MAMH2	6	2016	720	23.31	174	40.56	0.0095
M	MAMH2	6	2016	680	23.53	174	40.94	0.00975
M	MAMH2	6	2016	640	23.75	174	41.33	0.0095

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH2	6	2016	600	23.97	174	41.71	0
M	MAMH2	7	2016	99999999	15.9	230	36.57	0
M	MAMH2	7	2016	2200	15.9	230	36.57	0.00425
M	MAMH2	7	2016	2120	16.05	230	36.91	0.0055
M	MAMH2	7	2016	2060	16.19	230	37.24	0.0065
M	MAMH2	7	2016	2000	16.36	230	37.63	0.0085
M	MAMH2	7	2016	1960	16.51	230	37.97	0.008
M	MAMH2	7	2016	1920	16.65	230	38.29	0.023125
M	MAMH2	7	2016	1904	16.81	230	38.66	0.003304
M	MAMH2	7	2016	1792	16.97	230	39.03	0.006607
M	MAMH2	7	2016	1736	17.13	230	39.4	0.006607
M	MAMH2	7	2016	1680	17.29	230	39.77	0.0075
M	MAMH2	7	2016	1632	17.45	230	40.13	0.04625
M	MAMH2	7	2016	1624	17.61	230	40.5	0.00975
M	MAMH2	7	2016	1584	17.78	230	40.89	0.025
M	MAMH2	7	2016	1568	17.95	230	41.29	0.012188
M	MAMH2	7	2016	1536	18.12	230	41.68	0.008125
M	MAMH2	7	2016	1488	18.29	230	42.07	0.008125
M	MAMH2	7	2016	1440	18.46	230	42.46	0.008125
M	MAMH2	7	2016	1392	18.63	230	42.85	0.012188
M	MAMH2	7	2016	1360	18.8	230	43.24	0.025625
M	MAMH2	7	2016	1344	18.98	230	43.65	0.0175
M	MAMH2	7	2016	1320	19.16	230	44.07	0.017083
M	MAMH2	7	2016	1296	19.34	230	44.48	0.02625
M	MAMH2	7	2016	1280	19.52	230	44.9	0.012813
M	MAMH2	7	2016	1248	19.7	230	45.31	0.05125
M	MAMH2	7	2016	1240	19.88	230	45.72	0.011
M	MAMH2	7	2016	1200	20.07	230	46.16	0.011
M	MAMH2	7	2016	1160	20.26	230	46.6	0.055
M	MAMH2	7	2016	1152	20.45	230	47.04	0.013437
M	MAMH2	7	2016	1120	20.64	230	47.47	0.0275
M	MAMH2	7	2016	1104	20.83	230	47.91	0.02
M	MAMH2	7	2016	1080	21.04	230	48.39	0.019167
M	MAMH2	7	2016	1056	21.24	230	48.85	0.0275
M	MAMH2	7	2016	1040	21.43	230	49.29	0.015
M	MAMH2	7	2016	1008	21.64	230	49.77	0.0575
M	MAMH2	7	2016	1000	21.84	230	50.23	0.0115
M	MAMH2	7	2016	960	22.04	230	50.69	0.01225
M	MAMH2	7	2016	920	22.25	230	51.18	0.012
M	MAMH2	7	2016	880	22.46	230	51.66	0.012
M	MAMH2	7	2016	840	22.67	230	52.14	0.012
M	MAMH2	7	2016	800	22.88	230	52.62	0.01
M	MAMH2	7	2016	760	23.05	230	53.02	0.01475
M	MAMH2	7	2016	720	23.31	230	53.61	0.01275

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	MAMH2	7	2016	680	23.53	230	54.12	0.01275
M	MAMH2	7	2016	640	23.75	230	54.63	0.0125
M	MAMH2	7	2016	600	23.97	230	55.13	0
M	MAMH2	*	2016	99999999	15.9	100	15.9	0
M	MAMH2	*	2016	2200	15.9	100	15.9	0
M	MAMH2	*	2016	2120	16.05	100	16.05	0
M	MAMH2	*	2016	2060	16.19	100	16.19	0
M	MAMH2	*	2016	2000	16.36	100	16.36	0
M	MAMH2	*	2016	1960	16.51	100	16.51	0
M	MAMH2	*	2016	1920	16.65	100	16.65	0
M	MAMH2	*	2016	1904	16.81	100	16.81	0
M	MAMH2	*	2016	1792	16.97	100	16.97	0
M	MAMH2	*	2016	1736	17.13	100	17.13	0
M	MAMH2	*	2016	1680	17.29	100	17.29	0
M	MAMH2	*	2016	1632	17.45	100	17.45	0
M	MAMH2	*	2016	1624	17.61	100	17.61	0
M	MAMH2	*	2016	1584	17.78	100	17.78	0
M	MAMH2	*	2016	1568	17.95	100	17.95	0
M	MAMH2	*	2016	1536	18.12	100	18.12	0
M	MAMH2	*	2016	1488	18.29	100	18.29	0
M	MAMH2	*	2016	1440	18.46	100	18.46	0
M	MAMH2	*	2016	1392	18.63	100	18.63	0
M	MAMH2	*	2016	1360	18.8	100	18.8	0
M	MAMH2	*	2016	1344	18.98	100	18.98	0
M	MAMH2	*	2016	1320	19.16	100	19.16	0
M	MAMH2	*	2016	1296	19.34	100	19.34	0
M	MAMH2	*	2016	1280	19.52	100	19.52	0
M	MAMH2	*	2016	1248	19.7	100	19.7	0
M	MAMH2	*	2016	1240	19.88	100	19.88	0
M	MAMH2	*	2016	1200	20.07	100	20.07	0
M	MAMH2	*	2016	1160	20.26	100	20.26	0
M	MAMH2	*	2016	1152	20.45	100	20.45	0
M	MAMH2	*	2016	1120	20.64	100	20.64	0
M	MAMH2	*	2016	1104	20.83	100	20.83	0
M	MAMH2	*	2016	1080	21.04	100	21.04	0
M	MAMH2	*	2016	1056	21.24	100	21.24	0
M	MAMH2	*	2016	1040	21.43	100	21.43	0
M	MAMH2	*	2016	1008	21.64	100	21.64	0
M	MAMH2	*	2016	1000	21.84	100	21.84	0
M	MAMH2	*	2016	960	22.04	100	22.04	0
M	MAMH2	*	2016	920	22.25	100	22.25	0
M	MAMH2	*	2016	880	22.46	100	22.46	0
M	MAMH2	*	2016	840	22.67	100	22.67	0
M	MAMH2	*	2016	800	22.88	100	22.88	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
M	MAMH2	*	2016	760	23.05	100	23.05	0
M	MAMH2	*	2016	720	23.31	100	23.31	0
M	MAMH2	*	2016	680	23.53	100	23.53	0
M	MAMH2	*	2016	640	23.75	100	23.75	0
M	MAMH2	*	2016	600	23.97	100	23.97	0
M	OFP	1	2016	99999999	10.75	35	3.76	
M	OFP	2	2016	99999999	10.75	55	5.91	
M	OFP	3	2016	99999999	10.75	78	8.39	
M	OFP	4	2016	99999999	10.75	100	10.75	
M	OFP	5	2016	99999999	10.75	130	13.98	
M	OFP	6	2016	99999999	10.75	171	18.38	
M	OFP	7	2016	99999999	10.75	234	25.16	
M	OFP	*	2016	99999999	10.75	100	10.75	0
M	OFP	1-	2016	99999999	10.75	30	3.23	
M	OFP	1+	2016	99999999	10.75	40	4.3	
M	OFP	2-	2016	99999999	10.75	47	5.05	
M	OFP	2+	2016	99999999	10.75	63	6.77	
M	OFP	3-	2016	99999999	10.75	70	7.53	
M	OFP	3+	2016	99999999	10.75	86	9.25	
M	OFP	4-	2016	99999999	10.75	92	9.89	
M	OFP	4+	2016	99999999	10.75	108	11.61	
M	OFP	5-	2016	99999999	10.75	119	12.79	
M	OFP	5+	2016	99999999	10.75	142	15.27	
M	OFP	6-	2016	99999999	10.75	155	16.66	
M	OFP	6+	2016	99999999	10.75	190	20.43	
M	OFP	7-	2016	99999999	10.75	208	22.36	
M	OFP	7+	2016	99999999	10.75	262	28.17	
M	RG1	1	2016	99999999	6.59	74	4.88	
M	RG1	2	2016	99999999	6.59	74	4.88	
M	RG1	3	2016	99999999	6.59	74	4.88	
M	RG1	4	2016	99999999	6.59	100	6.59	
M	RG1	5	2016	99999999	6.59	130	8.57	
M	RG1	6	2016	99999999	6.59	130	8.57	
M	RG1	7	2016	99999999	6.59	130	8.57	
M	RG1	*	2016	99999999	6.59	100	6.59	0
M	SM1	*	2016	1E+12	4.06	100	4.06	
M	SM2	*	2016	1E+12	9.36	100	9.36	
M	SM3	*	2016	1E+12	3.78	100	3.78	
M	SM4	*	2016	1E+12	3.12	100	3.12	
M	SM5	*	2016	1E+12	4.29	100	4.29	
M	SM6	*	2016	1E+12	18.56	100	18.56	
M	SM7	*	2016	1E+12	9.91	100	9.91	
M	WD	1	2016	99999999	4.13	35	1.45	
M	WD	2	2016	99999999	4.13	55	2.27	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
M	WD	3	2016	99999999	4.13	78	3.22	
M	WD	4	2016	99999999	4.13	100	4.13	
M	WD	5	2016	99999999	4.13	128	5.29	
M	WD	6	2016	99999999	4.13	168	6.94	
M	WD	7	2016	99999999	4.13	230	9.5	
M	WD	*	2016	99999999	4.13	100	4.13	0
M	WD	1-	2016	99999999	4.13	30	1.24	
M	WD	1+	2016	99999999	4.13	40	1.65	
M	WD	2-	2016	99999999	4.13	47	1.94	
M	WD	2+	2016	99999999	4.13	63	2.6	
M	WD	3-	2016	99999999	4.13	70	2.89	
M	WD	3+	2016	99999999	4.13	86	3.55	
M	WD	4-	2016	99999999	4.13	92	3.8	
M	WD	4+	2016	99999999	4.13	107	4.42	
M	WD	5-	2016	99999999	4.13	117	4.83	
M	WD	5+	2016	99999999	4.13	141	5.82	
M	WD	6-	2016	99999999	4.13	152	6.28	
M	WD	6+	2016	99999999	4.13	187	7.72	
M	WD	7-	2016	99999999	4.13	204	8.43	
M	WD	7+	2016	99999999	4.13	259	10.7	
R	AB2	1	2016	99999999	5.33	80	4.26	0
R	AB2	1	2016	15000	5.33	80	4.26	0.00004
R	AB2	1	2016	14500	5.35	80	4.28	0.00004
R	AB2	1	2016	14000	5.37	80	4.3	0.00002
R	AB2	1	2016	13500	5.39	80	4.31	0.00004
R	AB2	1	2016	13000	5.41	80	4.33	0.00002
R	AB2	1	2016	12500	5.43	80	4.34	0.00004
R	AB2	1	2016	12000	5.45	80	4.36	0.00004
R	AB2	1	2016	11500	5.47	80	4.38	0.00002
R	AB2	1	2016	11000	5.49	80	4.39	0.00006
R	AB2	1	2016	10500	5.52	80	4.42	0.00004
R	AB2	1	2016	10000	5.55	80	4.44	0.00004
R	AB2	1	2016	9500	5.57	80	4.46	0.00004
R	AB2	1	2016	9000	5.6	80	4.48	0.00008
R	AB2	1	2016	8500	5.65	80	4.52	0.00008
R	AB2	1	2016	8000	5.7	80	4.56	0.00008
R	AB2	1	2016	7500	5.75	80	4.6	0.00006
R	AB2	1	2016	7000	5.79	80	4.63	0.00008
R	AB2	1	2016	6500	5.84	80	4.67	0.00008
R	AB2	1	2016	6000	5.89	80	4.71	0.00012
R	AB2	1	2016	5500	5.96	80	4.77	0.0001
R	AB2	1	2016	5000	6.03	80	4.82	0.00016
R	AB2	1	2016	4500	6.12	80	4.9	0.00016
R	AB2	1	2016	4000	6.22	80	4.98	0.00022

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AB2	1	2016	3500	6.36	80	5.09	0.00022
R	AB2	1	2016	3000	6.5	80	5.2	0.00042
R	AB2	1	2016	2500	6.76	80	5.41	0.00042
R	AB2	1	2016	2000	7.03	80	5.62	-0.00156
R	AB2	1	2016	1500	6.05	80	4.84	0.00324
R	AB2	1	2016	1000	8.07	80	6.46	0.00212
R	AB2	1	2016	500	9.4	80	7.52	0.0121
R	AB2	1	2016	100	15.45	80	12.36	0.0672
R	AB2	1	2016	50	19.65	80	15.72	1.412041
R	AB2	1	2016	1	106.14	80	84.91	0
R	AB2	2	2016	99999999	5.33	80	4.26	0
R	AB2	2	2016	15000	5.33	80	4.26	0.00004
R	AB2	2	2016	14500	5.35	80	4.28	0.00004
R	AB2	2	2016	14000	5.37	80	4.3	0.00002
R	AB2	2	2016	13500	5.39	80	4.31	0.00004
R	AB2	2	2016	13000	5.41	80	4.33	0.00002
R	AB2	2	2016	12500	5.43	80	4.34	0.00004
R	AB2	2	2016	12000	5.45	80	4.36	0.00004
R	AB2	2	2016	11500	5.47	80	4.38	0.00002
R	AB2	2	2016	11000	5.49	80	4.39	0.00006
R	AB2	2	2016	10500	5.52	80	4.42	0.00004
R	AB2	2	2016	10000	5.55	80	4.44	0.00004
R	AB2	2	2016	9500	5.57	80	4.46	0.00004
R	AB2	2	2016	9000	5.6	80	4.48	0.00008
R	AB2	2	2016	8500	5.65	80	4.52	0.00008
R	AB2	2	2016	8000	5.7	80	4.56	0.00008
R	AB2	2	2016	7500	5.75	80	4.6	0.00006
R	AB2	2	2016	7000	5.79	80	4.63	0.00008
R	AB2	2	2016	6500	5.84	80	4.67	0.00008
R	AB2	2	2016	6000	5.89	80	4.71	0.00012
R	AB2	2	2016	5500	5.96	80	4.77	0.0001
R	AB2	2	2016	5000	6.03	80	4.82	0.00016
R	AB2	2	2016	4500	6.12	80	4.9	0.00016
R	AB2	2	2016	4000	6.22	80	4.98	0.00022
R	AB2	2	2016	3500	6.36	80	5.09	0.00022
R	AB2	2	2016	3000	6.5	80	5.2	0.00042
R	AB2	2	2016	2500	6.76	80	5.41	0.00042
R	AB2	2	2016	2000	7.03	80	5.62	-0.00156
R	AB2	2	2016	1500	6.05	80	4.84	0.00324
R	AB2	2	2016	1000	8.07	80	6.46	0.00212
R	AB2	2	2016	500	9.4	80	7.52	0.0121
R	AB2	2	2016	100	15.45	80	12.36	0.0672
R	AB2	2	2016	50	19.65	80	15.72	1.412041
R	AB2	2	2016	1	106.14	80	84.91	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AB2	3	2016	99999999	5.33	80	4.26	0
R	AB2	3	2016	15000	5.33	80	4.26	0.00004
R	AB2	3	2016	14500	5.35	80	4.28	0.00004
R	AB2	3	2016	14000	5.37	80	4.3	0.00002
R	AB2	3	2016	13500	5.39	80	4.31	0.00004
R	AB2	3	2016	13000	5.41	80	4.33	0.00002
R	AB2	3	2016	12500	5.43	80	4.34	0.00004
R	AB2	3	2016	12000	5.45	80	4.36	0.00004
R	AB2	3	2016	11500	5.47	80	4.38	0.00002
R	AB2	3	2016	11000	5.49	80	4.39	0.00006
R	AB2	3	2016	10500	5.52	80	4.42	0.00004
R	AB2	3	2016	10000	5.55	80	4.44	0.00004
R	AB2	3	2016	9500	5.57	80	4.46	0.00004
R	AB2	3	2016	9000	5.6	80	4.48	0.00008
R	AB2	3	2016	8500	5.65	80	4.52	0.00008
R	AB2	3	2016	8000	5.7	80	4.56	0.00008
R	AB2	3	2016	7500	5.75	80	4.6	0.00006
R	AB2	3	2016	7000	5.79	80	4.63	0.00008
R	AB2	3	2016	6500	5.84	80	4.67	0.00008
R	AB2	3	2016	6000	5.89	80	4.71	0.00012
R	AB2	3	2016	5500	5.96	80	4.77	0.0001
R	AB2	3	2016	5000	6.03	80	4.82	0.00016
R	AB2	3	2016	4500	6.12	80	4.9	0.00016
R	AB2	3	2016	4000	6.22	80	4.98	0.00022
R	AB2	3	2016	3500	6.36	80	5.09	0.00022
R	AB2	3	2016	3000	6.5	80	5.2	0.00042
R	AB2	3	2016	2500	6.76	80	5.41	0.00042
R	AB2	3	2016	2000	7.03	80	5.62	-0.00156
R	AB2	3	2016	1500	6.05	80	4.84	0.00324
R	AB2	3	2016	1000	8.07	80	6.46	0.00212
R	AB2	3	2016	500	9.4	80	7.52	0.0121
R	AB2	3	2016	100	15.45	80	12.36	0.0672
R	AB2	3	2016	50	19.65	80	15.72	1.412041
R	AB2	3	2016	1	106.14	80	84.91	0
R	AB2	4	2016	99999999	5.33	100	5.33	0
R	AB2	4	2016	15000	5.33	100	5.33	0.00004
R	AB2	4	2016	14500	5.35	100	5.35	0.00004
R	AB2	4	2016	14000	5.37	100	5.37	0.00004
R	AB2	4	2016	13500	5.39	100	5.39	0.00004
R	AB2	4	2016	13000	5.41	100	5.41	0.00004
R	AB2	4	2016	12500	5.43	100	5.43	0.00004
R	AB2	4	2016	12000	5.45	100	5.45	0.00004
R	AB2	4	2016	11500	5.47	100	5.47	0.00004
R	AB2	4	2016	11000	5.49	100	5.49	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AB2	4	2016	10500	5.52	100	5.52	0.00006
R	AB2	4	2016	10000	5.55	100	5.55	0.00004
R	AB2	4	2016	9500	5.57	100	5.57	0.00006
R	AB2	4	2016	9000	5.6	100	5.6	0.0001
R	AB2	4	2016	8500	5.65	100	5.65	0.0001
R	AB2	4	2016	8000	5.7	100	5.7	0.0001
R	AB2	4	2016	7500	5.75	100	5.75	0.00008
R	AB2	4	2016	7000	5.79	100	5.79	0.0001
R	AB2	4	2016	6500	5.84	100	5.84	0.0001
R	AB2	4	2016	6000	5.89	100	5.89	0.00014
R	AB2	4	2016	5500	5.96	100	5.96	0.00014
R	AB2	4	2016	5000	6.03	100	6.03	0.00018
R	AB2	4	2016	4500	6.12	100	6.12	0.0002
R	AB2	4	2016	4000	6.22	100	6.22	0.00028
R	AB2	4	2016	3500	6.36	100	6.36	0.00028
R	AB2	4	2016	3000	6.5	100	6.5	0.00052
R	AB2	4	2016	2500	6.76	100	6.76	0.00054
R	AB2	4	2016	2000	7.03	100	7.03	-0.00196
R	AB2	4	2016	1500	6.05	100	6.05	0.00404
R	AB2	4	2016	1000	8.07	100	8.07	0.00266
R	AB2	4	2016	500	9.4	100	9.4	0.015125
R	AB2	4	2016	100	15.45	100	15.45	0.084
R	AB2	4	2016	50	19.65	100	19.65	1.765102
R	AB2	4	2016	1	106.14	100	106.14	0
R	AB2	5	2016	9999999	5.33	125	6.66	0
R	AB2	5	2016	15000	5.33	125	6.66	0.00006
R	AB2	5	2016	14500	5.35	125	6.69	0.00004
R	AB2	5	2016	14000	5.37	125	6.71	0.00006
R	AB2	5	2016	13500	5.39	125	6.74	0.00004
R	AB2	5	2016	13000	5.41	125	6.76	0.00006
R	AB2	5	2016	12500	5.43	125	6.79	0.00004
R	AB2	5	2016	12000	5.45	125	6.81	0.00006
R	AB2	5	2016	11500	5.47	125	6.84	0.00004
R	AB2	5	2016	11000	5.49	125	6.86	0.00008
R	AB2	5	2016	10500	5.52	125	6.9	0.00008
R	AB2	5	2016	10000	5.55	125	6.94	0.00004
R	AB2	5	2016	9500	5.57	125	6.96	0.00008
R	AB2	5	2016	9000	5.6	125	7	0.00012
R	AB2	5	2016	8500	5.65	125	7.06	0.00014
R	AB2	5	2016	8000	5.7	125	7.13	0.00012
R	AB2	5	2016	7500	5.75	125	7.19	0.0001
R	AB2	5	2016	7000	5.79	125	7.24	0.00012
R	AB2	5	2016	6500	5.84	125	7.3	0.00012
R	AB2	5	2016	6000	5.89	125	7.36	0.00018

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AB2	5	2016	5500	5.96	125	7.45	0.00018
R	AB2	5	2016	5000	6.03	125	7.54	0.00022
R	AB2	5	2016	4500	6.12	125	7.65	0.00026
R	AB2	5	2016	4000	6.22	125	7.78	0.00034
R	AB2	5	2016	3500	6.36	125	7.95	0.00036
R	AB2	5	2016	3000	6.5	125	8.13	0.00064
R	AB2	5	2016	2500	6.76	125	8.45	0.00068
R	AB2	5	2016	2000	7.03	125	8.79	-0.00246
R	AB2	5	2016	1500	6.05	125	7.56	0.00506
R	AB2	5	2016	1000	8.07	125	10.09	0.00332
R	AB2	5	2016	500	9.4	125	11.75	0.0189
R	AB2	5	2016	100	15.45	125	19.31	0.105
R	AB2	5	2016	50	19.65	125	24.56	2.206531
R	AB2	5	2016	1	106.14	125	132.68	0
R	AB2	6	2016	99999999	5.33	125	6.66	0
R	AB2	6	2016	15000	5.33	125	6.66	0.00006
R	AB2	6	2016	14500	5.35	125	6.69	0.00004
R	AB2	6	2016	14000	5.37	125	6.71	0.00006
R	AB2	6	2016	13500	5.39	125	6.74	0.00004
R	AB2	6	2016	13000	5.41	125	6.76	0.00006
R	AB2	6	2016	12500	5.43	125	6.79	0.00004
R	AB2	6	2016	12000	5.45	125	6.81	0.00006
R	AB2	6	2016	11500	5.47	125	6.84	0.00004
R	AB2	6	2016	11000	5.49	125	6.86	0.00008
R	AB2	6	2016	10500	5.52	125	6.9	0.00008
R	AB2	6	2016	10000	5.55	125	6.94	0.00004
R	AB2	6	2016	9500	5.57	125	6.96	0.00008
R	AB2	6	2016	9000	5.6	125	7	0.00012
R	AB2	6	2016	8500	5.65	125	7.06	0.00014
R	AB2	6	2016	8000	5.7	125	7.13	0.00012
R	AB2	6	2016	7500	5.75	125	7.19	0.0001
R	AB2	6	2016	7000	5.79	125	7.24	0.00012
R	AB2	6	2016	6500	5.84	125	7.3	0.00012
R	AB2	6	2016	6000	5.89	125	7.36	0.00018
R	AB2	6	2016	5500	5.96	125	7.45	0.00018
R	AB2	6	2016	5000	6.03	125	7.54	0.00022
R	AB2	6	2016	4500	6.12	125	7.65	0.00026
R	AB2	6	2016	4000	6.22	125	7.78	0.00034
R	AB2	6	2016	3500	6.36	125	7.95	0.00036
R	AB2	6	2016	3000	6.5	125	8.13	0.00064
R	AB2	6	2016	2500	6.76	125	8.45	0.00068
R	AB2	6	2016	2000	7.03	125	8.79	-0.00246
R	AB2	6	2016	1500	6.05	125	7.56	0.00506
R	AB2	6	2016	1000	8.07	125	10.09	0.00332

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AB2	6	2016	500	9.4	125	11.75	0.0189
R	AB2	6	2016	100	15.45	125	19.31	0.105
R	AB2	6	2016	50	19.65	125	24.56	2.206531
R	AB2	6	2016	1	106.14	125	132.68	0
R	AB2	7	2016	99999999	5.33	125	6.66	0
R	AB2	7	2016	15000	5.33	125	6.66	0.00006
R	AB2	7	2016	14500	5.35	125	6.69	0.00004
R	AB2	7	2016	14000	5.37	125	6.71	0.00006
R	AB2	7	2016	13500	5.39	125	6.74	0.00004
R	AB2	7	2016	13000	5.41	125	6.76	0.00006
R	AB2	7	2016	12500	5.43	125	6.79	0.00004
R	AB2	7	2016	12000	5.45	125	6.81	0.00006
R	AB2	7	2016	11500	5.47	125	6.84	0.00004
R	AB2	7	2016	11000	5.49	125	6.86	0.00008
R	AB2	7	2016	10500	5.52	125	6.9	0.00008
R	AB2	7	2016	10000	5.55	125	6.94	0.00004
R	AB2	7	2016	9500	5.57	125	6.96	0.00008
R	AB2	7	2016	9000	5.6	125	7	0.00012
R	AB2	7	2016	8500	5.65	125	7.06	0.00014
R	AB2	7	2016	8000	5.7	125	7.13	0.00012
R	AB2	7	2016	7500	5.75	125	7.19	0.0001
R	AB2	7	2016	7000	5.79	125	7.24	0.00012
R	AB2	7	2016	6500	5.84	125	7.3	0.00012
R	AB2	7	2016	6000	5.89	125	7.36	0.00018
R	AB2	7	2016	5500	5.96	125	7.45	0.00018
R	AB2	7	2016	5000	6.03	125	7.54	0.00022
R	AB2	7	2016	4500	6.12	125	7.65	0.00026
R	AB2	7	2016	4000	6.22	125	7.78	0.00034
R	AB2	7	2016	3500	6.36	125	7.95	0.00036
R	AB2	7	2016	3000	6.5	125	8.13	0.00064
R	AB2	7	2016	2500	6.76	125	8.45	0.00068
R	AB2	7	2016	2000	7.03	125	8.79	-0.00246
R	AB2	7	2016	1500	6.05	125	7.56	0.00506
R	AB2	7	2016	1000	8.07	125	10.09	0.00332
R	AB2	7	2016	500	9.4	125	11.75	0.0189
R	AB2	7	2016	100	15.45	125	19.31	0.105
R	AB2	7	2016	50	19.65	125	24.56	2.206531
R	AB2	7	2016	1	106.14	125	132.68	0
R	AD1	1	2016	99999999	13.75	80	11	0
R	AD1	1	2016	20000	13.75	80	11	0.00004
R	AD1	1	2016	19500	13.78	80	11.02	0.00006
R	AD1	1	2016	19000	13.81	80	11.05	0.00004
R	AD1	1	2016	18500	13.84	80	11.07	0.00006
R	AD1	1	2016	18000	13.87	80	11.1	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AD1	1	2016	17500	13.9	80	11.12	0.00006
R	AD1	1	2016	17000	13.94	80	11.15	0.00006
R	AD1	1	2016	16500	13.98	80	11.18	0.00008
R	AD1	1	2016	16000	14.02	80	11.22	0.00006
R	AD1	1	2016	15500	14.06	80	11.25	0.00006
R	AD1	1	2016	15000	14.1	80	11.28	0.00006
R	AD1	1	2016	14500	14.14	80	11.31	0.00008
R	AD1	1	2016	14000	14.19	80	11.35	0.00008
R	AD1	1	2016	13500	14.24	80	11.39	0.00008
R	AD1	1	2016	13000	14.29	80	11.43	0.0001
R	AD1	1	2016	12500	14.35	80	11.48	0.0001
R	AD1	1	2016	12000	14.41	80	11.53	0.0001
R	AD1	1	2016	11500	14.47	80	11.58	0.0001
R	AD1	1	2016	11000	14.54	80	11.63	0.00014
R	AD1	1	2016	10500	14.62	80	11.7	0.00012
R	AD1	1	2016	10000	14.7	80	11.76	0.00012
R	AD1	1	2016	9500	14.78	80	11.82	0.00016
R	AD1	1	2016	9000	14.88	80	11.9	0.00016
R	AD1	1	2016	8500	14.98	80	11.98	0.0002
R	AD1	1	2016	8000	15.1	80	12.08	0.0002
R	AD1	1	2016	7500	15.22	80	12.18	0.00032
R	AD1	1	2016	7000	15.42	80	12.34	0.00028
R	AD1	1	2016	6500	15.6	80	12.48	0.00032
R	AD1	1	2016	6000	15.8	80	12.64	0.00032
R	AD1	1	2016	5500	16	80	12.8	0.00048
R	AD1	1	2016	5000	16.3	80	13.04	0.0006
R	AD1	1	2016	4500	16.68	80	13.34	0.00058
R	AD1	1	2016	4000	17.04	80	13.63	0.0009
R	AD1	1	2016	3500	17.6	80	14.08	0.00086
R	AD1	1	2016	3000	18.14	80	14.51	0.00096
R	AD1	1	2016	2500	18.74	80	14.99	0.00112
R	AD1	1	2016	2000	19.44	80	15.55	0.002
R	AD1	1	2016	1750	20.06	80	16.05	0.0014
R	AD1	1	2016	1500	20.5	80	16.4	0.0016
R	AD1	1	2016	1250	21	80	16.8	0.00212
R	AD1	1	2016	1000	21.66	80	17.33	0.0106
R	AD1	1	2016	950	22.32	80	17.86	0.0212
R	AD1	1	2016	900	23.65	80	18.92	0.0068
R	AD1	1	2016	850	24.07	80	19.26	0.0064
R	AD1	1	2016	800	24.47	80	19.58	0.0064
R	AD1	1	2016	750	24.87	80	19.9	0.007
R	AD1	1	2016	700	25.31	80	20.25	0.008
R	AD1	1	2016	650	25.81	80	20.65	0.0082
R	AD1	1	2016	600	26.32	80	21.06	0.0102

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	1	2016	550	26.96	80	21.57	0.0114
R	AD1	1	2016	500	27.68	80	22.14	0.0128
R	AD1	1	2016	450	28.48	80	22.78	0.0168
R	AD1	1	2016	400	29.53	80	23.62	0.0174
R	AD1	1	2016	350	30.61	80	24.49	0.0232
R	AD1	1	2016	300	32.06	80	25.65	0.0296
R	AD1	1	2016	250	33.91	80	27.13	0.04
R	AD1	1	2016	200	36.41	80	29.13	0.0416
R	AD1	1	2016	150	39.01	80	31.21	0.0962
R	AD1	1	2016	100	45.03	80	36.02	2.431111
R	AD1	1	2016	1	345.88	80	276.7	0
R	AD1	2	2016	99999999	13.75	80	11	0
R	AD1	2	2016	20000	13.75	80	11	0.00004
R	AD1	2	2016	19500	13.78	80	11.02	0.00006
R	AD1	2	2016	19000	13.81	80	11.05	0.00004
R	AD1	2	2016	18500	13.84	80	11.07	0.00006
R	AD1	2	2016	18000	13.87	80	11.1	0.00004
R	AD1	2	2016	17500	13.9	80	11.12	0.00006
R	AD1	2	2016	17000	13.94	80	11.15	0.00006
R	AD1	2	2016	16500	13.98	80	11.18	0.00008
R	AD1	2	2016	16000	14.02	80	11.22	0.00006
R	AD1	2	2016	15500	14.06	80	11.25	0.00006
R	AD1	2	2016	15000	14.1	80	11.28	0.00006
R	AD1	2	2016	14500	14.14	80	11.31	0.00008
R	AD1	2	2016	14000	14.19	80	11.35	0.00008
R	AD1	2	2016	13500	14.24	80	11.39	0.00008
R	AD1	2	2016	13000	14.29	80	11.43	0.0001
R	AD1	2	2016	12500	14.35	80	11.48	0.0001
R	AD1	2	2016	12000	14.41	80	11.53	0.0001
R	AD1	2	2016	11500	14.47	80	11.58	0.0001
R	AD1	2	2016	11000	14.54	80	11.63	0.00014
R	AD1	2	2016	10500	14.62	80	11.7	0.00012
R	AD1	2	2016	10000	14.7	80	11.76	0.00012
R	AD1	2	2016	9500	14.78	80	11.82	0.00016
R	AD1	2	2016	9000	14.88	80	11.9	0.00016
R	AD1	2	2016	8500	14.98	80	11.98	0.0002
R	AD1	2	2016	8000	15.1	80	12.08	0.0002
R	AD1	2	2016	7500	15.22	80	12.18	0.00032
R	AD1	2	2016	7000	15.42	80	12.34	0.00028
R	AD1	2	2016	6500	15.6	80	12.48	0.00032
R	AD1	2	2016	6000	15.8	80	12.64	0.00032
R	AD1	2	2016	5500	16	80	12.8	0.00048
R	AD1	2	2016	5000	16.3	80	13.04	0.0006
R	AD1	2	2016	4500	16.68	80	13.34	0.00058

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	2	2016	4000	17.04	80	13.63	0.0009
R	AD1	2	2016	3500	17.6	80	14.08	0.00086
R	AD1	2	2016	3000	18.14	80	14.51	0.00096
R	AD1	2	2016	2500	18.74	80	14.99	0.00112
R	AD1	2	2016	2000	19.44	80	15.55	0.002
R	AD1	2	2016	1750	20.06	80	16.05	0.0014
R	AD1	2	2016	1500	20.5	80	16.4	0.0016
R	AD1	2	2016	1250	21	80	16.8	0.00212
R	AD1	2	2016	1000	21.66	80	17.33	0.0106
R	AD1	2	2016	950	22.32	80	17.86	0.0212
R	AD1	2	2016	900	23.65	80	18.92	0.0068
R	AD1	2	2016	850	24.07	80	19.26	0.0064
R	AD1	2	2016	800	24.47	80	19.58	0.0064
R	AD1	2	2016	750	24.87	80	19.9	0.007
R	AD1	2	2016	700	25.31	80	20.25	0.008
R	AD1	2	2016	650	25.81	80	20.65	0.0082
R	AD1	2	2016	600	26.32	80	21.06	0.0102
R	AD1	2	2016	550	26.96	80	21.57	0.0114
R	AD1	2	2016	500	27.68	80	22.14	0.0128
R	AD1	2	2016	450	28.48	80	22.78	0.0168
R	AD1	2	2016	400	29.53	80	23.62	0.0174
R	AD1	2	2016	350	30.61	80	24.49	0.0232
R	AD1	2	2016	300	32.06	80	25.65	0.0296
R	AD1	2	2016	250	33.91	80	27.13	0.04
R	AD1	2	2016	200	36.41	80	29.13	0.0416
R	AD1	2	2016	150	39.01	80	31.21	0.0962
R	AD1	2	2016	100	45.03	80	36.02	2.431111
R	AD1	2	2016	1	345.88	80	276.7	0
R	AD1	3	2016	9999999	13.75	80	11	0
R	AD1	3	2016	20000	13.75	80	11	0.00004
R	AD1	3	2016	19500	13.78	80	11.02	0.00006
R	AD1	3	2016	19000	13.81	80	11.05	0.00004
R	AD1	3	2016	18500	13.84	80	11.07	0.00006
R	AD1	3	2016	18000	13.87	80	11.1	0.00004
R	AD1	3	2016	17500	13.9	80	11.12	0.00006
R	AD1	3	2016	17000	13.94	80	11.15	0.00006
R	AD1	3	2016	16500	13.98	80	11.18	0.00008
R	AD1	3	2016	16000	14.02	80	11.22	0.00006
R	AD1	3	2016	15500	14.06	80	11.25	0.00006
R	AD1	3	2016	15000	14.1	80	11.28	0.00006
R	AD1	3	2016	14500	14.14	80	11.31	0.00008
R	AD1	3	2016	14000	14.19	80	11.35	0.00008
R	AD1	3	2016	13500	14.24	80	11.39	0.00008
R	AD1	3	2016	13000	14.29	80	11.43	0.0001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	3	2016	12500	14.35	80	11.48	0.0001
R	AD1	3	2016	12000	14.41	80	11.53	0.0001
R	AD1	3	2016	11500	14.47	80	11.58	0.0001
R	AD1	3	2016	11000	14.54	80	11.63	0.00014
R	AD1	3	2016	10500	14.62	80	11.7	0.00012
R	AD1	3	2016	10000	14.7	80	11.76	0.00012
R	AD1	3	2016	9500	14.78	80	11.82	0.00016
R	AD1	3	2016	9000	14.88	80	11.9	0.00016
R	AD1	3	2016	8500	14.98	80	11.98	0.0002
R	AD1	3	2016	8000	15.1	80	12.08	0.0002
R	AD1	3	2016	7500	15.22	80	12.18	0.00032
R	AD1	3	2016	7000	15.42	80	12.34	0.00028
R	AD1	3	2016	6500	15.6	80	12.48	0.00032
R	AD1	3	2016	6000	15.8	80	12.64	0.00032
R	AD1	3	2016	5500	16	80	12.8	0.00048
R	AD1	3	2016	5000	16.3	80	13.04	0.0006
R	AD1	3	2016	4500	16.68	80	13.34	0.00058
R	AD1	3	2016	4000	17.04	80	13.63	0.0009
R	AD1	3	2016	3500	17.6	80	14.08	0.00086
R	AD1	3	2016	3000	18.14	80	14.51	0.00096
R	AD1	3	2016	2500	18.74	80	14.99	0.00112
R	AD1	3	2016	2000	19.44	80	15.55	0.002
R	AD1	3	2016	1750	20.06	80	16.05	0.0014
R	AD1	3	2016	1500	20.5	80	16.4	0.0016
R	AD1	3	2016	1250	21	80	16.8	0.00212
R	AD1	3	2016	1000	21.66	80	17.33	0.0106
R	AD1	3	2016	950	22.32	80	17.86	0.0212
R	AD1	3	2016	900	23.65	80	18.92	0.0068
R	AD1	3	2016	850	24.07	80	19.26	0.0064
R	AD1	3	2016	800	24.47	80	19.58	0.0064
R	AD1	3	2016	750	24.87	80	19.9	0.007
R	AD1	3	2016	700	25.31	80	20.25	0.008
R	AD1	3	2016	650	25.81	80	20.65	0.0082
R	AD1	3	2016	600	26.32	80	21.06	0.0102
R	AD1	3	2016	550	26.96	80	21.57	0.0114
R	AD1	3	2016	500	27.68	80	22.14	0.0128
R	AD1	3	2016	450	28.48	80	22.78	0.0168
R	AD1	3	2016	400	29.53	80	23.62	0.0174
R	AD1	3	2016	350	30.61	80	24.49	0.0232
R	AD1	3	2016	300	32.06	80	25.65	0.0296
R	AD1	3	2016	250	33.91	80	27.13	0.04
R	AD1	3	2016	200	36.41	80	29.13	0.0416
R	AD1	3	2016	150	39.01	80	31.21	0.0962
R	AD1	3	2016	100	45.03	80	36.02	2.431111

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AD1	3	2016	1	345.88	80	276.7	0
R	AD1	4	2016	99999999	13.75	100	13.75	0
R	AD1	4	2016	20000	13.75	100	13.75	0.00006
R	AD1	4	2016	19500	13.78	100	13.78	0.00006
R	AD1	4	2016	19000	13.81	100	13.81	0.00006
R	AD1	4	2016	18500	13.84	100	13.84	0.00006
R	AD1	4	2016	18000	13.87	100	13.87	0.00006
R	AD1	4	2016	17500	13.9	100	13.9	0.00008
R	AD1	4	2016	17000	13.94	100	13.94	0.00008
R	AD1	4	2016	16500	13.98	100	13.98	0.00008
R	AD1	4	2016	16000	14.02	100	14.02	0.00008
R	AD1	4	2016	15500	14.06	100	14.06	0.00008
R	AD1	4	2016	15000	14.1	100	14.1	0.00008
R	AD1	4	2016	14500	14.14	100	14.14	0.0001
R	AD1	4	2016	14000	14.19	100	14.19	0.0001
R	AD1	4	2016	13500	14.24	100	14.24	0.0001
R	AD1	4	2016	13000	14.29	100	14.29	0.00012
R	AD1	4	2016	12500	14.35	100	14.35	0.00012
R	AD1	4	2016	12000	14.41	100	14.41	0.00012
R	AD1	4	2016	11500	14.47	100	14.47	0.00014
R	AD1	4	2016	11000	14.54	100	14.54	0.00016
R	AD1	4	2016	10500	14.62	100	14.62	0.00016
R	AD1	4	2016	10000	14.7	100	14.7	0.00016
R	AD1	4	2016	9500	14.78	100	14.78	0.0002
R	AD1	4	2016	9000	14.88	100	14.88	0.0002
R	AD1	4	2016	8500	14.98	100	14.98	0.00024
R	AD1	4	2016	8000	15.1	100	15.1	0.00024
R	AD1	4	2016	7500	15.22	100	15.22	0.0004
R	AD1	4	2016	7000	15.42	100	15.42	0.00036
R	AD1	4	2016	6500	15.6	100	15.6	0.0004
R	AD1	4	2016	6000	15.8	100	15.8	0.0004
R	AD1	4	2016	5500	16	100	16	0.0006
R	AD1	4	2016	5000	16.3	100	16.3	0.00076
R	AD1	4	2016	4500	16.68	100	16.68	0.00072
R	AD1	4	2016	4000	17.04	100	17.04	0.00112
R	AD1	4	2016	3500	17.6	100	17.6	0.00108
R	AD1	4	2016	3000	18.14	100	18.14	0.0012
R	AD1	4	2016	2500	18.74	100	18.74	0.0014
R	AD1	4	2016	2000	19.44	100	19.44	0.00248
R	AD1	4	2016	1750	20.06	100	20.06	0.00176
R	AD1	4	2016	1500	20.5	100	20.5	0.002
R	AD1	4	2016	1250	21	100	21	0.00264
R	AD1	4	2016	1000	21.66	100	21.66	0.0132
R	AD1	4	2016	950	22.32	100	22.32	0.0266

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	4	2016	900	23.65	100	23.65	0.0084
R	AD1	4	2016	850	24.07	100	24.07	0.008
R	AD1	4	2016	800	24.47	100	24.47	0.008
R	AD1	4	2016	750	24.87	100	24.87	0.0088
R	AD1	4	2016	700	25.31	100	25.31	0.01
R	AD1	4	2016	650	25.81	100	25.81	0.0102
R	AD1	4	2016	600	26.32	100	26.32	0.0128
R	AD1	4	2016	550	26.96	100	26.96	0.0144
R	AD1	4	2016	500	27.68	100	27.68	0.016
R	AD1	4	2016	450	28.48	100	28.48	0.021
R	AD1	4	2016	400	29.53	100	29.53	0.0216
R	AD1	4	2016	350	30.61	100	30.61	0.029
R	AD1	4	2016	300	32.06	100	32.06	0.037
R	AD1	4	2016	250	33.91	100	33.91	0.05
R	AD1	4	2016	200	36.41	100	36.41	0.052
R	AD1	4	2016	150	39.01	100	39.01	0.1204
R	AD1	4	2016	100	45.03	100	45.03	3.038889
R	AD1	4	2016	1	345.88	100	345.88	0
R	AD1	5	2016	9999999	13.75	125	17.19	0
R	AD1	5	2016	20000	13.75	125	17.19	0.00008
R	AD1	5	2016	19500	13.78	125	17.23	0.00006
R	AD1	5	2016	19000	13.81	125	17.26	0.00008
R	AD1	5	2016	18500	13.84	125	17.3	0.00008
R	AD1	5	2016	18000	13.87	125	17.34	0.00008
R	AD1	5	2016	17500	13.9	125	17.38	0.0001
R	AD1	5	2016	17000	13.94	125	17.43	0.0001
R	AD1	5	2016	16500	13.98	125	17.48	0.0001
R	AD1	5	2016	16000	14.02	125	17.53	0.00008
R	AD1	5	2016	15500	14.06	125	17.57	0.00012
R	AD1	5	2016	15000	14.1	125	17.63	0.0001
R	AD1	5	2016	14500	14.14	125	17.68	0.00012
R	AD1	5	2016	14000	14.19	125	17.74	0.00012
R	AD1	5	2016	13500	14.24	125	17.8	0.00012
R	AD1	5	2016	13000	14.29	125	17.86	0.00016
R	AD1	5	2016	12500	14.35	125	17.94	0.00014
R	AD1	5	2016	12000	14.41	125	18.01	0.00016
R	AD1	5	2016	11500	14.47	125	18.09	0.00018
R	AD1	5	2016	11000	14.54	125	18.18	0.0002
R	AD1	5	2016	10500	14.62	125	18.28	0.0002
R	AD1	5	2016	10000	14.7	125	18.38	0.0002
R	AD1	5	2016	9500	14.78	125	18.48	0.00024
R	AD1	5	2016	9000	14.88	125	18.6	0.00026
R	AD1	5	2016	8500	14.98	125	18.73	0.0003
R	AD1	5	2016	8000	15.1	125	18.88	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	5	2016	7500	15.22	125	19.03	0.0005
R	AD1	5	2016	7000	15.42	125	19.28	0.00044
R	AD1	5	2016	6500	15.6	125	19.5	0.0005
R	AD1	5	2016	6000	15.8	125	19.75	0.0005
R	AD1	5	2016	5500	16	125	20	0.00076
R	AD1	5	2016	5000	16.3	125	20.38	0.00094
R	AD1	5	2016	4500	16.68	125	20.85	0.0009
R	AD1	5	2016	4000	17.04	125	21.3	0.0014
R	AD1	5	2016	3500	17.6	125	22	0.00136
R	AD1	5	2016	3000	18.14	125	22.68	0.0015
R	AD1	5	2016	2500	18.74	125	23.43	0.00174
R	AD1	5	2016	2000	19.44	125	24.3	0.00308
R	AD1	5	2016	1750	20.06	125	25.07	0.00224
R	AD1	5	2016	1500	20.5	125	25.63	0.00248
R	AD1	5	2016	1250	21	125	26.25	0.00328
R	AD1	5	2016	1000	21.66	125	27.07	0.0166
R	AD1	5	2016	950	22.32	125	27.9	0.0332
R	AD1	5	2016	900	23.65	125	29.56	0.0106
R	AD1	5	2016	850	24.07	125	30.09	0.01
R	AD1	5	2016	800	24.47	125	30.59	0.01
R	AD1	5	2016	750	24.87	125	31.09	0.011
R	AD1	5	2016	700	25.31	125	31.64	0.0124
R	AD1	5	2016	650	25.81	125	32.26	0.0128
R	AD1	5	2016	600	26.32	125	32.9	0.016
R	AD1	5	2016	550	26.96	125	33.7	0.018
R	AD1	5	2016	500	27.68	125	34.6	0.02
R	AD1	5	2016	450	28.48	125	35.6	0.0262
R	AD1	5	2016	400	29.53	125	36.91	0.027
R	AD1	5	2016	350	30.61	125	38.26	0.0364
R	AD1	5	2016	300	32.06	125	40.08	0.0462
R	AD1	5	2016	250	33.91	125	42.39	0.0624
R	AD1	5	2016	200	36.41	125	45.51	0.065
R	AD1	5	2016	150	39.01	125	48.76	0.1506
R	AD1	5	2016	100	45.03	125	56.29	3.798586
R	AD1	5	2016	1	345.88	125	432.35	0
R	AD1	6	2016	9999999	13.75	125	17.19	0
R	AD1	6	2016	20000	13.75	125	17.19	0.00008
R	AD1	6	2016	19500	13.78	125	17.23	0.00006
R	AD1	6	2016	19000	13.81	125	17.26	0.00008
R	AD1	6	2016	18500	13.84	125	17.3	0.00008
R	AD1	6	2016	18000	13.87	125	17.34	0.00008
R	AD1	6	2016	17500	13.9	125	17.38	0.0001
R	AD1	6	2016	17000	13.94	125	17.43	0.0001
R	AD1	6	2016	16500	13.98	125	17.48	0.0001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	6	2016	16000	14.02	125	17.53	0.00008
R	AD1	6	2016	15500	14.06	125	17.57	0.00012
R	AD1	6	2016	15000	14.1	125	17.63	0.0001
R	AD1	6	2016	14500	14.14	125	17.68	0.00012
R	AD1	6	2016	14000	14.19	125	17.74	0.00012
R	AD1	6	2016	13500	14.24	125	17.8	0.00012
R	AD1	6	2016	13000	14.29	125	17.86	0.00016
R	AD1	6	2016	12500	14.35	125	17.94	0.00014
R	AD1	6	2016	12000	14.41	125	18.01	0.00016
R	AD1	6	2016	11500	14.47	125	18.09	0.00018
R	AD1	6	2016	11000	14.54	125	18.18	0.0002
R	AD1	6	2016	10500	14.62	125	18.28	0.0002
R	AD1	6	2016	10000	14.7	125	18.38	0.0002
R	AD1	6	2016	9500	14.78	125	18.48	0.00024
R	AD1	6	2016	9000	14.88	125	18.6	0.00026
R	AD1	6	2016	8500	14.98	125	18.73	0.0003
R	AD1	6	2016	8000	15.1	125	18.88	0.0003
R	AD1	6	2016	7500	15.22	125	19.03	0.0005
R	AD1	6	2016	7000	15.42	125	19.28	0.00044
R	AD1	6	2016	6500	15.6	125	19.5	0.0005
R	AD1	6	2016	6000	15.8	125	19.75	0.0005
R	AD1	6	2016	5500	16	125	20	0.00076
R	AD1	6	2016	5000	16.3	125	20.38	0.00094
R	AD1	6	2016	4500	16.68	125	20.85	0.0009
R	AD1	6	2016	4000	17.04	125	21.3	0.0014
R	AD1	6	2016	3500	17.6	125	22	0.00136
R	AD1	6	2016	3000	18.14	125	22.68	0.0015
R	AD1	6	2016	2500	18.74	125	23.43	0.00174
R	AD1	6	2016	2000	19.44	125	24.3	0.00308
R	AD1	6	2016	1750	20.06	125	25.07	0.00224
R	AD1	6	2016	1500	20.5	125	25.63	0.00248
R	AD1	6	2016	1250	21	125	26.25	0.00328
R	AD1	6	2016	1000	21.66	125	27.07	0.0166
R	AD1	6	2016	950	22.32	125	27.9	0.0332
R	AD1	6	2016	900	23.65	125	29.56	0.0106
R	AD1	6	2016	850	24.07	125	30.09	0.01
R	AD1	6	2016	800	24.47	125	30.59	0.01
R	AD1	6	2016	750	24.87	125	31.09	0.011
R	AD1	6	2016	700	25.31	125	31.64	0.0124
R	AD1	6	2016	650	25.81	125	32.26	0.0128
R	AD1	6	2016	600	26.32	125	32.9	0.016
R	AD1	6	2016	550	26.96	125	33.7	0.018
R	AD1	6	2016	500	27.68	125	34.6	0.02
R	AD1	6	2016	450	28.48	125	35.6	0.0262

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	6	2016	400	29.53	125	36.91	0.027
R	AD1	6	2016	350	30.61	125	38.26	0.0364
R	AD1	6	2016	300	32.06	125	40.08	0.0462
R	AD1	6	2016	250	33.91	125	42.39	0.0624
R	AD1	6	2016	200	36.41	125	45.51	0.065
R	AD1	6	2016	150	39.01	125	48.76	0.1506
R	AD1	6	2016	100	45.03	125	56.29	3.798586
R	AD1	6	2016	1	345.88	125	432.35	0
R	AD1	7	2016	99999999	13.75	125	17.19	0
R	AD1	7	2016	20000	13.75	125	17.19	0.00008
R	AD1	7	2016	19500	13.78	125	17.23	0.00006
R	AD1	7	2016	19000	13.81	125	17.26	0.00008
R	AD1	7	2016	18500	13.84	125	17.3	0.00008
R	AD1	7	2016	18000	13.87	125	17.34	0.00008
R	AD1	7	2016	17500	13.9	125	17.38	0.0001
R	AD1	7	2016	17000	13.94	125	17.43	0.0001
R	AD1	7	2016	16500	13.98	125	17.48	0.0001
R	AD1	7	2016	16000	14.02	125	17.53	0.00008
R	AD1	7	2016	15500	14.06	125	17.57	0.00012
R	AD1	7	2016	15000	14.1	125	17.63	0.0001
R	AD1	7	2016	14500	14.14	125	17.68	0.00012
R	AD1	7	2016	14000	14.19	125	17.74	0.00012
R	AD1	7	2016	13500	14.24	125	17.8	0.00012
R	AD1	7	2016	13000	14.29	125	17.86	0.00016
R	AD1	7	2016	12500	14.35	125	17.94	0.00014
R	AD1	7	2016	12000	14.41	125	18.01	0.00016
R	AD1	7	2016	11500	14.47	125	18.09	0.00018
R	AD1	7	2016	11000	14.54	125	18.18	0.0002
R	AD1	7	2016	10500	14.62	125	18.28	0.0002
R	AD1	7	2016	10000	14.7	125	18.38	0.0002
R	AD1	7	2016	9500	14.78	125	18.48	0.00024
R	AD1	7	2016	9000	14.88	125	18.6	0.00026
R	AD1	7	2016	8500	14.98	125	18.73	0.0003
R	AD1	7	2016	8000	15.1	125	18.88	0.0003
R	AD1	7	2016	7500	15.22	125	19.03	0.0005
R	AD1	7	2016	7000	15.42	125	19.28	0.00044
R	AD1	7	2016	6500	15.6	125	19.5	0.0005
R	AD1	7	2016	6000	15.8	125	19.75	0.0005
R	AD1	7	2016	5500	16	125	20	0.00076
R	AD1	7	2016	5000	16.3	125	20.38	0.00094
R	AD1	7	2016	4500	16.68	125	20.85	0.0009
R	AD1	7	2016	4000	17.04	125	21.3	0.0014
R	AD1	7	2016	3500	17.6	125	22	0.00136
R	AD1	7	2016	3000	18.14	125	22.68	0.0015

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AD1	7	2016	2500	18.74	125	23.43	0.00174
R	AD1	7	2016	2000	19.44	125	24.3	0.00308
R	AD1	7	2016	1750	20.06	125	25.07	0.00224
R	AD1	7	2016	1500	20.5	125	25.63	0.00248
R	AD1	7	2016	1250	21	125	26.25	0.00328
R	AD1	7	2016	1000	21.66	125	27.07	0.0166
R	AD1	7	2016	950	22.32	125	27.9	0.0332
R	AD1	7	2016	900	23.65	125	29.56	0.0106
R	AD1	7	2016	850	24.07	125	30.09	0.01
R	AD1	7	2016	800	24.47	125	30.59	0.01
R	AD1	7	2016	750	24.87	125	31.09	0.011
R	AD1	7	2016	700	25.31	125	31.64	0.0124
R	AD1	7	2016	650	25.81	125	32.26	0.0128
R	AD1	7	2016	600	26.32	125	32.9	0.016
R	AD1	7	2016	550	26.96	125	33.7	0.018
R	AD1	7	2016	500	27.68	125	34.6	0.02
R	AD1	7	2016	450	28.48	125	35.6	0.0262
R	AD1	7	2016	400	29.53	125	36.91	0.027
R	AD1	7	2016	350	30.61	125	38.26	0.0364
R	AD1	7	2016	300	32.06	125	40.08	0.0462
R	AD1	7	2016	250	33.91	125	42.39	0.0624
R	AD1	7	2016	200	36.41	125	45.51	0.065
R	AD1	7	2016	150	39.01	125	48.76	0.1506
R	AD1	7	2016	100	45.03	125	56.29	3.798586
R	AD1	7	2016	1	345.88	125	432.35	0
R	AF	1	2016	99999999	4.25	35	1.49	
R	AF	2	2016	99999999	4.25	55	2.34	
R	AF	3	2016	99999999	4.25	78	3.31	
R	AF	4	2016	99999999	4.25	100	4.25	
R	AF	5	2016	99999999	4.25	128	5.44	
R	AF	6	2016	99999999	4.25	168	7.14	
R	AF	7	2016	99999999	4.25	230	9.78	
R	AF	8	2016	99999999	4.25	261	11.09	
R	AF	*	2016	99999999	4.25	100	4.25	0
R	AF	1-	2016	99999999	4.25	30	1.28	
R	AF	1+	2016	99999999	4.25	40	1.7	
R	AF	2-	2016	99999999	4.25	47	2	
R	AF	2+	2016	99999999	4.25	63	2.68	
R	AF	3-	2016	99999999	4.25	70	2.98	
R	AF	3+	2016	99999999	4.25	86	3.66	
R	AF	4-	2016	99999999	4.25	92	3.91	
R	AF	4+	2016	99999999	4.25	107	4.55	
R	AF	5-	2016	99999999	4.25	117	4.97	
R	AF	5+	2016	99999999	4.25	141	5.99	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AF	6-	2016	99999999	4.25	152	6.46	
R	AF	6+	2016	99999999	4.25	187	7.95	
R	AF	7-	2016	99999999	4.25	204	8.67	
R	AF	7+	2016	99999999	4.25	259	11.01	
R	AF	8-	2016	99999999	4.25	230	9.78	
R	AF	8+	2016	99999999	4.25	295	12.54	
R	AG	1	2016	1E+12	11.52	30	3.46	
R	AG	2	2016	1E+12	11.52	55	6.34	
R	AG	3	2016	1E+12	11.52	78	8.99	
R	AG	4	2016	1E+12	11.52	100	11.52	
R	AG	5	2016	1E+12	11.52	128	14.75	
R	AG	6	2016	1E+12	11.52	168	19.35	
R	AG	7	2016	1E+12	11.52	230	26.5	
R	AG	8	2016	1E+12	11.52	261	30.07	
R	AG	*	2016	1E+12	11.52	100	11.52	
R	AG	1-	2016	1E+12	11.52	30	3.46	
R	AG	1+	2016	1E+12	11.52	40	4.61	
R	AG	2-	2016	1E+12	11.52	47	5.41	
R	AG	2+	2016	1E+12	11.52	63	7.26	
R	AG	3-	2016	1E+12	11.52	70	8.06	
R	AG	3+	2016	1E+12	11.52	86	9.91	
R	AG	4-	2016	1E+12	11.52	92	10.6	
R	AG	4+	2016	1E+12	11.52	107	12.33	
R	AG	5-	2016	1E+12	11.52	117	13.48	
R	AG	5+	2016	1E+12	11.52	141	16.24	
R	AG	6-	2016	1E+12	11.52	152	17.51	
R	AG	6+	2016	1E+12	11.52	187	21.54	
R	AG	7-	2016	1E+12	11.52	204	23.5	
R	AG	7+	2016	1E+12	11.52	259	29.84	
R	AG	8-	2016	1E+12	11.52	230	26.5	
R	AG	8+	2016	1E+12	11.52	295	33.98	
R	AG2	1	2016	1E+12	14.5	35	5.08	
R	AG2	2	2016	1E+12	14.5	55	7.98	
R	AG2	3	2016	1E+12	14.5	78	11.31	
R	AG2	4	2016	1E+12	14.5	100	14.5	
R	AG2	5	2016	1E+12	14.5	128	18.56	
R	AG2	6	2016	1E+12	14.5	168	24.36	
R	AG2	7	2016	1E+12	14.5	230	33.35	
R	AG2	*	2016	99999999	14.5	100	14.5	0
R	AG2	1-	2016	1E+12	14.5	30	4.35	
R	AG2	1+	2016	1E+12	14.5	40	5.8	
R	AG2	2-	2016	1E+12	14.5	47	6.82	
R	AG2	2+	2016	1E+12	14.5	63	9.13	
R	AG2	3-	2016	1E+12	14.5	70	10.15	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AG2	3+	2016	1E+12	14.5	83	12.04	
R	AG2	4-	2016	1E+12	14.5	92	13.34	
R	AG2	4+	2016	1E+12	14.5	107	15.52	
R	AG2	5-	2016	1E+12	14.5	117	16.97	
R	AG2	5+	2016	1E+12	14.5	141	20.45	
R	AG2	6-	2016	1E+12	14.5	152	22.04	
R	AG2	6+	2016	1E+12	14.5	187	27.12	
R	AG2	7-	2016	1E+12	14.5	204	29.58	
R	AG2	7+	2016	1E+12	14.5	259	37.56	
R	AGH2	1	2016	99999999	14.88	35	5.21	
R	AGH2	2	2016	99999999	14.88	55	8.18	
R	AGH2	3	2016	99999999	14.88	78	11.61	
R	AGH2	4	2016	99999999	14.88	100	14.88	
R	AGH2	5	2016	99999999	14.88	128	19.05	
R	AGH2	6	2016	99999999	14.88	168	25	
R	AGH2	7	2016	99999999	14.88	230	34.22	
R	AGH2	8	2016	99999999	14.88	261	38.84	
R	AGH2	*	2016	99999999	14.88	100	14.88	
R	AGH2	1-	2016	99999999	14.88	30	4.46	
R	AGH2	1+	2016	99999999	14.88	40	5.95	
R	AGH2	2-	2016	99999999	14.88	47	6.99	
R	AGH2	2+	2016	99999999	14.88	63	9.37	
R	AGH2	3-	2016	99999999	14.88	70	10.42	
R	AGH2	3+	2016	99999999	14.88	86	12.8	
R	AGH2	4-	2016	99999999	14.88	92	13.69	
R	AGH2	4+	2016	99999999	14.88	107	15.92	
R	AGH2	5-	2016	99999999	14.88	117	17.41	
R	AGH2	5+	2016	99999999	14.88	141	20.98	
R	AGH2	6-	2016	99999999	14.88	152	22.62	
R	AGH2	6+	2016	99999999	14.88	187	27.83	
R	AGH2	7-	2016	99999999	14.88	204	30.36	
R	AGH2	7+	2016	99999999	14.88	259	38.54	
R	AGH2	8-	2016	99999999	14.88	230	34.22	
R	AGH2	8+	2016	99999999	14.88	295	43.9	
R	AGH3	1	2016	99999999	14.88	35	5.21	
R	AGH3	2	2016	99999999	14.88	55	8.18	
R	AGH3	3	2016	99999999	14.88	78	11.61	
R	AGH3	4	2016	99999999	14.88	100	14.88	
R	AGH3	5	2016	99999999	14.88	128	19.05	
R	AGH3	6	2016	99999999	14.88	168	25	
R	AGH3	7	2016	99999999	14.88	230	34.22	
R	AGH3	8	2016	99999999	261	230	600.3	
R	AGH3	*	2016	99999999	14.88	100	14.88	0
R	AGH3	1-	2016	99999999	14.88	30	4.46	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AGH3	1+	2016	99999999	14.88	40	5.95	
R	AGH3	2-	2016	99999999	14.88	47	6.99	
R	AGH3	2+	2016	99999999	14.88	63	9.37	
R	AGH3	3-	2016	99999999	14.88	70	10.42	
R	AGH3	3+	2016	99999999	14.88	86	12.8	
R	AGH3	4-	2016	99999999	14.88	92	13.69	
R	AGH3	4+	2016	99999999	14.88	107	15.92	
R	AGH3	5-	2016	99999999	14.88	117	17.41	
R	AGH3	5+	2016	99999999	14.88	141	20.98	
R	AGH3	6-	2016	99999999	14.88	152	22.62	
R	AGH3	6+	2016	99999999	14.88	187	27.83	
R	AGH3	7-	2016	99999999	14.88	204	30.36	
R	AGH3	7+	2016	99999999	14.88	259	38.54	
R	AGH3	8-	2016	99999999	14.88	230	34.22	
R	AGH3	8+	2016	99999999	14.88	295	43.9	
R	AL1	1	2016	99999999	3.85	80	3.08	
R	AL1	2	2016	99999999	3.85	80	3.08	
R	AL1	3	2016	99999999	3.85	80	3.08	
R	AL1	4	2016	99999999	3.85	100	3.85	
R	AL1	5	2016	99999999	3.85	120	4.62	
R	AL1	6	2016	99999999	3.85	120	4.62	
R	AL1	7	2016	99999999	3.85	120	4.62	
R	AL1	*	2016	99999999	3.85	100	3.85	
R	AP1	1	2016	99999999	11.09	60	6.65	0
R	AP1	1	2016	22000	11.09	60	6.65	0.00002
R	AP1	1	2016	21500	11.1	60	6.66	0.00002
R	AP1	1	2016	21000	11.11	60	6.67	0
R	AP1	1	2016	20500	11.12	60	6.67	0.00002
R	AP1	1	2016	20000	11.13	60	6.68	0.00002
R	AP1	1	2016	19500	11.15	60	6.69	0.00002
R	AP1	1	2016	19000	11.16	60	6.7	0
R	AP1	1	2016	18500	11.17	60	6.7	0.00002
R	AP1	1	2016	18000	11.19	60	6.71	0.00002
R	AP1	1	2016	17500	11.2	60	6.72	0.00002
R	AP1	1	2016	17000	11.22	60	6.73	0.00002
R	AP1	1	2016	16500	11.24	60	6.74	0.00004
R	AP1	1	2016	16000	11.26	60	6.76	0
R	AP1	1	2016	15500	11.27	60	6.76	0.00002
R	AP1	1	2016	15000	11.29	60	6.77	0.00004
R	AP1	1	2016	14500	11.31	60	6.79	0.00002
R	AP1	1	2016	14000	11.33	60	6.8	0.00002
R	AP1	1	2016	13500	11.35	60	6.81	0.00004
R	AP1	1	2016	13000	11.39	60	6.83	0.00002
R	AP1	1	2016	12500	11.4	60	6.84	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	1	2016	12000	11.43	60	6.86	0.00004
R	AP1	1	2016	11500	11.46	60	6.88	0.00002
R	AP1	1	2016	11000	11.48	60	6.89	0.00004
R	AP1	1	2016	10500	11.51	60	6.91	0.00002
R	AP1	1	2016	10000	11.54	60	6.92	0.00004
R	AP1	1	2016	9500	11.56	60	6.94	0.00004
R	AP1	1	2016	9000	11.6	60	6.96	0.00008
R	AP1	1	2016	8500	11.66	60	7	0.00006
R	AP1	1	2016	8000	11.71	60	7.03	0.00006
R	AP1	1	2016	7500	11.76	60	7.06	0.00006
R	AP1	1	2016	7000	11.82	60	7.09	0.00008
R	AP1	1	2016	6500	11.88	60	7.13	0.0001
R	AP1	1	2016	6000	11.96	60	7.18	0.0001
R	AP1	1	2016	5500	12.05	60	7.23	0.0001
R	AP1	1	2016	5000	12.14	60	7.28	0.00012
R	AP1	1	2016	4750	12.19	60	7.31	0.00016
R	AP1	1	2016	4500	12.25	60	7.35	0.00008
R	AP1	1	2016	4250	12.29	60	7.37	0.0002
R	AP1	1	2016	4000	12.37	60	7.42	0.00024
R	AP1	1	2016	3750	12.47	60	7.48	0.00028
R	AP1	1	2016	3500	12.58	60	7.55	0.00024
R	AP1	1	2016	3250	12.68	60	7.61	0.00024
R	AP1	1	2016	3000	12.78	60	7.67	0.0002
R	AP1	1	2016	2900	12.81	60	7.69	0.0002
R	AP1	1	2016	2800	12.85	60	7.71	0.0002
R	AP1	1	2016	2700	12.89	60	7.73	0.0003
R	AP1	1	2016	2600	12.94	60	7.76	0.0002
R	AP1	1	2016	2500	12.97	60	7.78	0.0003
R	AP1	1	2016	2400	13.01	60	7.81	0.0002
R	AP1	1	2016	2300	13.05	60	7.83	0.0004
R	AP1	1	2016	2200	13.12	60	7.87	0.0005
R	AP1	1	2016	2100	13.2	60	7.92	0.0005
R	AP1	1	2016	2000	13.28	60	7.97	0.0005
R	AP1	1	2016	1900	13.37	60	8.02	0.0005
R	AP1	1	2016	1800	13.45	60	8.07	0.0005
R	AP1	1	2016	1700	13.53	60	8.12	0.0005
R	AP1	1	2016	1600	13.61	60	8.17	0.0009
R	AP1	1	2016	1500	13.76	60	8.26	0.0008
R	AP1	1	2016	1400	13.9	60	8.34	0.0008
R	AP1	1	2016	1300	14.04	60	8.42	0.0009
R	AP1	1	2016	1200	14.19	60	8.51	0.0011
R	AP1	1	2016	1100	14.36	60	8.62	0.0012
R	AP1	1	2016	1000	14.56	60	8.74	0.0016
R	AP1	1	2016	950	14.7	60	8.82	0.0018

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	1	2016	900	14.85	60	8.91	0.0018
R	AP1	1	2016	850	15	60	9	0.002
R	AP1	1	2016	800	15.16	60	9.1	0.0018
R	AP1	1	2016	750	15.32	60	9.19	0.002
R	AP1	1	2016	700	15.49	60	9.29	0.0022
R	AP1	1	2016	650	15.67	60	9.4	0.0022
R	AP1	1	2016	600	15.85	60	9.51	0.0034
R	AP1	1	2016	550	16.14	60	9.68	0.0048
R	AP1	1	2016	500	16.54	60	9.92	0.005
R	AP1	1	2016	450	16.95	60	10.17	0.0054
R	AP1	1	2016	400	17.4	60	10.44	0.0056
R	AP1	1	2016	350	17.87	60	10.72	0.006
R	AP1	1	2016	300	18.36	60	11.02	0.0072
R	AP1	1	2016	250	18.96	60	11.38	0.013
R	AP1	1	2016	200	20.05	60	12.03	0.02
R	AP1	1	2016	150	21.71	60	13.03	0.0282
R	AP1	1	2016	100	24.06	60	14.44	0.071
R	AP1	1	2016	50	29.99	60	17.99	11.150816
R	AP1	1	2016	1	940.63	60	564.38	0
R	AP1	2	2016	99999999	11.09	60	6.65	0
R	AP1	2	2016	22000	11.09	60	6.65	0.00002
R	AP1	2	2016	21500	11.1	60	6.66	0.00002
R	AP1	2	2016	21000	11.11	60	6.67	0
R	AP1	2	2016	20500	11.12	60	6.67	0.00002
R	AP1	2	2016	20000	11.13	60	6.68	0.00002
R	AP1	2	2016	19500	11.15	60	6.69	0.00002
R	AP1	2	2016	19000	11.16	60	6.7	0
R	AP1	2	2016	18500	11.17	60	6.7	0.00002
R	AP1	2	2016	18000	11.19	60	6.71	0.00002
R	AP1	2	2016	17500	11.2	60	6.72	0.00002
R	AP1	2	2016	17000	11.22	60	6.73	0.00002
R	AP1	2	2016	16500	11.24	60	6.74	0.00004
R	AP1	2	2016	16000	11.26	60	6.76	0
R	AP1	2	2016	15500	11.27	60	6.76	0.00002
R	AP1	2	2016	15000	11.29	60	6.77	0.00004
R	AP1	2	2016	14500	11.31	60	6.79	0.00002
R	AP1	2	2016	14000	11.33	60	6.8	0.00002
R	AP1	2	2016	13500	11.35	60	6.81	0.00004
R	AP1	2	2016	13000	11.39	60	6.83	0.00002
R	AP1	2	2016	12500	11.4	60	6.84	0.00004
R	AP1	2	2016	12000	11.43	60	6.86	0.00004
R	AP1	2	2016	11500	11.46	60	6.88	0.00002
R	AP1	2	2016	11000	11.48	60	6.89	0.00004
R	AP1	2	2016	10500	11.51	60	6.91	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP1	2	2016	10000	11.54	60	6.92	0.00004
R	AP1	2	2016	9500	11.56	60	6.94	0.00004
R	AP1	2	2016	9000	11.6	60	6.96	0.00008
R	AP1	2	2016	8500	11.66	60	7	0.00006
R	AP1	2	2016	8000	11.71	60	7.03	0.00006
R	AP1	2	2016	7500	11.76	60	7.06	0.00006
R	AP1	2	2016	7000	11.82	60	7.09	0.00008
R	AP1	2	2016	6500	11.88	60	7.13	0.0001
R	AP1	2	2016	6000	11.96	60	7.18	0.0001
R	AP1	2	2016	5500	12.05	60	7.23	0.0001
R	AP1	2	2016	5000	12.14	60	7.28	0.00012
R	AP1	2	2016	4750	12.19	60	7.31	0.00016
R	AP1	2	2016	4500	12.25	60	7.35	0.00008
R	AP1	2	2016	4250	12.29	60	7.37	0.0002
R	AP1	2	2016	4000	12.37	60	7.42	0.00024
R	AP1	2	2016	3750	12.47	60	7.48	0.00028
R	AP1	2	2016	3500	12.58	60	7.55	0.00024
R	AP1	2	2016	3250	12.68	60	7.61	0.00024
R	AP1	2	2016	3000	12.78	60	7.67	0.0002
R	AP1	2	2016	2900	12.81	60	7.69	0.0002
R	AP1	2	2016	2800	12.85	60	7.71	0.0002
R	AP1	2	2016	2700	12.89	60	7.73	0.0003
R	AP1	2	2016	2600	12.94	60	7.76	0.0002
R	AP1	2	2016	2500	12.97	60	7.78	0.0003
R	AP1	2	2016	2400	13.01	60	7.81	0.0002
R	AP1	2	2016	2300	13.05	60	7.83	0.0004
R	AP1	2	2016	2200	13.12	60	7.87	0.0005
R	AP1	2	2016	2100	13.2	60	7.92	0.0005
R	AP1	2	2016	2000	13.28	60	7.97	0.0005
R	AP1	2	2016	1900	13.37	60	8.02	0.0005
R	AP1	2	2016	1800	13.45	60	8.07	0.0005
R	AP1	2	2016	1700	13.53	60	8.12	0.0005
R	AP1	2	2016	1600	13.61	60	8.17	0.0009
R	AP1	2	2016	1500	13.76	60	8.26	0.0008
R	AP1	2	2016	1400	13.9	60	8.34	0.0008
R	AP1	2	2016	1300	14.04	60	8.42	0.0009
R	AP1	2	2016	1200	14.19	60	8.51	0.0011
R	AP1	2	2016	1100	14.36	60	8.62	0.0012
R	AP1	2	2016	1000	14.56	60	8.74	0.0016
R	AP1	2	2016	950	14.7	60	8.82	0.0018
R	AP1	2	2016	900	14.85	60	8.91	0.0018
R	AP1	2	2016	850	15	60	9	0.002
R	AP1	2	2016	800	15.16	60	9.1	0.0018
R	AP1	2	2016	750	15.32	60	9.19	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	2	2016	700	15.49	60	9.29	0.0022
R	AP1	2	2016	650	15.67	60	9.4	0.0022
R	AP1	2	2016	600	15.85	60	9.51	0.0034
R	AP1	2	2016	550	16.14	60	9.68	0.0048
R	AP1	2	2016	500	16.54	60	9.92	0.005
R	AP1	2	2016	450	16.95	60	10.17	0.0054
R	AP1	2	2016	400	17.4	60	10.44	0.0056
R	AP1	2	2016	350	17.87	60	10.72	0.006
R	AP1	2	2016	300	18.36	60	11.02	0.0072
R	AP1	2	2016	250	18.96	60	11.38	0.013
R	AP1	2	2016	200	20.05	60	12.03	0.02
R	AP1	2	2016	150	21.71	60	13.03	0.0282
R	AP1	2	2016	100	24.06	60	14.44	0.071
R	AP1	2	2016	50	29.99	60	17.99	11.150816
R	AP1	2	2016	1	940.63	60	564.38	0
R	AP1	3	2016	99999999	11.09	60	6.65	0
R	AP1	3	2016	22000	11.09	60	6.65	0.00002
R	AP1	3	2016	21500	11.1	60	6.66	0.00002
R	AP1	3	2016	21000	11.11	60	6.67	0
R	AP1	3	2016	20500	11.12	60	6.67	0.00002
R	AP1	3	2016	20000	11.13	60	6.68	0.00002
R	AP1	3	2016	19500	11.15	60	6.69	0.00002
R	AP1	3	2016	19000	11.16	60	6.7	0
R	AP1	3	2016	18500	11.17	60	6.7	0.00002
R	AP1	3	2016	18000	11.19	60	6.71	0.00002
R	AP1	3	2016	17500	11.2	60	6.72	0.00002
R	AP1	3	2016	17000	11.22	60	6.73	0.00002
R	AP1	3	2016	16500	11.24	60	6.74	0.00004
R	AP1	3	2016	16000	11.26	60	6.76	0
R	AP1	3	2016	15500	11.27	60	6.76	0.00002
R	AP1	3	2016	15000	11.29	60	6.77	0.00004
R	AP1	3	2016	14500	11.31	60	6.79	0.00002
R	AP1	3	2016	14000	11.33	60	6.8	0.00002
R	AP1	3	2016	13500	11.35	60	6.81	0.00004
R	AP1	3	2016	13000	11.39	60	6.83	0.00002
R	AP1	3	2016	12500	11.4	60	6.84	0.00004
R	AP1	3	2016	12000	11.43	60	6.86	0.00004
R	AP1	3	2016	11500	11.46	60	6.88	0.00002
R	AP1	3	2016	11000	11.48	60	6.89	0.00004
R	AP1	3	2016	10500	11.51	60	6.91	0.00002
R	AP1	3	2016	10000	11.54	60	6.92	0.00004
R	AP1	3	2016	9500	11.56	60	6.94	0.00004
R	AP1	3	2016	9000	11.6	60	6.96	0.00008
R	AP1	3	2016	8500	11.66	60	7	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	3	2016	8000	11.71	60	7.03	0.00006
R	AP1	3	2016	7500	11.76	60	7.06	0.00006
R	AP1	3	2016	7000	11.82	60	7.09	0.00008
R	AP1	3	2016	6500	11.88	60	7.13	0.0001
R	AP1	3	2016	6000	11.96	60	7.18	0.0001
R	AP1	3	2016	5500	12.05	60	7.23	0.0001
R	AP1	3	2016	5000	12.14	60	7.28	0.00012
R	AP1	3	2016	4750	12.19	60	7.31	0.00016
R	AP1	3	2016	4500	12.25	60	7.35	0.00008
R	AP1	3	2016	4250	12.29	60	7.37	0.0002
R	AP1	3	2016	4000	12.37	60	7.42	0.00024
R	AP1	3	2016	3750	12.47	60	7.48	0.00028
R	AP1	3	2016	3500	12.58	60	7.55	0.00024
R	AP1	3	2016	3250	12.68	60	7.61	0.00024
R	AP1	3	2016	3000	12.78	60	7.67	0.0002
R	AP1	3	2016	2900	12.81	60	7.69	0.0002
R	AP1	3	2016	2800	12.85	60	7.71	0.0002
R	AP1	3	2016	2700	12.89	60	7.73	0.0003
R	AP1	3	2016	2600	12.94	60	7.76	0.0002
R	AP1	3	2016	2500	12.97	60	7.78	0.0003
R	AP1	3	2016	2400	13.01	60	7.81	0.0002
R	AP1	3	2016	2300	13.05	60	7.83	0.0004
R	AP1	3	2016	2200	13.12	60	7.87	0.0005
R	AP1	3	2016	2100	13.2	60	7.92	0.0005
R	AP1	3	2016	2000	13.28	60	7.97	0.0005
R	AP1	3	2016	1900	13.37	60	8.02	0.0005
R	AP1	3	2016	1800	13.45	60	8.07	0.0005
R	AP1	3	2016	1700	13.53	60	8.12	0.0005
R	AP1	3	2016	1600	13.61	60	8.17	0.0009
R	AP1	3	2016	1500	13.76	60	8.26	0.0008
R	AP1	3	2016	1400	13.9	60	8.34	0.0008
R	AP1	3	2016	1300	14.04	60	8.42	0.0009
R	AP1	3	2016	1200	14.19	60	8.51	0.0011
R	AP1	3	2016	1100	14.36	60	8.62	0.0012
R	AP1	3	2016	1000	14.56	60	8.74	0.0016
R	AP1	3	2016	950	14.7	60	8.82	0.0018
R	AP1	3	2016	900	14.85	60	8.91	0.0018
R	AP1	3	2016	850	15	60	9	0.002
R	AP1	3	2016	800	15.16	60	9.1	0.0018
R	AP1	3	2016	750	15.32	60	9.19	0.002
R	AP1	3	2016	700	15.49	60	9.29	0.0022
R	AP1	3	2016	650	15.67	60	9.4	0.0022
R	AP1	3	2016	600	15.85	60	9.51	0.0034
R	AP1	3	2016	550	16.14	60	9.68	0.0048

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	3	2016	500	16.54	60	9.92	0.005
R	AP1	3	2016	450	16.95	60	10.17	0.0054
R	AP1	3	2016	400	17.4	60	10.44	0.0056
R	AP1	3	2016	350	17.87	60	10.72	0.006
R	AP1	3	2016	300	18.36	60	11.02	0.0072
R	AP1	3	2016	250	18.96	60	11.38	0.013
R	AP1	3	2016	200	20.05	60	12.03	0.02
R	AP1	3	2016	150	21.71	60	13.03	0.0282
R	AP1	3	2016	100	24.06	60	14.44	0.071
R	AP1	3	2016	50	29.99	60	17.99	11.150816
R	AP1	3	2016	1	940.63	60	564.38	0
R	AP1	4	2016	99999999	11.09	71	7.87	0
R	AP1	4	2016	22000	11.09	71	7.87	0.00002
R	AP1	4	2016	21500	11.1	71	7.88	0.00002
R	AP1	4	2016	21000	11.11	71	7.89	0.00002
R	AP1	4	2016	20500	11.12	71	7.9	0
R	AP1	4	2016	20000	11.13	71	7.9	0.00004
R	AP1	4	2016	19500	11.15	71	7.92	0
R	AP1	4	2016	19000	11.16	71	7.92	0.00002
R	AP1	4	2016	18500	11.17	71	7.93	0.00002
R	AP1	4	2016	18000	11.19	71	7.94	0.00002
R	AP1	4	2016	17500	11.2	71	7.95	0.00004
R	AP1	4	2016	17000	11.22	71	7.97	0.00002
R	AP1	4	2016	16500	11.24	71	7.98	0.00002
R	AP1	4	2016	16000	11.26	71	7.99	0.00002
R	AP1	4	2016	15500	11.27	71	8	0.00004
R	AP1	4	2016	15000	11.29	71	8.02	0.00002
R	AP1	4	2016	14500	11.31	71	8.03	0.00002
R	AP1	4	2016	14000	11.33	71	8.04	0.00004
R	AP1	4	2016	13500	11.35	71	8.06	0.00006
R	AP1	4	2016	13000	11.39	71	8.09	0
R	AP1	4	2016	12500	11.4	71	8.09	0.00006
R	AP1	4	2016	12000	11.43	71	8.12	0.00004
R	AP1	4	2016	11500	11.46	71	8.14	0.00002
R	AP1	4	2016	11000	11.48	71	8.15	0.00004
R	AP1	4	2016	10500	11.51	71	8.17	0.00004
R	AP1	4	2016	10000	11.54	71	8.19	0.00004
R	AP1	4	2016	9500	11.56	71	8.21	0.00006
R	AP1	4	2016	9000	11.6	71	8.24	0.00008
R	AP1	4	2016	8500	11.66	71	8.28	0.00006
R	AP1	4	2016	8000	11.71	71	8.31	0.00008
R	AP1	4	2016	7500	11.76	71	8.35	0.00008
R	AP1	4	2016	7000	11.82	71	8.39	0.00008
R	AP1	4	2016	6500	11.88	71	8.43	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP1	4	2016	6000	11.96	71	8.49	0.00014
R	AP1	4	2016	5500	12.05	71	8.56	0.00012
R	AP1	4	2016	5000	12.14	71	8.62	0.00012
R	AP1	4	2016	4750	12.19	71	8.65	0.0002
R	AP1	4	2016	4500	12.25	71	8.7	0.00012
R	AP1	4	2016	4250	12.29	71	8.73	0.0002
R	AP1	4	2016	4000	12.37	71	8.78	0.00028
R	AP1	4	2016	3750	12.47	71	8.85	0.00032
R	AP1	4	2016	3500	12.58	71	8.93	0.00028
R	AP1	4	2016	3250	12.68	71	9	0.00028
R	AP1	4	2016	3000	12.78	71	9.07	0.0003
R	AP1	4	2016	2900	12.81	71	9.1	0.0002
R	AP1	4	2016	2800	12.85	71	9.12	0.0003
R	AP1	4	2016	2700	12.89	71	9.15	0.0004
R	AP1	4	2016	2600	12.94	71	9.19	0.0002
R	AP1	4	2016	2500	12.97	71	9.21	0.0003
R	AP1	4	2016	2400	13.01	71	9.24	0.0003
R	AP1	4	2016	2300	13.05	71	9.27	0.0005
R	AP1	4	2016	2200	13.12	71	9.32	0.0005
R	AP1	4	2016	2100	13.2	71	9.37	0.0006
R	AP1	4	2016	2000	13.28	71	9.43	0.0006
R	AP1	4	2016	1900	13.37	71	9.49	0.0006
R	AP1	4	2016	1800	13.45	71	9.55	0.0006
R	AP1	4	2016	1700	13.53	71	9.61	0.0005
R	AP1	4	2016	1600	13.61	71	9.66	0.0011
R	AP1	4	2016	1500	13.76	71	9.77	0.001
R	AP1	4	2016	1400	13.9	71	9.87	0.001
R	AP1	4	2016	1300	14.04	71	9.97	0.001
R	AP1	4	2016	1200	14.19	71	10.07	0.0013
R	AP1	4	2016	1100	14.36	71	10.2	0.0014
R	AP1	4	2016	1000	14.56	71	10.34	0.002
R	AP1	4	2016	950	14.7	71	10.44	0.002
R	AP1	4	2016	900	14.85	71	10.54	0.0022
R	AP1	4	2016	850	15	71	10.65	0.0022
R	AP1	4	2016	800	15.16	71	10.76	0.0024
R	AP1	4	2016	750	15.32	71	10.88	0.0024
R	AP1	4	2016	700	15.49	71	11	0.0026
R	AP1	4	2016	650	15.67	71	11.13	0.0024
R	AP1	4	2016	600	15.85	71	11.25	0.0042
R	AP1	4	2016	550	16.14	71	11.46	0.0056
R	AP1	4	2016	500	16.54	71	11.74	0.0058
R	AP1	4	2016	450	16.95	71	12.03	0.0064
R	AP1	4	2016	400	17.4	71	12.35	0.0068
R	AP1	4	2016	350	17.87	71	12.69	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	4	2016	300	18.36	71	13.04	0.0084
R	AP1	4	2016	250	18.96	71	13.46	0.0156
R	AP1	4	2016	200	20.05	71	14.24	0.0234
R	AP1	4	2016	150	21.71	71	15.41	0.0334
R	AP1	4	2016	100	24.06	71	17.08	0.0842
R	AP1	4	2016	50	29.99	71	21.29	13.195102
R	AP1	4	2016	1	940.63	71	667.85	0
R	AP1	5	2016	99999999	11.09	86	9.54	0
R	AP1	5	2016	22000	11.09	86	9.54	0.00002
R	AP1	5	2016	21500	11.1	86	9.55	0
R	AP1	5	2016	21000	11.11	86	9.55	0.00002
R	AP1	5	2016	20500	11.12	86	9.56	0.00002
R	AP1	5	2016	20000	11.13	86	9.57	0.00004
R	AP1	5	2016	19500	11.15	86	9.59	0.00002
R	AP1	5	2016	19000	11.16	86	9.6	0.00002
R	AP1	5	2016	18500	11.17	86	9.61	0.00002
R	AP1	5	2016	18000	11.19	86	9.62	0.00002
R	AP1	5	2016	17500	11.2	86	9.63	0.00004
R	AP1	5	2016	17000	11.22	86	9.65	0.00004
R	AP1	5	2016	16500	11.24	86	9.67	0.00002
R	AP1	5	2016	16000	11.26	86	9.68	0.00002
R	AP1	5	2016	15500	11.27	86	9.69	0.00004
R	AP1	5	2016	15000	11.29	86	9.71	0.00004
R	AP1	5	2016	14500	11.31	86	9.73	0.00002
R	AP1	5	2016	14000	11.33	86	9.74	0.00004
R	AP1	5	2016	13500	11.35	86	9.76	0.00008
R	AP1	5	2016	13000	11.39	86	9.8	0
R	AP1	5	2016	12500	11.4	86	9.8	0.00006
R	AP1	5	2016	12000	11.43	86	9.83	0.00006
R	AP1	5	2016	11500	11.46	86	9.86	0.00002
R	AP1	5	2016	11000	11.48	86	9.87	0.00006
R	AP1	5	2016	10500	11.51	86	9.9	0.00004
R	AP1	5	2016	10000	11.54	86	9.92	0.00004
R	AP1	5	2016	9500	11.56	86	9.94	0.00008
R	AP1	5	2016	9000	11.6	86	9.98	0.0001
R	AP1	5	2016	8500	11.66	86	10.03	0.00008
R	AP1	5	2016	8000	11.71	86	10.07	0.00008
R	AP1	5	2016	7500	11.76	86	10.11	0.00012
R	AP1	5	2016	7000	11.82	86	10.17	0.0001
R	AP1	5	2016	6500	11.88	86	10.22	0.00014
R	AP1	5	2016	6000	11.96	86	10.29	0.00014
R	AP1	5	2016	5500	12.05	86	10.36	0.00016
R	AP1	5	2016	5000	12.14	86	10.44	0.00016
R	AP1	5	2016	4750	12.19	86	10.48	0.00024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	5	2016	4500	12.25	86	10.54	0.00012
R	AP1	5	2016	4250	12.29	86	10.57	0.00028
R	AP1	5	2016	4000	12.37	86	10.64	0.00032
R	AP1	5	2016	3750	12.47	86	10.72	0.0004
R	AP1	5	2016	3500	12.58	86	10.82	0.00032
R	AP1	5	2016	3250	12.68	86	10.9	0.00036
R	AP1	5	2016	3000	12.78	86	10.99	0.0003
R	AP1	5	2016	2900	12.81	86	11.02	0.0003
R	AP1	5	2016	2800	12.85	86	11.05	0.0004
R	AP1	5	2016	2700	12.89	86	11.09	0.0004
R	AP1	5	2016	2600	12.94	86	11.13	0.0002
R	AP1	5	2016	2500	12.97	86	11.15	0.0004
R	AP1	5	2016	2400	13.01	86	11.19	0.0003
R	AP1	5	2016	2300	13.05	86	11.22	0.0006
R	AP1	5	2016	2200	13.12	86	11.28	0.0007
R	AP1	5	2016	2100	13.2	86	11.35	0.0007
R	AP1	5	2016	2000	13.28	86	11.42	0.0008
R	AP1	5	2016	1900	13.37	86	11.5	0.0007
R	AP1	5	2016	1800	13.45	86	11.57	0.0007
R	AP1	5	2016	1700	13.53	86	11.64	0.0006
R	AP1	5	2016	1600	13.61	86	11.7	0.0013
R	AP1	5	2016	1500	13.76	86	11.83	0.0012
R	AP1	5	2016	1400	13.9	86	11.95	0.0012
R	AP1	5	2016	1300	14.04	86	12.07	0.0013
R	AP1	5	2016	1200	14.19	86	12.2	0.0015
R	AP1	5	2016	1100	14.36	86	12.35	0.0017
R	AP1	5	2016	1000	14.56	86	12.52	0.0024
R	AP1	5	2016	950	14.7	86	12.64	0.0026
R	AP1	5	2016	900	14.85	86	12.77	0.0026
R	AP1	5	2016	850	15	86	12.9	0.0028
R	AP1	5	2016	800	15.16	86	13.04	0.0028
R	AP1	5	2016	750	15.32	86	13.18	0.0028
R	AP1	5	2016	700	15.49	86	13.32	0.0032
R	AP1	5	2016	650	15.67	86	13.48	0.003
R	AP1	5	2016	600	15.85	86	13.63	0.005
R	AP1	5	2016	550	16.14	86	13.88	0.0068
R	AP1	5	2016	500	16.54	86	14.22	0.0072
R	AP1	5	2016	450	16.95	86	14.58	0.0076
R	AP1	5	2016	400	17.4	86	14.96	0.0082
R	AP1	5	2016	350	17.87	86	15.37	0.0084
R	AP1	5	2016	300	18.36	86	15.79	0.0104
R	AP1	5	2016	250	18.96	86	16.31	0.0186
R	AP1	5	2016	200	20.05	86	17.24	0.0286
R	AP1	5	2016	150	21.71	86	18.67	0.0404

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	5	2016	100	24.06	86	20.69	0.102
R	AP1	5	2016	50	29.99	86	25.79	15.982653
R	AP1	5	2016	1	940.63	86	808.94	0
R	AP1	6	2016	99999999	11.09	86	9.54	0
R	AP1	6	2016	22000	11.09	86	9.54	0.00002
R	AP1	6	2016	21500	11.1	86	9.55	0
R	AP1	6	2016	21000	11.11	86	9.55	0.00002
R	AP1	6	2016	20500	11.12	86	9.56	0.00002
R	AP1	6	2016	20000	11.13	86	9.57	0.00004
R	AP1	6	2016	19500	11.15	86	9.59	0.00002
R	AP1	6	2016	19000	11.16	86	9.6	0.00002
R	AP1	6	2016	18500	11.17	86	9.61	0.00002
R	AP1	6	2016	18000	11.19	86	9.62	0.00002
R	AP1	6	2016	17500	11.2	86	9.63	0.00004
R	AP1	6	2016	17000	11.22	86	9.65	0.00004
R	AP1	6	2016	16500	11.24	86	9.67	0.00002
R	AP1	6	2016	16000	11.26	86	9.68	0.00002
R	AP1	6	2016	15500	11.27	86	9.69	0.00004
R	AP1	6	2016	15000	11.29	86	9.71	0.00004
R	AP1	6	2016	14500	11.31	86	9.73	0.00002
R	AP1	6	2016	14000	11.33	86	9.74	0.00004
R	AP1	6	2016	13500	11.35	86	9.76	0.00008
R	AP1	6	2016	13000	11.39	86	9.8	0
R	AP1	6	2016	12500	11.4	86	9.8	0.00006
R	AP1	6	2016	12000	11.43	86	9.83	0.00006
R	AP1	6	2016	11500	11.46	86	9.86	0.00002
R	AP1	6	2016	11000	11.48	86	9.87	0.00006
R	AP1	6	2016	10500	11.51	86	9.9	0.00004
R	AP1	6	2016	10000	11.54	86	9.92	0.00004
R	AP1	6	2016	9500	11.56	86	9.94	0.00008
R	AP1	6	2016	9000	11.6	86	9.98	0.0001
R	AP1	6	2016	8500	11.66	86	10.03	0.00008
R	AP1	6	2016	8000	11.71	86	10.07	0.00008
R	AP1	6	2016	7500	11.76	86	10.11	0.00012
R	AP1	6	2016	7000	11.82	86	10.17	0.0001
R	AP1	6	2016	6500	11.88	86	10.22	0.00014
R	AP1	6	2016	6000	11.96	86	10.29	0.00014
R	AP1	6	2016	5500	12.05	86	10.36	0.00016
R	AP1	6	2016	5000	12.14	86	10.44	0.00016
R	AP1	6	2016	4750	12.19	86	10.48	0.00024
R	AP1	6	2016	4500	12.25	86	10.54	0.00012
R	AP1	6	2016	4250	12.29	86	10.57	0.00028
R	AP1	6	2016	4000	12.37	86	10.64	0.00032
R	AP1	6	2016	3750	12.47	86	10.72	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	6	2016	3500	12.58	86	10.82	0.00032
R	AP1	6	2016	3250	12.68	86	10.9	0.00036
R	AP1	6	2016	3000	12.78	86	10.99	0.0003
R	AP1	6	2016	2900	12.81	86	11.02	0.0003
R	AP1	6	2016	2800	12.85	86	11.05	0.0004
R	AP1	6	2016	2700	12.89	86	11.09	0.0004
R	AP1	6	2016	2600	12.94	86	11.13	0.0002
R	AP1	6	2016	2500	12.97	86	11.15	0.0004
R	AP1	6	2016	2400	13.01	86	11.19	0.0003
R	AP1	6	2016	2300	13.05	86	11.22	0.0006
R	AP1	6	2016	2200	13.12	86	11.28	0.0007
R	AP1	6	2016	2100	13.2	86	11.35	0.0007
R	AP1	6	2016	2000	13.28	86	11.42	0.0008
R	AP1	6	2016	1900	13.37	86	11.5	0.0007
R	AP1	6	2016	1800	13.45	86	11.57	0.0007
R	AP1	6	2016	1700	13.53	86	11.64	0.0006
R	AP1	6	2016	1600	13.61	86	11.7	0.0013
R	AP1	6	2016	1500	13.76	86	11.83	0.0012
R	AP1	6	2016	1400	13.9	86	11.95	0.0012
R	AP1	6	2016	1300	14.04	86	12.07	0.0013
R	AP1	6	2016	1200	14.19	86	12.2	0.0015
R	AP1	6	2016	1100	14.36	86	12.35	0.0017
R	AP1	6	2016	1000	14.56	86	12.52	0.0024
R	AP1	6	2016	950	14.7	86	12.64	0.0026
R	AP1	6	2016	900	14.85	86	12.77	0.0026
R	AP1	6	2016	850	15	86	12.9	0.0028
R	AP1	6	2016	800	15.16	86	13.04	0.0028
R	AP1	6	2016	750	15.32	86	13.18	0.0028
R	AP1	6	2016	700	15.49	86	13.32	0.0032
R	AP1	6	2016	650	15.67	86	13.48	0.003
R	AP1	6	2016	600	15.85	86	13.63	0.005
R	AP1	6	2016	550	16.14	86	13.88	0.0068
R	AP1	6	2016	500	16.54	86	14.22	0.0072
R	AP1	6	2016	450	16.95	86	14.58	0.0076
R	AP1	6	2016	400	17.4	86	14.96	0.0082
R	AP1	6	2016	350	17.87	86	15.37	0.0084
R	AP1	6	2016	300	18.36	86	15.79	0.0104
R	AP1	6	2016	250	18.96	86	16.31	0.0186
R	AP1	6	2016	200	20.05	86	17.24	0.0286
R	AP1	6	2016	150	21.71	86	18.67	0.0404
R	AP1	6	2016	100	24.06	86	20.69	0.102
R	AP1	6	2016	50	29.99	86	25.79	15.982653
R	AP1	6	2016	1	940.63	86	808.94	0
R	AP1	7	2016	99999999	11.09	86	9.54	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	7	2016	22000	11.09	86	9.54	0.00002
R	AP1	7	2016	21500	11.1	86	9.55	0
R	AP1	7	2016	21000	11.11	86	9.55	0.00002
R	AP1	7	2016	20500	11.12	86	9.56	0.00002
R	AP1	7	2016	20000	11.13	86	9.57	0.00004
R	AP1	7	2016	19500	11.15	86	9.59	0.00002
R	AP1	7	2016	19000	11.16	86	9.6	0.00002
R	AP1	7	2016	18500	11.17	86	9.61	0.00002
R	AP1	7	2016	18000	11.19	86	9.62	0.00002
R	AP1	7	2016	17500	11.2	86	9.63	0.00004
R	AP1	7	2016	17000	11.22	86	9.65	0.00004
R	AP1	7	2016	16500	11.24	86	9.67	0.00002
R	AP1	7	2016	16000	11.26	86	9.68	0.00002
R	AP1	7	2016	15500	11.27	86	9.69	0.00004
R	AP1	7	2016	15000	11.29	86	9.71	0.00004
R	AP1	7	2016	14500	11.31	86	9.73	0.00002
R	AP1	7	2016	14000	11.33	86	9.74	0.00004
R	AP1	7	2016	13500	11.35	86	9.76	0.00008
R	AP1	7	2016	13000	11.39	86	9.8	0
R	AP1	7	2016	12500	11.4	86	9.8	0.00006
R	AP1	7	2016	12000	11.43	86	9.83	0.00006
R	AP1	7	2016	11500	11.46	86	9.86	0.00002
R	AP1	7	2016	11000	11.48	86	9.87	0.00006
R	AP1	7	2016	10500	11.51	86	9.9	0.00004
R	AP1	7	2016	10000	11.54	86	9.92	0.00004
R	AP1	7	2016	9500	11.56	86	9.94	0.00008
R	AP1	7	2016	9000	11.6	86	9.98	0.0001
R	AP1	7	2016	8500	11.66	86	10.03	0.00008
R	AP1	7	2016	8000	11.71	86	10.07	0.00008
R	AP1	7	2016	7500	11.76	86	10.11	0.00012
R	AP1	7	2016	7000	11.82	86	10.17	0.0001
R	AP1	7	2016	6500	11.88	86	10.22	0.00014
R	AP1	7	2016	6000	11.96	86	10.29	0.00014
R	AP1	7	2016	5500	12.05	86	10.36	0.00016
R	AP1	7	2016	5000	12.14	86	10.44	0.00016
R	AP1	7	2016	4750	12.19	86	10.48	0.00024
R	AP1	7	2016	4500	12.25	86	10.54	0.00012
R	AP1	7	2016	4250	12.29	86	10.57	0.00028
R	AP1	7	2016	4000	12.37	86	10.64	0.00032
R	AP1	7	2016	3750	12.47	86	10.72	0.0004
R	AP1	7	2016	3500	12.58	86	10.82	0.00032
R	AP1	7	2016	3250	12.68	86	10.9	0.00036
R	AP1	7	2016	3000	12.78	86	10.99	0.0003
R	AP1	7	2016	2900	12.81	86	11.02	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	7	2016	2800	12.85	86	11.05	0.0004
R	AP1	7	2016	2700	12.89	86	11.09	0.0004
R	AP1	7	2016	2600	12.94	86	11.13	0.0002
R	AP1	7	2016	2500	12.97	86	11.15	0.0004
R	AP1	7	2016	2400	13.01	86	11.19	0.0003
R	AP1	7	2016	2300	13.05	86	11.22	0.0006
R	AP1	7	2016	2200	13.12	86	11.28	0.0007
R	AP1	7	2016	2100	13.2	86	11.35	0.0007
R	AP1	7	2016	2000	13.28	86	11.42	0.0008
R	AP1	7	2016	1900	13.37	86	11.5	0.0007
R	AP1	7	2016	1800	13.45	86	11.57	0.0007
R	AP1	7	2016	1700	13.53	86	11.64	0.0006
R	AP1	7	2016	1600	13.61	86	11.7	0.0013
R	AP1	7	2016	1500	13.76	86	11.83	0.0012
R	AP1	7	2016	1400	13.9	86	11.95	0.0012
R	AP1	7	2016	1300	14.04	86	12.07	0.0013
R	AP1	7	2016	1200	14.19	86	12.2	0.0015
R	AP1	7	2016	1100	14.36	86	12.35	0.0017
R	AP1	7	2016	1000	14.56	86	12.52	0.0024
R	AP1	7	2016	950	14.7	86	12.64	0.0026
R	AP1	7	2016	900	14.85	86	12.77	0.0026
R	AP1	7	2016	850	15	86	12.9	0.0028
R	AP1	7	2016	800	15.16	86	13.04	0.0028
R	AP1	7	2016	750	15.32	86	13.18	0.0028
R	AP1	7	2016	700	15.49	86	13.32	0.0032
R	AP1	7	2016	650	15.67	86	13.48	0.003
R	AP1	7	2016	600	15.85	86	13.63	0.005
R	AP1	7	2016	550	16.14	86	13.88	0.0068
R	AP1	7	2016	500	16.54	86	14.22	0.0072
R	AP1	7	2016	450	16.95	86	14.58	0.0076
R	AP1	7	2016	400	17.4	86	14.96	0.0082
R	AP1	7	2016	350	17.87	86	15.37	0.0084
R	AP1	7	2016	300	18.36	86	15.79	0.0104
R	AP1	7	2016	250	18.96	86	16.31	0.0186
R	AP1	7	2016	200	20.05	86	17.24	0.0286
R	AP1	7	2016	150	21.71	86	18.67	0.0404
R	AP1	7	2016	100	24.06	86	20.69	0.102
R	AP1	7	2016	50	29.99	86	25.79	15.982653
R	AP1	7	2016	1	940.63	86	808.94	0
R	AP1	*	2016	99999999	11.09	71	7.87	0
R	AP1	*	2016	22000	11.09	71	7.87	0.00002
R	AP1	*	2016	21500	11.1	71	7.88	0.00002
R	AP1	*	2016	21000	11.11	71	7.89	0.00002
R	AP1	*	2016	20500	11.12	71	7.9	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	*	2016	20000	11.13	71	7.9	0.00004
R	AP1	*	2016	19500	11.15	71	7.92	0
R	AP1	*	2016	19000	11.16	71	7.92	0.00002
R	AP1	*	2016	18500	11.17	71	7.93	0.00002
R	AP1	*	2016	18000	11.19	71	7.94	0.00002
R	AP1	*	2016	17500	11.2	71	7.95	0.00004
R	AP1	*	2016	17000	11.22	71	7.97	0.00002
R	AP1	*	2016	16500	11.24	71	7.98	0.00002
R	AP1	*	2016	16000	11.26	71	7.99	0.00002
R	AP1	*	2016	15500	11.27	71	8	0.00004
R	AP1	*	2016	15000	11.29	71	8.02	0.00002
R	AP1	*	2016	14500	11.31	71	8.03	0.00002
R	AP1	*	2016	14000	11.33	71	8.04	0.00004
R	AP1	*	2016	13500	11.35	71	8.06	0.00006
R	AP1	*	2016	13000	11.39	71	8.09	0
R	AP1	*	2016	12500	11.4	71	8.09	0.00006
R	AP1	*	2016	12000	11.43	71	8.12	0.00004
R	AP1	*	2016	11500	11.46	71	8.14	0.00002
R	AP1	*	2016	11000	11.48	71	8.15	0.00004
R	AP1	*	2016	10500	11.51	71	8.17	0.00004
R	AP1	*	2016	10000	11.54	71	8.19	0.00004
R	AP1	*	2016	9500	11.56	71	8.21	0.00006
R	AP1	*	2016	9000	11.6	71	8.24	0.00008
R	AP1	*	2016	8500	11.66	71	8.28	0.00006
R	AP1	*	2016	8000	11.71	71	8.31	0.00008
R	AP1	*	2016	7500	11.76	71	8.35	0.00008
R	AP1	*	2016	7000	11.82	71	8.39	0.00008
R	AP1	*	2016	6500	11.88	71	8.43	0.00012
R	AP1	*	2016	6000	11.96	71	8.49	0.00014
R	AP1	*	2016	5500	12.05	71	8.56	0.00012
R	AP1	*	2016	5000	12.14	71	8.62	0.00012
R	AP1	*	2016	4750	12.19	71	8.65	0.0002
R	AP1	*	2016	4500	12.25	71	8.7	0.00012
R	AP1	*	2016	4250	12.29	71	8.73	0.0002
R	AP1	*	2016	4000	12.37	71	8.78	0.00028
R	AP1	*	2016	3750	12.47	71	8.85	0.00032
R	AP1	*	2016	3500	12.58	71	8.93	0.00028
R	AP1	*	2016	3250	12.68	71	9	0.00028
R	AP1	*	2016	3000	12.78	71	9.07	0.0003
R	AP1	*	2016	2900	12.81	71	9.1	0.0002
R	AP1	*	2016	2800	12.85	71	9.12	0.0003
R	AP1	*	2016	2700	12.89	71	9.15	0.0004
R	AP1	*	2016	2600	12.94	71	9.19	0.0002
R	AP1	*	2016	2500	12.97	71	9.21	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP1	*	2016	2400	13.01	71	9.24	0.0003
R	AP1	*	2016	2300	13.05	71	9.27	0.0005
R	AP1	*	2016	2200	13.12	71	9.32	0.0005
R	AP1	*	2016	2100	13.2	71	9.37	0.0006
R	AP1	*	2016	2000	13.28	71	9.43	0.0006
R	AP1	*	2016	1900	13.37	71	9.49	0.0006
R	AP1	*	2016	1800	13.45	71	9.55	0.0006
R	AP1	*	2016	1700	13.53	71	9.61	0.0005
R	AP1	*	2016	1600	13.61	71	9.66	0.0011
R	AP1	*	2016	1500	13.76	71	9.77	0.001
R	AP1	*	2016	1400	13.9	71	9.87	0.001
R	AP1	*	2016	1300	14.04	71	9.97	0.001
R	AP1	*	2016	1200	14.19	71	10.07	0.0013
R	AP1	*	2016	1100	14.36	71	10.2	0.0014
R	AP1	*	2016	1000	14.56	71	10.34	0.002
R	AP1	*	2016	950	14.7	71	10.44	0.002
R	AP1	*	2016	900	14.85	71	10.54	0.0022
R	AP1	*	2016	850	15	71	10.65	0.0022
R	AP1	*	2016	800	15.16	71	10.76	0.0024
R	AP1	*	2016	750	15.32	71	10.88	0.0024
R	AP1	*	2016	700	15.49	71	11	0.0026
R	AP1	*	2016	650	15.67	71	11.13	0.0024
R	AP1	*	2016	600	15.85	71	11.25	0.0042
R	AP1	*	2016	550	16.14	71	11.46	0.0056
R	AP1	*	2016	500	16.54	71	11.74	0.0058
R	AP1	*	2016	450	16.95	71	12.03	0.0064
R	AP1	*	2016	400	17.4	71	12.35	0.0068
R	AP1	*	2016	350	17.87	71	12.69	0.007
R	AP1	*	2016	300	18.36	71	13.04	0.0084
R	AP1	*	2016	250	18.96	71	13.46	0.0156
R	AP1	*	2016	200	20.05	71	14.24	0.0234
R	AP1	*	2016	150	21.71	71	15.41	0.0334
R	AP1	*	2016	100	24.06	71	17.08	0.0842
R	AP1	*	2016	50	29.99	71	21.29	13.195102
R	AP1	*	2016	1	940.63	71	667.85	0
R	AP2	1	2016	99999999	10.78	60	6.47	0
R	AP2	1	2016	22000	10.78	60	6.47	0
R	AP2	1	2016	21500	10.79	60	6.47	0.00002
R	AP2	1	2016	21000	10.8	60	6.48	0.00002
R	AP2	1	2016	20500	10.82	60	6.49	0
R	AP2	1	2016	20000	10.82	60	6.49	0.00002
R	AP2	1	2016	19500	10.83	60	6.5	0.00002
R	AP2	1	2016	19000	10.85	60	6.51	0.00002
R	AP2	1	2016	18500	10.86	60	6.52	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	1	2016	18000	10.89	60	6.53	0
R	AP2	1	2016	17500	10.89	60	6.53	0.00002
R	AP2	1	2016	17000	10.9	60	6.54	0.00004
R	AP2	1	2016	16500	10.93	60	6.56	0
R	AP2	1	2016	16000	10.94	60	6.56	0.00004
R	AP2	1	2016	15500	10.96	60	6.58	0
R	AP2	1	2016	15000	10.97	60	6.58	0.00004
R	AP2	1	2016	14500	11	60	6.6	0.00002
R	AP2	1	2016	14000	11.01	60	6.61	0.00002
R	AP2	1	2016	13500	11.04	60	6.62	0.00004
R	AP2	1	2016	13000	11.07	60	6.64	0.00002
R	AP2	1	2016	12500	11.09	60	6.65	0.00004
R	AP2	1	2016	12000	11.11	60	6.67	0.00002
R	AP2	1	2016	11500	11.14	60	6.68	0.00004
R	AP2	1	2016	11000	11.17	60	6.7	0.00002
R	AP2	1	2016	10500	11.18	60	6.71	0.00004
R	AP2	1	2016	10000	11.22	60	6.73	0.00004
R	AP2	1	2016	9500	11.25	60	6.75	0.00004
R	AP2	1	2016	9000	11.28	60	6.77	0.00006
R	AP2	1	2016	8500	11.33	60	6.8	0.00006
R	AP2	1	2016	8000	11.39	60	6.83	0.00006
R	AP2	1	2016	7500	11.43	60	6.86	0.00006
R	AP2	1	2016	7000	11.49	60	6.89	0.00008
R	AP2	1	2016	6500	11.55	60	6.93	0.00008
R	AP2	1	2016	6000	11.62	60	6.97	0.00012
R	AP2	1	2016	5500	11.71	60	7.03	0.0001
R	AP2	1	2016	5000	11.8	60	7.08	0.00012
R	AP2	1	2016	4750	11.85	60	7.11	0.00016
R	AP2	1	2016	4500	11.91	60	7.15	0.00012
R	AP2	1	2016	4250	11.96	60	7.18	0.00016
R	AP2	1	2016	4000	12.03	60	7.22	0.0002
R	AP2	1	2016	3750	12.12	60	7.27	0.00024
R	AP2	1	2016	3500	12.22	60	7.33	0.00028
R	AP2	1	2016	3250	12.33	60	7.4	0.00024
R	AP2	1	2016	3000	12.43	60	7.46	0.0002
R	AP2	1	2016	2900	12.46	60	7.48	0.0002
R	AP2	1	2016	2800	12.5	60	7.5	0.0002
R	AP2	1	2016	2700	12.54	60	7.52	0.0003
R	AP2	1	2016	2600	12.58	60	7.55	0.0002
R	AP2	1	2016	2500	12.61	60	7.57	0.0002
R	AP2	1	2016	2400	12.65	60	7.59	0.0002
R	AP2	1	2016	2300	12.69	60	7.61	0.0005
R	AP2	1	2016	2200	12.76	60	7.66	0.0004
R	AP2	1	2016	2100	12.83	60	7.7	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	1	2016	2000	12.91	60	7.75	0.0005
R	AP2	1	2016	1900	13	60	7.8	0.0005
R	AP2	1	2016	1800	13.08	60	7.85	0.0005
R	AP2	1	2016	1700	13.16	60	7.9	0.0004
R	AP2	1	2016	1600	13.24	60	7.94	0.0009
R	AP2	1	2016	1500	13.38	60	8.03	0.0008
R	AP2	1	2016	1400	13.51	60	8.11	0.0009
R	AP2	1	2016	1300	13.66	60	8.2	0.0008
R	AP2	1	2016	1200	13.8	60	8.28	0.001
R	AP2	1	2016	1100	13.96	60	8.38	0.0011
R	AP2	1	2016	1000	14.15	60	8.49	0.0016
R	AP2	1	2016	950	14.29	60	8.57	0.0018
R	AP2	1	2016	900	14.44	60	8.66	0.0018
R	AP2	1	2016	850	14.58	60	8.75	0.0018
R	AP2	1	2016	800	14.74	60	8.84	0.002
R	AP2	1	2016	750	14.9	60	8.94	0.002
R	AP2	1	2016	700	15.06	60	9.04	0.002
R	AP2	1	2016	650	15.23	60	9.14	0.0022
R	AP2	1	2016	600	15.41	60	9.25	0.0032
R	AP2	1	2016	550	15.69	60	9.41	0.0048
R	AP2	1	2016	500	16.08	60	9.65	0.0048
R	AP2	1	2016	450	16.48	60	9.89	0.0052
R	AP2	1	2016	400	16.91	60	10.15	0.0054
R	AP2	1	2016	350	17.36	60	10.42	0.0058
R	AP2	1	2016	300	17.85	60	10.71	0.007
R	AP2	1	2016	250	18.43	60	11.06	0.0126
R	AP2	1	2016	200	19.49	60	11.69	0.0196
R	AP2	1	2016	150	21.11	60	12.67	0.0272
R	AP2	1	2016	100	23.39	60	14.03	0.0692
R	AP2	1	2016	50	29.15	60	17.49	11.692041
R	AP2	1	2016	1	984	60	590.4	0
R	AP2	2	2016	9999999	10.78	60	6.47	0
R	AP2	2	2016	22000	10.78	60	6.47	0
R	AP2	2	2016	21500	10.79	60	6.47	0.00002
R	AP2	2	2016	21000	10.8	60	6.48	0.00002
R	AP2	2	2016	20500	10.82	60	6.49	0
R	AP2	2	2016	20000	10.82	60	6.49	0.00002
R	AP2	2	2016	19500	10.83	60	6.5	0.00002
R	AP2	2	2016	19000	10.85	60	6.51	0.00002
R	AP2	2	2016	18500	10.86	60	6.52	0.00002
R	AP2	2	2016	18000	10.89	60	6.53	0
R	AP2	2	2016	17500	10.89	60	6.53	0.00002
R	AP2	2	2016	17000	10.9	60	6.54	0.00004
R	AP2	2	2016	16500	10.93	60	6.56	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	2	2016	16000	10.94	60	6.56	0.00004
R	AP2	2	2016	15500	10.96	60	6.58	0
R	AP2	2	2016	15000	10.97	60	6.58	0.00004
R	AP2	2	2016	14500	11	60	6.6	0.00002
R	AP2	2	2016	14000	11.01	60	6.61	0.00002
R	AP2	2	2016	13500	11.04	60	6.62	0.00004
R	AP2	2	2016	13000	11.07	60	6.64	0.00002
R	AP2	2	2016	12500	11.09	60	6.65	0.00004
R	AP2	2	2016	12000	11.11	60	6.67	0.00002
R	AP2	2	2016	11500	11.14	60	6.68	0.00004
R	AP2	2	2016	11000	11.17	60	6.7	0.00002
R	AP2	2	2016	10500	11.18	60	6.71	0.00004
R	AP2	2	2016	10000	11.22	60	6.73	0.00004
R	AP2	2	2016	9500	11.25	60	6.75	0.00004
R	AP2	2	2016	9000	11.28	60	6.77	0.00006
R	AP2	2	2016	8500	11.33	60	6.8	0.00006
R	AP2	2	2016	8000	11.39	60	6.83	0.00006
R	AP2	2	2016	7500	11.43	60	6.86	0.00006
R	AP2	2	2016	7000	11.49	60	6.89	0.00008
R	AP2	2	2016	6500	11.55	60	6.93	0.00008
R	AP2	2	2016	6000	11.62	60	6.97	0.00012
R	AP2	2	2016	5500	11.71	60	7.03	0.0001
R	AP2	2	2016	5000	11.8	60	7.08	0.00012
R	AP2	2	2016	4750	11.85	60	7.11	0.00016
R	AP2	2	2016	4500	11.91	60	7.15	0.00012
R	AP2	2	2016	4250	11.96	60	7.18	0.00016
R	AP2	2	2016	4000	12.03	60	7.22	0.0002
R	AP2	2	2016	3750	12.12	60	7.27	0.00024
R	AP2	2	2016	3500	12.22	60	7.33	0.00028
R	AP2	2	2016	3250	12.33	60	7.4	0.00024
R	AP2	2	2016	3000	12.43	60	7.46	0.0002
R	AP2	2	2016	2900	12.46	60	7.48	0.0002
R	AP2	2	2016	2800	12.5	60	7.5	0.0002
R	AP2	2	2016	2700	12.54	60	7.52	0.0003
R	AP2	2	2016	2600	12.58	60	7.55	0.0002
R	AP2	2	2016	2500	12.61	60	7.57	0.0002
R	AP2	2	2016	2400	12.65	60	7.59	0.0002
R	AP2	2	2016	2300	12.69	60	7.61	0.0005
R	AP2	2	2016	2200	12.76	60	7.66	0.0004
R	AP2	2	2016	2100	12.83	60	7.7	0.0005
R	AP2	2	2016	2000	12.91	60	7.75	0.0005
R	AP2	2	2016	1900	13	60	7.8	0.0005
R	AP2	2	2016	1800	13.08	60	7.85	0.0005
R	AP2	2	2016	1700	13.16	60	7.9	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	2	2016	1600	13.24	60	7.94	0.0009
R	AP2	2	2016	1500	13.38	60	8.03	0.0008
R	AP2	2	2016	1400	13.51	60	8.11	0.0009
R	AP2	2	2016	1300	13.66	60	8.2	0.0008
R	AP2	2	2016	1200	13.8	60	8.28	0.001
R	AP2	2	2016	1100	13.96	60	8.38	0.0011
R	AP2	2	2016	1000	14.15	60	8.49	0.0016
R	AP2	2	2016	950	14.29	60	8.57	0.0018
R	AP2	2	2016	900	14.44	60	8.66	0.0018
R	AP2	2	2016	850	14.58	60	8.75	0.0018
R	AP2	2	2016	800	14.74	60	8.84	0.002
R	AP2	2	2016	750	14.9	60	8.94	0.002
R	AP2	2	2016	700	15.06	60	9.04	0.002
R	AP2	2	2016	650	15.23	60	9.14	0.0022
R	AP2	2	2016	600	15.41	60	9.25	0.0032
R	AP2	2	2016	550	15.69	60	9.41	0.0048
R	AP2	2	2016	500	16.08	60	9.65	0.0048
R	AP2	2	2016	450	16.48	60	9.89	0.0052
R	AP2	2	2016	400	16.91	60	10.15	0.0054
R	AP2	2	2016	350	17.36	60	10.42	0.0058
R	AP2	2	2016	300	17.85	60	10.71	0.007
R	AP2	2	2016	250	18.43	60	11.06	0.0126
R	AP2	2	2016	200	19.49	60	11.69	0.0196
R	AP2	2	2016	150	21.11	60	12.67	0.0272
R	AP2	2	2016	100	23.39	60	14.03	0.0692
R	AP2	2	2016	50	29.15	60	17.49	11.692041
R	AP2	2	2016	1	984	60	590.4	0
R	AP2	3	2016	99999999	10.78	60	6.47	0
R	AP2	3	2016	22000	10.78	60	6.47	0
R	AP2	3	2016	21500	10.79	60	6.47	0.00002
R	AP2	3	2016	21000	10.8	60	6.48	0.00002
R	AP2	3	2016	20500	10.82	60	6.49	0
R	AP2	3	2016	20000	10.82	60	6.49	0.00002
R	AP2	3	2016	19500	10.83	60	6.5	0.00002
R	AP2	3	2016	19000	10.85	60	6.51	0.00002
R	AP2	3	2016	18500	10.86	60	6.52	0.00002
R	AP2	3	2016	18000	10.89	60	6.53	0
R	AP2	3	2016	17500	10.89	60	6.53	0.00002
R	AP2	3	2016	17000	10.9	60	6.54	0.00004
R	AP2	3	2016	16500	10.93	60	6.56	0
R	AP2	3	2016	16000	10.94	60	6.56	0.00004
R	AP2	3	2016	15500	10.96	60	6.58	0
R	AP2	3	2016	15000	10.97	60	6.58	0.00004
R	AP2	3	2016	14500	11	60	6.6	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	3	2016	14000	11.01	60	6.61	0.00002
R	AP2	3	2016	13500	11.04	60	6.62	0.00004
R	AP2	3	2016	13000	11.07	60	6.64	0.00002
R	AP2	3	2016	12500	11.09	60	6.65	0.00004
R	AP2	3	2016	12000	11.11	60	6.67	0.00002
R	AP2	3	2016	11500	11.14	60	6.68	0.00004
R	AP2	3	2016	11000	11.17	60	6.7	0.00002
R	AP2	3	2016	10500	11.18	60	6.71	0.00004
R	AP2	3	2016	10000	11.22	60	6.73	0.00004
R	AP2	3	2016	9500	11.25	60	6.75	0.00004
R	AP2	3	2016	9000	11.28	60	6.77	0.00006
R	AP2	3	2016	8500	11.33	60	6.8	0.00006
R	AP2	3	2016	8000	11.39	60	6.83	0.00006
R	AP2	3	2016	7500	11.43	60	6.86	0.00006
R	AP2	3	2016	7000	11.49	60	6.89	0.00008
R	AP2	3	2016	6500	11.55	60	6.93	0.00008
R	AP2	3	2016	6000	11.62	60	6.97	0.00012
R	AP2	3	2016	5500	11.71	60	7.03	0.0001
R	AP2	3	2016	5000	11.8	60	7.08	0.00012
R	AP2	3	2016	4750	11.85	60	7.11	0.00016
R	AP2	3	2016	4500	11.91	60	7.15	0.00012
R	AP2	3	2016	4250	11.96	60	7.18	0.00016
R	AP2	3	2016	4000	12.03	60	7.22	0.0002
R	AP2	3	2016	3750	12.12	60	7.27	0.00024
R	AP2	3	2016	3500	12.22	60	7.33	0.00028
R	AP2	3	2016	3250	12.33	60	7.4	0.00024
R	AP2	3	2016	3000	12.43	60	7.46	0.0002
R	AP2	3	2016	2900	12.46	60	7.48	0.0002
R	AP2	3	2016	2800	12.5	60	7.5	0.0002
R	AP2	3	2016	2700	12.54	60	7.52	0.0003
R	AP2	3	2016	2600	12.58	60	7.55	0.0002
R	AP2	3	2016	2500	12.61	60	7.57	0.0002
R	AP2	3	2016	2400	12.65	60	7.59	0.0002
R	AP2	3	2016	2300	12.69	60	7.61	0.0005
R	AP2	3	2016	2200	12.76	60	7.66	0.0004
R	AP2	3	2016	2100	12.83	60	7.7	0.0005
R	AP2	3	2016	2000	12.91	60	7.75	0.0005
R	AP2	3	2016	1900	13	60	7.8	0.0005
R	AP2	3	2016	1800	13.08	60	7.85	0.0005
R	AP2	3	2016	1700	13.16	60	7.9	0.0004
R	AP2	3	2016	1600	13.24	60	7.94	0.0009
R	AP2	3	2016	1500	13.38	60	8.03	0.0008
R	AP2	3	2016	1400	13.51	60	8.11	0.0009
R	AP2	3	2016	1300	13.66	60	8.2	0.0008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	3	2016	1200	13.8	60	8.28	0.001
R	AP2	3	2016	1100	13.96	60	8.38	0.0011
R	AP2	3	2016	1000	14.15	60	8.49	0.0016
R	AP2	3	2016	950	14.29	60	8.57	0.0018
R	AP2	3	2016	900	14.44	60	8.66	0.0018
R	AP2	3	2016	850	14.58	60	8.75	0.0018
R	AP2	3	2016	800	14.74	60	8.84	0.002
R	AP2	3	2016	750	14.9	60	8.94	0.002
R	AP2	3	2016	700	15.06	60	9.04	0.002
R	AP2	3	2016	650	15.23	60	9.14	0.0022
R	AP2	3	2016	600	15.41	60	9.25	0.0032
R	AP2	3	2016	550	15.69	60	9.41	0.0048
R	AP2	3	2016	500	16.08	60	9.65	0.0048
R	AP2	3	2016	450	16.48	60	9.89	0.0052
R	AP2	3	2016	400	16.91	60	10.15	0.0054
R	AP2	3	2016	350	17.36	60	10.42	0.0058
R	AP2	3	2016	300	17.85	60	10.71	0.007
R	AP2	3	2016	250	18.43	60	11.06	0.0126
R	AP2	3	2016	200	19.49	60	11.69	0.0196
R	AP2	3	2016	150	21.11	60	12.67	0.0272
R	AP2	3	2016	100	23.39	60	14.03	0.0692
R	AP2	3	2016	50	29.15	60	17.49	11.692041
R	AP2	3	2016	1	984	60	590.4	0
R	AP2	4	2016	99999999	10.78	71	7.65	0
R	AP2	4	2016	22000	10.78	71	7.65	0.00002
R	AP2	4	2016	21500	10.79	71	7.66	0.00002
R	AP2	4	2016	21000	10.8	71	7.67	0.00002
R	AP2	4	2016	20500	10.82	71	7.68	0
R	AP2	4	2016	20000	10.82	71	7.68	0.00002
R	AP2	4	2016	19500	10.83	71	7.69	0.00002
R	AP2	4	2016	19000	10.85	71	7.7	0.00002
R	AP2	4	2016	18500	10.86	71	7.71	0.00004
R	AP2	4	2016	18000	10.89	71	7.73	0
R	AP2	4	2016	17500	10.89	71	7.73	0.00002
R	AP2	4	2016	17000	10.9	71	7.74	0.00004
R	AP2	4	2016	16500	10.93	71	7.76	0.00002
R	AP2	4	2016	16000	10.94	71	7.77	0.00002
R	AP2	4	2016	15500	10.96	71	7.78	0.00002
R	AP2	4	2016	15000	10.97	71	7.79	0.00004
R	AP2	4	2016	14500	11	71	7.81	0.00002
R	AP2	4	2016	14000	11.01	71	7.82	0.00004
R	AP2	4	2016	13500	11.04	71	7.84	0.00004
R	AP2	4	2016	13000	11.07	71	7.86	0.00002
R	AP2	4	2016	12500	11.09	71	7.87	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	4	2016	12000	11.11	71	7.89	0.00004
R	AP2	4	2016	11500	11.14	71	7.91	0.00004
R	AP2	4	2016	11000	11.17	71	7.93	0.00002
R	AP2	4	2016	10500	11.18	71	7.94	0.00006
R	AP2	4	2016	10000	11.22	71	7.97	0.00004
R	AP2	4	2016	9500	11.25	71	7.99	0.00004
R	AP2	4	2016	9000	11.28	71	8.01	0.00006
R	AP2	4	2016	8500	11.33	71	8.04	0.0001
R	AP2	4	2016	8000	11.39	71	8.09	0.00006
R	AP2	4	2016	7500	11.43	71	8.12	0.00008
R	AP2	4	2016	7000	11.49	71	8.16	0.00008
R	AP2	4	2016	6500	11.55	71	8.2	0.0001
R	AP2	4	2016	6000	11.62	71	8.25	0.00012
R	AP2	4	2016	5500	11.71	71	8.31	0.00014
R	AP2	4	2016	5000	11.8	71	8.38	0.00012
R	AP2	4	2016	4750	11.85	71	8.41	0.0002
R	AP2	4	2016	4500	11.91	71	8.46	0.00012
R	AP2	4	2016	4250	11.96	71	8.49	0.0002
R	AP2	4	2016	4000	12.03	71	8.54	0.00028
R	AP2	4	2016	3750	12.12	71	8.61	0.00028
R	AP2	4	2016	3500	12.22	71	8.68	0.00028
R	AP2	4	2016	3250	12.33	71	8.75	0.00032
R	AP2	4	2016	3000	12.43	71	8.83	0.0002
R	AP2	4	2016	2900	12.46	71	8.85	0.0003
R	AP2	4	2016	2800	12.5	71	8.88	0.0002
R	AP2	4	2016	2700	12.54	71	8.9	0.0003
R	AP2	4	2016	2600	12.58	71	8.93	0.0002
R	AP2	4	2016	2500	12.61	71	8.95	0.0003
R	AP2	4	2016	2400	12.65	71	8.98	0.0003
R	AP2	4	2016	2300	12.69	71	9.01	0.0005
R	AP2	4	2016	2200	12.76	71	9.06	0.0005
R	AP2	4	2016	2100	12.83	71	9.11	0.0006
R	AP2	4	2016	2000	12.91	71	9.17	0.0006
R	AP2	4	2016	1900	13	71	9.23	0.0006
R	AP2	4	2016	1800	13.08	71	9.29	0.0005
R	AP2	4	2016	1700	13.16	71	9.34	0.0006
R	AP2	4	2016	1600	13.24	71	9.4	0.001
R	AP2	4	2016	1500	13.38	71	9.5	0.0009
R	AP2	4	2016	1400	13.51	71	9.59	0.0011
R	AP2	4	2016	1300	13.66	71	9.7	0.001
R	AP2	4	2016	1200	13.8	71	9.8	0.0011
R	AP2	4	2016	1100	13.96	71	9.91	0.0014
R	AP2	4	2016	1000	14.15	71	10.05	0.002
R	AP2	4	2016	950	14.29	71	10.15	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	4	2016	900	14.44	71	10.25	0.002
R	AP2	4	2016	850	14.58	71	10.35	0.0024
R	AP2	4	2016	800	14.74	71	10.47	0.0022
R	AP2	4	2016	750	14.9	71	10.58	0.0022
R	AP2	4	2016	700	15.06	71	10.69	0.0024
R	AP2	4	2016	650	15.23	71	10.81	0.0026
R	AP2	4	2016	600	15.41	71	10.94	0.004
R	AP2	4	2016	550	15.69	71	11.14	0.0056
R	AP2	4	2016	500	16.08	71	11.42	0.0056
R	AP2	4	2016	450	16.48	71	11.7	0.0062
R	AP2	4	2016	400	16.91	71	12.01	0.0064
R	AP2	4	2016	350	17.36	71	12.33	0.0068
R	AP2	4	2016	300	17.85	71	12.67	0.0084
R	AP2	4	2016	250	18.43	71	13.09	0.015
R	AP2	4	2016	200	19.49	71	13.84	0.023
R	AP2	4	2016	150	21.11	71	14.99	0.0324
R	AP2	4	2016	100	23.39	71	16.61	0.0818
R	AP2	4	2016	50	29.15	71	20.7	13.83551
R	AP2	4	2016	1	984	71	698.64	0
R	AP2	5	2016	99999999	10.78	86	9.27	0
R	AP2	5	2016	22000	10.78	86	9.27	0.00002
R	AP2	5	2016	21500	10.79	86	9.28	0.00002
R	AP2	5	2016	21000	10.8	86	9.29	0.00004
R	AP2	5	2016	20500	10.82	86	9.31	0
R	AP2	5	2016	20000	10.82	86	9.31	0
R	AP2	5	2016	19500	10.83	86	9.31	0.00004
R	AP2	5	2016	19000	10.85	86	9.33	0.00002
R	AP2	5	2016	18500	10.86	86	9.34	0.00006
R	AP2	5	2016	18000	10.89	86	9.37	0
R	AP2	5	2016	17500	10.89	86	9.37	0
R	AP2	5	2016	17000	10.9	86	9.37	0.00006
R	AP2	5	2016	16500	10.93	86	9.4	0.00002
R	AP2	5	2016	16000	10.94	86	9.41	0.00004
R	AP2	5	2016	15500	10.96	86	9.43	0
R	AP2	5	2016	15000	10.97	86	9.43	0.00006
R	AP2	5	2016	14500	11	86	9.46	0.00002
R	AP2	5	2016	14000	11.01	86	9.47	0.00004
R	AP2	5	2016	13500	11.04	86	9.49	0.00006
R	AP2	5	2016	13000	11.07	86	9.52	0.00004
R	AP2	5	2016	12500	11.09	86	9.54	0.00002
R	AP2	5	2016	12000	11.11	86	9.55	0.00006
R	AP2	5	2016	11500	11.14	86	9.58	0.00006
R	AP2	5	2016	11000	11.17	86	9.61	0
R	AP2	5	2016	10500	11.18	86	9.61	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP2	5	2016	10000	11.22	86	9.65	0.00006
R	AP2	5	2016	9500	11.25	86	9.68	0.00004
R	AP2	5	2016	9000	11.28	86	9.7	0.00008
R	AP2	5	2016	8500	11.33	86	9.74	0.00012
R	AP2	5	2016	8000	11.39	86	9.8	0.00006
R	AP2	5	2016	7500	11.43	86	9.83	0.0001
R	AP2	5	2016	7000	11.49	86	9.88	0.0001
R	AP2	5	2016	6500	11.55	86	9.93	0.00012
R	AP2	5	2016	6000	11.62	86	9.99	0.00016
R	AP2	5	2016	5500	11.71	86	10.07	0.00016
R	AP2	5	2016	5000	11.8	86	10.15	0.00016
R	AP2	5	2016	4750	11.85	86	10.19	0.0002
R	AP2	5	2016	4500	11.91	86	10.24	0.0002
R	AP2	5	2016	4250	11.96	86	10.29	0.00024
R	AP2	5	2016	4000	12.03	86	10.35	0.00028
R	AP2	5	2016	3750	12.12	86	10.42	0.00036
R	AP2	5	2016	3500	12.22	86	10.51	0.00036
R	AP2	5	2016	3250	12.33	86	10.6	0.00036
R	AP2	5	2016	3000	12.43	86	10.69	0.0003
R	AP2	5	2016	2900	12.46	86	10.72	0.0003
R	AP2	5	2016	2800	12.5	86	10.75	0.0003
R	AP2	5	2016	2700	12.54	86	10.78	0.0004
R	AP2	5	2016	2600	12.58	86	10.82	0.0002
R	AP2	5	2016	2500	12.61	86	10.84	0.0004
R	AP2	5	2016	2400	12.65	86	10.88	0.0003
R	AP2	5	2016	2300	12.69	86	10.91	0.0006
R	AP2	5	2016	2200	12.76	86	10.97	0.0006
R	AP2	5	2016	2100	12.83	86	11.03	0.0007
R	AP2	5	2016	2000	12.91	86	11.1	0.0008
R	AP2	5	2016	1900	13	86	11.18	0.0007
R	AP2	5	2016	1800	13.08	86	11.25	0.0007
R	AP2	5	2016	1700	13.16	86	11.32	0.0007
R	AP2	5	2016	1600	13.24	86	11.39	0.0012
R	AP2	5	2016	1500	13.38	86	11.51	0.0011
R	AP2	5	2016	1400	13.51	86	11.62	0.0013
R	AP2	5	2016	1300	13.66	86	11.75	0.0012
R	AP2	5	2016	1200	13.8	86	11.87	0.0014
R	AP2	5	2016	1100	13.96	86	12.01	0.0016
R	AP2	5	2016	1000	14.15	86	12.17	0.0024
R	AP2	5	2016	950	14.29	86	12.29	0.0026
R	AP2	5	2016	900	14.44	86	12.42	0.0024
R	AP2	5	2016	850	14.58	86	12.54	0.0028
R	AP2	5	2016	800	14.74	86	12.68	0.0026
R	AP2	5	2016	750	14.9	86	12.81	0.0028

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	5	2016	700	15.06	86	12.95	0.003
R	AP2	5	2016	650	15.23	86	13.1	0.003
R	AP2	5	2016	600	15.41	86	13.25	0.0048
R	AP2	5	2016	550	15.69	86	13.49	0.0068
R	AP2	5	2016	500	16.08	86	13.83	0.0068
R	AP2	5	2016	450	16.48	86	14.17	0.0074
R	AP2	5	2016	400	16.91	86	14.54	0.0078
R	AP2	5	2016	350	17.36	86	14.93	0.0084
R	AP2	5	2016	300	17.85	86	15.35	0.01
R	AP2	5	2016	250	18.43	86	15.85	0.0182
R	AP2	5	2016	200	19.49	86	16.76	0.0278
R	AP2	5	2016	150	21.11	86	18.15	0.0394
R	AP2	5	2016	100	23.39	86	20.12	0.099
R	AP2	5	2016	50	29.15	86	25.07	16.758571
R	AP2	5	2016	1	984	86	846.24	0
R	AP2	6	2016	99999999	10.78	86	9.27	0
R	AP2	6	2016	22000	10.78	86	9.27	0.00002
R	AP2	6	2016	21500	10.79	86	9.28	0.00002
R	AP2	6	2016	21000	10.8	86	9.29	0.00004
R	AP2	6	2016	20500	10.82	86	9.31	0
R	AP2	6	2016	20000	10.82	86	9.31	0
R	AP2	6	2016	19500	10.83	86	9.31	0.00004
R	AP2	6	2016	19000	10.85	86	9.33	0.00002
R	AP2	6	2016	18500	10.86	86	9.34	0.00006
R	AP2	6	2016	18000	10.89	86	9.37	0
R	AP2	6	2016	17500	10.89	86	9.37	0
R	AP2	6	2016	17000	10.9	86	9.37	0.00006
R	AP2	6	2016	16500	10.93	86	9.4	0.00002
R	AP2	6	2016	16000	10.94	86	9.41	0.00004
R	AP2	6	2016	15500	10.96	86	9.43	0
R	AP2	6	2016	15000	10.97	86	9.43	0.00006
R	AP2	6	2016	14500	11	86	9.46	0.00002
R	AP2	6	2016	14000	11.01	86	9.47	0.00004
R	AP2	6	2016	13500	11.04	86	9.49	0.00006
R	AP2	6	2016	13000	11.07	86	9.52	0.00004
R	AP2	6	2016	12500	11.09	86	9.54	0.00002
R	AP2	6	2016	12000	11.11	86	9.55	0.00006
R	AP2	6	2016	11500	11.14	86	9.58	0.00006
R	AP2	6	2016	11000	11.17	86	9.61	0
R	AP2	6	2016	10500	11.18	86	9.61	0.00008
R	AP2	6	2016	10000	11.22	86	9.65	0.00006
R	AP2	6	2016	9500	11.25	86	9.68	0.00004
R	AP2	6	2016	9000	11.28	86	9.7	0.00008
R	AP2	6	2016	8500	11.33	86	9.74	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	6	2016	8000	11.39	86	9.8	0.00006
R	AP2	6	2016	7500	11.43	86	9.83	0.0001
R	AP2	6	2016	7000	11.49	86	9.88	0.0001
R	AP2	6	2016	6500	11.55	86	9.93	0.00012
R	AP2	6	2016	6000	11.62	86	9.99	0.00016
R	AP2	6	2016	5500	11.71	86	10.07	0.00016
R	AP2	6	2016	5000	11.8	86	10.15	0.00016
R	AP2	6	2016	4750	11.85	86	10.19	0.0002
R	AP2	6	2016	4500	11.91	86	10.24	0.0002
R	AP2	6	2016	4250	11.96	86	10.29	0.00024
R	AP2	6	2016	4000	12.03	86	10.35	0.00028
R	AP2	6	2016	3750	12.12	86	10.42	0.00036
R	AP2	6	2016	3500	12.22	86	10.51	0.00036
R	AP2	6	2016	3250	12.33	86	10.6	0.00036
R	AP2	6	2016	3000	12.43	86	10.69	0.0003
R	AP2	6	2016	2900	12.46	86	10.72	0.0003
R	AP2	6	2016	2800	12.5	86	10.75	0.0003
R	AP2	6	2016	2700	12.54	86	10.78	0.0004
R	AP2	6	2016	2600	12.58	86	10.82	0.0002
R	AP2	6	2016	2500	12.61	86	10.84	0.0004
R	AP2	6	2016	2400	12.65	86	10.88	0.0003
R	AP2	6	2016	2300	12.69	86	10.91	0.0006
R	AP2	6	2016	2200	12.76	86	10.97	0.0006
R	AP2	6	2016	2100	12.83	86	11.03	0.0007
R	AP2	6	2016	2000	12.91	86	11.1	0.0008
R	AP2	6	2016	1900	13	86	11.18	0.0007
R	AP2	6	2016	1800	13.08	86	11.25	0.0007
R	AP2	6	2016	1700	13.16	86	11.32	0.0007
R	AP2	6	2016	1600	13.24	86	11.39	0.0012
R	AP2	6	2016	1500	13.38	86	11.51	0.0011
R	AP2	6	2016	1400	13.51	86	11.62	0.0013
R	AP2	6	2016	1300	13.66	86	11.75	0.0012
R	AP2	6	2016	1200	13.8	86	11.87	0.0014
R	AP2	6	2016	1100	13.96	86	12.01	0.0016
R	AP2	6	2016	1000	14.15	86	12.17	0.0024
R	AP2	6	2016	950	14.29	86	12.29	0.0026
R	AP2	6	2016	900	14.44	86	12.42	0.0024
R	AP2	6	2016	850	14.58	86	12.54	0.0028
R	AP2	6	2016	800	14.74	86	12.68	0.0026
R	AP2	6	2016	750	14.9	86	12.81	0.0028
R	AP2	6	2016	700	15.06	86	12.95	0.003
R	AP2	6	2016	650	15.23	86	13.1	0.003
R	AP2	6	2016	600	15.41	86	13.25	0.0048
R	AP2	6	2016	550	15.69	86	13.49	0.0068

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	6	2016	500	16.08	86	13.83	0.0068
R	AP2	6	2016	450	16.48	86	14.17	0.0074
R	AP2	6	2016	400	16.91	86	14.54	0.0078
R	AP2	6	2016	350	17.36	86	14.93	0.0084
R	AP2	6	2016	300	17.85	86	15.35	0.01
R	AP2	6	2016	250	18.43	86	15.85	0.0182
R	AP2	6	2016	200	19.49	86	16.76	0.0278
R	AP2	6	2016	150	21.11	86	18.15	0.0394
R	AP2	6	2016	100	23.39	86	20.12	0.099
R	AP2	6	2016	50	29.15	86	25.07	16.758571
R	AP2	6	2016	1	984	86	846.24	0
R	AP2	7	2016	99999999	10.78	86	9.27	0
R	AP2	7	2016	22000	10.78	86	9.27	0.00002
R	AP2	7	2016	21500	10.79	86	9.28	0.00002
R	AP2	7	2016	21000	10.8	86	9.29	0.00004
R	AP2	7	2016	20500	10.82	86	9.31	0
R	AP2	7	2016	20000	10.82	86	9.31	0
R	AP2	7	2016	19500	10.83	86	9.31	0.00004
R	AP2	7	2016	19000	10.85	86	9.33	0.00002
R	AP2	7	2016	18500	10.86	86	9.34	0.00006
R	AP2	7	2016	18000	10.89	86	9.37	0
R	AP2	7	2016	17500	10.89	86	9.37	0
R	AP2	7	2016	17000	10.9	86	9.37	0.00006
R	AP2	7	2016	16500	10.93	86	9.4	0.00002
R	AP2	7	2016	16000	10.94	86	9.41	0.00004
R	AP2	7	2016	15500	10.96	86	9.43	0
R	AP2	7	2016	15000	10.97	86	9.43	0.00006
R	AP2	7	2016	14500	11	86	9.46	0.00002
R	AP2	7	2016	14000	11.01	86	9.47	0.00004
R	AP2	7	2016	13500	11.04	86	9.49	0.00006
R	AP2	7	2016	13000	11.07	86	9.52	0.00004
R	AP2	7	2016	12500	11.09	86	9.54	0.00002
R	AP2	7	2016	12000	11.11	86	9.55	0.00006
R	AP2	7	2016	11500	11.14	86	9.58	0.00006
R	AP2	7	2016	11000	11.17	86	9.61	0
R	AP2	7	2016	10500	11.18	86	9.61	0.00008
R	AP2	7	2016	10000	11.22	86	9.65	0.00006
R	AP2	7	2016	9500	11.25	86	9.68	0.00004
R	AP2	7	2016	9000	11.28	86	9.7	0.00008
R	AP2	7	2016	8500	11.33	86	9.74	0.00012
R	AP2	7	2016	8000	11.39	86	9.8	0.00006
R	AP2	7	2016	7500	11.43	86	9.83	0.0001
R	AP2	7	2016	7000	11.49	86	9.88	0.0001
R	AP2	7	2016	6500	11.55	86	9.93	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	7	2016	6000	11.62	86	9.99	0.00016
R	AP2	7	2016	5500	11.71	86	10.07	0.00016
R	AP2	7	2016	5000	11.8	86	10.15	0.00016
R	AP2	7	2016	4750	11.85	86	10.19	0.0002
R	AP2	7	2016	4500	11.91	86	10.24	0.0002
R	AP2	7	2016	4250	11.96	86	10.29	0.00024
R	AP2	7	2016	4000	12.03	86	10.35	0.00028
R	AP2	7	2016	3750	12.12	86	10.42	0.00036
R	AP2	7	2016	3500	12.22	86	10.51	0.00036
R	AP2	7	2016	3250	12.33	86	10.6	0.00036
R	AP2	7	2016	3000	12.43	86	10.69	0.0003
R	AP2	7	2016	2900	12.46	86	10.72	0.0003
R	AP2	7	2016	2800	12.5	86	10.75	0.0003
R	AP2	7	2016	2700	12.54	86	10.78	0.0004
R	AP2	7	2016	2600	12.58	86	10.82	0.0002
R	AP2	7	2016	2500	12.61	86	10.84	0.0004
R	AP2	7	2016	2400	12.65	86	10.88	0.0003
R	AP2	7	2016	2300	12.69	86	10.91	0.0006
R	AP2	7	2016	2200	12.76	86	10.97	0.0006
R	AP2	7	2016	2100	12.83	86	11.03	0.0007
R	AP2	7	2016	2000	12.91	86	11.1	0.0008
R	AP2	7	2016	1900	13	86	11.18	0.0007
R	AP2	7	2016	1800	13.08	86	11.25	0.0007
R	AP2	7	2016	1700	13.16	86	11.32	0.0007
R	AP2	7	2016	1600	13.24	86	11.39	0.0012
R	AP2	7	2016	1500	13.38	86	11.51	0.0011
R	AP2	7	2016	1400	13.51	86	11.62	0.0013
R	AP2	7	2016	1300	13.66	86	11.75	0.0012
R	AP2	7	2016	1200	13.8	86	11.87	0.0014
R	AP2	7	2016	1100	13.96	86	12.01	0.0016
R	AP2	7	2016	1000	14.15	86	12.17	0.0024
R	AP2	7	2016	950	14.29	86	12.29	0.0026
R	AP2	7	2016	900	14.44	86	12.42	0.0024
R	AP2	7	2016	850	14.58	86	12.54	0.0028
R	AP2	7	2016	800	14.74	86	12.68	0.0026
R	AP2	7	2016	750	14.9	86	12.81	0.0028
R	AP2	7	2016	700	15.06	86	12.95	0.003
R	AP2	7	2016	650	15.23	86	13.1	0.003
R	AP2	7	2016	600	15.41	86	13.25	0.0048
R	AP2	7	2016	550	15.69	86	13.49	0.0068
R	AP2	7	2016	500	16.08	86	13.83	0.0068
R	AP2	7	2016	450	16.48	86	14.17	0.0074
R	AP2	7	2016	400	16.91	86	14.54	0.0078
R	AP2	7	2016	350	17.36	86	14.93	0.0084

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	7	2016	300	17.85	86	15.35	0.01
R	AP2	7	2016	250	18.43	86	15.85	0.0182
R	AP2	7	2016	200	19.49	86	16.76	0.0278
R	AP2	7	2016	150	21.11	86	18.15	0.0394
R	AP2	7	2016	100	23.39	86	20.12	0.099
R	AP2	7	2016	50	29.15	86	25.07	16.758571
R	AP2	7	2016	1	984	86	846.24	0
R	AP2	*	2016	99999999	10.78	71	7.65	0
R	AP2	*	2016	22000	10.78	71	7.65	0.00002
R	AP2	*	2016	21500	10.79	71	7.66	0.00002
R	AP2	*	2016	21000	10.8	71	7.67	0.00002
R	AP2	*	2016	20500	10.82	71	7.68	0
R	AP2	*	2016	20000	10.82	71	7.68	0.00002
R	AP2	*	2016	19500	10.83	71	7.69	0.00002
R	AP2	*	2016	19000	10.85	71	7.7	0.00002
R	AP2	*	2016	18500	10.86	71	7.71	0.00004
R	AP2	*	2016	18000	10.89	71	7.73	0
R	AP2	*	2016	17500	10.89	71	7.73	0.00002
R	AP2	*	2016	17000	10.9	71	7.74	0.00004
R	AP2	*	2016	16500	10.93	71	7.76	0.00002
R	AP2	*	2016	16000	10.94	71	7.77	0.00002
R	AP2	*	2016	15500	10.96	71	7.78	0.00002
R	AP2	*	2016	15000	10.97	71	7.79	0.00004
R	AP2	*	2016	14500	11	71	7.81	0.00002
R	AP2	*	2016	14000	11.01	71	7.82	0.00004
R	AP2	*	2016	13500	11.04	71	7.84	0.00004
R	AP2	*	2016	13000	11.07	71	7.86	0.00002
R	AP2	*	2016	12500	11.09	71	7.87	0.00004
R	AP2	*	2016	12000	11.11	71	7.89	0.00004
R	AP2	*	2016	11500	11.14	71	7.91	0.00004
R	AP2	*	2016	11000	11.17	71	7.93	0.00002
R	AP2	*	2016	10500	11.18	71	7.94	0.00006
R	AP2	*	2016	10000	11.22	71	7.97	0.00004
R	AP2	*	2016	9500	11.25	71	7.99	0.00004
R	AP2	*	2016	9000	11.28	71	8.01	0.00006
R	AP2	*	2016	8500	11.33	71	8.04	0.0001
R	AP2	*	2016	8000	11.39	71	8.09	0.00006
R	AP2	*	2016	7500	11.43	71	8.12	0.00008
R	AP2	*	2016	7000	11.49	71	8.16	0.00008
R	AP2	*	2016	6500	11.55	71	8.2	0.0001
R	AP2	*	2016	6000	11.62	71	8.25	0.00012
R	AP2	*	2016	5500	11.71	71	8.31	0.00014
R	AP2	*	2016	5000	11.8	71	8.38	0.00012
R	AP2	*	2016	4750	11.85	71	8.41	0.0002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	*	2016	4500	11.91	71	8.46	0.00012
R	AP2	*	2016	4250	11.96	71	8.49	0.0002
R	AP2	*	2016	4000	12.03	71	8.54	0.00028
R	AP2	*	2016	3750	12.12	71	8.61	0.00028
R	AP2	*	2016	3500	12.22	71	8.68	0.00028
R	AP2	*	2016	3250	12.33	71	8.75	0.00032
R	AP2	*	2016	3000	12.43	71	8.83	0.0002
R	AP2	*	2016	2900	12.46	71	8.85	0.0003
R	AP2	*	2016	2800	12.5	71	8.88	0.0002
R	AP2	*	2016	2700	12.54	71	8.9	0.0003
R	AP2	*	2016	2600	12.58	71	8.93	0.0002
R	AP2	*	2016	2500	12.61	71	8.95	0.0003
R	AP2	*	2016	2400	12.65	71	8.98	0.0003
R	AP2	*	2016	2300	12.69	71	9.01	0.0005
R	AP2	*	2016	2200	12.76	71	9.06	0.0005
R	AP2	*	2016	2100	12.83	71	9.11	0.0006
R	AP2	*	2016	2000	12.91	71	9.17	0.0006
R	AP2	*	2016	1900	13	71	9.23	0.0006
R	AP2	*	2016	1800	13.08	71	9.29	0.0005
R	AP2	*	2016	1700	13.16	71	9.34	0.0006
R	AP2	*	2016	1600	13.24	71	9.4	0.001
R	AP2	*	2016	1500	13.38	71	9.5	0.0009
R	AP2	*	2016	1400	13.51	71	9.59	0.0011
R	AP2	*	2016	1300	13.66	71	9.7	0.001
R	AP2	*	2016	1200	13.8	71	9.8	0.0011
R	AP2	*	2016	1100	13.96	71	9.91	0.0014
R	AP2	*	2016	1000	14.15	71	10.05	0.002
R	AP2	*	2016	950	14.29	71	10.15	0.002
R	AP2	*	2016	900	14.44	71	10.25	0.002
R	AP2	*	2016	850	14.58	71	10.35	0.0024
R	AP2	*	2016	800	14.74	71	10.47	0.0022
R	AP2	*	2016	750	14.9	71	10.58	0.0022
R	AP2	*	2016	700	15.06	71	10.69	0.0024
R	AP2	*	2016	650	15.23	71	10.81	0.0026
R	AP2	*	2016	600	15.41	71	10.94	0.004
R	AP2	*	2016	550	15.69	71	11.14	0.0056
R	AP2	*	2016	500	16.08	71	11.42	0.0056
R	AP2	*	2016	450	16.48	71	11.7	0.0062
R	AP2	*	2016	400	16.91	71	12.01	0.0064
R	AP2	*	2016	350	17.36	71	12.33	0.0068
R	AP2	*	2016	300	17.85	71	12.67	0.0084
R	AP2	*	2016	250	18.43	71	13.09	0.015
R	AP2	*	2016	200	19.49	71	13.84	0.023
R	AP2	*	2016	150	21.11	71	14.99	0.0324

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP2	*	2016	100	23.39	71	16.61	0.0818
R	AP2	*	2016	50	29.15	71	20.7	13.83551
R	AP2	*	2016	1	984	71	698.64	0
R	AP3	1	2016	99999999	10.36	60	6.22	0
R	AP3	1	2016	22000	10.36	60	6.22	0
R	AP3	1	2016	21500	10.36	60	6.22	0
R	AP3	1	2016	21000	10.37	60	6.22	0.00002
R	AP3	1	2016	20500	10.39	60	6.23	0.00002
R	AP3	1	2016	20000	10.4	60	6.24	0.00002
R	AP3	1	2016	19500	10.41	60	6.25	0
R	AP3	1	2016	19000	10.42	60	6.25	0.00002
R	AP3	1	2016	18500	10.43	60	6.26	0.00002
R	AP3	1	2016	18000	10.45	60	6.27	0.00002
R	AP3	1	2016	17500	10.46	60	6.28	0.00002
R	AP3	1	2016	17000	10.48	60	6.29	0.00002
R	AP3	1	2016	16500	10.5	60	6.3	0.00002
R	AP3	1	2016	16000	10.51	60	6.31	0.00002
R	AP3	1	2016	15500	10.53	60	6.32	0.00002
R	AP3	1	2016	15000	10.55	60	6.33	0.00002
R	AP3	1	2016	14500	10.56	60	6.34	0.00002
R	AP3	1	2016	14000	10.58	60	6.35	0.00002
R	AP3	1	2016	13500	10.6	60	6.36	0.00004
R	AP3	1	2016	13000	10.64	60	6.38	0.00002
R	AP3	1	2016	12500	10.65	60	6.39	0.00004
R	AP3	1	2016	12000	10.68	60	6.41	0.00002
R	AP3	1	2016	11500	10.7	60	6.42	0.00004
R	AP3	1	2016	11000	10.73	60	6.44	0.00002
R	AP3	1	2016	10500	10.75	60	6.45	0.00004
R	AP3	1	2016	10000	10.78	60	6.47	0.00002
R	AP3	1	2016	9500	10.8	60	6.48	0.00004
R	AP3	1	2016	9000	10.83	60	6.5	0.00006
R	AP3	1	2016	8500	10.89	60	6.53	0.00006
R	AP3	1	2016	8000	10.94	60	6.56	0.00006
R	AP3	1	2016	7500	10.98	60	6.59	0.00006
R	AP3	1	2016	7000	11.04	60	6.62	0.00008
R	AP3	1	2016	6500	11.1	60	6.66	0.00008
R	AP3	1	2016	6000	11.17	60	6.7	0.0001
R	AP3	1	2016	5500	11.25	60	6.75	0.0001
R	AP3	1	2016	5000	11.34	60	6.8	0.00012
R	AP3	1	2016	4750	11.38	60	6.83	0.00012
R	AP3	1	2016	4500	11.44	60	6.86	0.00012
R	AP3	1	2016	4250	11.48	60	6.89	0.0002
R	AP3	1	2016	4000	11.56	60	6.94	0.0002
R	AP3	1	2016	3750	11.65	60	6.99	0.00024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP3	1	2016	3500	11.75	60	7.05	0.0002
R	AP3	1	2016	3250	11.84	60	7.1	0.00024
R	AP3	1	2016	3000	11.93	60	7.16	0.0002
R	AP3	1	2016	2900	11.97	60	7.18	0.0002
R	AP3	1	2016	2800	12	60	7.2	0.0002
R	AP3	1	2016	2700	12.04	60	7.22	0.0003
R	AP3	1	2016	2600	12.08	60	7.25	0.0002
R	AP3	1	2016	2500	12.12	60	7.27	0.0002
R	AP3	1	2016	2400	12.15	60	7.29	0.0002
R	AP3	1	2016	2300	12.19	60	7.31	0.0004
R	AP3	1	2016	2200	12.25	60	7.35	0.0005
R	AP3	1	2016	2100	12.33	60	7.4	0.0004
R	AP3	1	2016	2000	12.4	60	7.44	0.0005
R	AP3	1	2016	1900	12.48	60	7.49	0.0005
R	AP3	1	2016	1800	12.56	60	7.54	0.0004
R	AP3	1	2016	1700	12.64	60	7.58	0.0005
R	AP3	1	2016	1600	12.72	60	7.63	0.0008
R	AP3	1	2016	1500	12.85	60	7.71	0.0008
R	AP3	1	2016	1400	12.98	60	7.79	0.0008
R	AP3	1	2016	1300	13.12	60	7.87	0.0009
R	AP3	1	2016	1200	13.26	60	7.96	0.0009
R	AP3	1	2016	1100	13.41	60	8.05	0.001
R	AP3	1	2016	1000	13.59	60	8.15	0.0018
R	AP3	1	2016	950	13.73	60	8.24	0.0016
R	AP3	1	2016	900	13.87	60	8.32	0.0018
R	AP3	1	2016	850	14.01	60	8.41	0.0018
R	AP3	1	2016	800	14.16	60	8.5	0.0018
R	AP3	1	2016	750	14.31	60	8.59	0.0018
R	AP3	1	2016	700	14.47	60	8.68	0.002
R	AP3	1	2016	650	14.64	60	8.78	0.002
R	AP3	1	2016	600	14.8	60	8.88	0.0034
R	AP3	1	2016	550	15.08	60	9.05	0.0042
R	AP3	1	2016	500	15.44	60	9.26	0.0048
R	AP3	1	2016	450	15.83	60	9.5	0.005
R	AP3	1	2016	400	16.25	60	9.75	0.0052
R	AP3	1	2016	350	16.69	60	10.01	0.0056
R	AP3	1	2016	300	17.15	60	10.29	0.0066
R	AP3	1	2016	250	17.7	60	10.62	0.0122
R	AP3	1	2016	200	18.72	60	11.23	0.0186
R	AP3	1	2016	150	20.27	60	12.16	0.0264
R	AP3	1	2016	100	22.47	60	13.48	0.0666
R	AP3	1	2016	50	28.01	60	16.81	11.174898
R	AP3	1	2016	1	940.63	60	564.38	0
R	AP3	2	2016	99999999	10.36	60	6.22	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	2	2016	22000	10.36	60	6.22	0
R	AP3	2	2016	21500	10.36	60	6.22	0
R	AP3	2	2016	21000	10.37	60	6.22	0.00002
R	AP3	2	2016	20500	10.39	60	6.23	0.00002
R	AP3	2	2016	20000	10.4	60	6.24	0.00002
R	AP3	2	2016	19500	10.41	60	6.25	0
R	AP3	2	2016	19000	10.42	60	6.25	0.00002
R	AP3	2	2016	18500	10.43	60	6.26	0.00002
R	AP3	2	2016	18000	10.45	60	6.27	0.00002
R	AP3	2	2016	17500	10.46	60	6.28	0.00002
R	AP3	2	2016	17000	10.48	60	6.29	0.00002
R	AP3	2	2016	16500	10.5	60	6.3	0.00002
R	AP3	2	2016	16000	10.51	60	6.31	0.00002
R	AP3	2	2016	15500	10.53	60	6.32	0.00002
R	AP3	2	2016	15000	10.55	60	6.33	0.00002
R	AP3	2	2016	14500	10.56	60	6.34	0.00002
R	AP3	2	2016	14000	10.58	60	6.35	0.00002
R	AP3	2	2016	13500	10.6	60	6.36	0.00004
R	AP3	2	2016	13000	10.64	60	6.38	0.00002
R	AP3	2	2016	12500	10.65	60	6.39	0.00004
R	AP3	2	2016	12000	10.68	60	6.41	0.00002
R	AP3	2	2016	11500	10.7	60	6.42	0.00004
R	AP3	2	2016	11000	10.73	60	6.44	0.00002
R	AP3	2	2016	10500	10.75	60	6.45	0.00004
R	AP3	2	2016	10000	10.78	60	6.47	0.00002
R	AP3	2	2016	9500	10.8	60	6.48	0.00004
R	AP3	2	2016	9000	10.83	60	6.5	0.00006
R	AP3	2	2016	8500	10.89	60	6.53	0.00006
R	AP3	2	2016	8000	10.94	60	6.56	0.00006
R	AP3	2	2016	7500	10.98	60	6.59	0.00006
R	AP3	2	2016	7000	11.04	60	6.62	0.00008
R	AP3	2	2016	6500	11.1	60	6.66	0.00008
R	AP3	2	2016	6000	11.17	60	6.7	0.0001
R	AP3	2	2016	5500	11.25	60	6.75	0.0001
R	AP3	2	2016	5000	11.34	60	6.8	0.00012
R	AP3	2	2016	4750	11.38	60	6.83	0.00012
R	AP3	2	2016	4500	11.44	60	6.86	0.00012
R	AP3	2	2016	4250	11.48	60	6.89	0.0002
R	AP3	2	2016	4000	11.56	60	6.94	0.0002
R	AP3	2	2016	3750	11.65	60	6.99	0.00024
R	AP3	2	2016	3500	11.75	60	7.05	0.0002
R	AP3	2	2016	3250	11.84	60	7.1	0.00024
R	AP3	2	2016	3000	11.93	60	7.16	0.0002
R	AP3	2	2016	2900	11.97	60	7.18	0.0002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	2	2016	2800	12	60	7.2	0.0002
R	AP3	2	2016	2700	12.04	60	7.22	0.0003
R	AP3	2	2016	2600	12.08	60	7.25	0.0002
R	AP3	2	2016	2500	12.12	60	7.27	0.0002
R	AP3	2	2016	2400	12.15	60	7.29	0.0002
R	AP3	2	2016	2300	12.19	60	7.31	0.0004
R	AP3	2	2016	2200	12.25	60	7.35	0.0005
R	AP3	2	2016	2100	12.33	60	7.4	0.0004
R	AP3	2	2016	2000	12.4	60	7.44	0.0005
R	AP3	2	2016	1900	12.48	60	7.49	0.0005
R	AP3	2	2016	1800	12.56	60	7.54	0.0004
R	AP3	2	2016	1700	12.64	60	7.58	0.0005
R	AP3	2	2016	1600	12.72	60	7.63	0.0008
R	AP3	2	2016	1500	12.85	60	7.71	0.0008
R	AP3	2	2016	1400	12.98	60	7.79	0.0008
R	AP3	2	2016	1300	13.12	60	7.87	0.0009
R	AP3	2	2016	1200	13.26	60	7.96	0.0009
R	AP3	2	2016	1100	13.41	60	8.05	0.001
R	AP3	2	2016	1000	13.59	60	8.15	0.0018
R	AP3	2	2016	950	13.73	60	8.24	0.0016
R	AP3	2	2016	900	13.87	60	8.32	0.0018
R	AP3	2	2016	850	14.01	60	8.41	0.0018
R	AP3	2	2016	800	14.16	60	8.5	0.0018
R	AP3	2	2016	750	14.31	60	8.59	0.0018
R	AP3	2	2016	700	14.47	60	8.68	0.002
R	AP3	2	2016	650	14.64	60	8.78	0.002
R	AP3	2	2016	600	14.8	60	8.88	0.0034
R	AP3	2	2016	550	15.08	60	9.05	0.0042
R	AP3	2	2016	500	15.44	60	9.26	0.0048
R	AP3	2	2016	450	15.83	60	9.5	0.005
R	AP3	2	2016	400	16.25	60	9.75	0.0052
R	AP3	2	2016	350	16.69	60	10.01	0.0056
R	AP3	2	2016	300	17.15	60	10.29	0.0066
R	AP3	2	2016	250	17.7	60	10.62	0.0122
R	AP3	2	2016	200	18.72	60	11.23	0.0186
R	AP3	2	2016	150	20.27	60	12.16	0.0264
R	AP3	2	2016	100	22.47	60	13.48	0.0666
R	AP3	2	2016	50	28.01	60	16.81	11.174898
R	AP3	2	2016	1	940.63	60	564.38	0
R	AP3	3	2016	99999999	10.36	60	6.22	0
R	AP3	3	2016	22000	10.36	60	6.22	0
R	AP3	3	2016	21500	10.36	60	6.22	0
R	AP3	3	2016	21000	10.37	60	6.22	0.00002
R	AP3	3	2016	20500	10.39	60	6.23	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	3	2016	20000	10.4	60	6.24	0.00002
R	AP3	3	2016	19500	10.41	60	6.25	0
R	AP3	3	2016	19000	10.42	60	6.25	0.00002
R	AP3	3	2016	18500	10.43	60	6.26	0.00002
R	AP3	3	2016	18000	10.45	60	6.27	0.00002
R	AP3	3	2016	17500	10.46	60	6.28	0.00002
R	AP3	3	2016	17000	10.48	60	6.29	0.00002
R	AP3	3	2016	16500	10.5	60	6.3	0.00002
R	AP3	3	2016	16000	10.51	60	6.31	0.00002
R	AP3	3	2016	15500	10.53	60	6.32	0.00002
R	AP3	3	2016	15000	10.55	60	6.33	0.00002
R	AP3	3	2016	14500	10.56	60	6.34	0.00002
R	AP3	3	2016	14000	10.58	60	6.35	0.00002
R	AP3	3	2016	13500	10.6	60	6.36	0.00004
R	AP3	3	2016	13000	10.64	60	6.38	0.00002
R	AP3	3	2016	12500	10.65	60	6.39	0.00004
R	AP3	3	2016	12000	10.68	60	6.41	0.00002
R	AP3	3	2016	11500	10.7	60	6.42	0.00004
R	AP3	3	2016	11000	10.73	60	6.44	0.00002
R	AP3	3	2016	10500	10.75	60	6.45	0.00004
R	AP3	3	2016	10000	10.78	60	6.47	0.00002
R	AP3	3	2016	9500	10.8	60	6.48	0.00004
R	AP3	3	2016	9000	10.83	60	6.5	0.00006
R	AP3	3	2016	8500	10.89	60	6.53	0.00006
R	AP3	3	2016	8000	10.94	60	6.56	0.00006
R	AP3	3	2016	7500	10.98	60	6.59	0.00006
R	AP3	3	2016	7000	11.04	60	6.62	0.00008
R	AP3	3	2016	6500	11.1	60	6.66	0.00008
R	AP3	3	2016	6000	11.17	60	6.7	0.0001
R	AP3	3	2016	5500	11.25	60	6.75	0.0001
R	AP3	3	2016	5000	11.34	60	6.8	0.00012
R	AP3	3	2016	4750	11.38	60	6.83	0.00012
R	AP3	3	2016	4500	11.44	60	6.86	0.00012
R	AP3	3	2016	4250	11.48	60	6.89	0.0002
R	AP3	3	2016	4000	11.56	60	6.94	0.0002
R	AP3	3	2016	3750	11.65	60	6.99	0.00024
R	AP3	3	2016	3500	11.75	60	7.05	0.0002
R	AP3	3	2016	3250	11.84	60	7.1	0.00024
R	AP3	3	2016	3000	11.93	60	7.16	0.0002
R	AP3	3	2016	2900	11.97	60	7.18	0.0002
R	AP3	3	2016	2800	12	60	7.2	0.0002
R	AP3	3	2016	2700	12.04	60	7.22	0.0003
R	AP3	3	2016	2600	12.08	60	7.25	0.0002
R	AP3	3	2016	2500	12.12	60	7.27	0.0002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	3	2016	2400	12.15	60	7.29	0.0002
R	AP3	3	2016	2300	12.19	60	7.31	0.0004
R	AP3	3	2016	2200	12.25	60	7.35	0.0005
R	AP3	3	2016	2100	12.33	60	7.4	0.0004
R	AP3	3	2016	2000	12.4	60	7.44	0.0005
R	AP3	3	2016	1900	12.48	60	7.49	0.0005
R	AP3	3	2016	1800	12.56	60	7.54	0.0004
R	AP3	3	2016	1700	12.64	60	7.58	0.0005
R	AP3	3	2016	1600	12.72	60	7.63	0.0008
R	AP3	3	2016	1500	12.85	60	7.71	0.0008
R	AP3	3	2016	1400	12.98	60	7.79	0.0008
R	AP3	3	2016	1300	13.12	60	7.87	0.0009
R	AP3	3	2016	1200	13.26	60	7.96	0.0009
R	AP3	3	2016	1100	13.41	60	8.05	0.001
R	AP3	3	2016	1000	13.59	60	8.15	0.0018
R	AP3	3	2016	950	13.73	60	8.24	0.0016
R	AP3	3	2016	900	13.87	60	8.32	0.0018
R	AP3	3	2016	850	14.01	60	8.41	0.0018
R	AP3	3	2016	800	14.16	60	8.5	0.0018
R	AP3	3	2016	750	14.31	60	8.59	0.0018
R	AP3	3	2016	700	14.47	60	8.68	0.002
R	AP3	3	2016	650	14.64	60	8.78	0.002
R	AP3	3	2016	600	14.8	60	8.88	0.0034
R	AP3	3	2016	550	15.08	60	9.05	0.0042
R	AP3	3	2016	500	15.44	60	9.26	0.0048
R	AP3	3	2016	450	15.83	60	9.5	0.005
R	AP3	3	2016	400	16.25	60	9.75	0.0052
R	AP3	3	2016	350	16.69	60	10.01	0.0056
R	AP3	3	2016	300	17.15	60	10.29	0.0066
R	AP3	3	2016	250	17.7	60	10.62	0.0122
R	AP3	3	2016	200	18.72	60	11.23	0.0186
R	AP3	3	2016	150	20.27	60	12.16	0.0264
R	AP3	3	2016	100	22.47	60	13.48	0.0666
R	AP3	3	2016	50	28.01	60	16.81	11.174898
R	AP3	3	2016	1	940.63	60	564.38	0
R	AP3	4	2016	99999999	10.36	71	7.36	0
R	AP3	4	2016	22000	10.36	71	7.36	0
R	AP3	4	2016	21500	10.36	71	7.36	0
R	AP3	4	2016	21000	10.37	71	7.36	0.00004
R	AP3	4	2016	20500	10.39	71	7.38	0
R	AP3	4	2016	20000	10.4	71	7.38	0.00002
R	AP3	4	2016	19500	10.41	71	7.39	0.00002
R	AP3	4	2016	19000	10.42	71	7.4	0.00002
R	AP3	4	2016	18500	10.43	71	7.41	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP3	4	2016	18000	10.45	71	7.42	0.00002
R	AP3	4	2016	17500	10.46	71	7.43	0.00002
R	AP3	4	2016	17000	10.48	71	7.44	0.00004
R	AP3	4	2016	16500	10.5	71	7.46	0
R	AP3	4	2016	16000	10.51	71	7.46	0.00004
R	AP3	4	2016	15500	10.53	71	7.48	0.00002
R	AP3	4	2016	15000	10.55	71	7.49	0.00002
R	AP3	4	2016	14500	10.56	71	7.5	0.00002
R	AP3	4	2016	14000	10.58	71	7.51	0.00004
R	AP3	4	2016	13500	10.6	71	7.53	0.00004
R	AP3	4	2016	13000	10.64	71	7.55	0.00002
R	AP3	4	2016	12500	10.65	71	7.56	0.00004
R	AP3	4	2016	12000	10.68	71	7.58	0.00004
R	AP3	4	2016	11500	10.7	71	7.6	0.00004
R	AP3	4	2016	11000	10.73	71	7.62	0.00002
R	AP3	4	2016	10500	10.75	71	7.63	0.00004
R	AP3	4	2016	10000	10.78	71	7.65	0.00004
R	AP3	4	2016	9500	10.8	71	7.67	0.00004
R	AP3	4	2016	9000	10.83	71	7.69	0.00008
R	AP3	4	2016	8500	10.89	71	7.73	0.00008
R	AP3	4	2016	8000	10.94	71	7.77	0.00006
R	AP3	4	2016	7500	10.98	71	7.8	0.00008
R	AP3	4	2016	7000	11.04	71	7.84	0.00008
R	AP3	4	2016	6500	11.1	71	7.88	0.0001
R	AP3	4	2016	6000	11.17	71	7.93	0.00012
R	AP3	4	2016	5500	11.25	71	7.99	0.00012
R	AP3	4	2016	5000	11.34	71	8.05	0.00012
R	AP3	4	2016	4750	11.38	71	8.08	0.00016
R	AP3	4	2016	4500	11.44	71	8.12	0.00012
R	AP3	4	2016	4250	11.48	71	8.15	0.00024
R	AP3	4	2016	4000	11.56	71	8.21	0.00024
R	AP3	4	2016	3750	11.65	71	8.27	0.00028
R	AP3	4	2016	3500	11.75	71	8.34	0.00028
R	AP3	4	2016	3250	11.84	71	8.41	0.00024
R	AP3	4	2016	3000	11.93	71	8.47	0.0003
R	AP3	4	2016	2900	11.97	71	8.5	0.0002
R	AP3	4	2016	2800	12	71	8.52	0.0003
R	AP3	4	2016	2700	12.04	71	8.55	0.0003
R	AP3	4	2016	2600	12.08	71	8.58	0.0003
R	AP3	4	2016	2500	12.12	71	8.61	0.0002
R	AP3	4	2016	2400	12.15	71	8.63	0.0002
R	AP3	4	2016	2300	12.19	71	8.65	0.0005
R	AP3	4	2016	2200	12.25	71	8.7	0.0005
R	AP3	4	2016	2100	12.33	71	8.75	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	4	2016	2000	12.4	71	8.8	0.0006
R	AP3	4	2016	1900	12.48	71	8.86	0.0006
R	AP3	4	2016	1800	12.56	71	8.92	0.0005
R	AP3	4	2016	1700	12.64	71	8.97	0.0006
R	AP3	4	2016	1600	12.72	71	9.03	0.0009
R	AP3	4	2016	1500	12.85	71	9.12	0.001
R	AP3	4	2016	1400	12.98	71	9.22	0.001
R	AP3	4	2016	1300	13.12	71	9.32	0.0009
R	AP3	4	2016	1200	13.26	71	9.41	0.0011
R	AP3	4	2016	1100	13.41	71	9.52	0.0013
R	AP3	4	2016	1000	13.59	71	9.65	0.002
R	AP3	4	2016	950	13.73	71	9.75	0.002
R	AP3	4	2016	900	13.87	71	9.85	0.002
R	AP3	4	2016	850	14.01	71	9.95	0.002
R	AP3	4	2016	800	14.16	71	10.05	0.0022
R	AP3	4	2016	750	14.31	71	10.16	0.0022
R	AP3	4	2016	700	14.47	71	10.27	0.0024
R	AP3	4	2016	650	14.64	71	10.39	0.0024
R	AP3	4	2016	600	14.8	71	10.51	0.004
R	AP3	4	2016	550	15.08	71	10.71	0.005
R	AP3	4	2016	500	15.44	71	10.96	0.0056
R	AP3	4	2016	450	15.83	71	11.24	0.006
R	AP3	4	2016	400	16.25	71	11.54	0.0062
R	AP3	4	2016	350	16.69	71	11.85	0.0066
R	AP3	4	2016	300	17.15	71	12.18	0.0078
R	AP3	4	2016	250	17.7	71	12.57	0.0144
R	AP3	4	2016	200	18.72	71	13.29	0.022
R	AP3	4	2016	150	20.27	71	14.39	0.0312
R	AP3	4	2016	100	22.47	71	15.95	0.0788
R	AP3	4	2016	50	28.01	71	19.89	13.223673
R	AP3	4	2016	1	940.63	71	667.85	0
R	AP3	5	2016	9999999	10.36	86	8.91	0
R	AP3	5	2016	22000	10.36	86	8.91	0
R	AP3	5	2016	21500	10.36	86	8.91	0.00002
R	AP3	5	2016	21000	10.37	86	8.92	0.00004
R	AP3	5	2016	20500	10.39	86	8.94	0
R	AP3	5	2016	20000	10.4	86	8.94	0.00002
R	AP3	5	2016	19500	10.41	86	8.95	0.00002
R	AP3	5	2016	19000	10.42	86	8.96	0.00002
R	AP3	5	2016	18500	10.43	86	8.97	0.00004
R	AP3	5	2016	18000	10.45	86	8.99	0.00002
R	AP3	5	2016	17500	10.46	86	9	0.00002
R	AP3	5	2016	17000	10.48	86	9.01	0.00004
R	AP3	5	2016	16500	10.5	86	9.03	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	5	2016	16000	10.51	86	9.04	0.00004
R	AP3	5	2016	15500	10.53	86	9.06	0.00002
R	AP3	5	2016	15000	10.55	86	9.07	0.00002
R	AP3	5	2016	14500	10.56	86	9.08	0.00004
R	AP3	5	2016	14000	10.58	86	9.1	0.00004
R	AP3	5	2016	13500	10.6	86	9.12	0.00006
R	AP3	5	2016	13000	10.64	86	9.15	0.00002
R	AP3	5	2016	12500	10.65	86	9.16	0.00004
R	AP3	5	2016	12000	10.68	86	9.18	0.00004
R	AP3	5	2016	11500	10.7	86	9.2	0.00006
R	AP3	5	2016	11000	10.73	86	9.23	0.00004
R	AP3	5	2016	10500	10.75	86	9.25	0.00004
R	AP3	5	2016	10000	10.78	86	9.27	0.00004
R	AP3	5	2016	9500	10.8	86	9.29	0.00004
R	AP3	5	2016	9000	10.83	86	9.31	0.00012
R	AP3	5	2016	8500	10.89	86	9.37	0.00008
R	AP3	5	2016	8000	10.94	86	9.41	0.00006
R	AP3	5	2016	7500	10.98	86	9.44	0.0001
R	AP3	5	2016	7000	11.04	86	9.49	0.00012
R	AP3	5	2016	6500	11.1	86	9.55	0.00012
R	AP3	5	2016	6000	11.17	86	9.61	0.00014
R	AP3	5	2016	5500	11.25	86	9.68	0.00014
R	AP3	5	2016	5000	11.34	86	9.75	0.00016
R	AP3	5	2016	4750	11.38	86	9.79	0.0002
R	AP3	5	2016	4500	11.44	86	9.84	0.00012
R	AP3	5	2016	4250	11.48	86	9.87	0.00028
R	AP3	5	2016	4000	11.56	86	9.94	0.00032
R	AP3	5	2016	3750	11.65	86	10.02	0.00036
R	AP3	5	2016	3500	11.75	86	10.11	0.00028
R	AP3	5	2016	3250	11.84	86	10.18	0.00032
R	AP3	5	2016	3000	11.93	86	10.26	0.0003
R	AP3	5	2016	2900	11.97	86	10.29	0.0003
R	AP3	5	2016	2800	12	86	10.32	0.0003
R	AP3	5	2016	2700	12.04	86	10.35	0.0004
R	AP3	5	2016	2600	12.08	86	10.39	0.0003
R	AP3	5	2016	2500	12.12	86	10.42	0.0003
R	AP3	5	2016	2400	12.15	86	10.45	0.0003
R	AP3	5	2016	2300	12.19	86	10.48	0.0006
R	AP3	5	2016	2200	12.25	86	10.54	0.0006
R	AP3	5	2016	2100	12.33	86	10.6	0.0006
R	AP3	5	2016	2000	12.4	86	10.66	0.0007
R	AP3	5	2016	1900	12.48	86	10.73	0.0007
R	AP3	5	2016	1800	12.56	86	10.8	0.0007
R	AP3	5	2016	1700	12.64	86	10.87	0.0007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	5	2016	1600	12.72	86	10.94	0.0011
R	AP3	5	2016	1500	12.85	86	11.05	0.0011
R	AP3	5	2016	1400	12.98	86	11.16	0.0012
R	AP3	5	2016	1300	13.12	86	11.28	0.0012
R	AP3	5	2016	1200	13.26	86	11.4	0.0013
R	AP3	5	2016	1100	13.41	86	11.53	0.0016
R	AP3	5	2016	1000	13.59	86	11.69	0.0024
R	AP3	5	2016	950	13.73	86	11.81	0.0024
R	AP3	5	2016	900	13.87	86	11.93	0.0024
R	AP3	5	2016	850	14.01	86	12.05	0.0026
R	AP3	5	2016	800	14.16	86	12.18	0.0026
R	AP3	5	2016	750	14.31	86	12.31	0.0026
R	AP3	5	2016	700	14.47	86	12.44	0.003
R	AP3	5	2016	650	14.64	86	12.59	0.0028
R	AP3	5	2016	600	14.8	86	12.73	0.0048
R	AP3	5	2016	550	15.08	86	12.97	0.0062
R	AP3	5	2016	500	15.44	86	13.28	0.0066
R	AP3	5	2016	450	15.83	86	13.61	0.0074
R	AP3	5	2016	400	16.25	86	13.98	0.0074
R	AP3	5	2016	350	16.69	86	14.35	0.008
R	AP3	5	2016	300	17.15	86	14.75	0.0094
R	AP3	5	2016	250	17.7	86	15.22	0.0176
R	AP3	5	2016	200	18.72	86	16.1	0.0266
R	AP3	5	2016	150	20.27	86	17.43	0.0378
R	AP3	5	2016	100	22.47	86	19.32	0.0954
R	AP3	5	2016	50	28.01	86	24.09	16.017347
R	AP3	5	2016	1	940.63	86	808.94	0
R	AP3	6	2016	99999999	10.36	86	8.91	0
R	AP3	6	2016	22000	10.36	86	8.91	0
R	AP3	6	2016	21500	10.36	86	8.91	0.00002
R	AP3	6	2016	21000	10.37	86	8.92	0.00004
R	AP3	6	2016	20500	10.39	86	8.94	0
R	AP3	6	2016	20000	10.4	86	8.94	0.00002
R	AP3	6	2016	19500	10.41	86	8.95	0.00002
R	AP3	6	2016	19000	10.42	86	8.96	0.00002
R	AP3	6	2016	18500	10.43	86	8.97	0.00004
R	AP3	6	2016	18000	10.45	86	8.99	0.00002
R	AP3	6	2016	17500	10.46	86	9	0.00002
R	AP3	6	2016	17000	10.48	86	9.01	0.00004
R	AP3	6	2016	16500	10.5	86	9.03	0.00002
R	AP3	6	2016	16000	10.51	86	9.04	0.00004
R	AP3	6	2016	15500	10.53	86	9.06	0.00002
R	AP3	6	2016	15000	10.55	86	9.07	0.00002
R	AP3	6	2016	14500	10.56	86	9.08	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	6	2016	14000	10.58	86	9.1	0.00004
R	AP3	6	2016	13500	10.6	86	9.12	0.00006
R	AP3	6	2016	13000	10.64	86	9.15	0.00002
R	AP3	6	2016	12500	10.65	86	9.16	0.00004
R	AP3	6	2016	12000	10.68	86	9.18	0.00004
R	AP3	6	2016	11500	10.7	86	9.2	0.00006
R	AP3	6	2016	11000	10.73	86	9.23	0.00004
R	AP3	6	2016	10500	10.75	86	9.25	0.00004
R	AP3	6	2016	10000	10.78	86	9.27	0.00004
R	AP3	6	2016	9500	10.8	86	9.29	0.00004
R	AP3	6	2016	9000	10.83	86	9.31	0.00012
R	AP3	6	2016	8500	10.89	86	9.37	0.00008
R	AP3	6	2016	8000	10.94	86	9.41	0.00006
R	AP3	6	2016	7500	10.98	86	9.44	0.0001
R	AP3	6	2016	7000	11.04	86	9.49	0.00012
R	AP3	6	2016	6500	11.1	86	9.55	0.00012
R	AP3	6	2016	6000	11.17	86	9.61	0.00014
R	AP3	6	2016	5500	11.25	86	9.68	0.00014
R	AP3	6	2016	5000	11.34	86	9.75	0.00016
R	AP3	6	2016	4750	11.38	86	9.79	0.0002
R	AP3	6	2016	4500	11.44	86	9.84	0.00012
R	AP3	6	2016	4250	11.48	86	9.87	0.00028
R	AP3	6	2016	4000	11.56	86	9.94	0.00032
R	AP3	6	2016	3750	11.65	86	10.02	0.00036
R	AP3	6	2016	3500	11.75	86	10.11	0.00028
R	AP3	6	2016	3250	11.84	86	10.18	0.00032
R	AP3	6	2016	3000	11.93	86	10.26	0.0003
R	AP3	6	2016	2900	11.97	86	10.29	0.0003
R	AP3	6	2016	2800	12	86	10.32	0.0003
R	AP3	6	2016	2700	12.04	86	10.35	0.0004
R	AP3	6	2016	2600	12.08	86	10.39	0.0003
R	AP3	6	2016	2500	12.12	86	10.42	0.0003
R	AP3	6	2016	2400	12.15	86	10.45	0.0003
R	AP3	6	2016	2300	12.19	86	10.48	0.0006
R	AP3	6	2016	2200	12.25	86	10.54	0.0006
R	AP3	6	2016	2100	12.33	86	10.6	0.0006
R	AP3	6	2016	2000	12.4	86	10.66	0.0007
R	AP3	6	2016	1900	12.48	86	10.73	0.0007
R	AP3	6	2016	1800	12.56	86	10.8	0.0007
R	AP3	6	2016	1700	12.64	86	10.87	0.0007
R	AP3	6	2016	1600	12.72	86	10.94	0.0011
R	AP3	6	2016	1500	12.85	86	11.05	0.0011
R	AP3	6	2016	1400	12.98	86	11.16	0.0012
R	AP3	6	2016	1300	13.12	86	11.28	0.0012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	6	2016	1200	13.26	86	11.4	0.0013
R	AP3	6	2016	1100	13.41	86	11.53	0.0016
R	AP3	6	2016	1000	13.59	86	11.69	0.0024
R	AP3	6	2016	950	13.73	86	11.81	0.0024
R	AP3	6	2016	900	13.87	86	11.93	0.0024
R	AP3	6	2016	850	14.01	86	12.05	0.0026
R	AP3	6	2016	800	14.16	86	12.18	0.0026
R	AP3	6	2016	750	14.31	86	12.31	0.0026
R	AP3	6	2016	700	14.47	86	12.44	0.003
R	AP3	6	2016	650	14.64	86	12.59	0.0028
R	AP3	6	2016	600	14.8	86	12.73	0.0048
R	AP3	6	2016	550	15.08	86	12.97	0.0062
R	AP3	6	2016	500	15.44	86	13.28	0.0066
R	AP3	6	2016	450	15.83	86	13.61	0.0074
R	AP3	6	2016	400	16.25	86	13.98	0.0074
R	AP3	6	2016	350	16.69	86	14.35	0.008
R	AP3	6	2016	300	17.15	86	14.75	0.0094
R	AP3	6	2016	250	17.7	86	15.22	0.0176
R	AP3	6	2016	200	18.72	86	16.1	0.0266
R	AP3	6	2016	150	20.27	86	17.43	0.0378
R	AP3	6	2016	100	22.47	86	19.32	0.0954
R	AP3	6	2016	50	28.01	86	24.09	16.017347
R	AP3	6	2016	1	940.63	86	808.94	0
R	AP3	7	2016	99999999	10.36	86	8.91	0
R	AP3	7	2016	22000	10.36	86	8.91	0
R	AP3	7	2016	21500	10.36	86	8.91	0.00002
R	AP3	7	2016	21000	10.37	86	8.92	0.00004
R	AP3	7	2016	20500	10.39	86	8.94	0
R	AP3	7	2016	20000	10.4	86	8.94	0.00002
R	AP3	7	2016	19500	10.41	86	8.95	0.00002
R	AP3	7	2016	19000	10.42	86	8.96	0.00002
R	AP3	7	2016	18500	10.43	86	8.97	0.00004
R	AP3	7	2016	18000	10.45	86	8.99	0.00002
R	AP3	7	2016	17500	10.46	86	9	0.00002
R	AP3	7	2016	17000	10.48	86	9.01	0.00004
R	AP3	7	2016	16500	10.5	86	9.03	0.00002
R	AP3	7	2016	16000	10.51	86	9.04	0.00004
R	AP3	7	2016	15500	10.53	86	9.06	0.00002
R	AP3	7	2016	15000	10.55	86	9.07	0.00002
R	AP3	7	2016	14500	10.56	86	9.08	0.00004
R	AP3	7	2016	14000	10.58	86	9.1	0.00004
R	AP3	7	2016	13500	10.6	86	9.12	0.00006
R	AP3	7	2016	13000	10.64	86	9.15	0.00002
R	AP3	7	2016	12500	10.65	86	9.16	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	7	2016	12000	10.68	86	9.18	0.00004
R	AP3	7	2016	11500	10.7	86	9.2	0.00006
R	AP3	7	2016	11000	10.73	86	9.23	0.00004
R	AP3	7	2016	10500	10.75	86	9.25	0.00004
R	AP3	7	2016	10000	10.78	86	9.27	0.00004
R	AP3	7	2016	9500	10.8	86	9.29	0.00004
R	AP3	7	2016	9000	10.83	86	9.31	0.00012
R	AP3	7	2016	8500	10.89	86	9.37	0.00008
R	AP3	7	2016	8000	10.94	86	9.41	0.00006
R	AP3	7	2016	7500	10.98	86	9.44	0.0001
R	AP3	7	2016	7000	11.04	86	9.49	0.00012
R	AP3	7	2016	6500	11.1	86	9.55	0.00012
R	AP3	7	2016	6000	11.17	86	9.61	0.00014
R	AP3	7	2016	5500	11.25	86	9.68	0.00014
R	AP3	7	2016	5000	11.34	86	9.75	0.00016
R	AP3	7	2016	4750	11.38	86	9.79	0.0002
R	AP3	7	2016	4500	11.44	86	9.84	0.00012
R	AP3	7	2016	4250	11.48	86	9.87	0.00028
R	AP3	7	2016	4000	11.56	86	9.94	0.00032
R	AP3	7	2016	3750	11.65	86	10.02	0.00036
R	AP3	7	2016	3500	11.75	86	10.11	0.00028
R	AP3	7	2016	3250	11.84	86	10.18	0.00032
R	AP3	7	2016	3000	11.93	86	10.26	0.0003
R	AP3	7	2016	2900	11.97	86	10.29	0.0003
R	AP3	7	2016	2800	12	86	10.32	0.0003
R	AP3	7	2016	2700	12.04	86	10.35	0.0004
R	AP3	7	2016	2600	12.08	86	10.39	0.0003
R	AP3	7	2016	2500	12.12	86	10.42	0.0003
R	AP3	7	2016	2400	12.15	86	10.45	0.0003
R	AP3	7	2016	2300	12.19	86	10.48	0.0006
R	AP3	7	2016	2200	12.25	86	10.54	0.0006
R	AP3	7	2016	2100	12.33	86	10.6	0.0006
R	AP3	7	2016	2000	12.4	86	10.66	0.0007
R	AP3	7	2016	1900	12.48	86	10.73	0.0007
R	AP3	7	2016	1800	12.56	86	10.8	0.0007
R	AP3	7	2016	1700	12.64	86	10.87	0.0007
R	AP3	7	2016	1600	12.72	86	10.94	0.0011
R	AP3	7	2016	1500	12.85	86	11.05	0.0011
R	AP3	7	2016	1400	12.98	86	11.16	0.0012
R	AP3	7	2016	1300	13.12	86	11.28	0.0012
R	AP3	7	2016	1200	13.26	86	11.4	0.0013
R	AP3	7	2016	1100	13.41	86	11.53	0.0016
R	AP3	7	2016	1000	13.59	86	11.69	0.0024
R	AP3	7	2016	950	13.73	86	11.81	0.0024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP3	7	2016	900	13.87	86	11.93	0.0024
R	AP3	7	2016	850	14.01	86	12.05	0.0026
R	AP3	7	2016	800	14.16	86	12.18	0.0026
R	AP3	7	2016	750	14.31	86	12.31	0.0026
R	AP3	7	2016	700	14.47	86	12.44	0.003
R	AP3	7	2016	650	14.64	86	12.59	0.0028
R	AP3	7	2016	600	14.8	86	12.73	0.0048
R	AP3	7	2016	550	15.08	86	12.97	0.0062
R	AP3	7	2016	500	15.44	86	13.28	0.0066
R	AP3	7	2016	450	15.83	86	13.61	0.0074
R	AP3	7	2016	400	16.25	86	13.98	0.0074
R	AP3	7	2016	350	16.69	86	14.35	0.008
R	AP3	7	2016	300	17.15	86	14.75	0.0094
R	AP3	7	2016	250	17.7	86	15.22	0.0176
R	AP3	7	2016	200	18.72	86	16.1	0.0266
R	AP3	7	2016	150	20.27	86	17.43	0.0378
R	AP3	7	2016	100	22.47	86	19.32	0.0954
R	AP3	7	2016	50	28.01	86	24.09	16.017347
R	AP3	7	2016	1	940.63	86	808.94	0
R	AP3	*	2016	99999999	10.36	71	7.36	0
R	AP3	*	2016	22000	10.36	71	7.36	0
R	AP3	*	2016	21500	10.36	71	7.36	0
R	AP3	*	2016	21000	10.37	71	7.36	0.00004
R	AP3	*	2016	20500	10.39	71	7.38	0
R	AP3	*	2016	20000	10.4	71	7.38	0.00002
R	AP3	*	2016	19500	10.41	71	7.39	0.00002
R	AP3	*	2016	19000	10.42	71	7.4	0.00002
R	AP3	*	2016	18500	10.43	71	7.41	0.00002
R	AP3	*	2016	18000	10.45	71	7.42	0.00002
R	AP3	*	2016	17500	10.46	71	7.43	0.00002
R	AP3	*	2016	17000	10.48	71	7.44	0.00004
R	AP3	*	2016	16500	10.5	71	7.46	0
R	AP3	*	2016	16000	10.51	71	7.46	0.00004
R	AP3	*	2016	15500	10.53	71	7.48	0.00002
R	AP3	*	2016	15000	10.55	71	7.49	0.00002
R	AP3	*	2016	14500	10.56	71	7.5	0.00002
R	AP3	*	2016	14000	10.58	71	7.51	0.00004
R	AP3	*	2016	13500	10.6	71	7.53	0.00004
R	AP3	*	2016	13000	10.64	71	7.55	0.00002
R	AP3	*	2016	12500	10.65	71	7.56	0.00004
R	AP3	*	2016	12000	10.68	71	7.58	0.00004
R	AP3	*	2016	11500	10.7	71	7.6	0.00004
R	AP3	*	2016	11000	10.73	71	7.62	0.00002
R	AP3	*	2016	10500	10.75	71	7.63	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	*	2016	10000	10.78	71	7.65	0.00004
R	AP3	*	2016	9500	10.8	71	7.67	0.00004
R	AP3	*	2016	9000	10.83	71	7.69	0.00008
R	AP3	*	2016	8500	10.89	71	7.73	0.00008
R	AP3	*	2016	8000	10.94	71	7.77	0.00006
R	AP3	*	2016	7500	10.98	71	7.8	0.00008
R	AP3	*	2016	7000	11.04	71	7.84	0.00008
R	AP3	*	2016	6500	11.1	71	7.88	0.0001
R	AP3	*	2016	6000	11.17	71	7.93	0.00012
R	AP3	*	2016	5500	11.25	71	7.99	0.00012
R	AP3	*	2016	5000	11.34	71	8.05	0.00012
R	AP3	*	2016	4750	11.38	71	8.08	0.00016
R	AP3	*	2016	4500	11.44	71	8.12	0.00012
R	AP3	*	2016	4250	11.48	71	8.15	0.00024
R	AP3	*	2016	4000	11.56	71	8.21	0.00024
R	AP3	*	2016	3750	11.65	71	8.27	0.00028
R	AP3	*	2016	3500	11.75	71	8.34	0.00028
R	AP3	*	2016	3250	11.84	71	8.41	0.00024
R	AP3	*	2016	3000	11.93	71	8.47	0.0003
R	AP3	*	2016	2900	11.97	71	8.5	0.0002
R	AP3	*	2016	2800	12	71	8.52	0.0003
R	AP3	*	2016	2700	12.04	71	8.55	0.0003
R	AP3	*	2016	2600	12.08	71	8.58	0.0003
R	AP3	*	2016	2500	12.12	71	8.61	0.0002
R	AP3	*	2016	2400	12.15	71	8.63	0.0002
R	AP3	*	2016	2300	12.19	71	8.65	0.0005
R	AP3	*	2016	2200	12.25	71	8.7	0.0005
R	AP3	*	2016	2100	12.33	71	8.75	0.0005
R	AP3	*	2016	2000	12.4	71	8.8	0.0006
R	AP3	*	2016	1900	12.48	71	8.86	0.0006
R	AP3	*	2016	1800	12.56	71	8.92	0.0005
R	AP3	*	2016	1700	12.64	71	8.97	0.0006
R	AP3	*	2016	1600	12.72	71	9.03	0.0009
R	AP3	*	2016	1500	12.85	71	9.12	0.001
R	AP3	*	2016	1400	12.98	71	9.22	0.001
R	AP3	*	2016	1300	13.12	71	9.32	0.0009
R	AP3	*	2016	1200	13.26	71	9.41	0.0011
R	AP3	*	2016	1100	13.41	71	9.52	0.0013
R	AP3	*	2016	1000	13.59	71	9.65	0.002
R	AP3	*	2016	950	13.73	71	9.75	0.002
R	AP3	*	2016	900	13.87	71	9.85	0.002
R	AP3	*	2016	850	14.01	71	9.95	0.002
R	AP3	*	2016	800	14.16	71	10.05	0.0022
R	AP3	*	2016	750	14.31	71	10.16	0.0022

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP3	*	2016	700	14.47	71	10.27	0.0024
R	AP3	*	2016	650	14.64	71	10.39	0.0024
R	AP3	*	2016	600	14.8	71	10.51	0.004
R	AP3	*	2016	550	15.08	71	10.71	0.005
R	AP3	*	2016	500	15.44	71	10.96	0.0056
R	AP3	*	2016	450	15.83	71	11.24	0.006
R	AP3	*	2016	400	16.25	71	11.54	0.0062
R	AP3	*	2016	350	16.69	71	11.85	0.0066
R	AP3	*	2016	300	17.15	71	12.18	0.0078
R	AP3	*	2016	250	17.7	71	12.57	0.0144
R	AP3	*	2016	200	18.72	71	13.29	0.022
R	AP3	*	2016	150	20.27	71	14.39	0.0312
R	AP3	*	2016	100	22.47	71	15.95	0.0788
R	AP3	*	2016	50	28.01	71	19.89	13.223673
R	AP3	*	2016	1	940.63	71	667.85	0
R	AP4	1	2016	99999999	10.11	60	6.07	0
R	AP4	1	2016	22000	10.11	60	6.07	0
R	AP4	1	2016	21500	10.12	60	6.07	0.00002
R	AP4	1	2016	21000	10.13	60	6.08	0
R	AP4	1	2016	20500	10.14	60	6.08	0.00002
R	AP4	1	2016	20000	10.15	60	6.09	0.00002
R	AP4	1	2016	19500	10.16	60	6.1	0.00002
R	AP4	1	2016	19000	10.18	60	6.11	0
R	AP4	1	2016	18500	10.19	60	6.11	0.00004
R	AP4	1	2016	18000	10.21	60	6.13	0
R	AP4	1	2016	17500	10.22	60	6.13	0.00002
R	AP4	1	2016	17000	10.23	60	6.14	0.00002
R	AP4	1	2016	16500	10.25	60	6.15	0.00002
R	AP4	1	2016	16000	10.26	60	6.16	0.00002
R	AP4	1	2016	15500	10.28	60	6.17	0
R	AP4	1	2016	15000	10.29	60	6.17	0.00004
R	AP4	1	2016	14500	10.32	60	6.19	0.00002
R	AP4	1	2016	14000	10.33	60	6.2	0.00002
R	AP4	1	2016	13500	10.35	60	6.21	0.00004
R	AP4	1	2016	13000	10.38	60	6.23	0.00002
R	AP4	1	2016	12500	10.4	60	6.24	0.00004
R	AP4	1	2016	12000	10.43	60	6.26	0.00002
R	AP4	1	2016	11500	10.45	60	6.27	0.00002
R	AP4	1	2016	11000	10.47	60	6.28	0.00002
R	AP4	1	2016	10500	10.49	60	6.29	0.00004
R	AP4	1	2016	10000	10.52	60	6.31	0.00004
R	AP4	1	2016	9500	10.55	60	6.33	0.00004
R	AP4	1	2016	9000	10.58	60	6.35	0.00006
R	AP4	1	2016	8500	10.63	60	6.38	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	1	2016	8000	10.68	60	6.41	0.00004
R	AP4	1	2016	7500	10.72	60	6.43	0.00008
R	AP4	1	2016	7000	10.78	60	6.47	0.00006
R	AP4	1	2016	6500	10.83	60	6.5	0.00008
R	AP4	1	2016	6000	10.9	60	6.54	0.0001
R	AP4	1	2016	5500	10.99	60	6.59	0.0001
R	AP4	1	2016	5000	11.07	60	6.64	0.00012
R	AP4	1	2016	4750	11.12	60	6.67	0.00012
R	AP4	1	2016	4500	11.17	60	6.7	0.00012
R	AP4	1	2016	4250	11.22	60	6.73	0.00016
R	AP4	1	2016	4000	11.28	60	6.77	0.0002
R	AP4	1	2016	3750	11.37	60	6.82	0.00024
R	AP4	1	2016	3500	11.47	60	6.88	0.00024
R	AP4	1	2016	3250	11.56	60	6.94	0.00024
R	AP4	1	2016	3000	11.66	60	7	0.0001
R	AP4	1	2016	2900	11.69	60	7.01	0.0002
R	AP4	1	2016	2800	11.72	60	7.03	0.0003
R	AP4	1	2016	2700	11.76	60	7.06	0.0002
R	AP4	1	2016	2600	11.8	60	7.08	0.0002
R	AP4	1	2016	2500	11.83	60	7.1	0.0002
R	AP4	1	2016	2400	11.86	60	7.12	0.0002
R	AP4	1	2016	2300	11.9	60	7.14	0.0004
R	AP4	1	2016	2200	11.97	60	7.18	0.0004
R	AP4	1	2016	2100	12.03	60	7.22	0.0005
R	AP4	1	2016	2000	12.11	60	7.27	0.0004
R	AP4	1	2016	1900	12.19	60	7.31	0.0005
R	AP4	1	2016	1800	12.27	60	7.36	0.0004
R	AP4	1	2016	1700	12.34	60	7.4	0.0005
R	AP4	1	2016	1600	12.42	60	7.45	0.0008
R	AP4	1	2016	1500	12.55	60	7.53	0.0007
R	AP4	1	2016	1400	12.67	60	7.6	0.0009
R	AP4	1	2016	1300	12.81	60	7.69	0.0007
R	AP4	1	2016	1200	12.94	60	7.76	0.0009
R	AP4	1	2016	1100	13.09	60	7.85	0.0011
R	AP4	1	2016	1000	13.27	60	7.96	0.0018
R	AP4	1	2016	950	13.41	60	8.05	0.0016
R	AP4	1	2016	900	13.55	60	8.13	0.0016
R	AP4	1	2016	850	13.68	60	8.21	0.0018
R	AP4	1	2016	800	13.83	60	8.3	0.0018
R	AP4	1	2016	750	13.98	60	8.39	0.0016
R	AP4	1	2016	700	14.12	60	8.47	0.002
R	AP4	1	2016	650	14.29	60	8.57	0.002
R	AP4	1	2016	600	14.45	60	8.67	0.0032
R	AP4	1	2016	550	14.72	60	8.83	0.0044

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	1	2016	500	15.08	60	9.05	0.0046
R	AP4	1	2016	450	15.46	60	9.28	0.0048
R	AP4	1	2016	400	15.86	60	9.52	0.005
R	AP4	1	2016	350	16.29	60	9.77	0.0054
R	AP4	1	2016	300	16.74	60	10.04	0.0066
R	AP4	1	2016	250	17.28	60	10.37	0.012
R	AP4	1	2016	200	18.28	60	10.97	0.0182
R	AP4	1	2016	150	19.8	60	11.88	0.0256
R	AP4	1	2016	100	21.94	60	13.16	0.0648
R	AP4	1	2016	50	27.34	60	16.4	11.183265
R	AP4	1	2016	1	940.63	60	564.38	0
R	AP4	2	2016	99999999	10.11	60	6.07	0
R	AP4	2	2016	22000	10.11	60	6.07	0
R	AP4	2	2016	21500	10.12	60	6.07	0.00002
R	AP4	2	2016	21000	10.13	60	6.08	0
R	AP4	2	2016	20500	10.14	60	6.08	0.00002
R	AP4	2	2016	20000	10.15	60	6.09	0.00002
R	AP4	2	2016	19500	10.16	60	6.1	0.00002
R	AP4	2	2016	19000	10.18	60	6.11	0
R	AP4	2	2016	18500	10.19	60	6.11	0.00004
R	AP4	2	2016	18000	10.21	60	6.13	0
R	AP4	2	2016	17500	10.22	60	6.13	0.00002
R	AP4	2	2016	17000	10.23	60	6.14	0.00002
R	AP4	2	2016	16500	10.25	60	6.15	0.00002
R	AP4	2	2016	16000	10.26	60	6.16	0.00002
R	AP4	2	2016	15500	10.28	60	6.17	0
R	AP4	2	2016	15000	10.29	60	6.17	0.00004
R	AP4	2	2016	14500	10.32	60	6.19	0.00002
R	AP4	2	2016	14000	10.33	60	6.2	0.00002
R	AP4	2	2016	13500	10.35	60	6.21	0.00004
R	AP4	2	2016	13000	10.38	60	6.23	0.00002
R	AP4	2	2016	12500	10.4	60	6.24	0.00004
R	AP4	2	2016	12000	10.43	60	6.26	0.00002
R	AP4	2	2016	11500	10.45	60	6.27	0.00002
R	AP4	2	2016	11000	10.47	60	6.28	0.00002
R	AP4	2	2016	10500	10.49	60	6.29	0.00004
R	AP4	2	2016	10000	10.52	60	6.31	0.00004
R	AP4	2	2016	9500	10.55	60	6.33	0.00004
R	AP4	2	2016	9000	10.58	60	6.35	0.00006
R	AP4	2	2016	8500	10.63	60	6.38	0.00006
R	AP4	2	2016	8000	10.68	60	6.41	0.00004
R	AP4	2	2016	7500	10.72	60	6.43	0.00008
R	AP4	2	2016	7000	10.78	60	6.47	0.00006
R	AP4	2	2016	6500	10.83	60	6.5	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	2	2016	6000	10.9	60	6.54	0.0001
R	AP4	2	2016	5500	10.99	60	6.59	0.0001
R	AP4	2	2016	5000	11.07	60	6.64	0.00012
R	AP4	2	2016	4750	11.12	60	6.67	0.00012
R	AP4	2	2016	4500	11.17	60	6.7	0.00012
R	AP4	2	2016	4250	11.22	60	6.73	0.00016
R	AP4	2	2016	4000	11.28	60	6.77	0.0002
R	AP4	2	2016	3750	11.37	60	6.82	0.00024
R	AP4	2	2016	3500	11.47	60	6.88	0.00024
R	AP4	2	2016	3250	11.56	60	6.94	0.00024
R	AP4	2	2016	3000	11.66	60	7	0.0001
R	AP4	2	2016	2900	11.69	60	7.01	0.0002
R	AP4	2	2016	2800	11.72	60	7.03	0.0003
R	AP4	2	2016	2700	11.76	60	7.06	0.0002
R	AP4	2	2016	2600	11.8	60	7.08	0.0002
R	AP4	2	2016	2500	11.83	60	7.1	0.0002
R	AP4	2	2016	2400	11.86	60	7.12	0.0002
R	AP4	2	2016	2300	11.9	60	7.14	0.0004
R	AP4	2	2016	2200	11.97	60	7.18	0.0004
R	AP4	2	2016	2100	12.03	60	7.22	0.0005
R	AP4	2	2016	2000	12.11	60	7.27	0.0004
R	AP4	2	2016	1900	12.19	60	7.31	0.0005
R	AP4	2	2016	1800	12.27	60	7.36	0.0004
R	AP4	2	2016	1700	12.34	60	7.4	0.0005
R	AP4	2	2016	1600	12.42	60	7.45	0.0008
R	AP4	2	2016	1500	12.55	60	7.53	0.0007
R	AP4	2	2016	1400	12.67	60	7.6	0.0009
R	AP4	2	2016	1300	12.81	60	7.69	0.0007
R	AP4	2	2016	1200	12.94	60	7.76	0.0009
R	AP4	2	2016	1100	13.09	60	7.85	0.0011
R	AP4	2	2016	1000	13.27	60	7.96	0.0018
R	AP4	2	2016	950	13.41	60	8.05	0.0016
R	AP4	2	2016	900	13.55	60	8.13	0.0016
R	AP4	2	2016	850	13.68	60	8.21	0.0018
R	AP4	2	2016	800	13.83	60	8.3	0.0018
R	AP4	2	2016	750	13.98	60	8.39	0.0016
R	AP4	2	2016	700	14.12	60	8.47	0.002
R	AP4	2	2016	650	14.29	60	8.57	0.002
R	AP4	2	2016	600	14.45	60	8.67	0.0032
R	AP4	2	2016	550	14.72	60	8.83	0.0044
R	AP4	2	2016	500	15.08	60	9.05	0.0046
R	AP4	2	2016	450	15.46	60	9.28	0.0048
R	AP4	2	2016	400	15.86	60	9.52	0.005
R	AP4	2	2016	350	16.29	60	9.77	0.0054

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	2	2016	300	16.74	60	10.04	0.0066
R	AP4	2	2016	250	17.28	60	10.37	0.012
R	AP4	2	2016	200	18.28	60	10.97	0.0182
R	AP4	2	2016	150	19.8	60	11.88	0.0256
R	AP4	2	2016	100	21.94	60	13.16	0.0648
R	AP4	2	2016	50	27.34	60	16.4	11.183265
R	AP4	2	2016	1	940.63	60	564.38	0
R	AP4	3	2016	99999999	10.11	60	6.07	0
R	AP4	3	2016	22000	10.11	60	6.07	0
R	AP4	3	2016	21500	10.12	60	6.07	0.00002
R	AP4	3	2016	21000	10.13	60	6.08	0
R	AP4	3	2016	20500	10.14	60	6.08	0.00002
R	AP4	3	2016	20000	10.15	60	6.09	0.00002
R	AP4	3	2016	19500	10.16	60	6.1	0.00002
R	AP4	3	2016	19000	10.18	60	6.11	0
R	AP4	3	2016	18500	10.19	60	6.11	0.00004
R	AP4	3	2016	18000	10.21	60	6.13	0
R	AP4	3	2016	17500	10.22	60	6.13	0.00002
R	AP4	3	2016	17000	10.23	60	6.14	0.00002
R	AP4	3	2016	16500	10.25	60	6.15	0.00002
R	AP4	3	2016	16000	10.26	60	6.16	0.00002
R	AP4	3	2016	15500	10.28	60	6.17	0
R	AP4	3	2016	15000	10.29	60	6.17	0.00004
R	AP4	3	2016	14500	10.32	60	6.19	0.00002
R	AP4	3	2016	14000	10.33	60	6.2	0.00002
R	AP4	3	2016	13500	10.35	60	6.21	0.00004
R	AP4	3	2016	13000	10.38	60	6.23	0.00002
R	AP4	3	2016	12500	10.4	60	6.24	0.00004
R	AP4	3	2016	12000	10.43	60	6.26	0.00002
R	AP4	3	2016	11500	10.45	60	6.27	0.00002
R	AP4	3	2016	11000	10.47	60	6.28	0.00002
R	AP4	3	2016	10500	10.49	60	6.29	0.00004
R	AP4	3	2016	10000	10.52	60	6.31	0.00004
R	AP4	3	2016	9500	10.55	60	6.33	0.00004
R	AP4	3	2016	9000	10.58	60	6.35	0.00006
R	AP4	3	2016	8500	10.63	60	6.38	0.00006
R	AP4	3	2016	8000	10.68	60	6.41	0.00004
R	AP4	3	2016	7500	10.72	60	6.43	0.00008
R	AP4	3	2016	7000	10.78	60	6.47	0.00006
R	AP4	3	2016	6500	10.83	60	6.5	0.00008
R	AP4	3	2016	6000	10.9	60	6.54	0.0001
R	AP4	3	2016	5500	10.99	60	6.59	0.0001
R	AP4	3	2016	5000	11.07	60	6.64	0.00012
R	AP4	3	2016	4750	11.12	60	6.67	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	3	2016	4500	11.17	60	6.7	0.00012
R	AP4	3	2016	4250	11.22	60	6.73	0.00016
R	AP4	3	2016	4000	11.28	60	6.77	0.0002
R	AP4	3	2016	3750	11.37	60	6.82	0.00024
R	AP4	3	2016	3500	11.47	60	6.88	0.00024
R	AP4	3	2016	3250	11.56	60	6.94	0.00024
R	AP4	3	2016	3000	11.66	60	7	0.0001
R	AP4	3	2016	2900	11.69	60	7.01	0.0002
R	AP4	3	2016	2800	11.72	60	7.03	0.0003
R	AP4	3	2016	2700	11.76	60	7.06	0.0002
R	AP4	3	2016	2600	11.8	60	7.08	0.0002
R	AP4	3	2016	2500	11.83	60	7.1	0.0002
R	AP4	3	2016	2400	11.86	60	7.12	0.0002
R	AP4	3	2016	2300	11.9	60	7.14	0.0004
R	AP4	3	2016	2200	11.97	60	7.18	0.0004
R	AP4	3	2016	2100	12.03	60	7.22	0.0005
R	AP4	3	2016	2000	12.11	60	7.27	0.0004
R	AP4	3	2016	1900	12.19	60	7.31	0.0005
R	AP4	3	2016	1800	12.27	60	7.36	0.0004
R	AP4	3	2016	1700	12.34	60	7.4	0.0005
R	AP4	3	2016	1600	12.42	60	7.45	0.0008
R	AP4	3	2016	1500	12.55	60	7.53	0.0007
R	AP4	3	2016	1400	12.67	60	7.6	0.0009
R	AP4	3	2016	1300	12.81	60	7.69	0.0007
R	AP4	3	2016	1200	12.94	60	7.76	0.0009
R	AP4	3	2016	1100	13.09	60	7.85	0.0011
R	AP4	3	2016	1000	13.27	60	7.96	0.0018
R	AP4	3	2016	950	13.41	60	8.05	0.0016
R	AP4	3	2016	900	13.55	60	8.13	0.0016
R	AP4	3	2016	850	13.68	60	8.21	0.0018
R	AP4	3	2016	800	13.83	60	8.3	0.0018
R	AP4	3	2016	750	13.98	60	8.39	0.0016
R	AP4	3	2016	700	14.12	60	8.47	0.002
R	AP4	3	2016	650	14.29	60	8.57	0.002
R	AP4	3	2016	600	14.45	60	8.67	0.0032
R	AP4	3	2016	550	14.72	60	8.83	0.0044
R	AP4	3	2016	500	15.08	60	9.05	0.0046
R	AP4	3	2016	450	15.46	60	9.28	0.0048
R	AP4	3	2016	400	15.86	60	9.52	0.005
R	AP4	3	2016	350	16.29	60	9.77	0.0054
R	AP4	3	2016	300	16.74	60	10.04	0.0066
R	AP4	3	2016	250	17.28	60	10.37	0.012
R	AP4	3	2016	200	18.28	60	10.97	0.0182
R	AP4	3	2016	150	19.8	60	11.88	0.0256

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	3	2016	100	21.94	60	13.16	0.0648
R	AP4	3	2016	50	27.34	60	16.4	11.183265
R	AP4	3	2016	1	940.63	60	564.38	0
R	AP4	4	2016	99999999	10.11	71	7.18	0
R	AP4	4	2016	22000	10.11	71	7.18	0.00002
R	AP4	4	2016	21500	10.12	71	7.19	0
R	AP4	4	2016	21000	10.13	71	7.19	0.00002
R	AP4	4	2016	20500	10.14	71	7.2	0.00002
R	AP4	4	2016	20000	10.15	71	7.21	0
R	AP4	4	2016	19500	10.16	71	7.21	0.00004
R	AP4	4	2016	19000	10.18	71	7.23	0
R	AP4	4	2016	18500	10.19	71	7.23	0.00004
R	AP4	4	2016	18000	10.21	71	7.25	0.00002
R	AP4	4	2016	17500	10.22	71	7.26	0
R	AP4	4	2016	17000	10.23	71	7.26	0.00004
R	AP4	4	2016	16500	10.25	71	7.28	0
R	AP4	4	2016	16000	10.26	71	7.28	0.00004
R	AP4	4	2016	15500	10.28	71	7.3	0.00002
R	AP4	4	2016	15000	10.29	71	7.31	0.00004
R	AP4	4	2016	14500	10.32	71	7.33	0
R	AP4	4	2016	14000	10.33	71	7.33	0.00004
R	AP4	4	2016	13500	10.35	71	7.35	0.00004
R	AP4	4	2016	13000	10.38	71	7.37	0.00002
R	AP4	4	2016	12500	10.4	71	7.38	0.00006
R	AP4	4	2016	12000	10.43	71	7.41	0.00002
R	AP4	4	2016	11500	10.45	71	7.42	0.00002
R	AP4	4	2016	11000	10.47	71	7.43	0.00004
R	AP4	4	2016	10500	10.49	71	7.45	0.00004
R	AP4	4	2016	10000	10.52	71	7.47	0.00004
R	AP4	4	2016	9500	10.55	71	7.49	0.00004
R	AP4	4	2016	9000	10.58	71	7.51	0.00008
R	AP4	4	2016	8500	10.63	71	7.55	0.00006
R	AP4	4	2016	8000	10.68	71	7.58	0.00006
R	AP4	4	2016	7500	10.72	71	7.61	0.00008
R	AP4	4	2016	7000	10.78	71	7.65	0.00008
R	AP4	4	2016	6500	10.83	71	7.69	0.0001
R	AP4	4	2016	6000	10.9	71	7.74	0.00012
R	AP4	4	2016	5500	10.99	71	7.8	0.00012
R	AP4	4	2016	5000	11.07	71	7.86	0.00016
R	AP4	4	2016	4750	11.12	71	7.9	0.00012
R	AP4	4	2016	4500	11.17	71	7.93	0.00016
R	AP4	4	2016	4250	11.22	71	7.97	0.00016
R	AP4	4	2016	4000	11.28	71	8.01	0.00024
R	AP4	4	2016	3750	11.37	71	8.07	0.00028

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	4	2016	3500	11.47	71	8.14	0.00028
R	AP4	4	2016	3250	11.56	71	8.21	0.00028
R	AP4	4	2016	3000	11.66	71	8.28	0.0002
R	AP4	4	2016	2900	11.69	71	8.3	0.0002
R	AP4	4	2016	2800	11.72	71	8.32	0.0003
R	AP4	4	2016	2700	11.76	71	8.35	0.0003
R	AP4	4	2016	2600	11.8	71	8.38	0.0002
R	AP4	4	2016	2500	11.83	71	8.4	0.0002
R	AP4	4	2016	2400	11.86	71	8.42	0.0003
R	AP4	4	2016	2300	11.9	71	8.45	0.0005
R	AP4	4	2016	2200	11.97	71	8.5	0.0004
R	AP4	4	2016	2100	12.03	71	8.54	0.0006
R	AP4	4	2016	2000	12.11	71	8.6	0.0005
R	AP4	4	2016	1900	12.19	71	8.65	0.0006
R	AP4	4	2016	1800	12.27	71	8.71	0.0005
R	AP4	4	2016	1700	12.34	71	8.76	0.0006
R	AP4	4	2016	1600	12.42	71	8.82	0.0009
R	AP4	4	2016	1500	12.55	71	8.91	0.0009
R	AP4	4	2016	1400	12.67	71	9	0.001
R	AP4	4	2016	1300	12.81	71	9.1	0.0009
R	AP4	4	2016	1200	12.94	71	9.19	0.001
R	AP4	4	2016	1100	13.09	71	9.29	0.0013
R	AP4	4	2016	1000	13.27	71	9.42	0.002
R	AP4	4	2016	950	13.41	71	9.52	0.002
R	AP4	4	2016	900	13.55	71	9.62	0.0018
R	AP4	4	2016	850	13.68	71	9.71	0.0022
R	AP4	4	2016	800	13.83	71	9.82	0.0022
R	AP4	4	2016	750	13.98	71	9.93	0.002
R	AP4	4	2016	700	14.12	71	10.03	0.0024
R	AP4	4	2016	650	14.29	71	10.15	0.0022
R	AP4	4	2016	600	14.45	71	10.26	0.0038
R	AP4	4	2016	550	14.72	71	10.45	0.0052
R	AP4	4	2016	500	15.08	71	10.71	0.0054
R	AP4	4	2016	450	15.46	71	10.98	0.0056
R	AP4	4	2016	400	15.86	71	11.26	0.0062
R	AP4	4	2016	350	16.29	71	11.57	0.0064
R	AP4	4	2016	300	16.74	71	11.89	0.0076
R	AP4	4	2016	250	17.28	71	12.27	0.0142
R	AP4	4	2016	200	18.28	71	12.98	0.0216
R	AP4	4	2016	150	19.8	71	14.06	0.0304
R	AP4	4	2016	100	21.94	71	15.58	0.0766
R	AP4	4	2016	50	27.34	71	19.41	13.233469
R	AP4	4	2016	1	940.63	71	667.85	0
R	AP4	5	2016	99999999	10.11	86	8.69	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	5	2016	22000	10.11	86	8.69	0.00002
R	AP4	5	2016	21500	10.12	86	8.7	0.00002
R	AP4	5	2016	21000	10.13	86	8.71	0.00002
R	AP4	5	2016	20500	10.14	86	8.72	0.00002
R	AP4	5	2016	20000	10.15	86	8.73	0.00002
R	AP4	5	2016	19500	10.16	86	8.74	0.00002
R	AP4	5	2016	19000	10.18	86	8.75	0.00002
R	AP4	5	2016	18500	10.19	86	8.76	0.00004
R	AP4	5	2016	18000	10.21	86	8.78	0.00002
R	AP4	5	2016	17500	10.22	86	8.79	0.00002
R	AP4	5	2016	17000	10.23	86	8.8	0.00002
R	AP4	5	2016	16500	10.25	86	8.81	0.00002
R	AP4	5	2016	16000	10.26	86	8.82	0.00004
R	AP4	5	2016	15500	10.28	86	8.84	0.00002
R	AP4	5	2016	15000	10.29	86	8.85	0.00006
R	AP4	5	2016	14500	10.32	86	8.88	0
R	AP4	5	2016	14000	10.33	86	8.88	0.00004
R	AP4	5	2016	13500	10.35	86	8.9	0.00006
R	AP4	5	2016	13000	10.38	86	8.93	0.00002
R	AP4	5	2016	12500	10.4	86	8.94	0.00006
R	AP4	5	2016	12000	10.43	86	8.97	0.00004
R	AP4	5	2016	11500	10.45	86	8.99	0.00002
R	AP4	5	2016	11000	10.47	86	9	0.00004
R	AP4	5	2016	10500	10.49	86	9.02	0.00006
R	AP4	5	2016	10000	10.52	86	9.05	0.00004
R	AP4	5	2016	9500	10.55	86	9.07	0.00006
R	AP4	5	2016	9000	10.58	86	9.1	0.00008
R	AP4	5	2016	8500	10.63	86	9.14	0.00008
R	AP4	5	2016	8000	10.68	86	9.18	0.00008
R	AP4	5	2016	7500	10.72	86	9.22	0.0001
R	AP4	5	2016	7000	10.78	86	9.27	0.00008
R	AP4	5	2016	6500	10.83	86	9.31	0.00012
R	AP4	5	2016	6000	10.9	86	9.37	0.00016
R	AP4	5	2016	5500	10.99	86	9.45	0.00014
R	AP4	5	2016	5000	11.07	86	9.52	0.00016
R	AP4	5	2016	4750	11.12	86	9.56	0.0002
R	AP4	5	2016	4500	11.17	86	9.61	0.00016
R	AP4	5	2016	4250	11.22	86	9.65	0.0002
R	AP4	5	2016	4000	11.28	86	9.7	0.00032
R	AP4	5	2016	3750	11.37	86	9.78	0.00032
R	AP4	5	2016	3500	11.47	86	9.86	0.00032
R	AP4	5	2016	3250	11.56	86	9.94	0.00036
R	AP4	5	2016	3000	11.66	86	10.03	0.0002
R	AP4	5	2016	2900	11.69	86	10.05	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	5	2016	2800	11.72	86	10.08	0.0003
R	AP4	5	2016	2700	11.76	86	10.11	0.0004
R	AP4	5	2016	2600	11.8	86	10.15	0.0002
R	AP4	5	2016	2500	11.83	86	10.17	0.0003
R	AP4	5	2016	2400	11.86	86	10.2	0.0003
R	AP4	5	2016	2300	11.9	86	10.23	0.0006
R	AP4	5	2016	2200	11.97	86	10.29	0.0006
R	AP4	5	2016	2100	12.03	86	10.35	0.0006
R	AP4	5	2016	2000	12.11	86	10.41	0.0007
R	AP4	5	2016	1900	12.19	86	10.48	0.0007
R	AP4	5	2016	1800	12.27	86	10.55	0.0006
R	AP4	5	2016	1700	12.34	86	10.61	0.0007
R	AP4	5	2016	1600	12.42	86	10.68	0.0011
R	AP4	5	2016	1500	12.55	86	10.79	0.0011
R	AP4	5	2016	1400	12.67	86	10.9	0.0012
R	AP4	5	2016	1300	12.81	86	11.02	0.0011
R	AP4	5	2016	1200	12.94	86	11.13	0.0013
R	AP4	5	2016	1100	13.09	86	11.26	0.0015
R	AP4	5	2016	1000	13.27	86	11.41	0.0024
R	AP4	5	2016	950	13.41	86	11.53	0.0024
R	AP4	5	2016	900	13.55	86	11.65	0.0022
R	AP4	5	2016	850	13.68	86	11.76	0.0026
R	AP4	5	2016	800	13.83	86	11.89	0.0026
R	AP4	5	2016	750	13.98	86	12.02	0.0024
R	AP4	5	2016	700	14.12	86	12.14	0.003
R	AP4	5	2016	650	14.29	86	12.29	0.0028
R	AP4	5	2016	600	14.45	86	12.43	0.0046
R	AP4	5	2016	550	14.72	86	12.66	0.0062
R	AP4	5	2016	500	15.08	86	12.97	0.0066
R	AP4	5	2016	450	15.46	86	13.3	0.0068
R	AP4	5	2016	400	15.86	86	13.64	0.0074
R	AP4	5	2016	350	16.29	86	14.01	0.0078
R	AP4	5	2016	300	16.74	86	14.4	0.0092
R	AP4	5	2016	250	17.28	86	14.86	0.0172
R	AP4	5	2016	200	18.28	86	15.72	0.0262
R	AP4	5	2016	150	19.8	86	17.03	0.0368
R	AP4	5	2016	100	21.94	86	18.87	0.0928
R	AP4	5	2016	50	27.34	86	23.51	16.029184
R	AP4	5	2016	1	940.63	86	808.94	0
R	AP4	6	2016	99999999	10.11	86	8.69	0
R	AP4	6	2016	22000	10.11	86	8.69	0.00002
R	AP4	6	2016	21500	10.12	86	8.7	0.00002
R	AP4	6	2016	21000	10.13	86	8.71	0.00002
R	AP4	6	2016	20500	10.14	86	8.72	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	6	2016	20000	10.15	86	8.73	0.00002
R	AP4	6	2016	19500	10.16	86	8.74	0.00002
R	AP4	6	2016	19000	10.18	86	8.75	0.00002
R	AP4	6	2016	18500	10.19	86	8.76	0.00004
R	AP4	6	2016	18000	10.21	86	8.78	0.00002
R	AP4	6	2016	17500	10.22	86	8.79	0.00002
R	AP4	6	2016	17000	10.23	86	8.8	0.00002
R	AP4	6	2016	16500	10.25	86	8.81	0.00002
R	AP4	6	2016	16000	10.26	86	8.82	0.00004
R	AP4	6	2016	15500	10.28	86	8.84	0.00002
R	AP4	6	2016	15000	10.29	86	8.85	0.00006
R	AP4	6	2016	14500	10.32	86	8.88	0
R	AP4	6	2016	14000	10.33	86	8.88	0.00004
R	AP4	6	2016	13500	10.35	86	8.9	0.00006
R	AP4	6	2016	13000	10.38	86	8.93	0.00002
R	AP4	6	2016	12500	10.4	86	8.94	0.00006
R	AP4	6	2016	12000	10.43	86	8.97	0.00004
R	AP4	6	2016	11500	10.45	86	8.99	0.00002
R	AP4	6	2016	11000	10.47	86	9	0.00004
R	AP4	6	2016	10500	10.49	86	9.02	0.00006
R	AP4	6	2016	10000	10.52	86	9.05	0.00004
R	AP4	6	2016	9500	10.55	86	9.07	0.00006
R	AP4	6	2016	9000	10.58	86	9.1	0.00008
R	AP4	6	2016	8500	10.63	86	9.14	0.00008
R	AP4	6	2016	8000	10.68	86	9.18	0.00008
R	AP4	6	2016	7500	10.72	86	9.22	0.0001
R	AP4	6	2016	7000	10.78	86	9.27	0.00008
R	AP4	6	2016	6500	10.83	86	9.31	0.00012
R	AP4	6	2016	6000	10.9	86	9.37	0.00016
R	AP4	6	2016	5500	10.99	86	9.45	0.00014
R	AP4	6	2016	5000	11.07	86	9.52	0.00016
R	AP4	6	2016	4750	11.12	86	9.56	0.0002
R	AP4	6	2016	4500	11.17	86	9.61	0.00016
R	AP4	6	2016	4250	11.22	86	9.65	0.0002
R	AP4	6	2016	4000	11.28	86	9.7	0.00032
R	AP4	6	2016	3750	11.37	86	9.78	0.00032
R	AP4	6	2016	3500	11.47	86	9.86	0.00032
R	AP4	6	2016	3250	11.56	86	9.94	0.00036
R	AP4	6	2016	3000	11.66	86	10.03	0.0002
R	AP4	6	2016	2900	11.69	86	10.05	0.0003
R	AP4	6	2016	2800	11.72	86	10.08	0.0003
R	AP4	6	2016	2700	11.76	86	10.11	0.0004
R	AP4	6	2016	2600	11.8	86	10.15	0.0002
R	AP4	6	2016	2500	11.83	86	10.17	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	6	2016	2400	11.86	86	10.2	0.0003
R	AP4	6	2016	2300	11.9	86	10.23	0.0006
R	AP4	6	2016	2200	11.97	86	10.29	0.0006
R	AP4	6	2016	2100	12.03	86	10.35	0.0006
R	AP4	6	2016	2000	12.11	86	10.41	0.0007
R	AP4	6	2016	1900	12.19	86	10.48	0.0007
R	AP4	6	2016	1800	12.27	86	10.55	0.0006
R	AP4	6	2016	1700	12.34	86	10.61	0.0007
R	AP4	6	2016	1600	12.42	86	10.68	0.0011
R	AP4	6	2016	1500	12.55	86	10.79	0.0011
R	AP4	6	2016	1400	12.67	86	10.9	0.0012
R	AP4	6	2016	1300	12.81	86	11.02	0.0011
R	AP4	6	2016	1200	12.94	86	11.13	0.0013
R	AP4	6	2016	1100	13.09	86	11.26	0.0015
R	AP4	6	2016	1000	13.27	86	11.41	0.0024
R	AP4	6	2016	950	13.41	86	11.53	0.0024
R	AP4	6	2016	900	13.55	86	11.65	0.0022
R	AP4	6	2016	850	13.68	86	11.76	0.0026
R	AP4	6	2016	800	13.83	86	11.89	0.0026
R	AP4	6	2016	750	13.98	86	12.02	0.0024
R	AP4	6	2016	700	14.12	86	12.14	0.003
R	AP4	6	2016	650	14.29	86	12.29	0.0028
R	AP4	6	2016	600	14.45	86	12.43	0.0046
R	AP4	6	2016	550	14.72	86	12.66	0.0062
R	AP4	6	2016	500	15.08	86	12.97	0.0066
R	AP4	6	2016	450	15.46	86	13.3	0.0068
R	AP4	6	2016	400	15.86	86	13.64	0.0074
R	AP4	6	2016	350	16.29	86	14.01	0.0078
R	AP4	6	2016	300	16.74	86	14.4	0.0092
R	AP4	6	2016	250	17.28	86	14.86	0.0172
R	AP4	6	2016	200	18.28	86	15.72	0.0262
R	AP4	6	2016	150	19.8	86	17.03	0.0368
R	AP4	6	2016	100	21.94	86	18.87	0.0928
R	AP4	6	2016	50	27.34	86	23.51	16.029184
R	AP4	6	2016	1	940.63	86	808.94	0
R	AP4	7	2016	99999999	10.11	86	8.69	0
R	AP4	7	2016	22000	10.11	86	8.69	0.00002
R	AP4	7	2016	21500	10.12	86	8.7	0.00002
R	AP4	7	2016	21000	10.13	86	8.71	0.00002
R	AP4	7	2016	20500	10.14	86	8.72	0.00002
R	AP4	7	2016	20000	10.15	86	8.73	0.00002
R	AP4	7	2016	19500	10.16	86	8.74	0.00002
R	AP4	7	2016	19000	10.18	86	8.75	0.00002
R	AP4	7	2016	18500	10.19	86	8.76	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP4	7	2016	18000	10.21	86	8.78	0.00002
R	AP4	7	2016	17500	10.22	86	8.79	0.00002
R	AP4	7	2016	17000	10.23	86	8.8	0.00002
R	AP4	7	2016	16500	10.25	86	8.81	0.00002
R	AP4	7	2016	16000	10.26	86	8.82	0.00004
R	AP4	7	2016	15500	10.28	86	8.84	0.00002
R	AP4	7	2016	15000	10.29	86	8.85	0.00006
R	AP4	7	2016	14500	10.32	86	8.88	0
R	AP4	7	2016	14000	10.33	86	8.88	0.00004
R	AP4	7	2016	13500	10.35	86	8.9	0.00006
R	AP4	7	2016	13000	10.38	86	8.93	0.00002
R	AP4	7	2016	12500	10.4	86	8.94	0.00006
R	AP4	7	2016	12000	10.43	86	8.97	0.00004
R	AP4	7	2016	11500	10.45	86	8.99	0.00002
R	AP4	7	2016	11000	10.47	86	9	0.00004
R	AP4	7	2016	10500	10.49	86	9.02	0.00006
R	AP4	7	2016	10000	10.52	86	9.05	0.00004
R	AP4	7	2016	9500	10.55	86	9.07	0.00006
R	AP4	7	2016	9000	10.58	86	9.1	0.00008
R	AP4	7	2016	8500	10.63	86	9.14	0.00008
R	AP4	7	2016	8000	10.68	86	9.18	0.00008
R	AP4	7	2016	7500	10.72	86	9.22	0.0001
R	AP4	7	2016	7000	10.78	86	9.27	0.00008
R	AP4	7	2016	6500	10.83	86	9.31	0.00012
R	AP4	7	2016	6000	10.9	86	9.37	0.00016
R	AP4	7	2016	5500	10.99	86	9.45	0.00014
R	AP4	7	2016	5000	11.07	86	9.52	0.00016
R	AP4	7	2016	4750	11.12	86	9.56	0.0002
R	AP4	7	2016	4500	11.17	86	9.61	0.00016
R	AP4	7	2016	4250	11.22	86	9.65	0.0002
R	AP4	7	2016	4000	11.28	86	9.7	0.00032
R	AP4	7	2016	3750	11.37	86	9.78	0.00032
R	AP4	7	2016	3500	11.47	86	9.86	0.00032
R	AP4	7	2016	3250	11.56	86	9.94	0.00036
R	AP4	7	2016	3000	11.66	86	10.03	0.0002
R	AP4	7	2016	2900	11.69	86	10.05	0.0003
R	AP4	7	2016	2800	11.72	86	10.08	0.0003
R	AP4	7	2016	2700	11.76	86	10.11	0.0004
R	AP4	7	2016	2600	11.8	86	10.15	0.0002
R	AP4	7	2016	2500	11.83	86	10.17	0.0003
R	AP4	7	2016	2400	11.86	86	10.2	0.0003
R	AP4	7	2016	2300	11.9	86	10.23	0.0006
R	AP4	7	2016	2200	11.97	86	10.29	0.0006
R	AP4	7	2016	2100	12.03	86	10.35	0.0006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP4	7	2016	2000	12.11	86	10.41	0.0007
R	AP4	7	2016	1900	12.19	86	10.48	0.0007
R	AP4	7	2016	1800	12.27	86	10.55	0.0006
R	AP4	7	2016	1700	12.34	86	10.61	0.0007
R	AP4	7	2016	1600	12.42	86	10.68	0.0011
R	AP4	7	2016	1500	12.55	86	10.79	0.0011
R	AP4	7	2016	1400	12.67	86	10.9	0.0012
R	AP4	7	2016	1300	12.81	86	11.02	0.0011
R	AP4	7	2016	1200	12.94	86	11.13	0.0013
R	AP4	7	2016	1100	13.09	86	11.26	0.0015
R	AP4	7	2016	1000	13.27	86	11.41	0.0024
R	AP4	7	2016	950	13.41	86	11.53	0.0024
R	AP4	7	2016	900	13.55	86	11.65	0.0022
R	AP4	7	2016	850	13.68	86	11.76	0.0026
R	AP4	7	2016	800	13.83	86	11.89	0.0026
R	AP4	7	2016	750	13.98	86	12.02	0.0024
R	AP4	7	2016	700	14.12	86	12.14	0.003
R	AP4	7	2016	650	14.29	86	12.29	0.0028
R	AP4	7	2016	600	14.45	86	12.43	0.0046
R	AP4	7	2016	550	14.72	86	12.66	0.0062
R	AP4	7	2016	500	15.08	86	12.97	0.0066
R	AP4	7	2016	450	15.46	86	13.3	0.0068
R	AP4	7	2016	400	15.86	86	13.64	0.0074
R	AP4	7	2016	350	16.29	86	14.01	0.0078
R	AP4	7	2016	300	16.74	86	14.4	0.0092
R	AP4	7	2016	250	17.28	86	14.86	0.0172
R	AP4	7	2016	200	18.28	86	15.72	0.0262
R	AP4	7	2016	150	19.8	86	17.03	0.0368
R	AP4	7	2016	100	21.94	86	18.87	0.0928
R	AP4	7	2016	50	27.34	86	23.51	16.029184
R	AP4	7	2016	1	940.63	86	808.94	0
R	AP4	*	2016	99999999	10.11	71	7.18	0
R	AP4	*	2016	22000	10.11	71	7.18	0.00002
R	AP4	*	2016	21500	10.12	71	7.19	0
R	AP4	*	2016	21000	10.13	71	7.19	0.00002
R	AP4	*	2016	20500	10.14	71	7.2	0.00002
R	AP4	*	2016	20000	10.15	71	7.21	0
R	AP4	*	2016	19500	10.16	71	7.21	0.00004
R	AP4	*	2016	19000	10.18	71	7.23	0
R	AP4	*	2016	18500	10.19	71	7.23	0.00004
R	AP4	*	2016	18000	10.21	71	7.25	0.00002
R	AP4	*	2016	17500	10.22	71	7.26	0
R	AP4	*	2016	17000	10.23	71	7.26	0.00004
R	AP4	*	2016	16500	10.25	71	7.28	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	*	2016	16000	10.26	71	7.28	0.00004
R	AP4	*	2016	15500	10.28	71	7.3	0.00002
R	AP4	*	2016	15000	10.29	71	7.31	0.00004
R	AP4	*	2016	14500	10.32	71	7.33	0
R	AP4	*	2016	14000	10.33	71	7.33	0.00004
R	AP4	*	2016	13500	10.35	71	7.35	0.00004
R	AP4	*	2016	13000	10.38	71	7.37	0.00002
R	AP4	*	2016	12500	10.4	71	7.38	0.00006
R	AP4	*	2016	12000	10.43	71	7.41	0.00002
R	AP4	*	2016	11500	10.45	71	7.42	0.00002
R	AP4	*	2016	11000	10.47	71	7.43	0.00004
R	AP4	*	2016	10500	10.49	71	7.45	0.00004
R	AP4	*	2016	10000	10.52	71	7.47	0.00004
R	AP4	*	2016	9500	10.55	71	7.49	0.00004
R	AP4	*	2016	9000	10.58	71	7.51	0.00008
R	AP4	*	2016	8500	10.63	71	7.55	0.00006
R	AP4	*	2016	8000	10.68	71	7.58	0.00006
R	AP4	*	2016	7500	10.72	71	7.61	0.00008
R	AP4	*	2016	7000	10.78	71	7.65	0.00008
R	AP4	*	2016	6500	10.83	71	7.69	0.0001
R	AP4	*	2016	6000	10.9	71	7.74	0.00012
R	AP4	*	2016	5500	10.99	71	7.8	0.00012
R	AP4	*	2016	5000	11.07	71	7.86	0.00016
R	AP4	*	2016	4750	11.12	71	7.9	0.00012
R	AP4	*	2016	4500	11.17	71	7.93	0.00016
R	AP4	*	2016	4250	11.22	71	7.97	0.00016
R	AP4	*	2016	4000	11.28	71	8.01	0.00024
R	AP4	*	2016	3750	11.37	71	8.07	0.00028
R	AP4	*	2016	3500	11.47	71	8.14	0.00028
R	AP4	*	2016	3250	11.56	71	8.21	0.00028
R	AP4	*	2016	3000	11.66	71	8.28	0.0002
R	AP4	*	2016	2900	11.69	71	8.3	0.0002
R	AP4	*	2016	2800	11.72	71	8.32	0.0003
R	AP4	*	2016	2700	11.76	71	8.35	0.0003
R	AP4	*	2016	2600	11.8	71	8.38	0.0002
R	AP4	*	2016	2500	11.83	71	8.4	0.0002
R	AP4	*	2016	2400	11.86	71	8.42	0.0003
R	AP4	*	2016	2300	11.9	71	8.45	0.0005
R	AP4	*	2016	2200	11.97	71	8.5	0.0004
R	AP4	*	2016	2100	12.03	71	8.54	0.0006
R	AP4	*	2016	2000	12.11	71	8.6	0.0005
R	AP4	*	2016	1900	12.19	71	8.65	0.0006
R	AP4	*	2016	1800	12.27	71	8.71	0.0005
R	AP4	*	2016	1700	12.34	71	8.76	0.0006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP4	*	2016	1600	12.42	71	8.82	0.0009
R	AP4	*	2016	1500	12.55	71	8.91	0.0009
R	AP4	*	2016	1400	12.67	71	9	0.001
R	AP4	*	2016	1300	12.81	71	9.1	0.0009
R	AP4	*	2016	1200	12.94	71	9.19	0.001
R	AP4	*	2016	1100	13.09	71	9.29	0.0013
R	AP4	*	2016	1000	13.27	71	9.42	0.002
R	AP4	*	2016	950	13.41	71	9.52	0.002
R	AP4	*	2016	900	13.55	71	9.62	0.0018
R	AP4	*	2016	850	13.68	71	9.71	0.0022
R	AP4	*	2016	800	13.83	71	9.82	0.0022
R	AP4	*	2016	750	13.98	71	9.93	0.002
R	AP4	*	2016	700	14.12	71	10.03	0.0024
R	AP4	*	2016	650	14.29	71	10.15	0.0022
R	AP4	*	2016	600	14.45	71	10.26	0.0038
R	AP4	*	2016	550	14.72	71	10.45	0.0052
R	AP4	*	2016	500	15.08	71	10.71	0.0054
R	AP4	*	2016	450	15.46	71	10.98	0.0056
R	AP4	*	2016	400	15.86	71	11.26	0.0062
R	AP4	*	2016	350	16.29	71	11.57	0.0064
R	AP4	*	2016	300	16.74	71	11.89	0.0076
R	AP4	*	2016	250	17.28	71	12.27	0.0142
R	AP4	*	2016	200	18.28	71	12.98	0.0216
R	AP4	*	2016	150	19.8	71	14.06	0.0304
R	AP4	*	2016	100	21.94	71	15.58	0.0766
R	AP4	*	2016	50	27.34	71	19.41	13.233469
R	AP4	*	2016	1	940.63	71	667.85	0
R	AP5	1	2016	99999999	8.22	60	4.93	0
R	AP5	1	2016	20000	8.22	60	4.93	0.00002
R	AP5	1	2016	19500	8.23	60	4.94	0
R	AP5	1	2016	19000	8.23	60	4.94	0
R	AP5	1	2016	18500	8.24	60	4.94	0.00004
R	AP5	1	2016	18000	8.26	60	4.96	0
R	AP5	1	2016	17500	8.27	60	4.96	0.00002
R	AP5	1	2016	17000	8.28	60	4.97	0
R	AP5	1	2016	16500	8.29	60	4.97	0.00004
R	AP5	1	2016	16000	8.31	60	4.99	0
R	AP5	1	2016	15500	8.32	60	4.99	0.00002
R	AP5	1	2016	15000	8.33	60	5	0.00002
R	AP5	1	2016	14500	8.35	60	5.01	0.00002
R	AP5	1	2016	14000	8.36	60	5.02	0.00002
R	AP5	1	2016	13500	8.38	60	5.03	0.00002
R	AP5	1	2016	13000	8.4	60	5.04	0.00002
R	AP5	1	2016	12500	8.42	60	5.05	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	1	2016	12000	8.44	60	5.06	0.00004
R	AP5	1	2016	11500	8.46	60	5.08	0.00002
R	AP5	1	2016	11000	8.48	60	5.09	0
R	AP5	1	2016	10500	8.49	60	5.09	0.00004
R	AP5	1	2016	10000	8.51	60	5.11	0.00002
R	AP5	1	2016	9500	8.53	60	5.12	0.00004
R	AP5	1	2016	9000	8.56	60	5.14	0.00006
R	AP5	1	2016	8500	8.61	60	5.17	0.00002
R	AP5	1	2016	8000	8.64	60	5.18	0.00006
R	AP5	1	2016	7500	8.68	60	5.21	0.00004
R	AP5	1	2016	7000	8.72	60	5.23	0.00006
R	AP5	1	2016	6500	8.77	60	5.26	0.00008
R	AP5	1	2016	6000	8.83	60	5.3	0.00006
R	AP5	1	2016	5500	8.89	60	5.33	0.0001
R	AP5	1	2016	5000	8.96	60	5.38	0.00004
R	AP5	1	2016	4750	8.99	60	5.39	0.00012
R	AP5	1	2016	4500	9.04	60	5.42	0.00008
R	AP5	1	2016	4250	9.07	60	5.44	0.00016
R	AP5	1	2016	4000	9.13	60	5.48	0.00016
R	AP5	1	2016	3750	9.2	60	5.52	0.0002
R	AP5	1	2016	3500	9.28	60	5.57	0.0002
R	AP5	1	2016	3250	9.36	60	5.62	0.00016
R	AP5	1	2016	3000	9.43	60	5.66	0.0002
R	AP5	1	2016	2900	9.46	60	5.68	0.0001
R	AP5	1	2016	2800	9.48	60	5.69	0.0002
R	AP5	1	2016	2700	9.51	60	5.71	0.0002
R	AP5	1	2016	2600	9.55	60	5.73	0.0001
R	AP5	1	2016	2500	9.57	60	5.74	0.0002
R	AP5	1	2016	2400	9.6	60	5.76	0.0002
R	AP5	1	2016	2300	9.63	60	5.78	0.0003
R	AP5	1	2016	2200	9.68	60	5.81	0.0003
R	AP5	1	2016	2100	9.74	60	5.84	0.0004
R	AP5	1	2016	2000	9.8	60	5.88	0.0004
R	AP5	1	2016	1900	9.86	60	5.92	0.0003
R	AP5	1	2016	1800	9.92	60	5.95	0.0004
R	AP5	1	2016	1700	9.99	60	5.99	0.0004
R	AP5	1	2016	1600	10.05	60	6.03	0.0007
R	AP5	1	2016	1500	10.16	60	6.1	0.0005
R	AP5	1	2016	1400	10.25	60	6.15	0.0007
R	AP5	1	2016	1300	10.37	60	6.22	0.0007
R	AP5	1	2016	1200	10.48	60	6.29	0.0007
R	AP5	1	2016	1100	10.6	60	6.36	0.0008
R	AP5	1	2016	1000	10.74	60	6.44	0.0014
R	AP5	1	2016	950	10.85	60	6.51	0.0014

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP5	1	2016	900	10.96	60	6.58	0.0012
R	AP5	1	2016	850	11.07	60	6.64	0.0014
R	AP5	1	2016	800	11.19	60	6.71	0.0016
R	AP5	1	2016	750	11.31	60	6.79	0.0014
R	AP5	1	2016	700	11.43	60	6.86	0.0016
R	AP5	1	2016	650	11.57	60	6.94	0.0016
R	AP5	1	2016	600	11.7	60	7.02	0.0026
R	AP5	1	2016	550	11.91	60	7.15	0.0034
R	AP5	1	2016	500	12.2	60	7.32	0.0038
R	AP5	1	2016	450	12.51	60	7.51	0.0038
R	AP5	1	2016	400	12.84	60	7.7	0.0042
R	AP5	1	2016	350	13.19	60	7.91	0.0044
R	AP5	1	2016	300	13.55	60	8.13	0.0052
R	AP5	1	2016	250	13.99	60	8.39	0.0096
R	AP5	1	2016	200	14.79	60	8.87	0.0148
R	AP5	1	2016	150	16.02	60	9.61	0.021
R	AP5	1	2016	100	17.76	60	10.66	0.0524
R	AP5	1	2016	50	22.13	60	13.28	2.888571
R	AP5	1	2016	1	258.04	60	154.82	0
R	AP5	2	2016	99999999	8.22	60	4.93	0
R	AP5	2	2016	20000	8.22	60	4.93	0.00002
R	AP5	2	2016	19500	8.23	60	4.94	0
R	AP5	2	2016	19000	8.23	60	4.94	0
R	AP5	2	2016	18500	8.24	60	4.94	0.00004
R	AP5	2	2016	18000	8.26	60	4.96	0
R	AP5	2	2016	17500	8.27	60	4.96	0.00002
R	AP5	2	2016	17000	8.28	60	4.97	0
R	AP5	2	2016	16500	8.29	60	4.97	0.00004
R	AP5	2	2016	16000	8.31	60	4.99	0
R	AP5	2	2016	15500	8.32	60	4.99	0.00002
R	AP5	2	2016	15000	8.33	60	5	0.00002
R	AP5	2	2016	14500	8.35	60	5.01	0.00002
R	AP5	2	2016	14000	8.36	60	5.02	0.00002
R	AP5	2	2016	13500	8.38	60	5.03	0.00002
R	AP5	2	2016	13000	8.4	60	5.04	0.00002
R	AP5	2	2016	12500	8.42	60	5.05	0.00002
R	AP5	2	2016	12000	8.44	60	5.06	0.00004
R	AP5	2	2016	11500	8.46	60	5.08	0.00002
R	AP5	2	2016	11000	8.48	60	5.09	0
R	AP5	2	2016	10500	8.49	60	5.09	0.00004
R	AP5	2	2016	10000	8.51	60	5.11	0.00002
R	AP5	2	2016	9500	8.53	60	5.12	0.00004
R	AP5	2	2016	9000	8.56	60	5.14	0.00006
R	AP5	2	2016	8500	8.61	60	5.17	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	2	2016	8000	8.64	60	5.18	0.00006
R	AP5	2	2016	7500	8.68	60	5.21	0.00004
R	AP5	2	2016	7000	8.72	60	5.23	0.00006
R	AP5	2	2016	6500	8.77	60	5.26	0.00008
R	AP5	2	2016	6000	8.83	60	5.3	0.00006
R	AP5	2	2016	5500	8.89	60	5.33	0.0001
R	AP5	2	2016	5000	8.96	60	5.38	0.00004
R	AP5	2	2016	4750	8.99	60	5.39	0.00012
R	AP5	2	2016	4500	9.04	60	5.42	0.00008
R	AP5	2	2016	4250	9.07	60	5.44	0.00016
R	AP5	2	2016	4000	9.13	60	5.48	0.00016
R	AP5	2	2016	3750	9.2	60	5.52	0.0002
R	AP5	2	2016	3500	9.28	60	5.57	0.0002
R	AP5	2	2016	3250	9.36	60	5.62	0.00016
R	AP5	2	2016	3000	9.43	60	5.66	0.0002
R	AP5	2	2016	2900	9.46	60	5.68	0.0001
R	AP5	2	2016	2800	9.48	60	5.69	0.0002
R	AP5	2	2016	2700	9.51	60	5.71	0.0002
R	AP5	2	2016	2600	9.55	60	5.73	0.0001
R	AP5	2	2016	2500	9.57	60	5.74	0.0002
R	AP5	2	2016	2400	9.6	60	5.76	0.0002
R	AP5	2	2016	2300	9.63	60	5.78	0.0003
R	AP5	2	2016	2200	9.68	60	5.81	0.0003
R	AP5	2	2016	2100	9.74	60	5.84	0.0004
R	AP5	2	2016	2000	9.8	60	5.88	0.0004
R	AP5	2	2016	1900	9.86	60	5.92	0.0003
R	AP5	2	2016	1800	9.92	60	5.95	0.0004
R	AP5	2	2016	1700	9.99	60	5.99	0.0004
R	AP5	2	2016	1600	10.05	60	6.03	0.0007
R	AP5	2	2016	1500	10.16	60	6.1	0.0005
R	AP5	2	2016	1400	10.25	60	6.15	0.0007
R	AP5	2	2016	1300	10.37	60	6.22	0.0007
R	AP5	2	2016	1200	10.48	60	6.29	0.0007
R	AP5	2	2016	1100	10.6	60	6.36	0.0008
R	AP5	2	2016	1000	10.74	60	6.44	0.0014
R	AP5	2	2016	950	10.85	60	6.51	0.0014
R	AP5	2	2016	900	10.96	60	6.58	0.0012
R	AP5	2	2016	850	11.07	60	6.64	0.0014
R	AP5	2	2016	800	11.19	60	6.71	0.0016
R	AP5	2	2016	750	11.31	60	6.79	0.0014
R	AP5	2	2016	700	11.43	60	6.86	0.0016
R	AP5	2	2016	650	11.57	60	6.94	0.0016
R	AP5	2	2016	600	11.7	60	7.02	0.0026
R	AP5	2	2016	550	11.91	60	7.15	0.0034

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	2	2016	500	12.2	60	7.32	0.0038
R	AP5	2	2016	450	12.51	60	7.51	0.0038
R	AP5	2	2016	400	12.84	60	7.7	0.0042
R	AP5	2	2016	350	13.19	60	7.91	0.0044
R	AP5	2	2016	300	13.55	60	8.13	0.0052
R	AP5	2	2016	250	13.99	60	8.39	0.0096
R	AP5	2	2016	200	14.79	60	8.87	0.0148
R	AP5	2	2016	150	16.02	60	9.61	0.021
R	AP5	2	2016	100	17.76	60	10.66	0.0524
R	AP5	2	2016	50	22.13	60	13.28	2.888571
R	AP5	2	2016	1	258.04	60	154.82	0
R	AP5	3	2016	99999999	8.22	60	4.93	0
R	AP5	3	2016	20000	8.22	60	4.93	0.00002
R	AP5	3	2016	19500	8.23	60	4.94	0
R	AP5	3	2016	19000	8.23	60	4.94	0
R	AP5	3	2016	18500	8.24	60	4.94	0.00004
R	AP5	3	2016	18000	8.26	60	4.96	0
R	AP5	3	2016	17500	8.27	60	4.96	0.00002
R	AP5	3	2016	17000	8.28	60	4.97	0
R	AP5	3	2016	16500	8.29	60	4.97	0.00004
R	AP5	3	2016	16000	8.31	60	4.99	0
R	AP5	3	2016	15500	8.32	60	4.99	0.00002
R	AP5	3	2016	15000	8.33	60	5	0.00002
R	AP5	3	2016	14500	8.35	60	5.01	0.00002
R	AP5	3	2016	14000	8.36	60	5.02	0.00002
R	AP5	3	2016	13500	8.38	60	5.03	0.00002
R	AP5	3	2016	13000	8.4	60	5.04	0.00002
R	AP5	3	2016	12500	8.42	60	5.05	0.00002
R	AP5	3	2016	12000	8.44	60	5.06	0.00004
R	AP5	3	2016	11500	8.46	60	5.08	0.00002
R	AP5	3	2016	11000	8.48	60	5.09	0
R	AP5	3	2016	10500	8.49	60	5.09	0.00004
R	AP5	3	2016	10000	8.51	60	5.11	0.00002
R	AP5	3	2016	9500	8.53	60	5.12	0.00004
R	AP5	3	2016	9000	8.56	60	5.14	0.00006
R	AP5	3	2016	8500	8.61	60	5.17	0.00002
R	AP5	3	2016	8000	8.64	60	5.18	0.00006
R	AP5	3	2016	7500	8.68	60	5.21	0.00004
R	AP5	3	2016	7000	8.72	60	5.23	0.00006
R	AP5	3	2016	6500	8.77	60	5.26	0.00008
R	AP5	3	2016	6000	8.83	60	5.3	0.00006
R	AP5	3	2016	5500	8.89	60	5.33	0.0001
R	AP5	3	2016	5000	8.96	60	5.38	0.00004
R	AP5	3	2016	4750	8.99	60	5.39	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	3	2016	4500	9.04	60	5.42	0.00008
R	AP5	3	2016	4250	9.07	60	5.44	0.00016
R	AP5	3	2016	4000	9.13	60	5.48	0.00016
R	AP5	3	2016	3750	9.2	60	5.52	0.0002
R	AP5	3	2016	3500	9.28	60	5.57	0.0002
R	AP5	3	2016	3250	9.36	60	5.62	0.00016
R	AP5	3	2016	3000	9.43	60	5.66	0.0002
R	AP5	3	2016	2900	9.46	60	5.68	0.0001
R	AP5	3	2016	2800	9.48	60	5.69	0.0002
R	AP5	3	2016	2700	9.51	60	5.71	0.0002
R	AP5	3	2016	2600	9.55	60	5.73	0.0001
R	AP5	3	2016	2500	9.57	60	5.74	0.0002
R	AP5	3	2016	2400	9.6	60	5.76	0.0002
R	AP5	3	2016	2300	9.63	60	5.78	0.0003
R	AP5	3	2016	2200	9.68	60	5.81	0.0003
R	AP5	3	2016	2100	9.74	60	5.84	0.0004
R	AP5	3	2016	2000	9.8	60	5.88	0.0004
R	AP5	3	2016	1900	9.86	60	5.92	0.0003
R	AP5	3	2016	1800	9.92	60	5.95	0.0004
R	AP5	3	2016	1700	9.99	60	5.99	0.0004
R	AP5	3	2016	1600	10.05	60	6.03	0.0007
R	AP5	3	2016	1500	10.16	60	6.1	0.0005
R	AP5	3	2016	1400	10.25	60	6.15	0.0007
R	AP5	3	2016	1300	10.37	60	6.22	0.0007
R	AP5	3	2016	1200	10.48	60	6.29	0.0007
R	AP5	3	2016	1100	10.6	60	6.36	0.0008
R	AP5	3	2016	1000	10.74	60	6.44	0.0014
R	AP5	3	2016	950	10.85	60	6.51	0.0014
R	AP5	3	2016	900	10.96	60	6.58	0.0012
R	AP5	3	2016	850	11.07	60	6.64	0.0014
R	AP5	3	2016	800	11.19	60	6.71	0.0016
R	AP5	3	2016	750	11.31	60	6.79	0.0014
R	AP5	3	2016	700	11.43	60	6.86	0.0016
R	AP5	3	2016	650	11.57	60	6.94	0.0016
R	AP5	3	2016	600	11.7	60	7.02	0.0026
R	AP5	3	2016	550	11.91	60	7.15	0.0034
R	AP5	3	2016	500	12.2	60	7.32	0.0038
R	AP5	3	2016	450	12.51	60	7.51	0.0038
R	AP5	3	2016	400	12.84	60	7.7	0.0042
R	AP5	3	2016	350	13.19	60	7.91	0.0044
R	AP5	3	2016	300	13.55	60	8.13	0.0052
R	AP5	3	2016	250	13.99	60	8.39	0.0096
R	AP5	3	2016	200	14.79	60	8.87	0.0148
R	AP5	3	2016	150	16.02	60	9.61	0.021

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	3	2016	100	17.76	60	10.66	0.0524
R	AP5	3	2016	50	22.13	60	13.28	2.888571
R	AP5	3	2016	1	258.04	60	154.82	0
R	AP5	4	2016	99999999	8.22	71	5.84	0
R	AP5	4	2016	20000	8.22	71	5.84	0
R	AP5	4	2016	19500	8.23	71	5.84	0
R	AP5	4	2016	19000	8.23	71	5.84	0.00002
R	AP5	4	2016	18500	8.24	71	5.85	0.00002
R	AP5	4	2016	18000	8.26	71	5.86	0.00002
R	AP5	4	2016	17500	8.27	71	5.87	0.00002
R	AP5	4	2016	17000	8.28	71	5.88	0.00002
R	AP5	4	2016	16500	8.29	71	5.89	0.00002
R	AP5	4	2016	16000	8.31	71	5.9	0.00002
R	AP5	4	2016	15500	8.32	71	5.91	0
R	AP5	4	2016	15000	8.33	71	5.91	0.00004
R	AP5	4	2016	14500	8.35	71	5.93	0.00002
R	AP5	4	2016	14000	8.36	71	5.94	0.00002
R	AP5	4	2016	13500	8.38	71	5.95	0.00002
R	AP5	4	2016	13000	8.4	71	5.96	0.00004
R	AP5	4	2016	12500	8.42	71	5.98	0.00002
R	AP5	4	2016	12000	8.44	71	5.99	0.00004
R	AP5	4	2016	11500	8.46	71	6.01	0.00002
R	AP5	4	2016	11000	8.48	71	6.02	0.00002
R	AP5	4	2016	10500	8.49	71	6.03	0.00002
R	AP5	4	2016	10000	8.51	71	6.04	0.00004
R	AP5	4	2016	9500	8.53	71	6.06	0.00004
R	AP5	4	2016	9000	8.56	71	6.08	0.00006
R	AP5	4	2016	8500	8.61	71	6.11	0.00004
R	AP5	4	2016	8000	8.64	71	6.13	0.00006
R	AP5	4	2016	7500	8.68	71	6.16	0.00006
R	AP5	4	2016	7000	8.72	71	6.19	0.00008
R	AP5	4	2016	6500	8.77	71	6.23	0.00008
R	AP5	4	2016	6000	8.83	71	6.27	0.00008
R	AP5	4	2016	5500	8.89	71	6.31	0.0001
R	AP5	4	2016	5000	8.96	71	6.36	0.00008
R	AP5	4	2016	4750	8.99	71	6.38	0.00016
R	AP5	4	2016	4500	9.04	71	6.42	0.00008
R	AP5	4	2016	4250	9.07	71	6.44	0.00016
R	AP5	4	2016	4000	9.13	71	6.48	0.0002
R	AP5	4	2016	3750	9.2	71	6.53	0.00024
R	AP5	4	2016	3500	9.28	71	6.59	0.00024
R	AP5	4	2016	3250	9.36	71	6.65	0.0002
R	AP5	4	2016	3000	9.43	71	6.7	0.0002
R	AP5	4	2016	2900	9.46	71	6.72	0.0001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP5	4	2016	2800	9.48	71	6.73	0.0002
R	AP5	4	2016	2700	9.51	71	6.75	0.0003
R	AP5	4	2016	2600	9.55	71	6.78	0.0001
R	AP5	4	2016	2500	9.57	71	6.79	0.0003
R	AP5	4	2016	2400	9.6	71	6.82	0.0002
R	AP5	4	2016	2300	9.63	71	6.84	0.0003
R	AP5	4	2016	2200	9.68	71	6.87	0.0005
R	AP5	4	2016	2100	9.74	71	6.92	0.0004
R	AP5	4	2016	2000	9.8	71	6.96	0.0004
R	AP5	4	2016	1900	9.86	71	7	0.0004
R	AP5	4	2016	1800	9.92	71	7.04	0.0005
R	AP5	4	2016	1700	9.99	71	7.09	0.0005
R	AP5	4	2016	1600	10.05	71	7.14	0.0007
R	AP5	4	2016	1500	10.16	71	7.21	0.0007
R	AP5	4	2016	1400	10.25	71	7.28	0.0008
R	AP5	4	2016	1300	10.37	71	7.36	0.0008
R	AP5	4	2016	1200	10.48	71	7.44	0.0009
R	AP5	4	2016	1100	10.6	71	7.53	0.001
R	AP5	4	2016	1000	10.74	71	7.63	0.0014
R	AP5	4	2016	950	10.85	71	7.7	0.0016
R	AP5	4	2016	900	10.96	71	7.78	0.0016
R	AP5	4	2016	850	11.07	71	7.86	0.0016
R	AP5	4	2016	800	11.19	71	7.94	0.0018
R	AP5	4	2016	750	11.31	71	8.03	0.0018
R	AP5	4	2016	700	11.43	71	8.12	0.0018
R	AP5	4	2016	650	11.57	71	8.21	0.002
R	AP5	4	2016	600	11.7	71	8.31	0.003
R	AP5	4	2016	550	11.91	71	8.46	0.004
R	AP5	4	2016	500	12.2	71	8.66	0.0044
R	AP5	4	2016	450	12.51	71	8.88	0.0048
R	AP5	4	2016	400	12.84	71	9.12	0.0048
R	AP5	4	2016	350	13.19	71	9.36	0.0052
R	AP5	4	2016	300	13.55	71	9.62	0.0062
R	AP5	4	2016	250	13.99	71	9.93	0.0114
R	AP5	4	2016	200	14.79	71	10.5	0.0174
R	AP5	4	2016	150	16.02	71	11.37	0.0248
R	AP5	4	2016	100	17.76	71	12.61	0.062
R	AP5	4	2016	50	22.13	71	15.71	3.418367
R	AP5	4	2016	1	258.04	71	183.21	0
R	AP5	5	2016	99999999	8.22	86	7.07	0
R	AP5	5	2016	20000	8.22	86	7.07	0.00002
R	AP5	5	2016	19500	8.23	86	7.08	0
R	AP5	5	2016	19000	8.23	86	7.08	0.00002
R	AP5	5	2016	18500	8.24	86	7.09	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	5	2016	18000	8.26	86	7.1	0.00002
R	AP5	5	2016	17500	8.27	86	7.11	0.00002
R	AP5	5	2016	17000	8.28	86	7.12	0.00002
R	AP5	5	2016	16500	8.29	86	7.13	0.00004
R	AP5	5	2016	16000	8.31	86	7.15	0.00002
R	AP5	5	2016	15500	8.32	86	7.16	0
R	AP5	5	2016	15000	8.33	86	7.16	0.00004
R	AP5	5	2016	14500	8.35	86	7.18	0.00002
R	AP5	5	2016	14000	8.36	86	7.19	0.00004
R	AP5	5	2016	13500	8.38	86	7.21	0.00002
R	AP5	5	2016	13000	8.4	86	7.22	0.00004
R	AP5	5	2016	12500	8.42	86	7.24	0.00004
R	AP5	5	2016	12000	8.44	86	7.26	0.00004
R	AP5	5	2016	11500	8.46	86	7.28	0.00002
R	AP5	5	2016	11000	8.48	86	7.29	0.00002
R	AP5	5	2016	10500	8.49	86	7.3	0.00004
R	AP5	5	2016	10000	8.51	86	7.32	0.00004
R	AP5	5	2016	9500	8.53	86	7.34	0.00004
R	AP5	5	2016	9000	8.56	86	7.36	0.00008
R	AP5	5	2016	8500	8.61	86	7.4	0.00006
R	AP5	5	2016	8000	8.64	86	7.43	0.00006
R	AP5	5	2016	7500	8.68	86	7.46	0.00008
R	AP5	5	2016	7000	8.72	86	7.5	0.00008
R	AP5	5	2016	6500	8.77	86	7.54	0.0001
R	AP5	5	2016	6000	8.83	86	7.59	0.00012
R	AP5	5	2016	5500	8.89	86	7.65	0.00012
R	AP5	5	2016	5000	8.96	86	7.71	0.00008
R	AP5	5	2016	4750	8.99	86	7.73	0.00016
R	AP5	5	2016	4500	9.04	86	7.77	0.00012
R	AP5	5	2016	4250	9.07	86	7.8	0.0002
R	AP5	5	2016	4000	9.13	86	7.85	0.00024
R	AP5	5	2016	3750	9.2	86	7.91	0.00028
R	AP5	5	2016	3500	9.28	86	7.98	0.00028
R	AP5	5	2016	3250	9.36	86	8.05	0.00024
R	AP5	5	2016	3000	9.43	86	8.11	0.0003
R	AP5	5	2016	2900	9.46	86	8.14	0.0001
R	AP5	5	2016	2800	9.48	86	8.15	0.0003
R	AP5	5	2016	2700	9.51	86	8.18	0.0003
R	AP5	5	2016	2600	9.55	86	8.21	0.0002
R	AP5	5	2016	2500	9.57	86	8.23	0.0003
R	AP5	5	2016	2400	9.6	86	8.26	0.0002
R	AP5	5	2016	2300	9.63	86	8.28	0.0004
R	AP5	5	2016	2200	9.68	86	8.32	0.0006
R	AP5	5	2016	2100	9.74	86	8.38	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	5	2016	2000	9.8	86	8.43	0.0005
R	AP5	5	2016	1900	9.86	86	8.48	0.0005
R	AP5	5	2016	1800	9.92	86	8.53	0.0006
R	AP5	5	2016	1700	9.99	86	8.59	0.0005
R	AP5	5	2016	1600	10.05	86	8.64	0.001
R	AP5	5	2016	1500	10.16	86	8.74	0.0007
R	AP5	5	2016	1400	10.25	86	8.81	0.0011
R	AP5	5	2016	1300	10.37	86	8.92	0.0009
R	AP5	5	2016	1200	10.48	86	9.01	0.0011
R	AP5	5	2016	1100	10.6	86	9.12	0.0012
R	AP5	5	2016	1000	10.74	86	9.24	0.0018
R	AP5	5	2016	950	10.85	86	9.33	0.002
R	AP5	5	2016	900	10.96	86	9.43	0.0018
R	AP5	5	2016	850	11.07	86	9.52	0.002
R	AP5	5	2016	800	11.19	86	9.62	0.0022
R	AP5	5	2016	750	11.31	86	9.73	0.002
R	AP5	5	2016	700	11.43	86	9.83	0.0024
R	AP5	5	2016	650	11.57	86	9.95	0.0022
R	AP5	5	2016	600	11.7	86	10.06	0.0036
R	AP5	5	2016	550	11.91	86	10.24	0.005
R	AP5	5	2016	500	12.2	86	10.49	0.0054
R	AP5	5	2016	450	12.51	86	10.76	0.0056
R	AP5	5	2016	400	12.84	86	11.04	0.006
R	AP5	5	2016	350	13.19	86	11.34	0.0062
R	AP5	5	2016	300	13.55	86	11.65	0.0076
R	AP5	5	2016	250	13.99	86	12.03	0.0138
R	AP5	5	2016	200	14.79	86	12.72	0.0212
R	AP5	5	2016	150	16.02	86	13.78	0.0298
R	AP5	5	2016	100	17.76	86	15.27	0.0752
R	AP5	5	2016	50	22.13	86	19.03	4.140408
R	AP5	5	2016	1	258.04	86	221.91	0
R	AP5	6	2016	9999999	8.22	86	7.07	0
R	AP5	6	2016	20000	8.22	86	7.07	0.00002
R	AP5	6	2016	19500	8.23	86	7.08	0
R	AP5	6	2016	19000	8.23	86	7.08	0.00002
R	AP5	6	2016	18500	8.24	86	7.09	0.00002
R	AP5	6	2016	18000	8.26	86	7.1	0.00002
R	AP5	6	2016	17500	8.27	86	7.11	0.00002
R	AP5	6	2016	17000	8.28	86	7.12	0.00002
R	AP5	6	2016	16500	8.29	86	7.13	0.00004
R	AP5	6	2016	16000	8.31	86	7.15	0.00002
R	AP5	6	2016	15500	8.32	86	7.16	0
R	AP5	6	2016	15000	8.33	86	7.16	0.00004
R	AP5	6	2016	14500	8.35	86	7.18	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	6	2016	14000	8.36	86	7.19	0.00004
R	AP5	6	2016	13500	8.38	86	7.21	0.00002
R	AP5	6	2016	13000	8.4	86	7.22	0.00004
R	AP5	6	2016	12500	8.42	86	7.24	0.00004
R	AP5	6	2016	12000	8.44	86	7.26	0.00004
R	AP5	6	2016	11500	8.46	86	7.28	0.00002
R	AP5	6	2016	11000	8.48	86	7.29	0.00002
R	AP5	6	2016	10500	8.49	86	7.3	0.00004
R	AP5	6	2016	10000	8.51	86	7.32	0.00004
R	AP5	6	2016	9500	8.53	86	7.34	0.00004
R	AP5	6	2016	9000	8.56	86	7.36	0.00008
R	AP5	6	2016	8500	8.61	86	7.4	0.00006
R	AP5	6	2016	8000	8.64	86	7.43	0.00006
R	AP5	6	2016	7500	8.68	86	7.46	0.00008
R	AP5	6	2016	7000	8.72	86	7.5	0.00008
R	AP5	6	2016	6500	8.77	86	7.54	0.0001
R	AP5	6	2016	6000	8.83	86	7.59	0.00012
R	AP5	6	2016	5500	8.89	86	7.65	0.00012
R	AP5	6	2016	5000	8.96	86	7.71	0.00008
R	AP5	6	2016	4750	8.99	86	7.73	0.00016
R	AP5	6	2016	4500	9.04	86	7.77	0.00012
R	AP5	6	2016	4250	9.07	86	7.8	0.0002
R	AP5	6	2016	4000	9.13	86	7.85	0.00024
R	AP5	6	2016	3750	9.2	86	7.91	0.00028
R	AP5	6	2016	3500	9.28	86	7.98	0.00028
R	AP5	6	2016	3250	9.36	86	8.05	0.00024
R	AP5	6	2016	3000	9.43	86	8.11	0.0003
R	AP5	6	2016	2900	9.46	86	8.14	0.0001
R	AP5	6	2016	2800	9.48	86	8.15	0.0003
R	AP5	6	2016	2700	9.51	86	8.18	0.0003
R	AP5	6	2016	2600	9.55	86	8.21	0.0002
R	AP5	6	2016	2500	9.57	86	8.23	0.0003
R	AP5	6	2016	2400	9.6	86	8.26	0.0002
R	AP5	6	2016	2300	9.63	86	8.28	0.0004
R	AP5	6	2016	2200	9.68	86	8.32	0.0006
R	AP5	6	2016	2100	9.74	86	8.38	0.0005
R	AP5	6	2016	2000	9.8	86	8.43	0.0005
R	AP5	6	2016	1900	9.86	86	8.48	0.0005
R	AP5	6	2016	1800	9.92	86	8.53	0.0006
R	AP5	6	2016	1700	9.99	86	8.59	0.0005
R	AP5	6	2016	1600	10.05	86	8.64	0.001
R	AP5	6	2016	1500	10.16	86	8.74	0.0007
R	AP5	6	2016	1400	10.25	86	8.81	0.0011
R	AP5	6	2016	1300	10.37	86	8.92	0.0009

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	6	2016	1200	10.48	86	9.01	0.0011
R	AP5	6	2016	1100	10.6	86	9.12	0.0012
R	AP5	6	2016	1000	10.74	86	9.24	0.0018
R	AP5	6	2016	950	10.85	86	9.33	0.002
R	AP5	6	2016	900	10.96	86	9.43	0.0018
R	AP5	6	2016	850	11.07	86	9.52	0.002
R	AP5	6	2016	800	11.19	86	9.62	0.0022
R	AP5	6	2016	750	11.31	86	9.73	0.002
R	AP5	6	2016	700	11.43	86	9.83	0.0024
R	AP5	6	2016	650	11.57	86	9.95	0.0022
R	AP5	6	2016	600	11.7	86	10.06	0.0036
R	AP5	6	2016	550	11.91	86	10.24	0.005
R	AP5	6	2016	500	12.2	86	10.49	0.0054
R	AP5	6	2016	450	12.51	86	10.76	0.0056
R	AP5	6	2016	400	12.84	86	11.04	0.006
R	AP5	6	2016	350	13.19	86	11.34	0.0062
R	AP5	6	2016	300	13.55	86	11.65	0.0076
R	AP5	6	2016	250	13.99	86	12.03	0.0138
R	AP5	6	2016	200	14.79	86	12.72	0.0212
R	AP5	6	2016	150	16.02	86	13.78	0.0298
R	AP5	6	2016	100	17.76	86	15.27	0.0752
R	AP5	6	2016	50	22.13	86	19.03	4.140408
R	AP5	6	2016	1	258.04	86	221.91	0
R	AP5	7	2016	99999999	8.22	86	7.07	0
R	AP5	7	2016	20000	8.22	86	7.07	0.00002
R	AP5	7	2016	19500	8.23	86	7.08	0
R	AP5	7	2016	19000	8.23	86	7.08	0.00002
R	AP5	7	2016	18500	8.24	86	7.09	0.00002
R	AP5	7	2016	18000	8.26	86	7.1	0.00002
R	AP5	7	2016	17500	8.27	86	7.11	0.00002
R	AP5	7	2016	17000	8.28	86	7.12	0.00002
R	AP5	7	2016	16500	8.29	86	7.13	0.00004
R	AP5	7	2016	16000	8.31	86	7.15	0.00002
R	AP5	7	2016	15500	8.32	86	7.16	0
R	AP5	7	2016	15000	8.33	86	7.16	0.00004
R	AP5	7	2016	14500	8.35	86	7.18	0.00002
R	AP5	7	2016	14000	8.36	86	7.19	0.00004
R	AP5	7	2016	13500	8.38	86	7.21	0.00002
R	AP5	7	2016	13000	8.4	86	7.22	0.00004
R	AP5	7	2016	12500	8.42	86	7.24	0.00004
R	AP5	7	2016	12000	8.44	86	7.26	0.00004
R	AP5	7	2016	11500	8.46	86	7.28	0.00002
R	AP5	7	2016	11000	8.48	86	7.29	0.00002
R	AP5	7	2016	10500	8.49	86	7.3	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	7	2016	10000	8.51	86	7.32	0.00004
R	AP5	7	2016	9500	8.53	86	7.34	0.00004
R	AP5	7	2016	9000	8.56	86	7.36	0.00008
R	AP5	7	2016	8500	8.61	86	7.4	0.00006
R	AP5	7	2016	8000	8.64	86	7.43	0.00006
R	AP5	7	2016	7500	8.68	86	7.46	0.00008
R	AP5	7	2016	7000	8.72	86	7.5	0.00008
R	AP5	7	2016	6500	8.77	86	7.54	0.0001
R	AP5	7	2016	6000	8.83	86	7.59	0.00012
R	AP5	7	2016	5500	8.89	86	7.65	0.00012
R	AP5	7	2016	5000	8.96	86	7.71	0.00008
R	AP5	7	2016	4750	8.99	86	7.73	0.00016
R	AP5	7	2016	4500	9.04	86	7.77	0.00012
R	AP5	7	2016	4250	9.07	86	7.8	0.0002
R	AP5	7	2016	4000	9.13	86	7.85	0.00024
R	AP5	7	2016	3750	9.2	86	7.91	0.00028
R	AP5	7	2016	3500	9.28	86	7.98	0.00028
R	AP5	7	2016	3250	9.36	86	8.05	0.00024
R	AP5	7	2016	3000	9.43	86	8.11	0.0003
R	AP5	7	2016	2900	9.46	86	8.14	0.0001
R	AP5	7	2016	2800	9.48	86	8.15	0.0003
R	AP5	7	2016	2700	9.51	86	8.18	0.0003
R	AP5	7	2016	2600	9.55	86	8.21	0.0002
R	AP5	7	2016	2500	9.57	86	8.23	0.0003
R	AP5	7	2016	2400	9.6	86	8.26	0.0002
R	AP5	7	2016	2300	9.63	86	8.28	0.0004
R	AP5	7	2016	2200	9.68	86	8.32	0.0006
R	AP5	7	2016	2100	9.74	86	8.38	0.0005
R	AP5	7	2016	2000	9.8	86	8.43	0.0005
R	AP5	7	2016	1900	9.86	86	8.48	0.0005
R	AP5	7	2016	1800	9.92	86	8.53	0.0006
R	AP5	7	2016	1700	9.99	86	8.59	0.0005
R	AP5	7	2016	1600	10.05	86	8.64	0.001
R	AP5	7	2016	1500	10.16	86	8.74	0.0007
R	AP5	7	2016	1400	10.25	86	8.81	0.0011
R	AP5	7	2016	1300	10.37	86	8.92	0.0009
R	AP5	7	2016	1200	10.48	86	9.01	0.0011
R	AP5	7	2016	1100	10.6	86	9.12	0.0012
R	AP5	7	2016	1000	10.74	86	9.24	0.0018
R	AP5	7	2016	950	10.85	86	9.33	0.002
R	AP5	7	2016	900	10.96	86	9.43	0.0018
R	AP5	7	2016	850	11.07	86	9.52	0.002
R	AP5	7	2016	800	11.19	86	9.62	0.0022
R	AP5	7	2016	750	11.31	86	9.73	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	7	2016	700	11.43	86	9.83	0.0024
R	AP5	7	2016	650	11.57	86	9.95	0.0022
R	AP5	7	2016	600	11.7	86	10.06	0.0036
R	AP5	7	2016	550	11.91	86	10.24	0.005
R	AP5	7	2016	500	12.2	86	10.49	0.0054
R	AP5	7	2016	450	12.51	86	10.76	0.0056
R	AP5	7	2016	400	12.84	86	11.04	0.006
R	AP5	7	2016	350	13.19	86	11.34	0.0062
R	AP5	7	2016	300	13.55	86	11.65	0.0076
R	AP5	7	2016	250	13.99	86	12.03	0.0138
R	AP5	7	2016	200	14.79	86	12.72	0.0212
R	AP5	7	2016	150	16.02	86	13.78	0.0298
R	AP5	7	2016	100	17.76	86	15.27	0.0752
R	AP5	7	2016	50	22.13	86	19.03	4.140408
R	AP5	7	2016	1	258.04	86	221.91	0
R	AP5	*	2016	99999999	8.22	71	5.84	0
R	AP5	*	2016	20000	8.22	71	5.84	0
R	AP5	*	2016	19500	8.23	71	5.84	0
R	AP5	*	2016	19000	8.23	71	5.84	0.00002
R	AP5	*	2016	18500	8.24	71	5.85	0.00002
R	AP5	*	2016	18000	8.26	71	5.86	0.00002
R	AP5	*	2016	17500	8.27	71	5.87	0.00002
R	AP5	*	2016	17000	8.28	71	5.88	0.00002
R	AP5	*	2016	16500	8.29	71	5.89	0.00002
R	AP5	*	2016	16000	8.31	71	5.9	0.00002
R	AP5	*	2016	15500	8.32	71	5.91	0
R	AP5	*	2016	15000	8.33	71	5.91	0.00004
R	AP5	*	2016	14500	8.35	71	5.93	0.00002
R	AP5	*	2016	14000	8.36	71	5.94	0.00002
R	AP5	*	2016	13500	8.38	71	5.95	0.00002
R	AP5	*	2016	13000	8.4	71	5.96	0.00004
R	AP5	*	2016	12500	8.42	71	5.98	0.00002
R	AP5	*	2016	12000	8.44	71	5.99	0.00004
R	AP5	*	2016	11500	8.46	71	6.01	0.00002
R	AP5	*	2016	11000	8.48	71	6.02	0.00002
R	AP5	*	2016	10500	8.49	71	6.03	0.00002
R	AP5	*	2016	10000	8.51	71	6.04	0.00004
R	AP5	*	2016	9500	8.53	71	6.06	0.00004
R	AP5	*	2016	9000	8.56	71	6.08	0.00006
R	AP5	*	2016	8500	8.61	71	6.11	0.00004
R	AP5	*	2016	8000	8.64	71	6.13	0.00006
R	AP5	*	2016	7500	8.68	71	6.16	0.00006
R	AP5	*	2016	7000	8.72	71	6.19	0.00008
R	AP5	*	2016	6500	8.77	71	6.23	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	*	2016	6000	8.83	71	6.27	0.00008
R	AP5	*	2016	5500	8.89	71	6.31	0.0001
R	AP5	*	2016	5000	8.96	71	6.36	0.00008
R	AP5	*	2016	4750	8.99	71	6.38	0.00016
R	AP5	*	2016	4500	9.04	71	6.42	0.00008
R	AP5	*	2016	4250	9.07	71	6.44	0.00016
R	AP5	*	2016	4000	9.13	71	6.48	0.0002
R	AP5	*	2016	3750	9.2	71	6.53	0.00024
R	AP5	*	2016	3500	9.28	71	6.59	0.00024
R	AP5	*	2016	3250	9.36	71	6.65	0.0002
R	AP5	*	2016	3000	9.43	71	6.7	0.0002
R	AP5	*	2016	2900	9.46	71	6.72	0.0001
R	AP5	*	2016	2800	9.48	71	6.73	0.0002
R	AP5	*	2016	2700	9.51	71	6.75	0.0003
R	AP5	*	2016	2600	9.55	71	6.78	0.0001
R	AP5	*	2016	2500	9.57	71	6.79	0.0003
R	AP5	*	2016	2400	9.6	71	6.82	0.0002
R	AP5	*	2016	2300	9.63	71	6.84	0.0003
R	AP5	*	2016	2200	9.68	71	6.87	0.0005
R	AP5	*	2016	2100	9.74	71	6.92	0.0004
R	AP5	*	2016	2000	9.8	71	6.96	0.0004
R	AP5	*	2016	1900	9.86	71	7	0.0004
R	AP5	*	2016	1800	9.92	71	7.04	0.0005
R	AP5	*	2016	1700	9.99	71	7.09	0.0005
R	AP5	*	2016	1600	10.05	71	7.14	0.0007
R	AP5	*	2016	1500	10.16	71	7.21	0.0007
R	AP5	*	2016	1400	10.25	71	7.28	0.0008
R	AP5	*	2016	1300	10.37	71	7.36	0.0008
R	AP5	*	2016	1200	10.48	71	7.44	0.0009
R	AP5	*	2016	1100	10.6	71	7.53	0.001
R	AP5	*	2016	1000	10.74	71	7.63	0.0014
R	AP5	*	2016	950	10.85	71	7.7	0.0016
R	AP5	*	2016	900	10.96	71	7.78	0.0016
R	AP5	*	2016	850	11.07	71	7.86	0.0016
R	AP5	*	2016	800	11.19	71	7.94	0.0018
R	AP5	*	2016	750	11.31	71	8.03	0.0018
R	AP5	*	2016	700	11.43	71	8.12	0.0018
R	AP5	*	2016	650	11.57	71	8.21	0.002
R	AP5	*	2016	600	11.7	71	8.31	0.003
R	AP5	*	2016	550	11.91	71	8.46	0.004
R	AP5	*	2016	500	12.2	71	8.66	0.0044
R	AP5	*	2016	450	12.51	71	8.88	0.0048
R	AP5	*	2016	400	12.84	71	9.12	0.0048
R	AP5	*	2016	350	13.19	71	9.36	0.0052

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP5	*	2016	300	13.55	71	9.62	0.0062
R	AP5	*	2016	250	13.99	71	9.93	0.0114
R	AP5	*	2016	200	14.79	71	10.5	0.0174
R	AP5	*	2016	150	16.02	71	11.37	0.0248
R	AP5	*	2016	100	17.76	71	12.61	0.062
R	AP5	*	2016	50	22.13	71	15.71	3.418367
R	AP5	*	2016	1	258.04	71	183.21	0
R	AP6	1	2016	99999999	8.19	60	4.91	0
R	AP6	1	2016	10000	8.19	60	4.91	0.00004
R	AP6	1	2016	9500	8.21	60	4.93	0.00002
R	AP6	1	2016	9000	8.24	60	4.94	0.00004
R	AP6	1	2016	8500	8.27	60	4.96	0.00006
R	AP6	1	2016	8000	8.31	60	4.99	0.00002
R	AP6	1	2016	7500	8.34	60	5	0.00006
R	AP6	1	2016	7000	8.39	60	5.03	0.00006
R	AP6	1	2016	6500	8.43	60	5.06	0.00006
R	AP6	1	2016	6000	8.49	60	5.09	0.00008
R	AP6	1	2016	5500	8.55	60	5.13	0.00008
R	AP6	1	2016	5000	8.61	60	5.17	0.00008
R	AP6	1	2016	4750	8.65	60	5.19	0.00008
R	AP6	1	2016	4500	8.69	60	5.21	0.00012
R	AP6	1	2016	4250	8.73	60	5.24	0.00012
R	AP6	1	2016	4000	8.78	60	5.27	0.00016
R	AP6	1	2016	3750	8.85	60	5.31	0.00016
R	AP6	1	2016	3500	8.92	60	5.35	0.0002
R	AP6	1	2016	3250	9	60	5.4	0.00016
R	AP6	1	2016	3000	9.07	60	5.44	0.0002
R	AP6	1	2016	2900	9.1	60	5.46	0.0001
R	AP6	1	2016	2800	9.12	60	5.47	0.0002
R	AP6	1	2016	2700	9.15	60	5.49	0.0002
R	AP6	1	2016	2600	9.18	60	5.51	0.0002
R	AP6	1	2016	2500	9.21	60	5.53	0.0001
R	AP6	1	2016	2400	9.23	60	5.54	0.0002
R	AP6	1	2016	2300	9.26	60	5.56	0.0003
R	AP6	1	2016	2200	9.31	60	5.59	0.0003
R	AP6	1	2016	2100	9.37	60	5.62	0.0003
R	AP6	1	2016	2000	9.42	60	5.65	0.0004
R	AP6	1	2016	1900	9.49	60	5.69	0.0004
R	AP6	1	2016	1800	9.55	60	5.73	0.0003
R	AP6	1	2016	1700	9.6	60	5.76	0.0004
R	AP6	1	2016	1600	9.67	60	5.8	0.0006
R	AP6	1	2016	1500	9.76	60	5.86	0.0006
R	AP6	1	2016	1400	9.86	60	5.92	0.0006
R	AP6	1	2016	1300	9.97	60	5.98	0.0006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	1	2016	1200	10.07	60	6.04	0.0007
R	AP6	1	2016	1100	10.19	60	6.11	0.0009
R	AP6	1	2016	1000	10.33	60	6.2	0.0012
R	AP6	1	2016	950	10.43	60	6.26	0.0012
R	AP6	1	2016	900	10.54	60	6.32	0.0012
R	AP6	1	2016	850	10.64	60	6.38	0.0016
R	AP6	1	2016	800	10.76	60	6.46	0.0014
R	AP6	1	2016	750	10.88	60	6.53	0.0012
R	AP6	1	2016	700	10.99	60	6.59	0.0016
R	AP6	1	2016	650	11.12	60	6.67	0.0016
R	AP6	1	2016	600	11.25	60	6.75	0.0024
R	AP6	1	2016	550	11.45	60	6.87	0.0034
R	AP6	1	2016	500	11.74	60	7.04	0.0036
R	AP6	1	2016	450	12.03	60	7.22	0.0038
R	AP6	1	2016	400	12.35	60	7.41	0.004
R	AP6	1	2016	350	12.68	60	7.61	0.0042
R	AP6	1	2016	300	13.03	60	7.82	0.005
R	AP6	1	2016	250	13.45	60	8.07	0.0094
R	AP6	1	2016	200	14.23	60	8.54	0.0142
R	AP6	1	2016	150	15.41	60	9.25	0.0198
R	AP6	1	2016	100	17.07	60	10.24	0.0506
R	AP6	1	2016	50	21.28	60	12.77	2.89898
R	AP6	1	2016	1	258.04	60	154.82	0
R	AP6	2	2016	99999999	8.19	60	4.91	0
R	AP6	2	2016	10000	8.19	60	4.91	0.00004
R	AP6	2	2016	9500	8.21	60	4.93	0.00002
R	AP6	2	2016	9000	8.24	60	4.94	0.00004
R	AP6	2	2016	8500	8.27	60	4.96	0.00006
R	AP6	2	2016	8000	8.31	60	4.99	0.00002
R	AP6	2	2016	7500	8.34	60	5	0.00006
R	AP6	2	2016	7000	8.39	60	5.03	0.00006
R	AP6	2	2016	6500	8.43	60	5.06	0.00006
R	AP6	2	2016	6000	8.49	60	5.09	0.00008
R	AP6	2	2016	5500	8.55	60	5.13	0.00008
R	AP6	2	2016	5000	8.61	60	5.17	0.00008
R	AP6	2	2016	4750	8.65	60	5.19	0.00008
R	AP6	2	2016	4500	8.69	60	5.21	0.00012
R	AP6	2	2016	4250	8.73	60	5.24	0.00012
R	AP6	2	2016	4000	8.78	60	5.27	0.00016
R	AP6	2	2016	3750	8.85	60	5.31	0.00016
R	AP6	2	2016	3500	8.92	60	5.35	0.0002
R	AP6	2	2016	3250	9	60	5.4	0.00016
R	AP6	2	2016	3000	9.07	60	5.44	0.0002
R	AP6	2	2016	2900	9.1	60	5.46	0.0001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	2	2016	2800	9.12	60	5.47	0.0002
R	AP6	2	2016	2700	9.15	60	5.49	0.0002
R	AP6	2	2016	2600	9.18	60	5.51	0.0002
R	AP6	2	2016	2500	9.21	60	5.53	0.0001
R	AP6	2	2016	2400	9.23	60	5.54	0.0002
R	AP6	2	2016	2300	9.26	60	5.56	0.0003
R	AP6	2	2016	2200	9.31	60	5.59	0.0003
R	AP6	2	2016	2100	9.37	60	5.62	0.0003
R	AP6	2	2016	2000	9.42	60	5.65	0.0004
R	AP6	2	2016	1900	9.49	60	5.69	0.0004
R	AP6	2	2016	1800	9.55	60	5.73	0.0003
R	AP6	2	2016	1700	9.6	60	5.76	0.0004
R	AP6	2	2016	1600	9.67	60	5.8	0.0006
R	AP6	2	2016	1500	9.76	60	5.86	0.0006
R	AP6	2	2016	1400	9.86	60	5.92	0.0006
R	AP6	2	2016	1300	9.97	60	5.98	0.0006
R	AP6	2	2016	1200	10.07	60	6.04	0.0007
R	AP6	2	2016	1100	10.19	60	6.11	0.0009
R	AP6	2	2016	1000	10.33	60	6.2	0.0012
R	AP6	2	2016	950	10.43	60	6.26	0.0012
R	AP6	2	2016	900	10.54	60	6.32	0.0012
R	AP6	2	2016	850	10.64	60	6.38	0.0016
R	AP6	2	2016	800	10.76	60	6.46	0.0014
R	AP6	2	2016	750	10.88	60	6.53	0.0012
R	AP6	2	2016	700	10.99	60	6.59	0.0016
R	AP6	2	2016	650	11.12	60	6.67	0.0016
R	AP6	2	2016	600	11.25	60	6.75	0.0024
R	AP6	2	2016	550	11.45	60	6.87	0.0034
R	AP6	2	2016	500	11.74	60	7.04	0.0036
R	AP6	2	2016	450	12.03	60	7.22	0.0038
R	AP6	2	2016	400	12.35	60	7.41	0.004
R	AP6	2	2016	350	12.68	60	7.61	0.0042
R	AP6	2	2016	300	13.03	60	7.82	0.005
R	AP6	2	2016	250	13.45	60	8.07	0.0094
R	AP6	2	2016	200	14.23	60	8.54	0.0142
R	AP6	2	2016	150	15.41	60	9.25	0.0198
R	AP6	2	2016	100	17.07	60	10.24	0.0506
R	AP6	2	2016	50	21.28	60	12.77	2.89898
R	AP6	2	2016	1	258.04	60	154.82	0
R	AP6	3	2016	99999999	8.19	60	4.91	0
R	AP6	3	2016	10000	8.19	60	4.91	0.00004
R	AP6	3	2016	9500	8.21	60	4.93	0.00002
R	AP6	3	2016	9000	8.24	60	4.94	0.00004
R	AP6	3	2016	8500	8.27	60	4.96	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP6	3	2016	8000	8.31	60	4.99	0.00002
R	AP6	3	2016	7500	8.34	60	5	0.00006
R	AP6	3	2016	7000	8.39	60	5.03	0.00006
R	AP6	3	2016	6500	8.43	60	5.06	0.00006
R	AP6	3	2016	6000	8.49	60	5.09	0.00008
R	AP6	3	2016	5500	8.55	60	5.13	0.00008
R	AP6	3	2016	5000	8.61	60	5.17	0.00008
R	AP6	3	2016	4750	8.65	60	5.19	0.00008
R	AP6	3	2016	4500	8.69	60	5.21	0.00012
R	AP6	3	2016	4250	8.73	60	5.24	0.00012
R	AP6	3	2016	4000	8.78	60	5.27	0.00016
R	AP6	3	2016	3750	8.85	60	5.31	0.00016
R	AP6	3	2016	3500	8.92	60	5.35	0.0002
R	AP6	3	2016	3250	9	60	5.4	0.00016
R	AP6	3	2016	3000	9.07	60	5.44	0.0002
R	AP6	3	2016	2900	9.1	60	5.46	0.0001
R	AP6	3	2016	2800	9.12	60	5.47	0.0002
R	AP6	3	2016	2700	9.15	60	5.49	0.0002
R	AP6	3	2016	2600	9.18	60	5.51	0.0002
R	AP6	3	2016	2500	9.21	60	5.53	0.0001
R	AP6	3	2016	2400	9.23	60	5.54	0.0002
R	AP6	3	2016	2300	9.26	60	5.56	0.0003
R	AP6	3	2016	2200	9.31	60	5.59	0.0003
R	AP6	3	2016	2100	9.37	60	5.62	0.0003
R	AP6	3	2016	2000	9.42	60	5.65	0.0004
R	AP6	3	2016	1900	9.49	60	5.69	0.0004
R	AP6	3	2016	1800	9.55	60	5.73	0.0003
R	AP6	3	2016	1700	9.6	60	5.76	0.0004
R	AP6	3	2016	1600	9.67	60	5.8	0.0006
R	AP6	3	2016	1500	9.76	60	5.86	0.0006
R	AP6	3	2016	1400	9.86	60	5.92	0.0006
R	AP6	3	2016	1300	9.97	60	5.98	0.0006
R	AP6	3	2016	1200	10.07	60	6.04	0.0007
R	AP6	3	2016	1100	10.19	60	6.11	0.0009
R	AP6	3	2016	1000	10.33	60	6.2	0.0012
R	AP6	3	2016	950	10.43	60	6.26	0.0012
R	AP6	3	2016	900	10.54	60	6.32	0.0012
R	AP6	3	2016	850	10.64	60	6.38	0.0016
R	AP6	3	2016	800	10.76	60	6.46	0.0014
R	AP6	3	2016	750	10.88	60	6.53	0.0012
R	AP6	3	2016	700	10.99	60	6.59	0.0016
R	AP6	3	2016	650	11.12	60	6.67	0.0016
R	AP6	3	2016	600	11.25	60	6.75	0.0024
R	AP6	3	2016	550	11.45	60	6.87	0.0034

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	3	2016	500	11.74	60	7.04	0.0036
R	AP6	3	2016	450	12.03	60	7.22	0.0038
R	AP6	3	2016	400	12.35	60	7.41	0.004
R	AP6	3	2016	350	12.68	60	7.61	0.0042
R	AP6	3	2016	300	13.03	60	7.82	0.005
R	AP6	3	2016	250	13.45	60	8.07	0.0094
R	AP6	3	2016	200	14.23	60	8.54	0.0142
R	AP6	3	2016	150	15.41	60	9.25	0.0198
R	AP6	3	2016	100	17.07	60	10.24	0.0506
R	AP6	3	2016	50	21.28	60	12.77	2.89898
R	AP6	3	2016	1	258.04	60	154.82	0
R	AP6	4	2016	99999999	8.19	71	5.81	0
R	AP6	4	2016	10000	8.19	71	5.81	0.00004
R	AP6	4	2016	9500	8.21	71	5.83	0.00004
R	AP6	4	2016	9000	8.24	71	5.85	0.00004
R	AP6	4	2016	8500	8.27	71	5.87	0.00006
R	AP6	4	2016	8000	8.31	71	5.9	0.00004
R	AP6	4	2016	7500	8.34	71	5.92	0.00008
R	AP6	4	2016	7000	8.39	71	5.96	0.00006
R	AP6	4	2016	6500	8.43	71	5.99	0.00008
R	AP6	4	2016	6000	8.49	71	6.03	0.00008
R	AP6	4	2016	5500	8.55	71	6.07	0.00008
R	AP6	4	2016	5000	8.61	71	6.11	0.00012
R	AP6	4	2016	4750	8.65	71	6.14	0.00012
R	AP6	4	2016	4500	8.69	71	6.17	0.00012
R	AP6	4	2016	4250	8.73	71	6.2	0.00012
R	AP6	4	2016	4000	8.78	71	6.23	0.0002
R	AP6	4	2016	3750	8.85	71	6.28	0.0002
R	AP6	4	2016	3500	8.92	71	6.33	0.00024
R	AP6	4	2016	3250	9	71	6.39	0.0002
R	AP6	4	2016	3000	9.07	71	6.44	0.0002
R	AP6	4	2016	2900	9.1	71	6.46	0.0002
R	AP6	4	2016	2800	9.12	71	6.48	0.0002
R	AP6	4	2016	2700	9.15	71	6.5	0.0002
R	AP6	4	2016	2600	9.18	71	6.52	0.0002
R	AP6	4	2016	2500	9.21	71	6.54	0.0001
R	AP6	4	2016	2400	9.23	71	6.55	0.0002
R	AP6	4	2016	2300	9.26	71	6.57	0.0004
R	AP6	4	2016	2200	9.31	71	6.61	0.0004
R	AP6	4	2016	2100	9.37	71	6.65	0.0004
R	AP6	4	2016	2000	9.42	71	6.69	0.0005
R	AP6	4	2016	1900	9.49	71	6.74	0.0004
R	AP6	4	2016	1800	9.55	71	6.78	0.0004
R	AP6	4	2016	1700	9.6	71	6.82	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	4	2016	1600	9.67	71	6.87	0.0006
R	AP6	4	2016	1500	9.76	71	6.93	0.0007
R	AP6	4	2016	1400	9.86	71	7	0.0008
R	AP6	4	2016	1300	9.97	71	7.08	0.0007
R	AP6	4	2016	1200	10.07	71	7.15	0.0008
R	AP6	4	2016	1100	10.19	71	7.23	0.001
R	AP6	4	2016	1000	10.33	71	7.33	0.0016
R	AP6	4	2016	950	10.43	71	7.41	0.0014
R	AP6	4	2016	900	10.54	71	7.48	0.0014
R	AP6	4	2016	850	10.64	71	7.55	0.0018
R	AP6	4	2016	800	10.76	71	7.64	0.0016
R	AP6	4	2016	750	10.88	71	7.72	0.0016
R	AP6	4	2016	700	10.99	71	7.8	0.002
R	AP6	4	2016	650	11.12	71	7.9	0.0018
R	AP6	4	2016	600	11.25	71	7.99	0.0028
R	AP6	4	2016	550	11.45	71	8.13	0.0042
R	AP6	4	2016	500	11.74	71	8.34	0.004
R	AP6	4	2016	450	12.03	71	8.54	0.0046
R	AP6	4	2016	400	12.35	71	8.77	0.0046
R	AP6	4	2016	350	12.68	71	9	0.005
R	AP6	4	2016	300	13.03	71	9.25	0.006
R	AP6	4	2016	250	13.45	71	9.55	0.011
R	AP6	4	2016	200	14.23	71	10.1	0.0168
R	AP6	4	2016	150	15.41	71	10.94	0.0236
R	AP6	4	2016	100	17.07	71	12.12	0.0598
R	AP6	4	2016	50	21.28	71	15.11	3.430612
R	AP6	4	2016	1	258.04	71	183.21	0
R	AP6	5	2016	99999999	8.19	86	7.04	0
R	AP6	5	2016	10000	8.19	86	7.04	0.00004
R	AP6	5	2016	9500	8.21	86	7.06	0.00006
R	AP6	5	2016	9000	8.24	86	7.09	0.00004
R	AP6	5	2016	8500	8.27	86	7.11	0.00008
R	AP6	5	2016	8000	8.31	86	7.15	0.00004
R	AP6	5	2016	7500	8.34	86	7.17	0.0001
R	AP6	5	2016	7000	8.39	86	7.22	0.00006
R	AP6	5	2016	6500	8.43	86	7.25	0.0001
R	AP6	5	2016	6000	8.49	86	7.3	0.0001
R	AP6	5	2016	5500	8.55	86	7.35	0.0001
R	AP6	5	2016	5000	8.61	86	7.4	0.00016
R	AP6	5	2016	4750	8.65	86	7.44	0.00012
R	AP6	5	2016	4500	8.69	86	7.47	0.00016
R	AP6	5	2016	4250	8.73	86	7.51	0.00016
R	AP6	5	2016	4000	8.78	86	7.55	0.00024
R	AP6	5	2016	3750	8.85	86	7.61	0.00024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	5	2016	3500	8.92	86	7.67	0.00028
R	AP6	5	2016	3250	9	86	7.74	0.00024
R	AP6	5	2016	3000	9.07	86	7.8	0.0003
R	AP6	5	2016	2900	9.1	86	7.83	0.0001
R	AP6	5	2016	2800	9.12	86	7.84	0.0003
R	AP6	5	2016	2700	9.15	86	7.87	0.0002
R	AP6	5	2016	2600	9.18	86	7.89	0.0003
R	AP6	5	2016	2500	9.21	86	7.92	0.0002
R	AP6	5	2016	2400	9.23	86	7.94	0.0002
R	AP6	5	2016	2300	9.26	86	7.96	0.0005
R	AP6	5	2016	2200	9.31	86	8.01	0.0005
R	AP6	5	2016	2100	9.37	86	8.06	0.0004
R	AP6	5	2016	2000	9.42	86	8.1	0.0006
R	AP6	5	2016	1900	9.49	86	8.16	0.0005
R	AP6	5	2016	1800	9.55	86	8.21	0.0005
R	AP6	5	2016	1700	9.6	86	8.26	0.0006
R	AP6	5	2016	1600	9.67	86	8.32	0.0007
R	AP6	5	2016	1500	9.76	86	8.39	0.0009
R	AP6	5	2016	1400	9.86	86	8.48	0.0009
R	AP6	5	2016	1300	9.97	86	8.57	0.0009
R	AP6	5	2016	1200	10.07	86	8.66	0.001
R	AP6	5	2016	1100	10.19	86	8.76	0.0012
R	AP6	5	2016	1000	10.33	86	8.88	0.0018
R	AP6	5	2016	950	10.43	86	8.97	0.0018
R	AP6	5	2016	900	10.54	86	9.06	0.0018
R	AP6	5	2016	850	10.64	86	9.15	0.002
R	AP6	5	2016	800	10.76	86	9.25	0.0022
R	AP6	5	2016	750	10.88	86	9.36	0.0018
R	AP6	5	2016	700	10.99	86	9.45	0.0022
R	AP6	5	2016	650	11.12	86	9.56	0.0024
R	AP6	5	2016	600	11.25	86	9.68	0.0034
R	AP6	5	2016	550	11.45	86	9.85	0.005
R	AP6	5	2016	500	11.74	86	10.1	0.005
R	AP6	5	2016	450	12.03	86	10.35	0.0054
R	AP6	5	2016	400	12.35	86	10.62	0.0056
R	AP6	5	2016	350	12.68	86	10.9	0.0062
R	AP6	5	2016	300	13.03	86	11.21	0.0072
R	AP6	5	2016	250	13.45	86	11.57	0.0134
R	AP6	5	2016	200	14.23	86	12.24	0.0202
R	AP6	5	2016	150	15.41	86	13.25	0.0286
R	AP6	5	2016	100	17.07	86	14.68	0.0724
R	AP6	5	2016	50	21.28	86	18.3	4.155306
R	AP6	5	2016	1	258.04	86	221.91	0
R	AP6	6	2016	99999999	8.19	86	7.04	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	6	2016	10000	8.19	86	7.04	0.00004
R	AP6	6	2016	9500	8.21	86	7.06	0.00006
R	AP6	6	2016	9000	8.24	86	7.09	0.00004
R	AP6	6	2016	8500	8.27	86	7.11	0.00008
R	AP6	6	2016	8000	8.31	86	7.15	0.00004
R	AP6	6	2016	7500	8.34	86	7.17	0.0001
R	AP6	6	2016	7000	8.39	86	7.22	0.00006
R	AP6	6	2016	6500	8.43	86	7.25	0.0001
R	AP6	6	2016	6000	8.49	86	7.3	0.0001
R	AP6	6	2016	5500	8.55	86	7.35	0.0001
R	AP6	6	2016	5000	8.61	86	7.4	0.00016
R	AP6	6	2016	4750	8.65	86	7.44	0.00012
R	AP6	6	2016	4500	8.69	86	7.47	0.00016
R	AP6	6	2016	4250	8.73	86	7.51	0.00016
R	AP6	6	2016	4000	8.78	86	7.55	0.00024
R	AP6	6	2016	3750	8.85	86	7.61	0.00024
R	AP6	6	2016	3500	8.92	86	7.67	0.00028
R	AP6	6	2016	3250	9	86	7.74	0.00024
R	AP6	6	2016	3000	9.07	86	7.8	0.0003
R	AP6	6	2016	2900	9.1	86	7.83	0.0001
R	AP6	6	2016	2800	9.12	86	7.84	0.0003
R	AP6	6	2016	2700	9.15	86	7.87	0.0002
R	AP6	6	2016	2600	9.18	86	7.89	0.0003
R	AP6	6	2016	2500	9.21	86	7.92	0.0002
R	AP6	6	2016	2400	9.23	86	7.94	0.0002
R	AP6	6	2016	2300	9.26	86	7.96	0.0005
R	AP6	6	2016	2200	9.31	86	8.01	0.0005
R	AP6	6	2016	2100	9.37	86	8.06	0.0004
R	AP6	6	2016	2000	9.42	86	8.1	0.0006
R	AP6	6	2016	1900	9.49	86	8.16	0.0005
R	AP6	6	2016	1800	9.55	86	8.21	0.0005
R	AP6	6	2016	1700	9.6	86	8.26	0.0006
R	AP6	6	2016	1600	9.67	86	8.32	0.0007
R	AP6	6	2016	1500	9.76	86	8.39	0.0009
R	AP6	6	2016	1400	9.86	86	8.48	0.0009
R	AP6	6	2016	1300	9.97	86	8.57	0.0009
R	AP6	6	2016	1200	10.07	86	8.66	0.001
R	AP6	6	2016	1100	10.19	86	8.76	0.0012
R	AP6	6	2016	1000	10.33	86	8.88	0.0018
R	AP6	6	2016	950	10.43	86	8.97	0.0018
R	AP6	6	2016	900	10.54	86	9.06	0.0018
R	AP6	6	2016	850	10.64	86	9.15	0.002
R	AP6	6	2016	800	10.76	86	9.25	0.0022
R	AP6	6	2016	750	10.88	86	9.36	0.0018

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	6	2016	700	10.99	86	9.45	0.0022
R	AP6	6	2016	650	11.12	86	9.56	0.0024
R	AP6	6	2016	600	11.25	86	9.68	0.0034
R	AP6	6	2016	550	11.45	86	9.85	0.005
R	AP6	6	2016	500	11.74	86	10.1	0.005
R	AP6	6	2016	450	12.03	86	10.35	0.0054
R	AP6	6	2016	400	12.35	86	10.62	0.0056
R	AP6	6	2016	350	12.68	86	10.9	0.0062
R	AP6	6	2016	300	13.03	86	11.21	0.0072
R	AP6	6	2016	250	13.45	86	11.57	0.0134
R	AP6	6	2016	200	14.23	86	12.24	0.0202
R	AP6	6	2016	150	15.41	86	13.25	0.0286
R	AP6	6	2016	100	17.07	86	14.68	0.0724
R	AP6	6	2016	50	21.28	86	18.3	4.155306
R	AP6	6	2016	1	258.04	86	221.91	0
R	AP6	7	2016	99999999	8.19	86	7.04	0
R	AP6	7	2016	10000	8.19	86	7.04	0.00004
R	AP6	7	2016	9500	8.21	86	7.06	0.00006
R	AP6	7	2016	9000	8.24	86	7.09	0.00004
R	AP6	7	2016	8500	8.27	86	7.11	0.00008
R	AP6	7	2016	8000	8.31	86	7.15	0.00004
R	AP6	7	2016	7500	8.34	86	7.17	0.0001
R	AP6	7	2016	7000	8.39	86	7.22	0.00006
R	AP6	7	2016	6500	8.43	86	7.25	0.0001
R	AP6	7	2016	6000	8.49	86	7.3	0.0001
R	AP6	7	2016	5500	8.55	86	7.35	0.0001
R	AP6	7	2016	5000	8.61	86	7.4	0.00016
R	AP6	7	2016	4750	8.65	86	7.44	0.00012
R	AP6	7	2016	4500	8.69	86	7.47	0.00016
R	AP6	7	2016	4250	8.73	86	7.51	0.00016
R	AP6	7	2016	4000	8.78	86	7.55	0.00024
R	AP6	7	2016	3750	8.85	86	7.61	0.00024
R	AP6	7	2016	3500	8.92	86	7.67	0.00028
R	AP6	7	2016	3250	9	86	7.74	0.00024
R	AP6	7	2016	3000	9.07	86	7.8	0.0003
R	AP6	7	2016	2900	9.1	86	7.83	0.0001
R	AP6	7	2016	2800	9.12	86	7.84	0.0003
R	AP6	7	2016	2700	9.15	86	7.87	0.0002
R	AP6	7	2016	2600	9.18	86	7.89	0.0003
R	AP6	7	2016	2500	9.21	86	7.92	0.0002
R	AP6	7	2016	2400	9.23	86	7.94	0.0002
R	AP6	7	2016	2300	9.26	86	7.96	0.0005
R	AP6	7	2016	2200	9.31	86	8.01	0.0005
R	AP6	7	2016	2100	9.37	86	8.06	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AP6	7	2016	2000	9.42	86	8.1	0.0006
R	AP6	7	2016	1900	9.49	86	8.16	0.0005
R	AP6	7	2016	1800	9.55	86	8.21	0.0005
R	AP6	7	2016	1700	9.6	86	8.26	0.0006
R	AP6	7	2016	1600	9.67	86	8.32	0.0007
R	AP6	7	2016	1500	9.76	86	8.39	0.0009
R	AP6	7	2016	1400	9.86	86	8.48	0.0009
R	AP6	7	2016	1300	9.97	86	8.57	0.0009
R	AP6	7	2016	1200	10.07	86	8.66	0.001
R	AP6	7	2016	1100	10.19	86	8.76	0.0012
R	AP6	7	2016	1000	10.33	86	8.88	0.0018
R	AP6	7	2016	950	10.43	86	8.97	0.0018
R	AP6	7	2016	900	10.54	86	9.06	0.0018
R	AP6	7	2016	850	10.64	86	9.15	0.002
R	AP6	7	2016	800	10.76	86	9.25	0.0022
R	AP6	7	2016	750	10.88	86	9.36	0.0018
R	AP6	7	2016	700	10.99	86	9.45	0.0022
R	AP6	7	2016	650	11.12	86	9.56	0.0024
R	AP6	7	2016	600	11.25	86	9.68	0.0034
R	AP6	7	2016	550	11.45	86	9.85	0.005
R	AP6	7	2016	500	11.74	86	10.1	0.005
R	AP6	7	2016	450	12.03	86	10.35	0.0054
R	AP6	7	2016	400	12.35	86	10.62	0.0056
R	AP6	7	2016	350	12.68	86	10.9	0.0062
R	AP6	7	2016	300	13.03	86	11.21	0.0072
R	AP6	7	2016	250	13.45	86	11.57	0.0134
R	AP6	7	2016	200	14.23	86	12.24	0.0202
R	AP6	7	2016	150	15.41	86	13.25	0.0286
R	AP6	7	2016	100	17.07	86	14.68	0.0724
R	AP6	7	2016	50	21.28	86	18.3	4.155306
R	AP6	7	2016	1	258.04	86	221.91	0
R	AP6	*	2016	99999999	8.19	71	5.81	0
R	AP6	*	2016	10000	8.19	71	5.81	0.00004
R	AP6	*	2016	9500	8.21	71	5.83	0.00004
R	AP6	*	2016	9000	8.24	71	5.85	0.00004
R	AP6	*	2016	8500	8.27	71	5.87	0.00006
R	AP6	*	2016	8000	8.31	71	5.9	0.00004
R	AP6	*	2016	7500	8.34	71	5.92	0.00008
R	AP6	*	2016	7000	8.39	71	5.96	0.00006
R	AP6	*	2016	6500	8.43	71	5.99	0.00008
R	AP6	*	2016	6000	8.49	71	6.03	0.00008
R	AP6	*	2016	5500	8.55	71	6.07	0.00008
R	AP6	*	2016	5000	8.61	71	6.11	0.00012
R	AP6	*	2016	4750	8.65	71	6.14	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	*	2016	4500	8.69	71	6.17	0.00012
R	AP6	*	2016	4250	8.73	71	6.2	0.00012
R	AP6	*	2016	4000	8.78	71	6.23	0.0002
R	AP6	*	2016	3750	8.85	71	6.28	0.0002
R	AP6	*	2016	3500	8.92	71	6.33	0.00024
R	AP6	*	2016	3250	9	71	6.39	0.0002
R	AP6	*	2016	3000	9.07	71	6.44	0.0002
R	AP6	*	2016	2900	9.1	71	6.46	0.0002
R	AP6	*	2016	2800	9.12	71	6.48	0.0002
R	AP6	*	2016	2700	9.15	71	6.5	0.0002
R	AP6	*	2016	2600	9.18	71	6.52	0.0002
R	AP6	*	2016	2500	9.21	71	6.54	0.0001
R	AP6	*	2016	2400	9.23	71	6.55	0.0002
R	AP6	*	2016	2300	9.26	71	6.57	0.0004
R	AP6	*	2016	2200	9.31	71	6.61	0.0004
R	AP6	*	2016	2100	9.37	71	6.65	0.0004
R	AP6	*	2016	2000	9.42	71	6.69	0.0005
R	AP6	*	2016	1900	9.49	71	6.74	0.0004
R	AP6	*	2016	1800	9.55	71	6.78	0.0004
R	AP6	*	2016	1700	9.6	71	6.82	0.0005
R	AP6	*	2016	1600	9.67	71	6.87	0.0006
R	AP6	*	2016	1500	9.76	71	6.93	0.0007
R	AP6	*	2016	1400	9.86	71	7	0.0008
R	AP6	*	2016	1300	9.97	71	7.08	0.0007
R	AP6	*	2016	1200	10.07	71	7.15	0.0008
R	AP6	*	2016	1100	10.19	71	7.23	0.001
R	AP6	*	2016	1000	10.33	71	7.33	0.0016
R	AP6	*	2016	950	10.43	71	7.41	0.0014
R	AP6	*	2016	900	10.54	71	7.48	0.0014
R	AP6	*	2016	850	10.64	71	7.55	0.0018
R	AP6	*	2016	800	10.76	71	7.64	0.0016
R	AP6	*	2016	750	10.88	71	7.72	0.0016
R	AP6	*	2016	700	10.99	71	7.8	0.002
R	AP6	*	2016	650	11.12	71	7.9	0.0018
R	AP6	*	2016	600	11.25	71	7.99	0.0028
R	AP6	*	2016	550	11.45	71	8.13	0.0042
R	AP6	*	2016	500	11.74	71	8.34	0.004
R	AP6	*	2016	450	12.03	71	8.54	0.0046
R	AP6	*	2016	400	12.35	71	8.77	0.0046
R	AP6	*	2016	350	12.68	71	9	0.005
R	AP6	*	2016	300	13.03	71	9.25	0.006
R	AP6	*	2016	250	13.45	71	9.55	0.011
R	AP6	*	2016	200	14.23	71	10.1	0.0168
R	AP6	*	2016	150	15.41	71	10.94	0.0236

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AP6	*	2016	100	17.07	71	12.12	0.0598
R	AP6	*	2016	50	21.28	71	15.11	3.430612
R	AP6	*	2016	1	258.04	71	183.21	0
R	AQ1	1	2016	99999999	6.71	80	5.37	
R	AQ1	2	2016	99999999	6.71	80	5.37	
R	AQ1	3	2016	99999999	6.71	80	5.37	
R	AQ1	4	2016	99999999	6.71	100	6.71	
R	AQ1	5	2016	99999999	6.71	120	8.05	
R	AQ1	6	2016	99999999	6.71	120	8.05	
R	AQ1	7	2016	99999999	6.71	120	8.05	
R	AQ1	*	2016	99999999	6.71	100	6.71	
R	AS1	1	2016	99999999	3.8	80	3.04	
R	AS1	2	2016	99999999	3.8	80	3.04	
R	AS1	3	2016	99999999	3.8	80	3.04	
R	AS1	4	2016	99999999	3.8	100	3.8	
R	AS1	5	2016	99999999	3.8	120	4.56	
R	AS1	6	2016	99999999	3.8	120	4.56	
R	AS1	7	2016	99999999	3.8	120	4.56	
R	AS1	8	2016	99999999	3.8	120	4.56	
R	AS1	*	2016	99999999	3.8	100	3.8	
R	AS2	1	2016	99999999	5.7	80	4.56	
R	AS2	2	2016	99999999	5.7	80	4.56	
R	AS2	3	2016	99999999	5.7	80	4.56	
R	AS2	4	2016	99999999	5.7	100	5.7	
R	AS2	5	2016	99999999	5.7	120	6.84	
R	AS2	6	2016	99999999	5.7	120	6.84	
R	AS2	7	2016	99999999	5.7	120	6.84	
R	AS2	8	2016	99999999	5.7	120	6.84	
R	AS2	*	2016	99999999	5.7	100	5.7	
R	AS3	1	2016	99999999	8.5	80	6.8	
R	AS3	2	2016	99999999	8.5	80	6.8	
R	AS3	3	2016	99999999	8.5	80	6.8	
R	AS3	4	2016	99999999	8.5	100	8.5	
R	AS3	5	2016	99999999	8.5	120	10.2	
R	AS3	6	2016	99999999	8.5	120	10.2	
R	AS3	7	2016	99999999	8.5	120	10.2	
R	AS3	8	2016	99999999	8.5	120	10.2	
R	AS3	*	2016	99999999	8.5	100	8.5	
R	ATT	1	2016	99999999	6.5	35	2.28	
R	ATT	2	2016	99999999	6.5	55	3.58	
R	ATT	3	2016	99999999	6.5	78	5.07	
R	ATT	4	2016	99999999	6.5	100	6.5	
R	ATT	5	2016	99999999	6.5	128	8.32	
R	ATT	6	2016	99999999	6.5	168	10.92	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	ATT	7	2016	99999999	6.5	230	14.95	
R	ATT	8	2016	99999999	6.5	261	16.97	
R	ATT	*	2016	99999999	6.5	100	6.5	0
R	ATT	1-	2016	99999999	6.5	30	1.95	
R	ATT	1+	2016	99999999	6.5	40	2.6	
R	ATT	2-	2016	99999999	6.5	47	3.06	
R	ATT	2+	2016	99999999	6.5	63	4.1	
R	ATT	3-	2016	1E+12	6.5	70	4.55	
R	ATT	3+	2016	99999999	6.5	86	5.59	
R	ATT	4-	2016	99999999	6.5	92	5.98	
R	ATT	4+	2016	99999999	6.5	107	6.96	
R	ATT	5-	2016	99999999	6.5	117	7.61	
R	ATT	5+	2016	99999999	6.5	141	9.17	
R	ATT	6-	2016	99999999	6.5	152	9.88	
R	ATT	6+	2016	99999999	6.5	187	12.16	
R	ATT	7-	2016	99999999	6.5	204	13.26	
R	ATT	7+	2016	99999999	6.5	259	16.84	
R	ATT	8-	2016	99999999	6.5	230	14.95	
R	ATT	8+	2016	99999999	6.5	295	19.18	
R	AU	1	2016	99999999	3.25	35	1.14	
R	AU	2	2016	99999999	3.25	55	1.79	
R	AU	3	2016	99999999	3.25	78	2.54	
R	AU	4	2016	99999999	3.25	100	3.25	
R	AU	5	2016	99999999	3.25	128	4.16	
R	AU	6	2016	99999999	3.25	168	5.46	
R	AU	7	2016	99999999	3.25	230	7.48	
R	AU	8	2016	99999999	3.25	261	8.48	
R	AU	*	2016	99999999	3.25	100	3.25	
R	AU	1-	2016	99999999	3.25	30	0.98	
R	AU	1+	2016	99999999	3.25	40	1.3	
R	AU	2-	2016	99999999	3.25	47	1.53	
R	AU	2+	2016	99999999	3.25	63	2.05	
R	AU	3-	2016	99999999	3.25	70	2.28	
R	AU	3+	2016	99999999	3.25	86	2.8	
R	AU	4-	2016	99999999	3.25	92	2.99	
R	AU	4+	2016	99999999	3.25	107	3.48	
R	AU	5-	2016	99999999	3.25	117	3.8	
R	AU	5+	2016	99999999	3.25	141	4.58	
R	AU	6-	2016	99999999	3.25	152	4.94	
R	AU	6+	2016	99999999	3.25	187	6.08	
R	AU	7-	2016	99999999	3.25	204	6.63	
R	AU	7+	2016	99999999	3.25	259	8.42	
R	AU	8-	2016	99999999	3.25	230	7.47	
R	AU	8+	2016	99999999	3.25	295	9.59	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	1	2016	1300	12.26	78	9.56	0.0025
R	AX	1	2016	1280	12.32	78	9.61	0.002188
R	AX	1	2016	1216	12.5	78	9.75	0.002396
R	AX	1	2016	1120	12.79	78	9.98	0.002857
R	AX	1	2016	1092	12.9	78	10.06	0.002857
R	AX	1	2016	1064	13	78	10.14	0.002857
R	AX	1	2016	1036	13.1	78	10.22	0.003214
R	AX	1	2016	1008	13.22	78	10.31	0.003571
R	AX	1	2016	980	13.34	78	10.41	0.002857
R	AX	1	2016	952	13.45	78	10.49	0.003929
R	AX	1	2016	924	13.59	78	10.6	0.003929
R	AX	1	2016	896	13.73	78	10.71	0.003929
R	AX	1	2016	868	13.87	78	10.82	0.004286
R	AX	1	2016	840	14.02	78	10.94	0.004167
R	AX	1	2016	816	14.16	78	11.04	0.005
R	AX	1	2016	812	14.18	78	11.06	0.005
R	AX	1	2016	792	14.31	78	11.16	0.00375
R	AX	1	2016	784	14.35	78	11.19	0.005625
R	AX	1	2016	768	14.46	78	11.28	0.005
R	AX	1	2016	756	14.54	78	11.34	0.005
R	AX	1	2016	744	14.62	78	11.4	0.005625
R	AX	1	2016	728	14.73	78	11.49	0.00625
R	AX	1	2016	720	14.8	78	11.54	0.006
R	AX	1	2016	700	14.95	78	11.66	0.005
R	AX	1	2016	696	14.98	78	11.68	0.006875
R	AX	1	2016	680	15.11	78	11.79	0.005
R	AX	1	2016	672	15.17	78	11.83	0.0075
R	AX	1	2016	660	15.28	78	11.92	0.006667
R	AX	1	2016	648	15.38	78	12	0.0075
R	AX	1	2016	640	15.46	78	12.06	0.006875
R	AX	1	2016	624	15.6	78	12.17	0.0075
R	AX	1	2016	620	15.64	78	12.2	0.008
R	AX	1	2016	600	15.84	78	12.36	0.008
R	AX	1	2016	580	16.05	78	12.52	0.0075
R	AX	1	2016	576	16.09	78	12.55	0.00875
R	AX	1	2016	560	16.27	78	12.69	0.01
R	AX	1	2016	552	16.37	78	12.77	0.01
R	AX	1	2016	540	16.52	78	12.89	0.008333
R	AX	1	2016	528	16.66	78	12.99	0.01125
R	AX	1	2016	520	16.77	78	13.08	0.010625
R	AX	1	2016	504	16.99	78	13.25	0.0125
R	AX	1	2016	500	17.05	78	13.3	0.0115
R	AX	1	2016	480	17.34	78	13.53	0.012
R	AX	1	2016	460	17.66	78	13.77	0.0125

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	1	2016	456	17.72	78	13.82	0.01375
R	AX	1	2016	440	18	78	14.04	0.015
R	AX	1	2016	432	18.15	78	14.16	0.014167
R	AX	1	2016	420	18.37	78	14.33	0.016
R	AX	1	2016	400	18.78	78	14.65	0.0175
R	AX	1	2016	380	19.23	78	15	0.019
R	AX	1	2016	360	19.72	78	15.38	0.02125
R	AX	1	2016	352	19.93	78	15.55	0.02125
R	AX	1	2016	336	20.37	78	15.89	0.02375
R	AX	1	2016	320	20.86	78	16.27	0.028
R	AX	1	2016	280	22.3	78	17.39	0.03675
R	AX	1	2016	240	24.18	78	18.86	0.04975
R	AX	1	2016	200	26.73	78	20.85	0
R	AX	2	2016	1300	12.26	78	9.56	0.0025
R	AX	2	2016	1280	12.32	78	9.61	0.002188
R	AX	2	2016	1216	12.5	78	9.75	0.002396
R	AX	2	2016	1120	12.79	78	9.98	0.002857
R	AX	2	2016	1092	12.9	78	10.06	0.002857
R	AX	2	2016	1064	13	78	10.14	0.002857
R	AX	2	2016	1036	13.1	78	10.22	0.003214
R	AX	2	2016	1008	13.22	78	10.31	0.003571
R	AX	2	2016	980	13.34	78	10.41	0.002857
R	AX	2	2016	952	13.45	78	10.49	0.003929
R	AX	2	2016	924	13.59	78	10.6	0.003929
R	AX	2	2016	896	13.73	78	10.71	0.003929
R	AX	2	2016	868	13.87	78	10.82	0.004286
R	AX	2	2016	840	14.02	78	10.94	0.004167
R	AX	2	2016	816	14.16	78	11.04	0.005
R	AX	2	2016	812	14.18	78	11.06	0.005
R	AX	2	2016	792	14.31	78	11.16	0.00375
R	AX	2	2016	784	14.35	78	11.19	0.005625
R	AX	2	2016	768	14.46	78	11.28	0.005
R	AX	2	2016	756	14.54	78	11.34	0.005
R	AX	2	2016	744	14.62	78	11.4	0.005625
R	AX	2	2016	728	14.73	78	11.49	0.00625
R	AX	2	2016	720	14.8	78	11.54	0.006
R	AX	2	2016	700	14.95	78	11.66	0.005
R	AX	2	2016	696	14.98	78	11.68	0.006875
R	AX	2	2016	680	15.11	78	11.79	0.005
R	AX	2	2016	672	15.17	78	11.83	0.0075
R	AX	2	2016	660	15.28	78	11.92	0.006667
R	AX	2	2016	648	15.38	78	12	0.0075
R	AX	2	2016	640	15.46	78	12.06	0.006875
R	AX	2	2016	624	15.6	78	12.17	0.0075

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	2	2016	620	15.64	78	12.2	0.008
R	AX	2	2016	600	15.84	78	12.36	0.008
R	AX	2	2016	580	16.05	78	12.52	0.0075
R	AX	2	2016	576	16.09	78	12.55	0.00875
R	AX	2	2016	560	16.27	78	12.69	0.01
R	AX	2	2016	552	16.37	78	12.77	0.01
R	AX	2	2016	540	16.52	78	12.89	0.008333
R	AX	2	2016	528	16.66	78	12.99	0.01125
R	AX	2	2016	520	16.77	78	13.08	0.010625
R	AX	2	2016	504	16.99	78	13.25	0.0125
R	AX	2	2016	500	17.05	78	13.3	0.0115
R	AX	2	2016	480	17.34	78	13.53	0.012
R	AX	2	2016	460	17.66	78	13.77	0.0125
R	AX	2	2016	456	17.72	78	13.82	0.01375
R	AX	2	2016	440	18	78	14.04	0.015
R	AX	2	2016	432	18.15	78	14.16	0.014167
R	AX	2	2016	420	18.37	78	14.33	0.016
R	AX	2	2016	400	18.78	78	14.65	0.0175
R	AX	2	2016	380	19.23	78	15	0.019
R	AX	2	2016	360	19.72	78	15.38	0.02125
R	AX	2	2016	352	19.93	78	15.55	0.02125
R	AX	2	2016	336	20.37	78	15.89	0.02375
R	AX	2	2016	320	20.86	78	16.27	0.028
R	AX	2	2016	280	22.3	78	17.39	0.03675
R	AX	2	2016	240	24.18	78	18.86	0.04975
R	AX	2	2016	200	26.73	78	20.85	0
R	AX	3	2016	1300	12.26	78	9.56	0.0025
R	AX	3	2016	1280	12.32	78	9.61	0.002188
R	AX	3	2016	1216	12.5	78	9.75	0.002396
R	AX	3	2016	1120	12.79	78	9.98	0.002857
R	AX	3	2016	1092	12.9	78	10.06	0.002857
R	AX	3	2016	1064	13	78	10.14	0.002857
R	AX	3	2016	1036	13.1	78	10.22	0.003214
R	AX	3	2016	1008	13.22	78	10.31	0.003571
R	AX	3	2016	980	13.34	78	10.41	0.002857
R	AX	3	2016	952	13.45	78	10.49	0.003929
R	AX	3	2016	924	13.59	78	10.6	0.003929
R	AX	3	2016	896	13.73	78	10.71	0.003929
R	AX	3	2016	868	13.87	78	10.82	0.004286
R	AX	3	2016	840	14.02	78	10.94	0.004167
R	AX	3	2016	816	14.16	78	11.04	0.005
R	AX	3	2016	812	14.18	78	11.06	0.005
R	AX	3	2016	792	14.31	78	11.16	0.00375
R	AX	3	2016	784	14.35	78	11.19	0.005625

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	3	2016	768	14.46	78	11.28	0.005
R	AX	3	2016	756	14.54	78	11.34	0.005
R	AX	3	2016	744	14.62	78	11.4	0.005625
R	AX	3	2016	728	14.73	78	11.49	0.00625
R	AX	3	2016	720	14.8	78	11.54	0.006
R	AX	3	2016	700	14.95	78	11.66	0.005
R	AX	3	2016	696	14.98	78	11.68	0.006875
R	AX	3	2016	680	15.11	78	11.79	0.005
R	AX	3	2016	672	15.17	78	11.83	0.0075
R	AX	3	2016	660	15.28	78	11.92	0.006667
R	AX	3	2016	648	15.38	78	12	0.0075
R	AX	3	2016	640	15.46	78	12.06	0.006875
R	AX	3	2016	624	15.6	78	12.17	0.0075
R	AX	3	2016	620	15.64	78	12.2	0.008
R	AX	3	2016	600	15.84	78	12.36	0.008
R	AX	3	2016	580	16.05	78	12.52	0.0075
R	AX	3	2016	576	16.09	78	12.55	0.00875
R	AX	3	2016	560	16.27	78	12.69	0.01
R	AX	3	2016	552	16.37	78	12.77	0.01
R	AX	3	2016	540	16.52	78	12.89	0.008333
R	AX	3	2016	528	16.66	78	12.99	0.01125
R	AX	3	2016	520	16.77	78	13.08	0.010625
R	AX	3	2016	504	16.99	78	13.25	0.0125
R	AX	3	2016	500	17.05	78	13.3	0.0115
R	AX	3	2016	480	17.34	78	13.53	0.012
R	AX	3	2016	460	17.66	78	13.77	0.0125
R	AX	3	2016	456	17.72	78	13.82	0.01375
R	AX	3	2016	440	18	78	14.04	0.015
R	AX	3	2016	432	18.15	78	14.16	0.014167
R	AX	3	2016	420	18.37	78	14.33	0.016
R	AX	3	2016	400	18.78	78	14.65	0.0175
R	AX	3	2016	380	19.23	78	15	0.019
R	AX	3	2016	360	19.72	78	15.38	0.02125
R	AX	3	2016	352	19.93	78	15.55	0.02125
R	AX	3	2016	336	20.37	78	15.89	0.02375
R	AX	3	2016	320	20.86	78	16.27	0.028
R	AX	3	2016	280	22.3	78	17.39	0.03675
R	AX	3	2016	240	24.18	78	18.86	0.04975
R	AX	3	2016	200	26.73	78	20.85	0
R	AX	4	2016	1300	12.26	100	12.26	0.003
R	AX	4	2016	1280	12.32	100	12.32	0.002812
R	AX	4	2016	1216	12.5	100	12.5	0.003021
R	AX	4	2016	1120	12.79	100	12.79	0.003929
R	AX	4	2016	1092	12.9	100	12.9	0.003571

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	AX	4	2016	1064	13	100	13	0.003571
R	AX	4	2016	1036	13.1	100	13.1	0.004286
R	AX	4	2016	1008	13.22	100	13.22	0.004286
R	AX	4	2016	980	13.34	100	13.34	0.003929
R	AX	4	2016	952	13.45	100	13.45	0.005
R	AX	4	2016	924	13.59	100	13.59	0.005
R	AX	4	2016	896	13.73	100	13.73	0.005
R	AX	4	2016	868	13.87	100	13.87	0.005357
R	AX	4	2016	840	14.02	100	14.02	0.005833
R	AX	4	2016	816	14.16	100	14.16	0.005
R	AX	4	2016	812	14.18	100	14.18	0.0065
R	AX	4	2016	792	14.31	100	14.31	0.005
R	AX	4	2016	784	14.35	100	14.35	0.006875
R	AX	4	2016	768	14.46	100	14.46	0.006667
R	AX	4	2016	756	14.54	100	14.54	0.006667
R	AX	4	2016	744	14.62	100	14.62	0.006875
R	AX	4	2016	728	14.73	100	14.73	0.00875
R	AX	4	2016	720	14.8	100	14.8	0.0075
R	AX	4	2016	700	14.95	100	14.95	0.0075
R	AX	4	2016	696	14.98	100	14.98	0.008125
R	AX	4	2016	680	15.11	100	15.11	0.0075
R	AX	4	2016	672	15.17	100	15.17	0.009167
R	AX	4	2016	660	15.28	100	15.28	0.008333
R	AX	4	2016	648	15.38	100	15.38	0.01
R	AX	4	2016	640	15.46	100	15.46	0.00875
R	AX	4	2016	624	15.6	100	15.6	0.01
R	AX	4	2016	620	15.64	100	15.64	0.01
R	AX	4	2016	600	15.84	100	15.84	0.0105
R	AX	4	2016	580	16.05	100	16.05	0.01
R	AX	4	2016	576	16.09	100	16.09	0.01125
R	AX	4	2016	560	16.27	100	16.27	0.0125
R	AX	4	2016	552	16.37	100	16.37	0.0125
R	AX	4	2016	540	16.52	100	16.52	0.011667
R	AX	4	2016	528	16.66	100	16.66	0.01375
R	AX	4	2016	520	16.77	100	16.77	0.01375
R	AX	4	2016	504	16.99	100	16.99	0.015
R	AX	4	2016	500	17.05	100	17.05	0.0145
R	AX	4	2016	480	17.34	100	17.34	0.016
R	AX	4	2016	460	17.66	100	17.66	0.015
R	AX	4	2016	456	17.72	100	17.72	0.0175
R	AX	4	2016	440	18	100	18	0.01875
R	AX	4	2016	432	18.15	100	18.15	0.018333
R	AX	4	2016	420	18.37	100	18.37	0.0205
R	AX	4	2016	400	18.78	100	18.78	0.0225

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	4	2016	380	19.23	100	19.23	0.0245
R	AX	4	2016	360	19.72	100	19.72	0.02625
R	AX	4	2016	352	19.93	100	19.93	0.0275
R	AX	4	2016	336	20.37	100	20.37	0.030625
R	AX	4	2016	320	20.86	100	20.86	0.036
R	AX	4	2016	280	22.3	100	22.3	0.047
R	AX	4	2016	240	24.18	100	24.18	0.06375
R	AX	4	2016	200	26.73	100	26.73	0
R	AX	5	2016	1300	12.26	126	15.45	0.0035
R	AX	5	2016	1280	12.32	126	15.52	0.003594
R	AX	5	2016	1216	12.5	126	15.75	0.003854
R	AX	5	2016	1120	12.79	126	16.12	0.004643
R	AX	5	2016	1092	12.9	126	16.25	0.004643
R	AX	5	2016	1064	13	126	16.38	0.004643
R	AX	5	2016	1036	13.1	126	16.51	0.005357
R	AX	5	2016	1008	13.22	126	16.66	0.005357
R	AX	5	2016	980	13.34	126	16.81	0.005
R	AX	5	2016	952	13.45	126	16.95	0.006071
R	AX	5	2016	924	13.59	126	17.12	0.006429
R	AX	5	2016	896	13.73	126	17.3	0.006429
R	AX	5	2016	868	13.87	126	17.48	0.006786
R	AX	5	2016	840	14.02	126	17.67	0.007083
R	AX	5	2016	816	14.16	126	17.84	0.0075
R	AX	5	2016	812	14.18	126	17.87	0.008
R	AX	5	2016	792	14.31	126	18.03	0.00625
R	AX	5	2016	784	14.35	126	18.08	0.00875
R	AX	5	2016	768	14.46	126	18.22	0.008333
R	AX	5	2016	756	14.54	126	18.32	0.008333
R	AX	5	2016	744	14.62	126	18.42	0.00875
R	AX	5	2016	728	14.73	126	18.56	0.01125
R	AX	5	2016	720	14.8	126	18.65	0.0095
R	AX	5	2016	700	14.95	126	18.84	0.0075
R	AX	5	2016	696	14.98	126	18.87	0.010625
R	AX	5	2016	680	15.11	126	19.04	0.00875
R	AX	5	2016	672	15.17	126	19.11	0.011667
R	AX	5	2016	660	15.28	126	19.25	0.010833
R	AX	5	2016	648	15.38	126	19.38	0.0125
R	AX	5	2016	640	15.46	126	19.48	0.01125
R	AX	5	2016	624	15.6	126	19.66	0.0125
R	AX	5	2016	620	15.64	126	19.71	0.0125
R	AX	5	2016	600	15.84	126	19.96	0.013
R	AX	5	2016	580	16.05	126	20.22	0.0125
R	AX	5	2016	576	16.09	126	20.27	0.014375
R	AX	5	2016	560	16.27	126	20.5	0.01625

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	5	2016	552	16.37	126	20.63	0.015833
R	AX	5	2016	540	16.52	126	20.82	0.014167
R	AX	5	2016	528	16.66	126	20.99	0.0175
R	AX	5	2016	520	16.77	126	21.13	0.0175
R	AX	5	2016	504	16.99	126	21.41	0.0175
R	AX	5	2016	500	17.05	126	21.48	0.0185
R	AX	5	2016	480	17.34	126	21.85	0.02
R	AX	5	2016	460	17.66	126	22.25	0.02
R	AX	5	2016	456	17.72	126	22.33	0.021875
R	AX	5	2016	440	18	126	22.68	0.02375
R	AX	5	2016	432	18.15	126	22.87	0.023333
R	AX	5	2016	420	18.37	126	23.15	0.0255
R	AX	5	2016	400	18.78	126	23.66	0.0285
R	AX	5	2016	380	19.23	126	24.23	0.031
R	AX	5	2016	360	19.72	126	24.85	0.0325
R	AX	5	2016	352	19.93	126	25.11	0.035
R	AX	5	2016	336	20.37	126	25.67	0.038125
R	AX	5	2016	320	20.86	126	26.28	0.0455
R	AX	5	2016	280	22.3	126	28.1	0.05925
R	AX	5	2016	240	24.18	126	30.47	0.08025
R	AX	5	2016	200	26.73	126	33.68	0
R	AX	6	2016	1300	12.26	126	15.45	0.0035
R	AX	6	2016	1280	12.32	126	15.52	0.003594
R	AX	6	2016	1216	12.5	126	15.75	0.003854
R	AX	6	2016	1120	12.79	126	16.12	0.004643
R	AX	6	2016	1092	12.9	126	16.25	0.004643
R	AX	6	2016	1064	13	126	16.38	0.004643
R	AX	6	2016	1036	13.1	126	16.51	0.005357
R	AX	6	2016	1008	13.22	126	16.66	0.005357
R	AX	6	2016	980	13.34	126	16.81	0.005
R	AX	6	2016	952	13.45	126	16.95	0.006071
R	AX	6	2016	924	13.59	126	17.12	0.006429
R	AX	6	2016	896	13.73	126	17.3	0.006429
R	AX	6	2016	868	13.87	126	17.48	0.006786
R	AX	6	2016	840	14.02	126	17.67	0.007083
R	AX	6	2016	816	14.16	126	17.84	0.0075
R	AX	6	2016	812	14.18	126	17.87	0.008
R	AX	6	2016	792	14.31	126	18.03	0.00625
R	AX	6	2016	784	14.35	126	18.08	0.00875
R	AX	6	2016	768	14.46	126	18.22	0.008333
R	AX	6	2016	756	14.54	126	18.32	0.008333
R	AX	6	2016	744	14.62	126	18.42	0.00875
R	AX	6	2016	728	14.73	126	18.56	0.01125
R	AX	6	2016	720	14.8	126	18.65	0.0095

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	6	2016	700	14.95	126	18.84	0.0075
R	AX	6	2016	696	14.98	126	18.87	0.010625
R	AX	6	2016	680	15.11	126	19.04	0.00875
R	AX	6	2016	672	15.17	126	19.11	0.011667
R	AX	6	2016	660	15.28	126	19.25	0.010833
R	AX	6	2016	648	15.38	126	19.38	0.0125
R	AX	6	2016	640	15.46	126	19.48	0.01125
R	AX	6	2016	624	15.6	126	19.66	0.0125
R	AX	6	2016	620	15.64	126	19.71	0.0125
R	AX	6	2016	600	15.84	126	19.96	0.013
R	AX	6	2016	580	16.05	126	20.22	0.0125
R	AX	6	2016	576	16.09	126	20.27	0.014375
R	AX	6	2016	560	16.27	126	20.5	0.01625
R	AX	6	2016	552	16.37	126	20.63	0.015833
R	AX	6	2016	540	16.52	126	20.82	0.014167
R	AX	6	2016	528	16.66	126	20.99	0.0175
R	AX	6	2016	520	16.77	126	21.13	0.0175
R	AX	6	2016	504	16.99	126	21.41	0.0175
R	AX	6	2016	500	17.05	126	21.48	0.0185
R	AX	6	2016	480	17.34	126	21.85	0.02
R	AX	6	2016	460	17.66	126	22.25	0.02
R	AX	6	2016	456	17.72	126	22.33	0.021875
R	AX	6	2016	440	18	126	22.68	0.02375
R	AX	6	2016	432	18.15	126	22.87	0.023333
R	AX	6	2016	420	18.37	126	23.15	0.0255
R	AX	6	2016	400	18.78	126	23.66	0.0285
R	AX	6	2016	380	19.23	126	24.23	0.031
R	AX	6	2016	360	19.72	126	24.85	0.0325
R	AX	6	2016	352	19.93	126	25.11	0.035
R	AX	6	2016	336	20.37	126	25.67	0.038125
R	AX	6	2016	320	20.86	126	26.28	0.0455
R	AX	6	2016	280	22.3	126	28.1	0.05925
R	AX	6	2016	240	24.18	126	30.47	0.08025
R	AX	6	2016	200	26.73	126	33.68	0
R	AX	7	2016	1300	12.26	126	15.45	0.0035
R	AX	7	2016	1280	12.32	126	15.52	0.003594
R	AX	7	2016	1216	12.5	126	15.75	0.003854
R	AX	7	2016	1120	12.79	126	16.12	0.004643
R	AX	7	2016	1092	12.9	126	16.25	0.004643
R	AX	7	2016	1064	13	126	16.38	0.004643
R	AX	7	2016	1036	13.1	126	16.51	0.005357
R	AX	7	2016	1008	13.22	126	16.66	0.005357
R	AX	7	2016	980	13.34	126	16.81	0.005
R	AX	7	2016	952	13.45	126	16.95	0.006071

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	7	2016	924	13.59	126	17.12	0.006429
R	AX	7	2016	896	13.73	126	17.3	0.006429
R	AX	7	2016	868	13.87	126	17.48	0.006786
R	AX	7	2016	840	14.02	126	17.67	0.007083
R	AX	7	2016	816	14.16	126	17.84	0.0075
R	AX	7	2016	812	14.18	126	17.87	0.008
R	AX	7	2016	792	14.31	126	18.03	0.00625
R	AX	7	2016	784	14.35	126	18.08	0.00875
R	AX	7	2016	768	14.46	126	18.22	0.008333
R	AX	7	2016	756	14.54	126	18.32	0.008333
R	AX	7	2016	744	14.62	126	18.42	0.00875
R	AX	7	2016	728	14.73	126	18.56	0.01125
R	AX	7	2016	720	14.8	126	18.65	0.0095
R	AX	7	2016	700	14.95	126	18.84	0.0075
R	AX	7	2016	696	14.98	126	18.87	0.010625
R	AX	7	2016	680	15.11	126	19.04	0.00875
R	AX	7	2016	672	15.17	126	19.11	0.011667
R	AX	7	2016	660	15.28	126	19.25	0.010833
R	AX	7	2016	648	15.38	126	19.38	0.0125
R	AX	7	2016	640	15.46	126	19.48	0.01125
R	AX	7	2016	624	15.6	126	19.66	0.0125
R	AX	7	2016	620	15.64	126	19.71	0.0125
R	AX	7	2016	600	15.84	126	19.96	0.013
R	AX	7	2016	580	16.05	126	20.22	0.0125
R	AX	7	2016	576	16.09	126	20.27	0.014375
R	AX	7	2016	560	16.27	126	20.5	0.01625
R	AX	7	2016	552	16.37	126	20.63	0.015833
R	AX	7	2016	540	16.52	126	20.82	0.014167
R	AX	7	2016	528	16.66	126	20.99	0.0175
R	AX	7	2016	520	16.77	126	21.13	0.0175
R	AX	7	2016	504	16.99	126	21.41	0.0175
R	AX	7	2016	500	17.05	126	21.48	0.0185
R	AX	7	2016	480	17.34	126	21.85	0.02
R	AX	7	2016	460	17.66	126	22.25	0.02
R	AX	7	2016	456	17.72	126	22.33	0.021875
R	AX	7	2016	440	18	126	22.68	0.02375
R	AX	7	2016	432	18.15	126	22.87	0.023333
R	AX	7	2016	420	18.37	126	23.15	0.0255
R	AX	7	2016	400	18.78	126	23.66	0.0285
R	AX	7	2016	380	19.23	126	24.23	0.031
R	AX	7	2016	360	19.72	126	24.85	0.0325
R	AX	7	2016	352	19.93	126	25.11	0.035
R	AX	7	2016	336	20.37	126	25.67	0.038125
R	AX	7	2016	320	20.86	126	26.28	0.0455

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	7	2016	280	22.3	126	28.1	0.05925
R	AX	7	2016	240	24.18	126	30.47	0.08025
R	AX	7	2016	200	26.73	126	33.68	0
R	AX	*	2016	1300	12.26	100	12.26	0.003
R	AX	*	2016	1280	12.32	100	12.32	0.002812
R	AX	*	2016	1216	12.5	100	12.5	0.003021
R	AX	*	2016	1120	12.79	100	12.79	0.003929
R	AX	*	2016	1092	12.9	100	12.9	0.003571
R	AX	*	2016	1064	13	100	13	0.003571
R	AX	*	2016	1036	13.1	100	13.1	0.004286
R	AX	*	2016	1008	13.22	100	13.22	0.004286
R	AX	*	2016	980	13.34	100	13.34	0.003929
R	AX	*	2016	952	13.45	100	13.45	0.005
R	AX	*	2016	924	13.59	100	13.59	0.005
R	AX	*	2016	896	13.73	100	13.73	0.005
R	AX	*	2016	868	13.87	100	13.87	0.005357
R	AX	*	2016	840	14.02	100	14.02	0.005833
R	AX	*	2016	816	14.16	100	14.16	0.005
R	AX	*	2016	812	14.18	100	14.18	0.0065
R	AX	*	2016	792	14.31	100	14.31	0.005
R	AX	*	2016	784	14.35	100	14.35	0.006875
R	AX	*	2016	768	14.46	100	14.46	0.006667
R	AX	*	2016	756	14.54	100	14.54	0.006667
R	AX	*	2016	744	14.62	100	14.62	0.006875
R	AX	*	2016	728	14.73	100	14.73	0.00875
R	AX	*	2016	720	14.8	100	14.8	0.0075
R	AX	*	2016	700	14.95	100	14.95	0.0075
R	AX	*	2016	696	14.98	100	14.98	0.008125
R	AX	*	2016	680	15.11	100	15.11	0.0075
R	AX	*	2016	672	15.17	100	15.17	0.009167
R	AX	*	2016	660	15.28	100	15.28	0.008333
R	AX	*	2016	648	15.38	100	15.38	0.01
R	AX	*	2016	640	15.46	100	15.46	0.00875
R	AX	*	2016	624	15.6	100	15.6	0.01
R	AX	*	2016	620	15.64	100	15.64	0.01
R	AX	*	2016	600	15.84	100	15.84	0.0105
R	AX	*	2016	580	16.05	100	16.05	0.01
R	AX	*	2016	576	16.09	100	16.09	0.01125
R	AX	*	2016	560	16.27	100	16.27	0.0125
R	AX	*	2016	552	16.37	100	16.37	0.0125
R	AX	*	2016	540	16.52	100	16.52	0.011667
R	AX	*	2016	528	16.66	100	16.66	0.01375
R	AX	*	2016	520	16.77	100	16.77	0.01375
R	AX	*	2016	504	16.99	100	16.99	0.015

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX	*	2016	500	17.05	100	17.05	0.0145
R	AX	*	2016	480	17.34	100	17.34	0.016
R	AX	*	2016	460	17.66	100	17.66	0.015
R	AX	*	2016	456	17.72	100	17.72	0.0175
R	AX	*	2016	440	18	100	18	0.01875
R	AX	*	2016	432	18.15	100	18.15	0.018333
R	AX	*	2016	420	18.37	100	18.37	0.0205
R	AX	*	2016	400	18.78	100	18.78	0.0225
R	AX	*	2016	380	19.23	100	19.23	0.0245
R	AX	*	2016	360	19.72	100	19.72	0.02625
R	AX	*	2016	352	19.93	100	19.93	0.0275
R	AX	*	2016	336	20.37	100	20.37	0.030625
R	AX	*	2016	320	20.86	100	20.86	0.036
R	AX	*	2016	280	22.3	100	22.3	0.047
R	AX	*	2016	240	24.18	100	24.18	0.06375
R	AX	*	2016	200	26.73	100	26.73	0
R	AX1	1	2016	99999999	12.6	60	7.56	0
R	AX1	1	2016	22000	12.6	60	7.56	0.00002
R	AX1	1	2016	21500	12.61	60	7.57	0
R	AX1	1	2016	21000	12.62	60	7.57	0.00002
R	AX1	1	2016	20500	12.64	60	7.58	0.00002
R	AX1	1	2016	20000	12.65	60	7.59	0.00002
R	AX1	1	2016	19500	12.67	60	7.6	0.00002
R	AX1	1	2016	19000	12.68	60	7.61	0
R	AX1	1	2016	18500	12.69	60	7.61	0.00004
R	AX1	1	2016	18000	12.72	60	7.63	0.00002
R	AX1	1	2016	17500	12.73	60	7.64	0.00002
R	AX1	1	2016	17000	12.75	60	7.65	0.00002
R	AX1	1	2016	16500	12.77	60	7.66	0.00002
R	AX1	1	2016	16000	12.79	60	7.67	0.00004
R	AX1	1	2016	15500	12.81	60	7.69	0.00002
R	AX1	1	2016	15000	12.83	60	7.7	0.00002
R	AX1	1	2016	14500	12.85	60	7.71	0.00002
R	AX1	1	2016	14000	12.87	60	7.72	0.00004
R	AX1	1	2016	13500	12.9	60	7.74	0.00004
R	AX1	1	2016	13000	12.94	60	7.76	0.00004
R	AX1	1	2016	12500	12.96	60	7.78	0.00002
R	AX1	1	2016	12000	12.99	60	7.79	0.00004
R	AX1	1	2016	11500	13.02	60	7.81	0.00004
R	AX1	1	2016	11000	13.05	60	7.83	0.00004
R	AX1	1	2016	10500	13.08	60	7.85	0.00004
R	AX1	1	2016	10000	13.11	60	7.87	0.00002
R	AX1	1	2016	9500	13.14	60	7.88	0.00006
R	AX1	1	2016	9000	13.18	60	7.91	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	1	2016	8500	13.25	60	7.95	0.00008
R	AX1	1	2016	8000	13.31	60	7.99	0.00006
R	AX1	1	2016	7500	13.36	60	8.02	0.00008
R	AX1	1	2016	7000	13.43	60	8.06	0.00008
R	AX1	1	2016	6500	13.5	60	8.1	0.0001
R	AX1	1	2016	6000	13.59	60	8.15	0.00012
R	AX1	1	2016	5500	13.69	60	8.21	0.00014
R	AX1	1	2016	5000	13.8	60	8.28	0.00012
R	AX1	1	2016	4750	13.85	60	8.31	0.00016
R	AX1	1	2016	4500	13.92	60	8.35	0.00012
R	AX1	1	2016	4250	13.97	60	8.38	0.00024
R	AX1	1	2016	4000	14.06	60	8.44	0.00024
R	AX1	1	2016	3750	14.17	60	8.5	0.00028
R	AX1	1	2016	3500	14.29	60	8.57	0.00032
R	AX1	1	2016	3250	14.41	60	8.65	0.00024
R	AX1	1	2016	3000	14.52	60	8.71	0.0003
R	AX1	1	2016	2900	14.56	60	8.74	0.0002
R	AX1	1	2016	2800	14.6	60	8.76	0.0003
R	AX1	1	2016	2700	14.65	60	8.79	0.0003
R	AX1	1	2016	2600	14.7	60	8.82	0.0002
R	AX1	1	2016	2500	14.74	60	8.84	0.0003
R	AX1	1	2016	2400	14.78	60	8.87	0.0003
R	AX1	1	2016	2300	14.83	60	8.9	0.0005
R	AX1	1	2016	2200	14.91	60	8.95	0.0005
R	AX1	1	2016	2100	15	60	9	0.0005
R	AX1	1	2016	2000	15.09	60	9.05	0.0006
R	AX1	1	2016	1900	15.19	60	9.11	0.0006
R	AX1	1	2016	1800	15.28	60	9.17	0.0006
R	AX1	1	2016	1700	15.38	60	9.23	0.0005
R	AX1	1	2016	1600	15.47	60	9.28	0.001
R	AX1	1	2016	1500	15.64	60	9.38	0.0009
R	AX1	1	2016	1400	15.79	60	9.47	0.0011
R	AX1	1	2016	1300	15.96	60	9.58	0.001
R	AX1	1	2016	1200	16.13	60	9.68	0.0011
R	AX1	1	2016	1100	16.32	60	9.79	0.0013
R	AX1	1	2016	1000	16.54	60	9.92	0.002
R	AX1	1	2016	950	16.7	60	10.02	0.0022
R	AX1	1	2016	900	16.88	60	10.13	0.0018
R	AX1	1	2016	850	17.04	60	10.22	0.0024
R	AX1	1	2016	800	17.23	60	10.34	0.0022
R	AX1	1	2016	750	17.41	60	10.45	0.0022
R	AX1	1	2016	700	17.6	60	10.56	0.0026
R	AX1	1	2016	650	17.81	60	10.69	0.0024
R	AX1	1	2016	600	18.01	60	10.81	0.0038

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	1	2016	550	18.34	60	11	0.0054
R	AX1	1	2016	500	18.79	60	11.27	0.0058
R	AX1	1	2016	450	19.26	60	11.56	0.006
R	AX1	1	2016	400	19.77	60	11.86	0.0064
R	AX1	1	2016	350	20.3	60	12.18	0.0068
R	AX1	1	2016	300	20.86	60	12.52	0.008
R	AX1	1	2016	250	21.54	60	12.92	0.015
R	AX1	1	2016	200	22.78	60	13.67	0.0226
R	AX1	1	2016	150	24.67	60	14.8	0.032
R	AX1	1	2016	100	27.34	60	16.4	0.081
R	AX1	1	2016	50	34.08	60	20.45	11.100612
R	AX1	1	2016	1	940.63	60	564.38	0
R	AX1	2	2016	99999999	12.6	60	7.56	0
R	AX1	2	2016	22000	12.6	60	7.56	0.00002
R	AX1	2	2016	21500	12.61	60	7.57	0
R	AX1	2	2016	21000	12.62	60	7.57	0.00002
R	AX1	2	2016	20500	12.64	60	7.58	0.00002
R	AX1	2	2016	20000	12.65	60	7.59	0.00002
R	AX1	2	2016	19500	12.67	60	7.6	0.00002
R	AX1	2	2016	19000	12.68	60	7.61	0
R	AX1	2	2016	18500	12.69	60	7.61	0.00004
R	AX1	2	2016	18000	12.72	60	7.63	0.00002
R	AX1	2	2016	17500	12.73	60	7.64	0.00002
R	AX1	2	2016	17000	12.75	60	7.65	0.00002
R	AX1	2	2016	16500	12.77	60	7.66	0.00002
R	AX1	2	2016	16000	12.79	60	7.67	0.00004
R	AX1	2	2016	15500	12.81	60	7.69	0.00002
R	AX1	2	2016	15000	12.83	60	7.7	0.00002
R	AX1	2	2016	14500	12.85	60	7.71	0.00002
R	AX1	2	2016	14000	12.87	60	7.72	0.00004
R	AX1	2	2016	13500	12.9	60	7.74	0.00004
R	AX1	2	2016	13000	12.94	60	7.76	0.00004
R	AX1	2	2016	12500	12.96	60	7.78	0.00002
R	AX1	2	2016	12000	12.99	60	7.79	0.00004
R	AX1	2	2016	11500	13.02	60	7.81	0.00004
R	AX1	2	2016	11000	13.05	60	7.83	0.00004
R	AX1	2	2016	10500	13.08	60	7.85	0.00004
R	AX1	2	2016	10000	13.11	60	7.87	0.00002
R	AX1	2	2016	9500	13.14	60	7.88	0.00006
R	AX1	2	2016	9000	13.18	60	7.91	0.00008
R	AX1	2	2016	8500	13.25	60	7.95	0.00008
R	AX1	2	2016	8000	13.31	60	7.99	0.00006
R	AX1	2	2016	7500	13.36	60	8.02	0.00008
R	AX1	2	2016	7000	13.43	60	8.06	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	2	2016	6500	13.5	60	8.1	0.0001
R	AX1	2	2016	6000	13.59	60	8.15	0.00012
R	AX1	2	2016	5500	13.69	60	8.21	0.00014
R	AX1	2	2016	5000	13.8	60	8.28	0.00012
R	AX1	2	2016	4750	13.85	60	8.31	0.00016
R	AX1	2	2016	4500	13.92	60	8.35	0.00012
R	AX1	2	2016	4250	13.97	60	8.38	0.00024
R	AX1	2	2016	4000	14.06	60	8.44	0.00024
R	AX1	2	2016	3750	14.17	60	8.5	0.00028
R	AX1	2	2016	3500	14.29	60	8.57	0.00032
R	AX1	2	2016	3250	14.41	60	8.65	0.00024
R	AX1	2	2016	3000	14.52	60	8.71	0.0003
R	AX1	2	2016	2900	14.56	60	8.74	0.0002
R	AX1	2	2016	2800	14.6	60	8.76	0.0003
R	AX1	2	2016	2700	14.65	60	8.79	0.0003
R	AX1	2	2016	2600	14.7	60	8.82	0.0002
R	AX1	2	2016	2500	14.74	60	8.84	0.0003
R	AX1	2	2016	2400	14.78	60	8.87	0.0003
R	AX1	2	2016	2300	14.83	60	8.9	0.0005
R	AX1	2	2016	2200	14.91	60	8.95	0.0005
R	AX1	2	2016	2100	15	60	9	0.0005
R	AX1	2	2016	2000	15.09	60	9.05	0.0006
R	AX1	2	2016	1900	15.19	60	9.11	0.0006
R	AX1	2	2016	1800	15.28	60	9.17	0.0006
R	AX1	2	2016	1700	15.38	60	9.23	0.0005
R	AX1	2	2016	1600	15.47	60	9.28	0.001
R	AX1	2	2016	1500	15.64	60	9.38	0.0009
R	AX1	2	2016	1400	15.79	60	9.47	0.0011
R	AX1	2	2016	1300	15.96	60	9.58	0.001
R	AX1	2	2016	1200	16.13	60	9.68	0.0011
R	AX1	2	2016	1100	16.32	60	9.79	0.0013
R	AX1	2	2016	1000	16.54	60	9.92	0.002
R	AX1	2	2016	950	16.7	60	10.02	0.0022
R	AX1	2	2016	900	16.88	60	10.13	0.0018
R	AX1	2	2016	850	17.04	60	10.22	0.0024
R	AX1	2	2016	800	17.23	60	10.34	0.0022
R	AX1	2	2016	750	17.41	60	10.45	0.0022
R	AX1	2	2016	700	17.6	60	10.56	0.0026
R	AX1	2	2016	650	17.81	60	10.69	0.0024
R	AX1	2	2016	600	18.01	60	10.81	0.0038
R	AX1	2	2016	550	18.34	60	11	0.0054
R	AX1	2	2016	500	18.79	60	11.27	0.0058
R	AX1	2	2016	450	19.26	60	11.56	0.006
R	AX1	2	2016	400	19.77	60	11.86	0.0064

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	2	2016	350	20.3	60	12.18	0.0068
R	AX1	2	2016	300	20.86	60	12.52	0.008
R	AX1	2	2016	250	21.54	60	12.92	0.015
R	AX1	2	2016	200	22.78	60	13.67	0.0226
R	AX1	2	2016	150	24.67	60	14.8	0.032
R	AX1	2	2016	100	27.34	60	16.4	0.081
R	AX1	2	2016	50	34.08	60	20.45	11.100612
R	AX1	2	2016	1	940.63	60	564.38	0
R	AX1	3	2016	99999999	12.6	60	7.56	0
R	AX1	3	2016	22000	12.6	60	7.56	0.00002
R	AX1	3	2016	21500	12.61	60	7.57	0
R	AX1	3	2016	21000	12.62	60	7.57	0.00002
R	AX1	3	2016	20500	12.64	60	7.58	0.00002
R	AX1	3	2016	20000	12.65	60	7.59	0.00002
R	AX1	3	2016	19500	12.67	60	7.6	0.00002
R	AX1	3	2016	19000	12.68	60	7.61	0
R	AX1	3	2016	18500	12.69	60	7.61	0.00004
R	AX1	3	2016	18000	12.72	60	7.63	0.00002
R	AX1	3	2016	17500	12.73	60	7.64	0.00002
R	AX1	3	2016	17000	12.75	60	7.65	0.00002
R	AX1	3	2016	16500	12.77	60	7.66	0.00002
R	AX1	3	2016	16000	12.79	60	7.67	0.00004
R	AX1	3	2016	15500	12.81	60	7.69	0.00002
R	AX1	3	2016	15000	12.83	60	7.7	0.00002
R	AX1	3	2016	14500	12.85	60	7.71	0.00002
R	AX1	3	2016	14000	12.87	60	7.72	0.00004
R	AX1	3	2016	13500	12.9	60	7.74	0.00004
R	AX1	3	2016	13000	12.94	60	7.76	0.00004
R	AX1	3	2016	12500	12.96	60	7.78	0.00002
R	AX1	3	2016	12000	12.99	60	7.79	0.00004
R	AX1	3	2016	11500	13.02	60	7.81	0.00004
R	AX1	3	2016	11000	13.05	60	7.83	0.00004
R	AX1	3	2016	10500	13.08	60	7.85	0.00004
R	AX1	3	2016	10000	13.11	60	7.87	0.00002
R	AX1	3	2016	9500	13.14	60	7.88	0.00006
R	AX1	3	2016	9000	13.18	60	7.91	0.00008
R	AX1	3	2016	8500	13.25	60	7.95	0.00008
R	AX1	3	2016	8000	13.31	60	7.99	0.00006
R	AX1	3	2016	7500	13.36	60	8.02	0.00008
R	AX1	3	2016	7000	13.43	60	8.06	0.00008
R	AX1	3	2016	6500	13.5	60	8.1	0.0001
R	AX1	3	2016	6000	13.59	60	8.15	0.00012
R	AX1	3	2016	5500	13.69	60	8.21	0.00014
R	AX1	3	2016	5000	13.8	60	8.28	0.00012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	3	2016	4750	13.85	60	8.31	0.00016
R	AX1	3	2016	4500	13.92	60	8.35	0.00012
R	AX1	3	2016	4250	13.97	60	8.38	0.00024
R	AX1	3	2016	4000	14.06	60	8.44	0.00024
R	AX1	3	2016	3750	14.17	60	8.5	0.00028
R	AX1	3	2016	3500	14.29	60	8.57	0.00032
R	AX1	3	2016	3250	14.41	60	8.65	0.00024
R	AX1	3	2016	3000	14.52	60	8.71	0.0003
R	AX1	3	2016	2900	14.56	60	8.74	0.0002
R	AX1	3	2016	2800	14.6	60	8.76	0.0003
R	AX1	3	2016	2700	14.65	60	8.79	0.0003
R	AX1	3	2016	2600	14.7	60	8.82	0.0002
R	AX1	3	2016	2500	14.74	60	8.84	0.0003
R	AX1	3	2016	2400	14.78	60	8.87	0.0003
R	AX1	3	2016	2300	14.83	60	8.9	0.0005
R	AX1	3	2016	2200	14.91	60	8.95	0.0005
R	AX1	3	2016	2100	15	60	9	0.0005
R	AX1	3	2016	2000	15.09	60	9.05	0.0006
R	AX1	3	2016	1900	15.19	60	9.11	0.0006
R	AX1	3	2016	1800	15.28	60	9.17	0.0006
R	AX1	3	2016	1700	15.38	60	9.23	0.0005
R	AX1	3	2016	1600	15.47	60	9.28	0.001
R	AX1	3	2016	1500	15.64	60	9.38	0.0009
R	AX1	3	2016	1400	15.79	60	9.47	0.0011
R	AX1	3	2016	1300	15.96	60	9.58	0.001
R	AX1	3	2016	1200	16.13	60	9.68	0.0011
R	AX1	3	2016	1100	16.32	60	9.79	0.0013
R	AX1	3	2016	1000	16.54	60	9.92	0.002
R	AX1	3	2016	950	16.7	60	10.02	0.0022
R	AX1	3	2016	900	16.88	60	10.13	0.0018
R	AX1	3	2016	850	17.04	60	10.22	0.0024
R	AX1	3	2016	800	17.23	60	10.34	0.0022
R	AX1	3	2016	750	17.41	60	10.45	0.0022
R	AX1	3	2016	700	17.6	60	10.56	0.0026
R	AX1	3	2016	650	17.81	60	10.69	0.0024
R	AX1	3	2016	600	18.01	60	10.81	0.0038
R	AX1	3	2016	550	18.34	60	11	0.0054
R	AX1	3	2016	500	18.79	60	11.27	0.0058
R	AX1	3	2016	450	19.26	60	11.56	0.006
R	AX1	3	2016	400	19.77	60	11.86	0.0064
R	AX1	3	2016	350	20.3	60	12.18	0.0068
R	AX1	3	2016	300	20.86	60	12.52	0.008
R	AX1	3	2016	250	21.54	60	12.92	0.015
R	AX1	3	2016	200	22.78	60	13.67	0.0226

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	3	2016	150	24.67	60	14.8	0.032
R	AX1	3	2016	100	27.34	60	16.4	0.081
R	AX1	3	2016	50	34.08	60	20.45	11.100612
R	AX1	3	2016	1	940.63	60	564.38	0
R	AX1	4	2016	99999999	12.6	71	8.95	0
R	AX1	4	2016	22000	12.6	71	8.95	0
R	AX1	4	2016	21500	12.61	71	8.95	0.00002
R	AX1	4	2016	21000	12.62	71	8.96	0.00002
R	AX1	4	2016	20500	12.64	71	8.97	0.00002
R	AX1	4	2016	20000	12.65	71	8.98	0.00004
R	AX1	4	2016	19500	12.67	71	9	0
R	AX1	4	2016	19000	12.68	71	9	0.00002
R	AX1	4	2016	18500	12.69	71	9.01	0.00004
R	AX1	4	2016	18000	12.72	71	9.03	0.00002
R	AX1	4	2016	17500	12.73	71	9.04	0.00002
R	AX1	4	2016	17000	12.75	71	9.05	0.00004
R	AX1	4	2016	16500	12.77	71	9.07	0.00002
R	AX1	4	2016	16000	12.79	71	9.08	0.00004
R	AX1	4	2016	15500	12.81	71	9.1	0.00002
R	AX1	4	2016	15000	12.83	71	9.11	0.00002
R	AX1	4	2016	14500	12.85	71	9.12	0.00004
R	AX1	4	2016	14000	12.87	71	9.14	0.00004
R	AX1	4	2016	13500	12.9	71	9.16	0.00006
R	AX1	4	2016	13000	12.94	71	9.19	0.00002
R	AX1	4	2016	12500	12.96	71	9.2	0.00004
R	AX1	4	2016	12000	12.99	71	9.22	0.00004
R	AX1	4	2016	11500	13.02	71	9.24	0.00006
R	AX1	4	2016	11000	13.05	71	9.27	0.00004
R	AX1	4	2016	10500	13.08	71	9.29	0.00004
R	AX1	4	2016	10000	13.11	71	9.31	0.00004
R	AX1	4	2016	9500	13.14	71	9.33	0.00006
R	AX1	4	2016	9000	13.18	71	9.36	0.0001
R	AX1	4	2016	8500	13.25	71	9.41	0.00008
R	AX1	4	2016	8000	13.31	71	9.45	0.00008
R	AX1	4	2016	7500	13.36	71	9.49	0.0001
R	AX1	4	2016	7000	13.43	71	9.54	0.0001
R	AX1	4	2016	6500	13.5	71	9.59	0.00012
R	AX1	4	2016	6000	13.59	71	9.65	0.00014
R	AX1	4	2016	5500	13.69	71	9.72	0.00016
R	AX1	4	2016	5000	13.8	71	9.8	0.00012
R	AX1	4	2016	4750	13.85	71	9.83	0.0002
R	AX1	4	2016	4500	13.92	71	9.88	0.00016
R	AX1	4	2016	4250	13.97	71	9.92	0.00024
R	AX1	4	2016	4000	14.06	71	9.98	0.00032

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	4	2016	3750	14.17	71	10.06	0.00036
R	AX1	4	2016	3500	14.29	71	10.15	0.00032
R	AX1	4	2016	3250	14.41	71	10.23	0.00032
R	AX1	4	2016	3000	14.52	71	10.31	0.0003
R	AX1	4	2016	2900	14.56	71	10.34	0.0003
R	AX1	4	2016	2800	14.6	71	10.37	0.0003
R	AX1	4	2016	2700	14.65	71	10.4	0.0004
R	AX1	4	2016	2600	14.7	71	10.44	0.0003
R	AX1	4	2016	2500	14.74	71	10.47	0.0002
R	AX1	4	2016	2400	14.78	71	10.49	0.0004
R	AX1	4	2016	2300	14.83	71	10.53	0.0006
R	AX1	4	2016	2200	14.91	71	10.59	0.0006
R	AX1	4	2016	2100	15	71	10.65	0.0006
R	AX1	4	2016	2000	15.09	71	10.71	0.0007
R	AX1	4	2016	1900	15.19	71	10.78	0.0007
R	AX1	4	2016	1800	15.28	71	10.85	0.0007
R	AX1	4	2016	1700	15.38	71	10.92	0.0006
R	AX1	4	2016	1600	15.47	71	10.98	0.0012
R	AX1	4	2016	1500	15.64	71	11.1	0.0011
R	AX1	4	2016	1400	15.79	71	11.21	0.0012
R	AX1	4	2016	1300	15.96	71	11.33	0.0012
R	AX1	4	2016	1200	16.13	71	11.45	0.0014
R	AX1	4	2016	1100	16.32	71	11.59	0.0015
R	AX1	4	2016	1000	16.54	71	11.74	0.0024
R	AX1	4	2016	950	16.7	71	11.86	0.0024
R	AX1	4	2016	900	16.88	71	11.98	0.0024
R	AX1	4	2016	850	17.04	71	12.1	0.0026
R	AX1	4	2016	800	17.23	71	12.23	0.0026
R	AX1	4	2016	750	17.41	71	12.36	0.0028
R	AX1	4	2016	700	17.6	71	12.5	0.003
R	AX1	4	2016	650	17.81	71	12.65	0.0028
R	AX1	4	2016	600	18.01	71	12.79	0.0046
R	AX1	4	2016	550	18.34	71	13.02	0.0064
R	AX1	4	2016	500	18.79	71	13.34	0.0066
R	AX1	4	2016	450	19.26	71	13.67	0.0074
R	AX1	4	2016	400	19.77	71	14.04	0.0074
R	AX1	4	2016	350	20.3	71	14.41	0.008
R	AX1	4	2016	300	20.86	71	14.81	0.0096
R	AX1	4	2016	250	21.54	71	15.29	0.0176
R	AX1	4	2016	200	22.78	71	16.17	0.027
R	AX1	4	2016	150	24.67	71	17.52	0.0378
R	AX1	4	2016	100	27.34	71	19.41	0.0958
R	AX1	4	2016	50	34.08	71	24.2	13.135714
R	AX1	4	2016	1	940.63	71	667.85	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	5	2016	99999999	12.6	86	10.84	0
R	AX1	5	2016	22000	12.6	86	10.84	0
R	AX1	5	2016	21500	12.61	86	10.84	0.00002
R	AX1	5	2016	21000	12.62	86	10.85	0.00004
R	AX1	5	2016	20500	12.64	86	10.87	0.00002
R	AX1	5	2016	20000	12.65	86	10.88	0.00004
R	AX1	5	2016	19500	12.67	86	10.9	0
R	AX1	5	2016	19000	12.68	86	10.9	0.00002
R	AX1	5	2016	18500	12.69	86	10.91	0.00006
R	AX1	5	2016	18000	12.72	86	10.94	0.00002
R	AX1	5	2016	17500	12.73	86	10.95	0.00004
R	AX1	5	2016	17000	12.75	86	10.97	0.00002
R	AX1	5	2016	16500	12.77	86	10.98	0.00004
R	AX1	5	2016	16000	12.79	86	11	0.00004
R	AX1	5	2016	15500	12.81	86	11.02	0.00002
R	AX1	5	2016	15000	12.83	86	11.03	0.00004
R	AX1	5	2016	14500	12.85	86	11.05	0.00004
R	AX1	5	2016	14000	12.87	86	11.07	0.00004
R	AX1	5	2016	13500	12.9	86	11.09	0.00008
R	AX1	5	2016	13000	12.94	86	11.13	0.00004
R	AX1	5	2016	12500	12.96	86	11.15	0.00004
R	AX1	5	2016	12000	12.99	86	11.17	0.00006
R	AX1	5	2016	11500	13.02	86	11.2	0.00004
R	AX1	5	2016	11000	13.05	86	11.22	0.00006
R	AX1	5	2016	10500	13.08	86	11.25	0.00004
R	AX1	5	2016	10000	13.11	86	11.27	0.00006
R	AX1	5	2016	9500	13.14	86	11.3	0.00006
R	AX1	5	2016	9000	13.18	86	11.33	0.00014
R	AX1	5	2016	8500	13.25	86	11.4	0.0001
R	AX1	5	2016	8000	13.31	86	11.45	0.00008
R	AX1	5	2016	7500	13.36	86	11.49	0.00012
R	AX1	5	2016	7000	13.43	86	11.55	0.00012
R	AX1	5	2016	6500	13.5	86	11.61	0.00016
R	AX1	5	2016	6000	13.59	86	11.69	0.00016
R	AX1	5	2016	5500	13.69	86	11.77	0.0002
R	AX1	5	2016	5000	13.8	86	11.87	0.00016
R	AX1	5	2016	4750	13.85	86	11.91	0.00024
R	AX1	5	2016	4500	13.92	86	11.97	0.00016
R	AX1	5	2016	4250	13.97	86	12.01	0.00032
R	AX1	5	2016	4000	14.06	86	12.09	0.0004
R	AX1	5	2016	3750	14.17	86	12.19	0.0004
R	AX1	5	2016	3500	14.29	86	12.29	0.0004
R	AX1	5	2016	3250	14.41	86	12.39	0.0004
R	AX1	5	2016	3000	14.52	86	12.49	0.0003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	5	2016	2900	14.56	86	12.52	0.0004
R	AX1	5	2016	2800	14.6	86	12.56	0.0004
R	AX1	5	2016	2700	14.65	86	12.6	0.0004
R	AX1	5	2016	2600	14.7	86	12.64	0.0004
R	AX1	5	2016	2500	14.74	86	12.68	0.0003
R	AX1	5	2016	2400	14.78	86	12.71	0.0004
R	AX1	5	2016	2300	14.83	86	12.75	0.0007
R	AX1	5	2016	2200	14.91	86	12.82	0.0008
R	AX1	5	2016	2100	15	86	12.9	0.0008
R	AX1	5	2016	2000	15.09	86	12.98	0.0008
R	AX1	5	2016	1900	15.19	86	13.06	0.0008
R	AX1	5	2016	1800	15.28	86	13.14	0.0009
R	AX1	5	2016	1700	15.38	86	13.23	0.0007
R	AX1	5	2016	1600	15.47	86	13.3	0.0015
R	AX1	5	2016	1500	15.64	86	13.45	0.0013
R	AX1	5	2016	1400	15.79	86	13.58	0.0015
R	AX1	5	2016	1300	15.96	86	13.73	0.0014
R	AX1	5	2016	1200	16.13	86	13.87	0.0017
R	AX1	5	2016	1100	16.32	86	14.04	0.0018
R	AX1	5	2016	1000	16.54	86	14.22	0.0028
R	AX1	5	2016	950	16.7	86	14.36	0.0032
R	AX1	5	2016	900	16.88	86	14.52	0.0026
R	AX1	5	2016	850	17.04	86	14.65	0.0034
R	AX1	5	2016	800	17.23	86	14.82	0.003
R	AX1	5	2016	750	17.41	86	14.97	0.0034
R	AX1	5	2016	700	17.6	86	15.14	0.0036
R	AX1	5	2016	650	17.81	86	15.32	0.0034
R	AX1	5	2016	600	18.01	86	15.49	0.0056
R	AX1	5	2016	550	18.34	86	15.77	0.0078
R	AX1	5	2016	500	18.79	86	16.16	0.008
R	AX1	5	2016	450	19.26	86	16.56	0.0088
R	AX1	5	2016	400	19.77	86	17	0.0092
R	AX1	5	2016	350	20.3	86	17.46	0.0096
R	AX1	5	2016	300	20.86	86	17.94	0.0116
R	AX1	5	2016	250	21.54	86	18.52	0.0214
R	AX1	5	2016	200	22.78	86	19.59	0.0326
R	AX1	5	2016	150	24.67	86	21.22	0.0458
R	AX1	5	2016	100	27.34	86	23.51	0.116
R	AX1	5	2016	50	34.08	86	29.31	15.910816
R	AX1	5	2016	1	940.63	86	808.94	0
R	AX1	6	2016	99999999	12.6	86	10.84	0
R	AX1	6	2016	22000	12.6	86	10.84	0
R	AX1	6	2016	21500	12.61	86	10.84	0.00002
R	AX1	6	2016	21000	12.62	86	10.85	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	6	2016	20500	12.64	86	10.87	0.00002
R	AX1	6	2016	20000	12.65	86	10.88	0.00004
R	AX1	6	2016	19500	12.67	86	10.9	0
R	AX1	6	2016	19000	12.68	86	10.9	0.00002
R	AX1	6	2016	18500	12.69	86	10.91	0.00006
R	AX1	6	2016	18000	12.72	86	10.94	0.00002
R	AX1	6	2016	17500	12.73	86	10.95	0.00004
R	AX1	6	2016	17000	12.75	86	10.97	0.00002
R	AX1	6	2016	16500	12.77	86	10.98	0.00004
R	AX1	6	2016	16000	12.79	86	11	0.00004
R	AX1	6	2016	15500	12.81	86	11.02	0.00002
R	AX1	6	2016	15000	12.83	86	11.03	0.00004
R	AX1	6	2016	14500	12.85	86	11.05	0.00004
R	AX1	6	2016	14000	12.87	86	11.07	0.00004
R	AX1	6	2016	13500	12.9	86	11.09	0.00008
R	AX1	6	2016	13000	12.94	86	11.13	0.00004
R	AX1	6	2016	12500	12.96	86	11.15	0.00004
R	AX1	6	2016	12000	12.99	86	11.17	0.00006
R	AX1	6	2016	11500	13.02	86	11.2	0.00004
R	AX1	6	2016	11000	13.05	86	11.22	0.00006
R	AX1	6	2016	10500	13.08	86	11.25	0.00004
R	AX1	6	2016	10000	13.11	86	11.27	0.00006
R	AX1	6	2016	9500	13.14	86	11.3	0.00006
R	AX1	6	2016	9000	13.18	86	11.33	0.00014
R	AX1	6	2016	8500	13.25	86	11.4	0.0001
R	AX1	6	2016	8000	13.31	86	11.45	0.00008
R	AX1	6	2016	7500	13.36	86	11.49	0.00012
R	AX1	6	2016	7000	13.43	86	11.55	0.00012
R	AX1	6	2016	6500	13.5	86	11.61	0.00016
R	AX1	6	2016	6000	13.59	86	11.69	0.00016
R	AX1	6	2016	5500	13.69	86	11.77	0.0002
R	AX1	6	2016	5000	13.8	86	11.87	0.00016
R	AX1	6	2016	4750	13.85	86	11.91	0.00024
R	AX1	6	2016	4500	13.92	86	11.97	0.00016
R	AX1	6	2016	4250	13.97	86	12.01	0.00032
R	AX1	6	2016	4000	14.06	86	12.09	0.0004
R	AX1	6	2016	3750	14.17	86	12.19	0.0004
R	AX1	6	2016	3500	14.29	86	12.29	0.0004
R	AX1	6	2016	3250	14.41	86	12.39	0.0004
R	AX1	6	2016	3000	14.52	86	12.49	0.0003
R	AX1	6	2016	2900	14.56	86	12.52	0.0004
R	AX1	6	2016	2800	14.6	86	12.56	0.0004
R	AX1	6	2016	2700	14.65	86	12.6	0.0004
R	AX1	6	2016	2600	14.7	86	12.64	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	6	2016	2500	14.74	86	12.68	0.0003
R	AX1	6	2016	2400	14.78	86	12.71	0.0004
R	AX1	6	2016	2300	14.83	86	12.75	0.0007
R	AX1	6	2016	2200	14.91	86	12.82	0.0008
R	AX1	6	2016	2100	15	86	12.9	0.0008
R	AX1	6	2016	2000	15.09	86	12.98	0.0008
R	AX1	6	2016	1900	15.19	86	13.06	0.0008
R	AX1	6	2016	1800	15.28	86	13.14	0.0009
R	AX1	6	2016	1700	15.38	86	13.23	0.0007
R	AX1	6	2016	1600	15.47	86	13.3	0.0015
R	AX1	6	2016	1500	15.64	86	13.45	0.0013
R	AX1	6	2016	1400	15.79	86	13.58	0.0015
R	AX1	6	2016	1300	15.96	86	13.73	0.0014
R	AX1	6	2016	1200	16.13	86	13.87	0.0017
R	AX1	6	2016	1100	16.32	86	14.04	0.0018
R	AX1	6	2016	1000	16.54	86	14.22	0.0028
R	AX1	6	2016	950	16.7	86	14.36	0.0032
R	AX1	6	2016	900	16.88	86	14.52	0.0026
R	AX1	6	2016	850	17.04	86	14.65	0.0034
R	AX1	6	2016	800	17.23	86	14.82	0.003
R	AX1	6	2016	750	17.41	86	14.97	0.0034
R	AX1	6	2016	700	17.6	86	15.14	0.0036
R	AX1	6	2016	650	17.81	86	15.32	0.0034
R	AX1	6	2016	600	18.01	86	15.49	0.0056
R	AX1	6	2016	550	18.34	86	15.77	0.0078
R	AX1	6	2016	500	18.79	86	16.16	0.008
R	AX1	6	2016	450	19.26	86	16.56	0.0088
R	AX1	6	2016	400	19.77	86	17	0.0092
R	AX1	6	2016	350	20.3	86	17.46	0.0096
R	AX1	6	2016	300	20.86	86	17.94	0.0116
R	AX1	6	2016	250	21.54	86	18.52	0.0214
R	AX1	6	2016	200	22.78	86	19.59	0.0326
R	AX1	6	2016	150	24.67	86	21.22	0.0458
R	AX1	6	2016	100	27.34	86	23.51	0.116
R	AX1	6	2016	50	34.08	86	29.31	15.910816
R	AX1	6	2016	1	940.63	86	808.94	0
R	AX1	7	2016	99999999	12.6	86	10.84	0
R	AX1	7	2016	22000	12.6	86	10.84	0
R	AX1	7	2016	21500	12.61	86	10.84	0.00002
R	AX1	7	2016	21000	12.62	86	10.85	0.00004
R	AX1	7	2016	20500	12.64	86	10.87	0.00002
R	AX1	7	2016	20000	12.65	86	10.88	0.00004
R	AX1	7	2016	19500	12.67	86	10.9	0
R	AX1	7	2016	19000	12.68	86	10.9	0.00002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	7	2016	18500	12.69	86	10.91	0.00006
R	AX1	7	2016	18000	12.72	86	10.94	0.00002
R	AX1	7	2016	17500	12.73	86	10.95	0.00004
R	AX1	7	2016	17000	12.75	86	10.97	0.00002
R	AX1	7	2016	16500	12.77	86	10.98	0.00004
R	AX1	7	2016	16000	12.79	86	11	0.00004
R	AX1	7	2016	15500	12.81	86	11.02	0.00002
R	AX1	7	2016	15000	12.83	86	11.03	0.00004
R	AX1	7	2016	14500	12.85	86	11.05	0.00004
R	AX1	7	2016	14000	12.87	86	11.07	0.00004
R	AX1	7	2016	13500	12.9	86	11.09	0.00008
R	AX1	7	2016	13000	12.94	86	11.13	0.00004
R	AX1	7	2016	12500	12.96	86	11.15	0.00004
R	AX1	7	2016	12000	12.99	86	11.17	0.00006
R	AX1	7	2016	11500	13.02	86	11.2	0.00004
R	AX1	7	2016	11000	13.05	86	11.22	0.00006
R	AX1	7	2016	10500	13.08	86	11.25	0.00004
R	AX1	7	2016	10000	13.11	86	11.27	0.00006
R	AX1	7	2016	9500	13.14	86	11.3	0.00006
R	AX1	7	2016	9000	13.18	86	11.33	0.00014
R	AX1	7	2016	8500	13.25	86	11.4	0.0001
R	AX1	7	2016	8000	13.31	86	11.45	0.00008
R	AX1	7	2016	7500	13.36	86	11.49	0.00012
R	AX1	7	2016	7000	13.43	86	11.55	0.00012
R	AX1	7	2016	6500	13.5	86	11.61	0.00016
R	AX1	7	2016	6000	13.59	86	11.69	0.00016
R	AX1	7	2016	5500	13.69	86	11.77	0.0002
R	AX1	7	2016	5000	13.8	86	11.87	0.00016
R	AX1	7	2016	4750	13.85	86	11.91	0.00024
R	AX1	7	2016	4500	13.92	86	11.97	0.00016
R	AX1	7	2016	4250	13.97	86	12.01	0.00032
R	AX1	7	2016	4000	14.06	86	12.09	0.0004
R	AX1	7	2016	3750	14.17	86	12.19	0.0004
R	AX1	7	2016	3500	14.29	86	12.29	0.0004
R	AX1	7	2016	3250	14.41	86	12.39	0.0004
R	AX1	7	2016	3000	14.52	86	12.49	0.0003
R	AX1	7	2016	2900	14.56	86	12.52	0.0004
R	AX1	7	2016	2800	14.6	86	12.56	0.0004
R	AX1	7	2016	2700	14.65	86	12.6	0.0004
R	AX1	7	2016	2600	14.7	86	12.64	0.0004
R	AX1	7	2016	2500	14.74	86	12.68	0.0003
R	AX1	7	2016	2400	14.78	86	12.71	0.0004
R	AX1	7	2016	2300	14.83	86	12.75	0.0007
R	AX1	7	2016	2200	14.91	86	12.82	0.0008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	7	2016	2100	15	86	12.9	0.0008
R	AX1	7	2016	2000	15.09	86	12.98	0.0008
R	AX1	7	2016	1900	15.19	86	13.06	0.0008
R	AX1	7	2016	1800	15.28	86	13.14	0.0009
R	AX1	7	2016	1700	15.38	86	13.23	0.0007
R	AX1	7	2016	1600	15.47	86	13.3	0.0015
R	AX1	7	2016	1500	15.64	86	13.45	0.0013
R	AX1	7	2016	1400	15.79	86	13.58	0.0015
R	AX1	7	2016	1300	15.96	86	13.73	0.0014
R	AX1	7	2016	1200	16.13	86	13.87	0.0017
R	AX1	7	2016	1100	16.32	86	14.04	0.0018
R	AX1	7	2016	1000	16.54	86	14.22	0.0028
R	AX1	7	2016	950	16.7	86	14.36	0.0032
R	AX1	7	2016	900	16.88	86	14.52	0.0026
R	AX1	7	2016	850	17.04	86	14.65	0.0034
R	AX1	7	2016	800	17.23	86	14.82	0.003
R	AX1	7	2016	750	17.41	86	14.97	0.0034
R	AX1	7	2016	700	17.6	86	15.14	0.0036
R	AX1	7	2016	650	17.81	86	15.32	0.0034
R	AX1	7	2016	600	18.01	86	15.49	0.0056
R	AX1	7	2016	550	18.34	86	15.77	0.0078
R	AX1	7	2016	500	18.79	86	16.16	0.008
R	AX1	7	2016	450	19.26	86	16.56	0.0088
R	AX1	7	2016	400	19.77	86	17	0.0092
R	AX1	7	2016	350	20.3	86	17.46	0.0096
R	AX1	7	2016	300	20.86	86	17.94	0.0116
R	AX1	7	2016	250	21.54	86	18.52	0.0214
R	AX1	7	2016	200	22.78	86	19.59	0.0326
R	AX1	7	2016	150	24.67	86	21.22	0.0458
R	AX1	7	2016	100	27.34	86	23.51	0.116
R	AX1	7	2016	50	34.08	86	29.31	15.910816
R	AX1	7	2016	1	940.63	86	808.94	0
R	AX1	*	2016	99999999	12.6	71	8.95	0
R	AX1	*	2016	22000	12.6	71	8.95	0
R	AX1	*	2016	21500	12.61	71	8.95	0.00002
R	AX1	*	2016	21000	12.62	71	8.96	0.00002
R	AX1	*	2016	20500	12.64	71	8.97	0.00002
R	AX1	*	2016	20000	12.65	71	8.98	0.00004
R	AX1	*	2016	19500	12.67	71	9	0
R	AX1	*	2016	19000	12.68	71	9	0.00002
R	AX1	*	2016	18500	12.69	71	9.01	0.00004
R	AX1	*	2016	18000	12.72	71	9.03	0.00002
R	AX1	*	2016	17500	12.73	71	9.04	0.00002
R	AX1	*	2016	17000	12.75	71	9.05	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	*	2016	16500	12.77	71	9.07	0.00002
R	AX1	*	2016	16000	12.79	71	9.08	0.00004
R	AX1	*	2016	15500	12.81	71	9.1	0.00002
R	AX1	*	2016	15000	12.83	71	9.11	0.00002
R	AX1	*	2016	14500	12.85	71	9.12	0.00004
R	AX1	*	2016	14000	12.87	71	9.14	0.00004
R	AX1	*	2016	13500	12.9	71	9.16	0.00006
R	AX1	*	2016	13000	12.94	71	9.19	0.00002
R	AX1	*	2016	12500	12.96	71	9.2	0.00004
R	AX1	*	2016	12000	12.99	71	9.22	0.00004
R	AX1	*	2016	11500	13.02	71	9.24	0.00006
R	AX1	*	2016	11000	13.05	71	9.27	0.00004
R	AX1	*	2016	10500	13.08	71	9.29	0.00004
R	AX1	*	2016	10000	13.11	71	9.31	0.00004
R	AX1	*	2016	9500	13.14	71	9.33	0.00006
R	AX1	*	2016	9000	13.18	71	9.36	0.0001
R	AX1	*	2016	8500	13.25	71	9.41	0.00008
R	AX1	*	2016	8000	13.31	71	9.45	0.00008
R	AX1	*	2016	7500	13.36	71	9.49	0.0001
R	AX1	*	2016	7000	13.43	71	9.54	0.0001
R	AX1	*	2016	6500	13.5	71	9.59	0.00012
R	AX1	*	2016	6000	13.59	71	9.65	0.00014
R	AX1	*	2016	5500	13.69	71	9.72	0.00016
R	AX1	*	2016	5000	13.8	71	9.8	0.00012
R	AX1	*	2016	4750	13.85	71	9.83	0.0002
R	AX1	*	2016	4500	13.92	71	9.88	0.00016
R	AX1	*	2016	4250	13.97	71	9.92	0.00024
R	AX1	*	2016	4000	14.06	71	9.98	0.00032
R	AX1	*	2016	3750	14.17	71	10.06	0.00036
R	AX1	*	2016	3500	14.29	71	10.15	0.00032
R	AX1	*	2016	3250	14.41	71	10.23	0.00032
R	AX1	*	2016	3000	14.52	71	10.31	0.0003
R	AX1	*	2016	2900	14.56	71	10.34	0.0003
R	AX1	*	2016	2800	14.6	71	10.37	0.0003
R	AX1	*	2016	2700	14.65	71	10.4	0.0004
R	AX1	*	2016	2600	14.7	71	10.44	0.0003
R	AX1	*	2016	2500	14.74	71	10.47	0.0002
R	AX1	*	2016	2400	14.78	71	10.49	0.0004
R	AX1	*	2016	2300	14.83	71	10.53	0.0006
R	AX1	*	2016	2200	14.91	71	10.59	0.0006
R	AX1	*	2016	2100	15	71	10.65	0.0006
R	AX1	*	2016	2000	15.09	71	10.71	0.0007
R	AX1	*	2016	1900	15.19	71	10.78	0.0007
R	AX1	*	2016	1800	15.28	71	10.85	0.0007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	AX1	*	2016	1700	15.38	71	10.92	0.0006
R	AX1	*	2016	1600	15.47	71	10.98	0.0012
R	AX1	*	2016	1500	15.64	71	11.1	0.0011
R	AX1	*	2016	1400	15.79	71	11.21	0.0012
R	AX1	*	2016	1300	15.96	71	11.33	0.0012
R	AX1	*	2016	1200	16.13	71	11.45	0.0014
R	AX1	*	2016	1100	16.32	71	11.59	0.0015
R	AX1	*	2016	1000	16.54	71	11.74	0.0024
R	AX1	*	2016	950	16.7	71	11.86	0.0024
R	AX1	*	2016	900	16.88	71	11.98	0.0024
R	AX1	*	2016	850	17.04	71	12.1	0.0026
R	AX1	*	2016	800	17.23	71	12.23	0.0026
R	AX1	*	2016	750	17.41	71	12.36	0.0028
R	AX1	*	2016	700	17.6	71	12.5	0.003
R	AX1	*	2016	650	17.81	71	12.65	0.0028
R	AX1	*	2016	600	18.01	71	12.79	0.0046
R	AX1	*	2016	550	18.34	71	13.02	0.0064
R	AX1	*	2016	500	18.79	71	13.34	0.0066
R	AX1	*	2016	450	19.26	71	13.67	0.0074
R	AX1	*	2016	400	19.77	71	14.04	0.0074
R	AX1	*	2016	350	20.3	71	14.41	0.008
R	AX1	*	2016	300	20.86	71	14.81	0.0096
R	AX1	*	2016	250	21.54	71	15.29	0.0176
R	AX1	*	2016	200	22.78	71	16.17	0.027
R	AX1	*	2016	150	24.67	71	17.52	0.0378
R	AX1	*	2016	100	27.34	71	19.41	0.0958
R	AX1	*	2016	50	34.08	71	24.2	13.135714
R	AX1	*	2016	1	940.63	71	667.85	0
R	BG	1	2016	99999999	13.5	35	4.73	
R	BG	2	2016	99999999	13.5	55	7.43	
R	BG	3	2016	99999999	13.5	78	10.53	
R	BG	4	2016	99999999	13.5	100	13.5	
R	BG	5	2016	99999999	13.5	128	17.28	
R	BG	6	2016	99999999	13.5	168	22.68	
R	BG	7	2016	99999999	13.5	230	31.05	
R	BG	8	2016	99999999	13.5	261	35.23	
R	BG	*	2016	99999999	13.5	100	13.5	
R	BG	1-	2016	99999999	13.5	30	4.05	
R	BG	1+	2016	99999999	13.5	40	5.4	
R	BG	2-	2016	99999999	13.5	47	6.35	
R	BG	2+	2016	99999999	13.5	63	8.51	
R	BG	3-	2016	99999999	13.5	70	9.45	
R	BG	3+	2016	99999999	13.5	86	11.61	
R	BG	4-	2016	99999999	13.5	92	12.42	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	BG	4+	2016	99999999	13.5	107	14.45	
R	BG	5-	2016	99999999	13.5	117	15.8	
R	BG	5+	2016	99999999	13.5	141	19.04	
R	BG	6-	2016	99999999	13.5	152	20.52	
R	BG	6+	2016	99999999	13.5	187	25.25	
R	BG	7-	2016	99999999	13.5	204	27.54	
R	BG	7+	2016	99999999	13.5	259	34.97	
R	BG	8-	2016	99999999	13.5	230	31.05	
R	BG	8+	2016	99999999	13.5	295	39.83	
R	BH1	1	2016	99999999	60	75	45	
R	BH1	2	2016	99999999	60	75	45	
R	BH1	3	2016	99999999	60	75	45	
R	BH1	4	2016	99999999	60	100	60	
R	BH1	5	2016	99999999	60	125	75	
R	BH1	6	2016	99999999	60	125	75	
R	BH1	7	2016	99999999	60	125	75	
R	BH1	8	2016	99999999	60	125	75	
R	BH1	*	2016	99999999	60	100	60	
R	BH2	1	2016	99999999	75	75	56.25	
R	BH2	2	2016	99999999	75	75	56.25	
R	BH2	3	2016	99999999	75	75	56.25	
R	BH2	4	2016	99999999	75	100	75	
R	BH2	5	2016	99999999	75	125	93.75	
R	BH2	6	2016	99999999	75	125	93.75	
R	BH2	7	2016	99999999	75	125	93.75	
R	BH2	8	2016	99999999	75	125	93.75	
R	BH2	*	2016	99999999	75	100	75	
R	BH3	1	2016	99999999	90	75	67.5	
R	BH3	2	2016	99999999	90	75	67.5	
R	BH3	3	2016	99999999	90	75	67.5	
R	BH3	4	2016	99999999	90	100	90	
R	BH3	5	2016	99999999	90	125	112.5	
R	BH3	6	2016	99999999	90	125	112.5	
R	BH3	7	2016	99999999	90	125	112.5	
R	BH3	8	2016	99999999	90	125	112.5	
R	BH3	*	2016	99999999	90	100	90	
R	BL1	1	2016	1E+12	375	100	375	
R	BL1	2	2016	1E+12	375	100	375	
R	BL1	3	2016	1E+12	375	100	375	
R	BL1	4	2016	1E+12	500	100	500	
R	BL1	5	2016	1E+12	625	100	625	
R	BL1	6	2016	1E+12	625	100	625	
R	BL1	7	2016	1E+12	625	100	625	
R	BL1	8	2016	1E+12	625	100	625	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	BL1	*	2016	1E+12	625	100	625	
R	BL2	1	2016	1E+12	940	100	940	
R	BL2	2	2016	1E+12	940	100	940	
R	BL2	3	2016	1E+12	940	100	940	
R	BL2	4	2016	1E+12	1250	100	1250	
R	BL2	5	2016	1E+12	1560	100	1560	
R	BL2	6	2016	1E+12	1560	100	1560	
R	BL2	7	2016	1E+12	1560	100	1560	
R	BL2	8	2016	1E+12	1560	100	1560	
R	BL2	*	2016	1E+12	1560	100	1560	
R	BL3	1	2016	1E+12	1500	100	1500	
R	BL3	2	2016	1E+12	1500	100	1500	
R	BL3	3	2016	1E+12	1500	100	1500	
R	BL3	4	2016	1E+12	2000	100	2000	
R	BL3	5	2016	1E+12	2500	100	2500	
R	BL3	6	2016	1E+12	2500	100	2500	
R	BL3	7	2016	1E+12	2500	100	2500	
R	BL3	8	2016	1E+12	2500	100	2500	
R	BL3	*	2016	1E+12	2500	100	2500	
R	CI1	*	2016	99999999	1.1	100	1.1	
R	CI2	*	2016	99999999	1.95	100	1.95	
R	CP	1	2016	99999999	5.7	35	2	
R	CP	2	2016	99999999	5.7	55	3.14	
R	CP	3	2016	99999999	5.7	78	4.45	
R	CP	4	2016	99999999	5.7	100	5.7	
R	CP	5	2016	99999999	5.7	128	7.3	
R	CP	6	2016	99999999	5.7	168	9.58	
R	CP	7	2016	99999999	5.7	230	13.11	
R	CP	8	2016	99999999	5.7	261	14.88	
R	CP	*	2016	99999999	5.7	100	5.7	
R	CP	1-	2016	99999999	5.7	30	1.71	
R	CP	1+	2016	99999999	5.7	40	2.28	
R	CP	2-	2016	99999999	5.7	47	2.68	
R	CP	2+	2016	99999999	5.7	63	3.59	
R	CP	3-	2016	99999999	5.7	70	3.99	
R	CP	3+	2016	99999999	5.7	86	4.9	
R	CP	4-	2016	99999999	5.7	92	5.24	
R	CP	4+	2016	99999999	5.7	107	6.1	
R	CP	5-	2016	99999999	5.7	117	6.67	
R	CP	5+	2016	99999999	5.7	141	8.04	
R	CP	6-	2016	99999999	5.7	152	8.66	
R	CP	6+	2016	99999999	5.7	187	10.66	
R	CP	7-	2016	99999999	5.7	204	11.63	
R	CP	7+	2016	99999999	5.7	259	14.76	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	CP	8-	2016	99999999	5.7	230	13.11	
R	CP	8+	2016	99999999	5.7	295	16.82	
R	CP2	1	2016	99999999	5.7	35	2	
R	CP2	2	2016	99999999	5.7	55	3.14	
R	CP2	3	2016	99999999	5.7	78	4.45	
R	CP2	4	2016	99999999	5.7	100	5.7	
R	CP2	5	2016	99999999	5.7	128	7.3	
R	CP2	6	2016	99999999	5.7	168	9.58	
R	CP2	7	2016	99999999	5.7	230	13.11	
R	CP2	8	2016	99999999	5.7	261	14.88	
R	CP2	*	2016	99999999	5.7	100	5.7	
R	CP2	1-	2016	99999999	5.7	30	1.71	
R	CP2	1+	2016	99999999	5.7	40	2.28	
R	CP2	2-	2016	99999999	5.7	47	2.68	
R	CP2	2+	2016	99999999	5.7	63	3.59	
R	CP2	3-	2016	99999999	5.7	70	3.99	
R	CP2	3+	2016	99999999	5.7	86	4.9	
R	CP2	4-	2016	99999999	5.7	92	5.24	
R	CP2	4+	2016	99999999	5.7	107	6.1	
R	CP2	5-	2016	99999999	5.7	117	6.67	
R	CP2	5+	2016	99999999	5.7	141	8.04	
R	CP2	6-	2016	99999999	5.7	152	8.66	
R	CP2	6+	2016	99999999	5.7	187	10.66	
R	CP2	7-	2016	99999999	5.7	204	11.63	
R	CP2	7+	2016	99999999	5.7	259	14.76	
R	CP2	8-	2016	99999999	5.7	230	13.11	
R	CP2	8+	2016	99999999	5.7	295	16.82	
R	CPY	1	2016	99999999	4.18	35	1.46	
R	CPY	2	2016	99999999	4.18	55	2.3	
R	CPY	3	2016	99999999	4.18	78	3.26	
R	CPY	4	2016	99999999	4.18	100	4.18	
R	CPY	5	2016	99999999	4.18	128	5.35	
R	CPY	6	2016	99999999	4.18	168	7.02	
R	CPY	7	2016	99999999	4.18	230	9.61	
R	CPY	8	2016	99999999	4.18	261	10.91	
R	CPY	*	2016	99999999	4.18	100	4.18	
R	CPY	1-	2016	99999999	4.18	30	1.25	
R	CPY	1+	2016	99999999	4.18	40	1.67	
R	CPY	2-	2016	99999999	4.18	47	1.96	
R	CPY	2+	2016	99999999	4.18	63	2.63	
R	CPY	3-	2016	99999999	4.18	70	2.93	
R	CPY	3+	2016	99999999	4.18	86	3.59	
R	CPY	4-	2016	99999999	4.18	92	3.85	
R	CPY	4+	2016	99999999	4.18	107	4.47	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	CPY	5-	2016	99999999	4.18	117	4.89	
R	CPY	5+	2016	99999999	4.18	141	5.89	
R	CPY	6-	2016	99999999	4.18	152	6.35	
R	CPY	6+	2016	99999999	4.18	187	7.82	
R	CPY	7-	2016	99999999	4.18	204	8.53	
R	CPY	7+	2016	99999999	4.18	259	10.83	
R	CPY	8-	2016	99999999	4.18	230	9.61	
R	CPY	8+	2016	99999999	4.18	295	12.33	
R	CPY2	1	2016	99999999	4.18	35	1.46	
R	CPY2	2	2016	99999999	4.18	55	2.3	
R	CPY2	3	2016	99999999	4.18	78	3.26	
R	CPY2	4	2016	99999999	4.18	100	4.18	
R	CPY2	5	2016	99999999	4.18	128	5.35	
R	CPY2	6	2016	99999999	4.18	168	7.02	
R	CPY2	7	2016	99999999	4.18	230	9.61	
R	CPY2	8	2016	99999999	4.18	261	10.91	
R	CPY2	*	2016	99999999	4.18	100	4.18	
R	CPY2	1-	2016	99999999	4.18	30	1.25	
R	CPY2	1+	2016	99999999	4.18	40	1.67	
R	CPY2	2-	2016	99999999	4.18	47	1.96	
R	CPY2	2+	2016	99999999	4.18	63	2.63	
R	CPY2	3-	2016	99999999	4.18	70	2.93	
R	CPY2	3+	2016	99999999	4.18	86	3.59	
R	CPY2	4-	2016	99999999	4.18	92	3.85	
R	CPY2	4+	2016	99999999	4.18	107	4.47	
R	CPY2	5-	2016	99999999	4.18	117	4.89	
R	CPY2	5+	2016	99999999	4.18	141	5.89	
R	CPY2	6-	2016	99999999	4.18	152	6.35	
R	CPY2	6+	2016	99999999	4.18	187	7.82	
R	CPY2	7-	2016	99999999	4.18	204	8.53	
R	CPY2	7+	2016	99999999	4.18	259	10.83	
R	CPY2	8-	2016	99999999	4.18	230	9.61	
R	CPY2	8+	2016	99999999	4.18	295	12.33	
R	DBG	1	2016	99999999	14.9	35	5.22	
R	DBG	2	2016	99999999	14.9	55	8.2	
R	DBG	3	2016	99999999	14.9	78	11.62	
R	DBG	4	2016	99999999	14.9	100	14.9	
R	DBG	5	2016	99999999	14.9	128	19.07	
R	DBG	6	2016	99999999	14.9	168	25.03	
R	DBG	7	2016	99999999	14.9	230	34.27	
R	DBG	8	2016	99999999	14.9	261	38.89	
R	DBG	*	2016	99999999	14.9	100	14.9	
R	DBG	1-	2016	99999999	14.9	30	4.47	
R	DBG	1+	2016	99999999	14.9	40	5.96	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	DBG	2-	2016	99999999	14.9	47	7	
R	DBG	2+	2016	99999999	14.9	63	9.39	
R	DBG	3-	2016	99999999	14.9	70	10.43	
R	DBG	3+	2016	99999999	14.9	86	12.81	
R	DBG	4-	2016	99999999	14.9	92	13.71	
R	DBG	4+	2016	99999999	14.9	107	15.94	
R	DBG	5-	2016	99999999	14.9	117	17.43	
R	DBG	5+	2016	99999999	14.9	141	21.01	
R	DBG	6-	2016	99999999	14.9	152	22.65	
R	DBG	6+	2016	99999999	14.9	187	27.86	
R	DBG	7-	2016	99999999	14.9	204	30.4	
R	DBG	7+	2016	99999999	14.9	259	38.59	
R	DBG	8-	2016	99999999	14.9	230	34.27	
R	DBG	8+	2016	99999999	14.9	295	43.95	
R	DFG	1	2016	99999999	13.65	35	4.78	
R	DFG	2	2016	99999999	13.65	55	7.51	
R	DFG	3	2016	99999999	13.65	78	10.65	
R	DFG	4	2016	99999999	13.65	100	13.65	
R	DFG	5	2016	99999999	13.65	128	17.47	
R	DFG	6	2016	99999999	13.65	168	22.93	
R	DFG	7	2016	99999999	13.65	230	31.4	
R	DFG	8	2016	99999999	13.65	261	35.63	
R	DFG	*	2016	99999999	13.65	100	13.65	
R	DFG	1-	2016	99999999	13.65	30	4.1	
R	DFG	1+	2016	99999999	13.65	40	5.46	
R	DFG	2-	2016	99999999	13.65	47	6.42	
R	DFG	2+	2016	99999999	13.65	63	8.6	
R	DFG	3-	2016	99999999	13.65	70	9.56	
R	DFG	3+	2016	99999999	13.65	86	11.74	
R	DFG	4-	2016	99999999	13.65	92	12.56	
R	DFG	4+	2016	99999999	13.65	107	14.61	
R	DFG	5-	2016	99999999	13.65	117	15.97	
R	DFG	5+	2016	99999999	13.65	141	19.25	
R	DFG	6-	2016	99999999	13.65	152	20.75	
R	DFG	6+	2016	99999999	13.65	187	25.53	
R	DFG	7-	2016	99999999	13.65	204	27.85	
R	DFG	7+	2016	99999999	13.65	259	35.35	
R	DFG	8-	2016	99999999	13.65	230	31.4	
R	DFG	8+	2016	99999999	13.65	295	40.27	
R	DLA	1	2016	99999999	9.15	100	9.15	0
R	DLA	2	2016	99999999	14.38	100	14.38	0
R	DLA	3	2016	99999999	20.4	100	20.4	0
R	DLA	4	2016	99999999	26.15	100	26.15	0
R	DLA	5	2016	99999999	33.47	100	33.47	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	DLA	6	2016	999999999	43.93	100	43.93	0
R	DLA	7	2016	999999999	60.15	100	60.15	0
R	DLA	8	2016	999999999	68.26	100	68.26	
R	DLA	1-	2016	999999999	7.85	100	7.85	0
R	DLA	1+	2016	999999999	10.46	100	10.46	0
R	DLA	2-	2016	999999999	12.29	100	12.29	0
R	DLA	2+	2016	999999999	16.47	100	16.47	0
R	DLA	3-	2016	999999999	18.31	100	18.31	0
R	DLA	3+	2016	999999999	22.49	100	22.49	0
R	DLA	4-	2016	999999999	24.06	100	24.06	0
R	DLA	4+	2016	999999999	27.98	100	27.98	0
R	DLA	5-	2016	999999999	30.6	100	30.6	0
R	DLA	5+	2016	999999999	36.87	100	36.87	0
R	DLA	6-	2016	999999999	39.75	100	39.75	0
R	DLA	6+	2016	999999999	48.9	100	48.9	0
R	DLA	7-	2016	999999999	53.35	100	53.35	0
R	DLA	7+	2016	999999999	67.73	100	67.73	0
R	DLA	8-	2016	999999999	60.15	100	60.15	
R	DLA	8+	2016	999999999	77.15	100	77.15	
R	EFP	1	2016	999999999	21.7	35	7.6	
R	EFP	2	2016	999999999	21.7	55	11.94	
R	EFP	3	2016	999999999	21.7	78	16.93	
R	EFP	4	2016	999999999	21.7	100	21.7	
R	EFP	5	2016	999999999	21.7	128	27.78	
R	EFP	6	2016	999999999	21.7	168	36.46	
R	EFP	7	2016	999999999	21.7	230	49.91	
R	EFP	8	2016	999999999	21.7	261	56.64	
R	EFP	*	2016	999999999	21.7	100	21.7	
R	EFP	1-	2016	999999999	21.7	30	6.51	
R	EFP	1+	2016	999999999	21.7	40	8.68	
R	EFP	2-	2016	999999999	21.7	47	10.2	
R	EFP	2+	2016	999999999	21.7	63	13.67	
R	EFP	3-	2016	999999999	21.7	70	15.19	
R	EFP	3+	2016	999999999	21.7	86	18.66	
R	EFP	4-	2016	999999999	21.7	92	19.96	
R	EFP	4+	2016	999999999	21.7	107	23.22	
R	EFP	5-	2016	999999999	21.7	117	25.39	
R	EFP	5+	2016	999999999	21.7	141	30.6	
R	EFP	6-	2016	999999999	21.7	152	32.98	
R	EFP	6+	2016	999999999	21.7	187	40.58	
R	EFP	7-	2016	999999999	21.7	204	44.27	
R	EFP	7+	2016	999999999	21.7	259	56.2	
R	EFP	8-	2016	999999999	21.7	230	49.91	
R	EFP	8+	2016	999999999	21.7	295	64.02	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	EFP2	1	2016	99999999	20.6	35	7.21	
R	EFP2	2	2016	99999999	20.6	55	11.33	
R	EFP2	3	2016	99999999	20.6	78	16.07	
R	EFP2	4	2016	99999999	20.6	100	20.6	
R	EFP2	5	2016	99999999	20.6	128	26.37	
R	EFP2	6	2016	99999999	20.6	168	34.61	
R	EFP2	7	2016	99999999	20.6	230	47.38	
R	EFP2	8	2016	99999999	20.6	261	53.77	
R	EFP2	*	2016	99999999	20.6	100	20.6	
R	EFP2	1-	2016	99999999	20.6	30	6.18	
R	EFP2	1+	2016	99999999	20.6	40	8.24	
R	EFP2	2-	2016	99999999	20.6	47	9.68	
R	EFP2	2+	2016	99999999	20.6	63	12.98	
R	EFP2	3-	2016	99999999	20.6	70	14.42	
R	EFP2	3+	2016	99999999	20.6	86	17.72	
R	EFP2	4-	2016	99999999	20.6	92	18.95	
R	EFP2	4+	2016	99999999	20.6	107	22.04	
R	EFP2	5-	2016	99999999	20.6	117	24.1	
R	EFP2	5+	2016	99999999	20.6	141	29.05	
R	EFP2	6-	2016	99999999	20.6	152	31.31	
R	EFP2	6+	2016	99999999	20.6	187	38.52	
R	EFP2	7-	2016	99999999	20.6	204	42.02	
R	EFP2	7+	2016	99999999	20.6	259	53.35	
R	EFP2	8-	2016	99999999	20.6	230	47.38	
R	EFP2	8+	2016	99999999	20.6	295	60.77	
R	EFP3	1	2016	99999999	20.6	35	7.21	
R	EFP3	2	2016	99999999	20.6	55	11.33	
R	EFP3	3	2016	99999999	20.6	78	16.07	
R	EFP3	4	2016	99999999	20.6	100	20.6	
R	EFP3	5	2016	99999999	20.6	128	26.37	
R	EFP3	6	2016	99999999	20.6	168	34.61	
R	EFP3	7	2016	99999999	20.6	230	47.38	
R	EFP3	8	2016	99999999	20.6	261	53.77	
R	EFP3	*	2016	99999999	20.6	100	20.6	
R	EFP3	1-	2016	99999999	20.6	30	6.18	
R	EFP3	1+	2016	99999999	20.6	40	8.24	
R	EFP3	2-	2016	99999999	20.6	47	9.68	
R	EFP3	2+	2016	99999999	20.6	63	12.98	
R	EFP3	3-	2016	99999999	20.6	70	14.42	
R	EFP3	3+	2016	99999999	20.6	86	17.72	
R	EFP3	4-	2016	99999999	20.6	92	18.95	
R	EFP3	4+	2016	99999999	20.6	107	22.04	
R	EFP3	5-	2016	99999999	20.6	117	24.1	
R	EFP3	5+	2016	99999999	20.6	141	29.05	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	EFP3	6-	2016	99999999	20.6	152	31.31	
R	EFP3	6+	2016	99999999	20.6	187	38.52	
R	EFP3	7-	2016	99999999	20.6	204	42.02	
R	EFP3	7+	2016	99999999	20.6	259	53.35	
R	EFP3	8-	2016	99999999	20.6	230	47.38	
R	EFP3	8+	2016	99999999	20.6	295	60.77	
R	EFPL	1	2016	99999999	21.7	35	7.6	
R	EFPL	2	2016	99999999	21.7	55	11.94	
R	EFPL	3	2016	99999999	21.7	78	16.93	
R	EFPL	4	2016	99999999	21.7	100	21.7	
R	EFPL	5	2016	99999999	21.7	130	28.21	
R	EFPL	6	2016	99999999	21.7	171	37.11	
R	EFPL	7	2016	99999999	21.7	234	50.78	
R	EFPL	8	2016	99999999	21.7	265.5	57.61	
R	EFPL	*	2016	99999999	21.7	100	21.7	
R	EFPL	1-	2016	99999999	21.7	30	6.51	
R	EFPL	1+	2016	99999999	21.7	40	8.68	
R	EFPL	2-	2016	99999999	21.7	47	10.2	
R	EFPL	2+	2016	99999999	21.7	63	13.67	
R	EFPL	3-	2016	99999999	21.7	70	15.19	
R	EFPL	3+	2016	99999999	21.7	86	18.66	
R	EFPL	4-	2016	99999999	21.7	92	19.96	
R	EFPL	4+	2016	99999999	21.7	108	23.44	
R	EFPL	5-	2016	99999999	21.7	119	25.82	
R	EFPL	5+	2016	99999999	21.7	142	30.81	
R	EFPL	6-	2016	99999999	21.7	155	33.64	
R	EFPL	6+	2016	99999999	21.7	190	41.23	
R	EFPL	7-	2016	99999999	21.7	208	45.14	
R	EFPL	7+	2016	99999999	21.7	262	56.85	
R	EFPL	8-	2016	99999999	21.7	234.5	50.89	
R	EFPL	8+	2016	99999999	21.7	298	64.67	
R	EFPU	1	2016	99999999	20.6	35	7.21	
R	EFPU	2	2016	99999999	20.6	55	11.33	
R	EFPU	3	2016	99999999	20.6	78	16.07	
R	EFPU	4	2016	99999999	20.6	100	20.6	
R	EFPU	5	2016	99999999	20.6	128	26.37	
R	EFPU	6	2016	99999999	20.6	168	34.61	
R	EFPU	7	2016	99999999	20.6	230	47.38	
R	EFPU	8	2016	99999999	20.6	261	53.77	
R	EFPU	*	2016	99999999	20.6	100	20.6	
R	EFPU	1-	2016	99999999	20.6	30	6.18	
R	EFPU	1+	2016	99999999	20.6	40	8.24	
R	EFPU	2-	2016	99999999	20.6	47	9.68	
R	EFPU	2+	2016	99999999	20.6	63	12.98	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	EFPU	3-	2016	99999999	20.6	70	14.42	
R	EFPU	3+	2016	99999999	20.6	86	17.72	
R	EFPU	4-	2016	99999999	20.6	92	18.95	
R	EFPU	4+	2016	99999999	20.6	107	22.04	
R	EFPU	5-	2016	99999999	20.6	117	24.1	
R	EFPU	5+	2016	99999999	20.6	141	29.05	
R	EFPU	6-	2016	99999999	20.6	152	31.31	
R	EFPU	6+	2016	99999999	20.6	187	38.52	
R	EFPU	7-	2016	99999999	20.6	204	42.02	
R	EFPU	7+	2016	99999999	20.6	259	53.35	
R	EFPU	8-	2016	99999999	20.6	230	47.38	
R	EFPU	8+	2016	99999999	20.6	295	60.77	
R	EMP	1	2016	99999999	23.65	35	8.28	
R	EMP	2	2016	99999999	23.65	55	13.01	
R	EMP	3	2016	99999999	23.65	78	18.45	
R	EMP	4	2016	99999999	23.65	100	23.65	
R	EMP	5	2016	99999999	23.65	128	30.27	
R	EMP	6	2016	99999999	23.65	168	39.73	
R	EMP	7	2016	99999999	23.65	230	54.4	
R	EMP	8	2016	99999999	23.65	261	61.73	
R	EMP	*	2016	99999999	23.65	100	23.65	
R	EMP	1-	2016	99999999	23.65	30	7.1	
R	EMP	1+	2016	99999999	23.65	40	9.46	
R	EMP	2-	2016	99999999	23.65	47	11.12	
R	EMP	2+	2016	99999999	23.65	63	14.9	
R	EMP	3-	2016	99999999	23.65	70	16.56	
R	EMP	3+	2016	99999999	23.65	86	20.34	
R	EMP	4-	2016	99999999	23.65	92	21.76	
R	EMP	4+	2016	99999999	23.65	107	25.31	
R	EMP	5-	2016	99999999	23.65	117	27.67	
R	EMP	5+	2016	99999999	23.65	141	33.35	
R	EMP	6-	2016	99999999	23.65	152	35.95	
R	EMP	6+	2016	99999999	23.65	187	44.23	
R	EMP	7-	2016	99999999	23.65	204	48.25	
R	EMP	7+	2016	99999999	23.65	259	61.25	
R	EMP	8-	2016	99999999	23.65	230	54.39	
R	EMP	8+	2016	99999999	23.65	295	69.77	
R	EMP2	1	2016	99999999	22.45	35	7.86	
R	EMP2	2	2016	99999999	22.45	55	12.35	
R	EMP2	3	2016	99999999	22.45	78	17.51	
R	EMP2	4	2016	99999999	22.45	100	22.45	
R	EMP2	5	2016	99999999	22.45	128	28.74	
R	EMP2	6	2016	99999999	22.45	168	37.72	
R	EMP2	7	2016	99999999	22.45	230	51.64	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	EMP2	8	2016	99999999	22.45	261	58.59	
R	EMP2	*	2016	99999999	22.45	100	22.45	
R	EMP2	1-	2016	99999999	22.45	30	6.74	
R	EMP2	1+	2016	99999999	22.45	40	8.98	
R	EMP2	2-	2016	99999999	22.45	47	10.55	
R	EMP2	2+	2016	99999999	22.45	63	14.14	
R	EMP2	3-	2016	99999999	22.45	70	15.72	
R	EMP2	3+	2016	99999999	22.45	86	19.31	
R	EMP2	4-	2016	99999999	22.45	92	20.65	
R	EMP2	4+	2016	99999999	22.45	107	24.02	
R	EMP2	5-	2016	99999999	22.45	117	26.27	
R	EMP2	5+	2016	99999999	22.45	141	31.65	
R	EMP2	6-	2016	99999999	22.45	152	34.12	
R	EMP2	6+	2016	99999999	22.45	187	41.98	
R	EMP2	7-	2016	99999999	22.45	204	45.8	
R	EMP2	7+	2016	99999999	22.45	259	58.15	
R	EMP2	8-	2016	99999999	22.45	230	51.63	
R	EMP2	8+	2016	99999999	22.45	295	66.23	
R	EMP3	1	2016	99999999	22.45	35	7.86	
R	EMP3	2	2016	99999999	22.45	55	12.35	
R	EMP3	3	2016	99999999	22.45	78	17.51	
R	EMP3	4	2016	99999999	22.45	100	22.45	
R	EMP3	5	2016	99999999	22.45	128	28.74	
R	EMP3	6	2016	99999999	22.45	168	37.72	
R	EMP3	7	2016	99999999	22.45	230	51.64	
R	EMP3	8	2016	99999999	22.45	261	58.59	
R	EMP3	*	2016	99999999	22.45	100	22.45	
R	EMP3	1-	2016	99999999	22.45	30	6.74	
R	EMP3	1+	2016	99999999	22.45	40	8.98	
R	EMP3	2-	2016	99999999	22.45	47	10.55	
R	EMP3	2+	2016	99999999	22.45	63	14.14	
R	EMP3	3-	2016	99999999	22.45	70	15.72	
R	EMP3	3+	2016	99999999	22.45	86	19.31	
R	EMP3	4-	2016	99999999	22.45	92	20.65	
R	EMP3	4+	2016	99999999	22.45	107	24.02	
R	EMP3	5-	2016	99999999	22.45	117	26.27	
R	EMP3	5+	2016	99999999	22.45	141	31.65	
R	EMP3	6-	2016	99999999	22.45	152	34.12	
R	EMP3	6+	2016	99999999	22.45	187	41.98	
R	EMP3	7-	2016	99999999	22.45	204	45.8	
R	EMP3	7+	2016	99999999	22.45	259	58.15	
R	EMP3	8-	2016	99999999	22.45	230	51.63	
R	EMP3	8+	2016	99999999	22.45	295	66.23	
R	EMPU	1	2016	99999999	22.45	35	7.86	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	EMPU	2	2016	99999999	22.45	55	12.35	
R	EMPU	3	2016	99999999	22.45	78	17.51	
R	EMPU	4	2016	99999999	22.45	100	22.45	
R	EMPU	5	2016	99999999	22.45	128	28.74	
R	EMPU	6	2016	99999999	22.45	168	37.72	
R	EMPU	7	2016	99999999	22.45	230	51.64	
R	EMPU	8	2016	99999999	22.45	261	58.59	
R	EMPU	*	2016	99999999	22.45	100	22.45	
R	EMPU	1-	2016	99999999	22.45	30	6.74	
R	EMPU	1+	2016	99999999	22.45	40	8.98	
R	EMPU	2-	2016	99999999	22.45	47	10.55	
R	EMPU	2+	2016	99999999	22.45	63	14.14	
R	EMPU	3-	2016	99999999	22.45	70	15.72	
R	EMPU	3+	2016	99999999	22.45	86	19.31	
R	EMPU	4-	2016	99999999	22.45	92	20.65	
R	EMPU	4+	2016	99999999	22.45	107	24.02	
R	EMPU	5-	2016	99999999	22.45	117	26.27	
R	EMPU	5+	2016	99999999	22.45	141	31.65	
R	EMPU	6-	2016	99999999	22.45	152	34.12	
R	EMPU	6+	2016	99999999	22.45	187	41.98	
R	EMPU	7-	2016	99999999	22.45	204	45.8	
R	EMPU	7+	2016	99999999	22.45	259	58.15	
R	EMPU	8-	2016	99999999	22.45	230	51.63	
R	EMPU	8+	2016	99999999	22.45	295	66.23	
R	FB1	*	2016	1E+12	156.75	100	156.75	
R	FB2	*	2016	1E+12	193.8	100	193.8	
R	FBR	1	2016	99999999	14.55	35	5.09	
R	FBR	2	2016	99999999	14.55	55	8	
R	FBR	3	2016	99999999	14.55	78	11.35	
R	FBR	4	2016	99999999	14.55	100	14.55	
R	FBR	5	2016	99999999	14.55	128	18.62	
R	FBR	6	2016	99999999	14.55	168	24.44	
R	FBR	7	2016	99999999	14.55	230	33.47	
R	FBR	8	2016	99999999	14.55	261	37.98	
R	FBR	*	2016	99999999	14.55	100	14.55	
R	FBR	1-	2016	99999999	14.55	30	4.37	
R	FBR	1+	2016	99999999	14.55	40	5.82	
R	FBR	2-	2016	99999999	14.55	47	6.84	
R	FBR	2+	2016	99999999	14.55	63	9.17	
R	FBR	3-	2016	99999999	14.55	70	10.19	
R	FBR	3+	2016	99999999	14.55	86	12.51	
R	FBR	4-	2016	99999999	14.55	92	13.39	
R	FBR	4+	2016	99999999	14.55	107	15.57	
R	FBR	5-	2016	99999999	14.55	117	17.02	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	FBR	5+	2016	99999999	14.55	141	20.52	
R	FBR	6-	2016	99999999	14.55	152	22.12	
R	FBR	6+	2016	99999999	14.55	187	27.21	
R	FBR	7-	2016	99999999	14.55	204	29.68	
R	FBR	7+	2016	99999999	14.55	259	37.68	
R	FBR	8-	2016	99999999	14.55	230	33.47	
R	FBR	8+	2016	99999999	14.55	295	42.92	
R	FG	1	2016	99999999	12.4	35	4.34	
R	FG	2	2016	99999999	12.4	55	6.82	
R	FG	3	2016	99999999	12.4	78	9.67	
R	FG	4	2016	99999999	12.4	100	12.4	
R	FG	5	2016	99999999	12.4	128	15.87	
R	FG	6	2016	99999999	12.4	168	20.83	
R	FG	7	2016	99999999	12.4	230	28.52	
R	FG	8	2016	99999999	12.4	261	32.36	
R	FG	*	2016	99999999	12.4	100	12.4	
R	FG	1-	2016	99999999	12.4	30	3.72	
R	FG	1+	2016	99999999	12.4	40	4.96	
R	FG	2-	2016	99999999	12.4	47	5.83	
R	FG	2+	2016	99999999	12.4	63	7.81	
R	FG	3-	2016	99999999	12.4	70	8.68	
R	FG	3+	2016	99999999	12.4	86	10.66	
R	FG	4-	2016	99999999	12.4	92	11.41	
R	FG	4+	2016	99999999	12.4	107	13.27	
R	FG	5-	2016	99999999	12.4	117	14.51	
R	FG	5+	2016	99999999	12.4	141	17.48	
R	FG	6-	2016	99999999	12.4	152	18.85	
R	FG	6+	2016	99999999	12.4	187	23.19	
R	FG	7-	2016	99999999	12.4	204	25.3	
R	FG	7+	2016	99999999	12.4	259	32.12	
R	FG	8-	2016	99999999	12.4	230	28.52	
R	FG	8+	2016	99999999	12.4	295	36.58	
R	FP1	*	2016	1E+12	329.65	100	329.65	
R	FP2	*	2016	1E+12	303.05	100	303.05	
R	FP3	*	2016	1E+12	240.35	100	240.35	
R	FP4	*	2016	1E+12	361	100	361	
R	FP5	*	2016	1E+12	229.9	100	229.9	
R	FU	1	2016	99999999	15.5	35	5.43	
R	FU	2	2016	99999999	15.5	55	8.53	
R	FU	3	2016	99999999	15.5	78	12.09	
R	FU	4	2016	99999999	15.5	100	15.5	
R	FU	5	2016	99999999	15.5	128	19.84	
R	FU	6	2016	99999999	15.5	168	26.04	
R	FU	7	2016	99999999	15.5	230	35.65	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	FU	8	2016	99999999	15.5	261	40.45	
R	FU	*	2016	99999999	15.5	100	15.5	
R	FU	1-	2016	99999999	15.5	30	4.65	
R	FU	1+	2016	99999999	15.5	40	6.2	
R	FU	2-	2016	99999999	15.5	47	7.29	
R	FU	2+	2016	99999999	15.5	63	9.77	
R	FU	3-	2016	99999999	15.5	70	10.85	
R	FU	3+	2016	99999999	15.5	86	13.33	
R	FU	4-	2016	99999999	15.5	92	14.26	
R	FU	4+	2016	99999999	15.5	107	16.59	
R	FU	5-	2016	99999999	15.5	117	18.14	
R	FU	5+	2016	99999999	15.5	141	21.86	
R	FU	6-	2016	99999999	15.5	152	23.56	
R	FU	6+	2016	99999999	15.5	187	28.99	
R	FU	7-	2016	99999999	15.5	204	31.62	
R	FU	7+	2016	99999999	15.5	259	40.15	
R	FU	8-	2016	99999999	15.5	230	35.65	
R	FU	8+	2016	99999999	15.5	295	45.73	
R	FU2	1	2016	99999999	15.5	35	5.43	
R	FU2	2	2016	99999999	15.5	55	8.53	
R	FU2	3	2016	99999999	15.5	78	12.09	
R	FU2	4	2016	99999999	15.5	100	15.5	
R	FU2	5	2016	99999999	15.5	128	19.84	
R	FU2	6	2016	99999999	15.5	168	26.04	
R	FU2	7	2016	99999999	15.5	230	35.65	
R	FU2	8	2016	99999999	15.5	261	40.45	
R	FU2	*	2016	99999999	15.5	100	15.5	
R	FU2	1-	2016	99999999	15.5	30	4.65	
R	FU2	1+	2016	99999999	15.5	40	6.2	
R	FU2	2-	2016	99999999	15.5	47	7.29	
R	FU2	2+	2016	99999999	15.5	63	9.77	
R	FU2	3-	2016	99999999	15.5	70	10.85	
R	FU2	3+	2016	99999999	15.5	86	13.33	
R	FU2	4-	2016	99999999	15.5	92	14.26	
R	FU2	4+	2016	99999999	15.5	107	16.59	
R	FU2	5-	2016	99999999	15.5	117	18.14	
R	FU2	5+	2016	99999999	15.5	141	21.86	
R	FU2	6-	2016	99999999	15.5	152	23.56	
R	FU2	6+	2016	99999999	15.5	187	28.99	
R	FU2	7-	2016	99999999	15.5	204	31.62	
R	FU2	7+	2016	99999999	15.5	259	40.15	
R	FU2	8-	2016	99999999	15.5	230	35.65	
R	FU2	8+	2016	99999999	15.5	295	45.73	
R	GH1	1	2016	99999999	8.5	74	6.29	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH1	1	2016	5000	8.5	74	6.29	-0.00026
R	GH1	1	2016	4500	8.33	74	6.16	0.00124
R	GH1	1	2016	4000	9.16	74	6.78	0.00048
R	GH1	1	2016	3500	9.49	74	7.02	0.0005
R	GH1	1	2016	3000	9.82	74	7.27	0.00048
R	GH1	1	2016	2500	10.15	74	7.51	0.0005
R	GH1	1	2016	2000	10.49	74	7.76	0.0005
R	GH1	1	2016	1900	10.56	74	7.81	0.0005
R	GH1	1	2016	1800	10.62	74	7.86	0.0005
R	GH1	1	2016	1700	10.69	74	7.91	0.0005
R	GH1	1	2016	1600	10.75	74	7.96	0.0005
R	GH1	1	2016	1500	10.82	74	8.01	0.0004
R	GH1	1	2016	1400	10.88	74	8.05	0.0005
R	GH1	1	2016	1300	10.95	74	8.1	0.0005
R	GH1	1	2016	1200	11.02	74	8.15	0.0005
R	GH1	1	2016	1100	11.08	74	8.2	0.0005
R	GH1	1	2016	1000	11.15	74	8.25	0.0026
R	GH1	1	2016	900	11.5	74	8.51	0.0015
R	GH1	1	2016	800	11.7	74	8.66	0.0029
R	GH1	1	2016	700	12.1	74	8.95	0.003
R	GH1	1	2016	600	12.5	74	9.25	0.0052
R	GH1	1	2016	500	13.2	74	9.77	0.0059
R	GH1	1	2016	400	14	74	10.36	0.0093
R	GH1	1	2016	300	15.25	74	11.29	0.0299
R	GH1	1	2016	200	19.3	74	14.28	0.02
R	GH1	1	2016	100	22	74	16.28	0.1036
R	GH1	1	2016	50	29	74	21.46	0.090612
R	GH1	1	2016	1	35	74	25.9	0
R	GH1	2	2016	99999999	8.5	74	6.29	0
R	GH1	2	2016	5000	8.5	74	6.29	-0.00026
R	GH1	2	2016	4500	8.33	74	6.16	0.00124
R	GH1	2	2016	4000	9.16	74	6.78	0.00048
R	GH1	2	2016	3500	9.49	74	7.02	0.0005
R	GH1	2	2016	3000	9.82	74	7.27	0.00048
R	GH1	2	2016	2500	10.15	74	7.51	0.0005
R	GH1	2	2016	2000	10.49	74	7.76	0.0005
R	GH1	2	2016	1900	10.56	74	7.81	0.0005
R	GH1	2	2016	1800	10.62	74	7.86	0.0005
R	GH1	2	2016	1700	10.69	74	7.91	0.0005
R	GH1	2	2016	1600	10.75	74	7.96	0.0005
R	GH1	2	2016	1500	10.82	74	8.01	0.0004
R	GH1	2	2016	1400	10.88	74	8.05	0.0005
R	GH1	2	2016	1300	10.95	74	8.1	0.0005
R	GH1	2	2016	1200	11.02	74	8.15	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH1	2	2016	1100	11.08	74	8.2	0.0005
R	GH1	2	2016	1000	11.15	74	8.25	0.0026
R	GH1	2	2016	900	11.5	74	8.51	0.0015
R	GH1	2	2016	800	11.7	74	8.66	0.0029
R	GH1	2	2016	700	12.1	74	8.95	0.003
R	GH1	2	2016	600	12.5	74	9.25	0.0052
R	GH1	2	2016	500	13.2	74	9.77	0.0059
R	GH1	2	2016	400	14	74	10.36	0.0093
R	GH1	2	2016	300	15.25	74	11.29	0.0299
R	GH1	2	2016	200	19.3	74	14.28	0.02
R	GH1	2	2016	100	22	74	16.28	0.1036
R	GH1	2	2016	50	29	74	21.46	0.090612
R	GH1	2	2016	1	35	74	25.9	0
R	GH1	3	2016	99999999	8.5	74	6.29	0
R	GH1	3	2016	5000	8.5	74	6.29	-0.00026
R	GH1	3	2016	4500	8.33	74	6.16	0.00124
R	GH1	3	2016	4000	9.16	74	6.78	0.00048
R	GH1	3	2016	3500	9.49	74	7.02	0.0005
R	GH1	3	2016	3000	9.82	74	7.27	0.00048
R	GH1	3	2016	2500	10.15	74	7.51	0.0005
R	GH1	3	2016	2000	10.49	74	7.76	0.0005
R	GH1	3	2016	1900	10.56	74	7.81	0.0005
R	GH1	3	2016	1800	10.62	74	7.86	0.0005
R	GH1	3	2016	1700	10.69	74	7.91	0.0005
R	GH1	3	2016	1600	10.75	74	7.96	0.0005
R	GH1	3	2016	1500	10.82	74	8.01	0.0004
R	GH1	3	2016	1400	10.88	74	8.05	0.0005
R	GH1	3	2016	1300	10.95	74	8.1	0.0005
R	GH1	3	2016	1200	11.02	74	8.15	0.0005
R	GH1	3	2016	1100	11.08	74	8.2	0.0005
R	GH1	3	2016	1000	11.15	74	8.25	0.0026
R	GH1	3	2016	900	11.5	74	8.51	0.0015
R	GH1	3	2016	800	11.7	74	8.66	0.0029
R	GH1	3	2016	700	12.1	74	8.95	0.003
R	GH1	3	2016	600	12.5	74	9.25	0.0052
R	GH1	3	2016	500	13.2	74	9.77	0.0059
R	GH1	3	2016	400	14	74	10.36	0.0093
R	GH1	3	2016	300	15.25	74	11.29	0.0299
R	GH1	3	2016	200	19.3	74	14.28	0.02
R	GH1	3	2016	100	22	74	16.28	0.1036
R	GH1	3	2016	50	29	74	21.46	0.090612
R	GH1	3	2016	1	35	74	25.9	0
R	GH1	4	2016	99999999	8.5	100	8.5	0
R	GH1	4	2016	5000	8.5	100	8.5	-0.00034

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH1	4	2016	4500	8.33	100	8.33	0.00166
R	GH1	4	2016	4000	9.16	100	9.16	0.00066
R	GH1	4	2016	3500	9.49	100	9.49	0.00066
R	GH1	4	2016	3000	9.82	100	9.82	0.00066
R	GH1	4	2016	2500	10.15	100	10.15	0.00068
R	GH1	4	2016	2000	10.49	100	10.49	0.0007
R	GH1	4	2016	1900	10.56	100	10.56	0.0006
R	GH1	4	2016	1800	10.62	100	10.62	0.0007
R	GH1	4	2016	1700	10.69	100	10.69	0.0006
R	GH1	4	2016	1600	10.75	100	10.75	0.0007
R	GH1	4	2016	1500	10.82	100	10.82	0.0006
R	GH1	4	2016	1400	10.88	100	10.88	0.0007
R	GH1	4	2016	1300	10.95	100	10.95	0.0007
R	GH1	4	2016	1200	11.02	100	11.02	0.0006
R	GH1	4	2016	1100	11.08	100	11.08	0.0007
R	GH1	4	2016	1000	11.15	100	11.15	0.0035
R	GH1	4	2016	900	11.5	100	11.5	0.002
R	GH1	4	2016	800	11.7	100	11.7	0.004
R	GH1	4	2016	700	12.1	100	12.1	0.004
R	GH1	4	2016	600	12.5	100	12.5	0.007
R	GH1	4	2016	500	13.2	100	13.2	0.008
R	GH1	4	2016	400	14	100	14	0.0125
R	GH1	4	2016	300	15.25	100	15.25	0.0405
R	GH1	4	2016	200	19.3	100	19.3	0.027
R	GH1	4	2016	100	22	100	22	0.14
R	GH1	4	2016	50	29	100	29	0.122449
R	GH1	4	2016	1	35	100	35	0
R	GH1	5	2016	99999999	8.5	130	11.05	0
R	GH1	5	2016	5000	8.5	130	11.05	-0.00044
R	GH1	5	2016	4500	8.33	130	10.83	0.00216
R	GH1	5	2016	4000	9.16	130	11.91	0.00086
R	GH1	5	2016	3500	9.49	130	12.34	0.00086
R	GH1	5	2016	3000	9.82	130	12.77	0.00086
R	GH1	5	2016	2500	10.15	130	13.2	0.00088
R	GH1	5	2016	2000	10.49	130	13.64	0.0009
R	GH1	5	2016	1900	10.56	130	13.73	0.0008
R	GH1	5	2016	1800	10.62	130	13.81	0.0009
R	GH1	5	2016	1700	10.69	130	13.9	0.0008
R	GH1	5	2016	1600	10.75	130	13.98	0.0009
R	GH1	5	2016	1500	10.82	130	14.07	0.0007
R	GH1	5	2016	1400	10.88	130	14.14	0.0009
R	GH1	5	2016	1300	10.95	130	14.23	0.001
R	GH1	5	2016	1200	11.02	130	14.33	0.0007
R	GH1	5	2016	1100	11.08	130	14.4	0.001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH1	5	2016	1000	11.15	130	14.5	0.0045
R	GH1	5	2016	900	11.5	130	14.95	0.0026
R	GH1	5	2016	800	11.7	130	15.21	0.0052
R	GH1	5	2016	700	12.1	130	15.73	0.0052
R	GH1	5	2016	600	12.5	130	16.25	0.0091
R	GH1	5	2016	500	13.2	130	17.16	0.0104
R	GH1	5	2016	400	14	130	18.2	0.0162
R	GH1	5	2016	300	15.25	130	19.82	0.0527
R	GH1	5	2016	200	19.3	130	25.09	0.0351
R	GH1	5	2016	100	22	130	28.6	0.182
R	GH1	5	2016	50	29	130	37.7	0.159184
R	GH1	5	2016	1	35	130	45.5	0
R	GH1	6	2016	99999999	8.5	130	11.05	0
R	GH1	6	2016	5000	8.5	130	11.05	-0.00044
R	GH1	6	2016	4500	8.33	130	10.83	0.00216
R	GH1	6	2016	4000	9.16	130	11.91	0.00086
R	GH1	6	2016	3500	9.49	130	12.34	0.00086
R	GH1	6	2016	3000	9.82	130	12.77	0.00086
R	GH1	6	2016	2500	10.15	130	13.2	0.00088
R	GH1	6	2016	2000	10.49	130	13.64	0.0009
R	GH1	6	2016	1900	10.56	130	13.73	0.0008
R	GH1	6	2016	1800	10.62	130	13.81	0.0009
R	GH1	6	2016	1700	10.69	130	13.9	0.0008
R	GH1	6	2016	1600	10.75	130	13.98	0.0009
R	GH1	6	2016	1500	10.82	130	14.07	0.0007
R	GH1	6	2016	1400	10.88	130	14.14	0.0009
R	GH1	6	2016	1300	10.95	130	14.23	0.001
R	GH1	6	2016	1200	11.02	130	14.33	0.0007
R	GH1	6	2016	1100	11.08	130	14.4	0.001
R	GH1	6	2016	1000	11.15	130	14.5	0.0045
R	GH1	6	2016	900	11.5	130	14.95	0.0026
R	GH1	6	2016	800	11.7	130	15.21	0.0052
R	GH1	6	2016	700	12.1	130	15.73	0.0052
R	GH1	6	2016	600	12.5	130	16.25	0.0091
R	GH1	6	2016	500	13.2	130	17.16	0.0104
R	GH1	6	2016	400	14	130	18.2	0.0162
R	GH1	6	2016	300	15.25	130	19.82	0.0527
R	GH1	6	2016	200	19.3	130	25.09	0.0351
R	GH1	6	2016	100	22	130	28.6	0.182
R	GH1	6	2016	50	29	130	37.7	0.159184
R	GH1	6	2016	1	35	130	45.5	0
R	GH1	7	2016	99999999	8.5	130	11.05	0
R	GH1	7	2016	5000	8.5	130	11.05	-0.00044
R	GH1	7	2016	4500	8.33	130	10.83	0.00216

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	GH1	7	2016	4000	9.16	130	11.91	0.00086
R	GH1	7	2016	3500	9.49	130	12.34	0.00086
R	GH1	7	2016	3000	9.82	130	12.77	0.00086
R	GH1	7	2016	2500	10.15	130	13.2	0.00088
R	GH1	7	2016	2000	10.49	130	13.64	0.0009
R	GH1	7	2016	1900	10.56	130	13.73	0.0008
R	GH1	7	2016	1800	10.62	130	13.81	0.0009
R	GH1	7	2016	1700	10.69	130	13.9	0.0008
R	GH1	7	2016	1600	10.75	130	13.98	0.0009
R	GH1	7	2016	1500	10.82	130	14.07	0.0007
R	GH1	7	2016	1400	10.88	130	14.14	0.0009
R	GH1	7	2016	1300	10.95	130	14.23	0.001
R	GH1	7	2016	1200	11.02	130	14.33	0.0007
R	GH1	7	2016	1100	11.08	130	14.4	0.001
R	GH1	7	2016	1000	11.15	130	14.5	0.0045
R	GH1	7	2016	900	11.5	130	14.95	0.0026
R	GH1	7	2016	800	11.7	130	15.21	0.0052
R	GH1	7	2016	700	12.1	130	15.73	0.0052
R	GH1	7	2016	600	12.5	130	16.25	0.0091
R	GH1	7	2016	500	13.2	130	17.16	0.0104
R	GH1	7	2016	400	14	130	18.2	0.0162
R	GH1	7	2016	300	15.25	130	19.82	0.0527
R	GH1	7	2016	200	19.3	130	25.09	0.0351
R	GH1	7	2016	100	22	130	28.6	0.182
R	GH1	7	2016	50	29	130	37.7	0.159184
R	GH1	7	2016	1	35	130	45.5	0
R	GH1	8	2016	99999999	8.5	130	11.05	0
R	GH1	8	2016	5000	8.5	130	11.05	-0.00044
R	GH1	8	2016	4500	8.33	130	10.83	0.00216
R	GH1	8	2016	4000	9.16	130	11.91	0.00086
R	GH1	8	2016	3500	9.49	130	12.34	0.00086
R	GH1	8	2016	3000	9.82	130	12.77	0.00086
R	GH1	8	2016	2500	10.15	130	13.2	0.00088
R	GH1	8	2016	2000	10.49	130	13.64	0.0009
R	GH1	8	2016	1900	10.56	130	13.73	0.0008
R	GH1	8	2016	1800	10.62	130	13.81	0.0009
R	GH1	8	2016	1700	10.69	130	13.9	0.0008
R	GH1	8	2016	1600	10.75	130	13.98	0.0009
R	GH1	8	2016	1500	10.82	130	14.07	0.0007
R	GH1	8	2016	1400	10.88	130	14.14	0.0009
R	GH1	8	2016	1300	10.95	130	14.23	0.001
R	GH1	8	2016	1200	11.02	130	14.33	0.0007
R	GH1	8	2016	1100	11.08	130	14.4	0.001
R	GH1	8	2016	1000	11.15	130	14.5	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH1	8	2016	900	11.5	130	14.95	0.0026
R	GH1	8	2016	800	11.7	130	15.21	0.0052
R	GH1	8	2016	700	12.1	130	15.73	0.0052
R	GH1	8	2016	600	12.5	130	16.25	0.0091
R	GH1	8	2016	500	13.2	130	17.16	0.0104
R	GH1	8	2016	400	14	130	18.2	0.0162
R	GH1	8	2016	300	15.25	130	19.82	0.0527
R	GH1	8	2016	200	19.3	130	25.09	0.0351
R	GH1	8	2016	100	22	130	28.6	0.182
R	GH1	8	2016	50	29	130	37.7	0.159184
R	GH1	8	2016	1	35	130	45.5	0
R	GH1	*	2016	99999999	8.5	100	8.5	0
R	GH1	*	2016	5000	8.5	100	8.5	-0.00034
R	GH1	*	2016	4500	8.33	100	8.33	0.00166
R	GH1	*	2016	4000	9.16	100	9.16	0.00066
R	GH1	*	2016	3500	9.49	100	9.49	0.00066
R	GH1	*	2016	3000	9.82	100	9.82	0.00066
R	GH1	*	2016	2500	10.15	100	10.15	0.00068
R	GH1	*	2016	2000	10.49	100	10.49	0.0007
R	GH1	*	2016	1900	10.56	100	10.56	0.0006
R	GH1	*	2016	1800	10.62	100	10.62	0.0007
R	GH1	*	2016	1700	10.69	100	10.69	0.0006
R	GH1	*	2016	1600	10.75	100	10.75	0.0007
R	GH1	*	2016	1500	10.82	100	10.82	0.0006
R	GH1	*	2016	1400	10.88	100	10.88	0.0007
R	GH1	*	2016	1300	10.95	100	10.95	0.0007
R	GH1	*	2016	1200	11.02	100	11.02	0.0006
R	GH1	*	2016	1100	11.08	100	11.08	0.0007
R	GH1	*	2016	1000	11.15	100	11.15	0.0035
R	GH1	*	2016	900	11.5	100	11.5	0.002
R	GH1	*	2016	800	11.7	100	11.7	0.004
R	GH1	*	2016	700	12.1	100	12.1	0.004
R	GH1	*	2016	600	12.5	100	12.5	0.007
R	GH1	*	2016	500	13.2	100	13.2	0.008
R	GH1	*	2016	400	14	100	14	0.0125
R	GH1	*	2016	300	15.25	100	15.25	0.0405
R	GH1	*	2016	200	19.3	100	19.3	0.027
R	GH1	*	2016	100	22	100	22	0.14
R	GH1	*	2016	50	29	100	29	0.122449
R	GH1	*	2016	1	35	100	35	0
R	GH2	1	2016	99999999	11.02	74	8.15	0
R	GH2	1	2016	20000	11.05	74	8.18	0.00004
R	GH2	1	2016	19500	11.08	74	8.2	0.00004
R	GH2	1	2016	19000	11.11	74	8.22	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	GH2	1	2016	18500	11.14	74	8.24	0.00006
R	GH2	1	2016	18000	11.17	74	8.27	0.00004
R	GH2	1	2016	17500	11.2	74	8.29	0.00004
R	GH2	1	2016	17000	11.23	74	8.31	0.00004
R	GH2	1	2016	16500	11.26	74	8.33	0.00004
R	GH2	1	2016	16000	11.29	74	8.35	0.00006
R	GH2	1	2016	15500	11.32	74	8.38	0.00004
R	GH2	1	2016	15000	11.35	74	8.4	0.00004
R	GH2	1	2016	14500	11.38	74	8.42	0.00004
R	GH2	1	2016	14000	11.41	74	8.44	0.00006
R	GH2	1	2016	13500	11.44	74	8.47	0.00004
R	GH2	1	2016	13000	11.47	74	8.49	0.00004
R	GH2	1	2016	12500	11.5	74	8.51	0.00004
R	GH2	1	2016	12000	11.53	74	8.53	0.00004
R	GH2	1	2016	11500	11.56	74	8.55	0.00006
R	GH2	1	2016	11000	11.59	74	8.58	0.00004
R	GH2	1	2016	10500	11.62	74	8.6	0.00004
R	GH2	1	2016	10000	11.65	74	8.62	0.00004
R	GH2	1	2016	9500	11.68	74	8.64	0.00032
R	GH2	1	2016	9000	11.89	74	8.8	0.00008
R	GH2	1	2016	8500	11.95	74	8.84	0.00008
R	GH2	1	2016	8000	12	74	8.88	0.00022
R	GH2	1	2016	7500	12.15	74	8.99	0.0001
R	GH2	1	2016	7000	12.22	74	9.04	0.00016
R	GH2	1	2016	6500	12.32	74	9.12	0.00014
R	GH2	1	2016	6000	12.42	74	9.19	0.00014
R	GH2	1	2016	5500	12.52	74	9.26	0.00016
R	GH2	1	2016	5000	12.62	74	9.34	0.0008
R	GH2	1	2016	4500	13.16	74	9.74	0.00074
R	GH2	1	2016	4000	13.66	74	10.11	0.0007
R	GH2	1	2016	3500	14.14	74	10.46	0.00084
R	GH2	1	2016	3000	14.7	74	10.88	0.00074
R	GH2	1	2016	2500	15.2	74	11.25	0.00074
R	GH2	1	2016	2000	15.7	74	11.62	0.00074
R	GH2	1	2016	1500	16.2	74	11.99	0.00074
R	GH2	1	2016	1000	16.7	74	12.36	0.00458
R	GH2	1	2016	500	19.8	74	14.65	0.024525
R	GH2	1	2016	100	33.05	74	24.46	0.1546
R	GH2	1	2016	50	43.5	74	32.19	0.098163
R	GH2	1	2016	1	50	74	37	0
R	GH2	2	2016	99999999	11.02	74	8.15	0
R	GH2	2	2016	20000	11.05	74	8.18	0.00004
R	GH2	2	2016	19500	11.08	74	8.2	0.00004
R	GH2	2	2016	19000	11.11	74	8.22	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	2	2016	18500	11.14	74	8.24	0.00006
R	GH2	2	2016	18000	11.17	74	8.27	0.00004
R	GH2	2	2016	17500	11.2	74	8.29	0.00004
R	GH2	2	2016	17000	11.23	74	8.31	0.00004
R	GH2	2	2016	16500	11.26	74	8.33	0.00004
R	GH2	2	2016	16000	11.29	74	8.35	0.00006
R	GH2	2	2016	15500	11.32	74	8.38	0.00004
R	GH2	2	2016	15000	11.35	74	8.4	0.00004
R	GH2	2	2016	14500	11.38	74	8.42	0.00004
R	GH2	2	2016	14000	11.41	74	8.44	0.00006
R	GH2	2	2016	13500	11.44	74	8.47	0.00004
R	GH2	2	2016	13000	11.47	74	8.49	0.00004
R	GH2	2	2016	12500	11.5	74	8.51	0.00004
R	GH2	2	2016	12000	11.53	74	8.53	0.00004
R	GH2	2	2016	11500	11.56	74	8.55	0.00006
R	GH2	2	2016	11000	11.59	74	8.58	0.00004
R	GH2	2	2016	10500	11.62	74	8.6	0.00004
R	GH2	2	2016	10000	11.65	74	8.62	0.00004
R	GH2	2	2016	9500	11.68	74	8.64	0.00032
R	GH2	2	2016	9000	11.89	74	8.8	0.00008
R	GH2	2	2016	8500	11.95	74	8.84	0.00008
R	GH2	2	2016	8000	12	74	8.88	0.00022
R	GH2	2	2016	7500	12.15	74	8.99	0.0001
R	GH2	2	2016	7000	12.22	74	9.04	0.00016
R	GH2	2	2016	6500	12.32	74	9.12	0.00014
R	GH2	2	2016	6000	12.42	74	9.19	0.00014
R	GH2	2	2016	5500	12.52	74	9.26	0.00016
R	GH2	2	2016	5000	12.62	74	9.34	0.0008
R	GH2	2	2016	4500	13.16	74	9.74	0.00074
R	GH2	2	2016	4000	13.66	74	10.11	0.0007
R	GH2	2	2016	3500	14.14	74	10.46	0.00084
R	GH2	2	2016	3000	14.7	74	10.88	0.00074
R	GH2	2	2016	2500	15.2	74	11.25	0.00074
R	GH2	2	2016	2000	15.7	74	11.62	0.00074
R	GH2	2	2016	1500	16.2	74	11.99	0.00074
R	GH2	2	2016	1000	16.7	74	12.36	0.00458
R	GH2	2	2016	500	19.8	74	14.65	0.024525
R	GH2	2	2016	100	33.05	74	24.46	0.1546
R	GH2	2	2016	50	43.5	74	32.19	0.098163
R	GH2	2	2016	1	50	74	37	0
R	GH2	3	2016	99999999	11.02	74	8.15	0
R	GH2	3	2016	20000	11.05	74	8.18	0.00004
R	GH2	3	2016	19500	11.08	74	8.2	0.00004
R	GH2	3	2016	19000	11.11	74	8.22	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	3	2016	18500	11.14	74	8.24	0.00006
R	GH2	3	2016	18000	11.17	74	8.27	0.00004
R	GH2	3	2016	17500	11.2	74	8.29	0.00004
R	GH2	3	2016	17000	11.23	74	8.31	0.00004
R	GH2	3	2016	16500	11.26	74	8.33	0.00004
R	GH2	3	2016	16000	11.29	74	8.35	0.00006
R	GH2	3	2016	15500	11.32	74	8.38	0.00004
R	GH2	3	2016	15000	11.35	74	8.4	0.00004
R	GH2	3	2016	14500	11.38	74	8.42	0.00004
R	GH2	3	2016	14000	11.41	74	8.44	0.00006
R	GH2	3	2016	13500	11.44	74	8.47	0.00004
R	GH2	3	2016	13000	11.47	74	8.49	0.00004
R	GH2	3	2016	12500	11.5	74	8.51	0.00004
R	GH2	3	2016	12000	11.53	74	8.53	0.00004
R	GH2	3	2016	11500	11.56	74	8.55	0.00006
R	GH2	3	2016	11000	11.59	74	8.58	0.00004
R	GH2	3	2016	10500	11.62	74	8.6	0.00004
R	GH2	3	2016	10000	11.65	74	8.62	0.00004
R	GH2	3	2016	9500	11.68	74	8.64	0.00032
R	GH2	3	2016	9000	11.89	74	8.8	0.00008
R	GH2	3	2016	8500	11.95	74	8.84	0.00008
R	GH2	3	2016	8000	12	74	8.88	0.00022
R	GH2	3	2016	7500	12.15	74	8.99	0.0001
R	GH2	3	2016	7000	12.22	74	9.04	0.00016
R	GH2	3	2016	6500	12.32	74	9.12	0.00014
R	GH2	3	2016	6000	12.42	74	9.19	0.00014
R	GH2	3	2016	5500	12.52	74	9.26	0.00016
R	GH2	3	2016	5000	12.62	74	9.34	0.0008
R	GH2	3	2016	4500	13.16	74	9.74	0.00074
R	GH2	3	2016	4000	13.66	74	10.11	0.0007
R	GH2	3	2016	3500	14.14	74	10.46	0.00084
R	GH2	3	2016	3000	14.7	74	10.88	0.00074
R	GH2	3	2016	2500	15.2	74	11.25	0.00074
R	GH2	3	2016	2000	15.7	74	11.62	0.00074
R	GH2	3	2016	1500	16.2	74	11.99	0.00074
R	GH2	3	2016	1000	16.7	74	12.36	0.00458
R	GH2	3	2016	500	19.8	74	14.65	0.024525
R	GH2	3	2016	100	33.05	74	24.46	0.1546
R	GH2	3	2016	50	43.5	74	32.19	0.098163
R	GH2	3	2016	1	50	74	37	0
R	GH2	4	2016	99999999	11.02	100	11.02	0
R	GH2	4	2016	20000	11.05	100	11.05	0.00006
R	GH2	4	2016	19500	11.08	100	11.08	0.00006
R	GH2	4	2016	19000	11.11	100	11.11	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	4	2016	18500	11.14	100	11.14	0.00006
R	GH2	4	2016	18000	11.17	100	11.17	0.00006
R	GH2	4	2016	17500	11.2	100	11.2	0.00006
R	GH2	4	2016	17000	11.23	100	11.23	0.00006
R	GH2	4	2016	16500	11.26	100	11.26	0.00006
R	GH2	4	2016	16000	11.29	100	11.29	0.00006
R	GH2	4	2016	15500	11.32	100	11.32	0.00006
R	GH2	4	2016	15000	11.35	100	11.35	0.00006
R	GH2	4	2016	14500	11.38	100	11.38	0.00006
R	GH2	4	2016	14000	11.41	100	11.41	0.00006
R	GH2	4	2016	13500	11.44	100	11.44	0.00006
R	GH2	4	2016	13000	11.47	100	11.47	0.00006
R	GH2	4	2016	12500	11.5	100	11.5	0.00006
R	GH2	4	2016	12000	11.53	100	11.53	0.00006
R	GH2	4	2016	11500	11.56	100	11.56	0.00006
R	GH2	4	2016	11000	11.59	100	11.59	0.00006
R	GH2	4	2016	10500	11.62	100	11.62	0.00006
R	GH2	4	2016	10000	11.65	100	11.65	0.00006
R	GH2	4	2016	9500	11.68	100	11.68	0.00042
R	GH2	4	2016	9000	11.89	100	11.89	0.00012
R	GH2	4	2016	8500	11.95	100	11.95	0.0001
R	GH2	4	2016	8000	12	100	12	0.0003
R	GH2	4	2016	7500	12.15	100	12.15	0.00014
R	GH2	4	2016	7000	12.22	100	12.22	0.0002
R	GH2	4	2016	6500	12.32	100	12.32	0.0002
R	GH2	4	2016	6000	12.42	100	12.42	0.0002
R	GH2	4	2016	5500	12.52	100	12.52	0.0002
R	GH2	4	2016	5000	12.62	100	12.62	0.00108
R	GH2	4	2016	4500	13.16	100	13.16	0.001
R	GH2	4	2016	4000	13.66	100	13.66	0.00096
R	GH2	4	2016	3500	14.14	100	14.14	0.00112
R	GH2	4	2016	3000	14.7	100	14.7	0.001
R	GH2	4	2016	2500	15.2	100	15.2	0.001
R	GH2	4	2016	2000	15.7	100	15.7	0.001
R	GH2	4	2016	1500	16.2	100	16.2	0.001
R	GH2	4	2016	1000	16.7	100	16.7	0.0062
R	GH2	4	2016	500	19.8	100	19.8	0.033125
R	GH2	4	2016	100	33.05	100	33.05	0.209
R	GH2	4	2016	50	43.5	100	43.5	0.132653
R	GH2	4	2016	1	50	100	50	0
R	GH2	5	2016	99999999	11.02	130	14.33	0
R	GH2	5	2016	20000	11.05	130	14.37	0.00006
R	GH2	5	2016	19500	11.08	130	14.4	0.00008
R	GH2	5	2016	19000	11.11	130	14.44	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	5	2016	18500	11.14	130	14.48	0.00008
R	GH2	5	2016	18000	11.17	130	14.52	0.00008
R	GH2	5	2016	17500	11.2	130	14.56	0.00008
R	GH2	5	2016	17000	11.23	130	14.6	0.00008
R	GH2	5	2016	16500	11.26	130	14.64	0.00008
R	GH2	5	2016	16000	11.29	130	14.68	0.00008
R	GH2	5	2016	15500	11.32	130	14.72	0.00008
R	GH2	5	2016	15000	11.35	130	14.76	0.00006
R	GH2	5	2016	14500	11.38	130	14.79	0.00008
R	GH2	5	2016	14000	11.41	130	14.83	0.00008
R	GH2	5	2016	13500	11.44	130	14.87	0.00008
R	GH2	5	2016	13000	11.47	130	14.91	0.00008
R	GH2	5	2016	12500	11.5	130	14.95	0.00008
R	GH2	5	2016	12000	11.53	130	14.99	0.00008
R	GH2	5	2016	11500	11.56	130	15.03	0.00008
R	GH2	5	2016	11000	11.59	130	15.07	0.00008
R	GH2	5	2016	10500	11.62	130	15.11	0.00008
R	GH2	5	2016	10000	11.65	130	15.15	0.00006
R	GH2	5	2016	9500	11.68	130	15.18	0.00056
R	GH2	5	2016	9000	11.89	130	15.46	0.00016
R	GH2	5	2016	8500	11.95	130	15.54	0.00012
R	GH2	5	2016	8000	12	130	15.6	0.0004
R	GH2	5	2016	7500	12.15	130	15.8	0.00018
R	GH2	5	2016	7000	12.22	130	15.89	0.00026
R	GH2	5	2016	6500	12.32	130	16.02	0.00026
R	GH2	5	2016	6000	12.42	130	16.15	0.00026
R	GH2	5	2016	5500	12.52	130	16.28	0.00026
R	GH2	5	2016	5000	12.62	130	16.41	0.0014
R	GH2	5	2016	4500	13.16	130	17.11	0.0013
R	GH2	5	2016	4000	13.66	130	17.76	0.00124
R	GH2	5	2016	3500	14.14	130	18.38	0.00146
R	GH2	5	2016	3000	14.7	130	19.11	0.0013
R	GH2	5	2016	2500	15.2	130	19.76	0.0013
R	GH2	5	2016	2000	15.7	130	20.41	0.0013
R	GH2	5	2016	1500	16.2	130	21.06	0.0013
R	GH2	5	2016	1000	16.7	130	21.71	0.00806
R	GH2	5	2016	500	19.8	130	25.74	0.043075
R	GH2	5	2016	100	33.05	130	42.97	0.2716
R	GH2	5	2016	50	43.5	130	56.55	0.172449
R	GH2	5	2016	1	50	130	65	0
R	GH2	6	2016	99999999	11.02	130	14.33	0
R	GH2	6	2016	20000	11.05	130	14.37	0.00006
R	GH2	6	2016	19500	11.08	130	14.4	0.00008
R	GH2	6	2016	19000	11.11	130	14.44	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	6	2016	18500	11.14	130	14.48	0.00008
R	GH2	6	2016	18000	11.17	130	14.52	0.00008
R	GH2	6	2016	17500	11.2	130	14.56	0.00008
R	GH2	6	2016	17000	11.23	130	14.6	0.00008
R	GH2	6	2016	16500	11.26	130	14.64	0.00008
R	GH2	6	2016	16000	11.29	130	14.68	0.00008
R	GH2	6	2016	15500	11.32	130	14.72	0.00008
R	GH2	6	2016	15000	11.35	130	14.76	0.00006
R	GH2	6	2016	14500	11.38	130	14.79	0.00008
R	GH2	6	2016	14000	11.41	130	14.83	0.00008
R	GH2	6	2016	13500	11.44	130	14.87	0.00008
R	GH2	6	2016	13000	11.47	130	14.91	0.00008
R	GH2	6	2016	12500	11.5	130	14.95	0.00008
R	GH2	6	2016	12000	11.53	130	14.99	0.00008
R	GH2	6	2016	11500	11.56	130	15.03	0.00008
R	GH2	6	2016	11000	11.59	130	15.07	0.00008
R	GH2	6	2016	10500	11.62	130	15.11	0.00008
R	GH2	6	2016	10000	11.65	130	15.15	0.00006
R	GH2	6	2016	9500	11.68	130	15.18	0.00056
R	GH2	6	2016	9000	11.89	130	15.46	0.00016
R	GH2	6	2016	8500	11.95	130	15.54	0.00012
R	GH2	6	2016	8000	12	130	15.6	0.0004
R	GH2	6	2016	7500	12.15	130	15.8	0.00018
R	GH2	6	2016	7000	12.22	130	15.89	0.00026
R	GH2	6	2016	6500	12.32	130	16.02	0.00026
R	GH2	6	2016	6000	12.42	130	16.15	0.00026
R	GH2	6	2016	5500	12.52	130	16.28	0.00026
R	GH2	6	2016	5000	12.62	130	16.41	0.0014
R	GH2	6	2016	4500	13.16	130	17.11	0.0013
R	GH2	6	2016	4000	13.66	130	17.76	0.00124
R	GH2	6	2016	3500	14.14	130	18.38	0.00146
R	GH2	6	2016	3000	14.7	130	19.11	0.0013
R	GH2	6	2016	2500	15.2	130	19.76	0.0013
R	GH2	6	2016	2000	15.7	130	20.41	0.0013
R	GH2	6	2016	1500	16.2	130	21.06	0.0013
R	GH2	6	2016	1000	16.7	130	21.71	0.00806
R	GH2	6	2016	500	19.8	130	25.74	0.043075
R	GH2	6	2016	100	33.05	130	42.97	0.2716
R	GH2	6	2016	50	43.5	130	56.55	0.172449
R	GH2	6	2016	1	50	130	65	0
R	GH2	7	2016	99999999	11.02	130	14.33	0
R	GH2	7	2016	20000	11.05	130	14.37	0.00006
R	GH2	7	2016	19500	11.08	130	14.4	0.00008
R	GH2	7	2016	19000	11.11	130	14.44	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	7	2016	18500	11.14	130	14.48	0.00008
R	GH2	7	2016	18000	11.17	130	14.52	0.00008
R	GH2	7	2016	17500	11.2	130	14.56	0.00008
R	GH2	7	2016	17000	11.23	130	14.6	0.00008
R	GH2	7	2016	16500	11.26	130	14.64	0.00008
R	GH2	7	2016	16000	11.29	130	14.68	0.00008
R	GH2	7	2016	15500	11.32	130	14.72	0.00008
R	GH2	7	2016	15000	11.35	130	14.76	0.00006
R	GH2	7	2016	14500	11.38	130	14.79	0.00008
R	GH2	7	2016	14000	11.41	130	14.83	0.00008
R	GH2	7	2016	13500	11.44	130	14.87	0.00008
R	GH2	7	2016	13000	11.47	130	14.91	0.00008
R	GH2	7	2016	12500	11.5	130	14.95	0.00008
R	GH2	7	2016	12000	11.53	130	14.99	0.00008
R	GH2	7	2016	11500	11.56	130	15.03	0.00008
R	GH2	7	2016	11000	11.59	130	15.07	0.00008
R	GH2	7	2016	10500	11.62	130	15.11	0.00008
R	GH2	7	2016	10000	11.65	130	15.15	0.00006
R	GH2	7	2016	9500	11.68	130	15.18	0.00056
R	GH2	7	2016	9000	11.89	130	15.46	0.00016
R	GH2	7	2016	8500	11.95	130	15.54	0.00012
R	GH2	7	2016	8000	12	130	15.6	0.0004
R	GH2	7	2016	7500	12.15	130	15.8	0.00018
R	GH2	7	2016	7000	12.22	130	15.89	0.00026
R	GH2	7	2016	6500	12.32	130	16.02	0.00026
R	GH2	7	2016	6000	12.42	130	16.15	0.00026
R	GH2	7	2016	5500	12.52	130	16.28	0.00026
R	GH2	7	2016	5000	12.62	130	16.41	0.0014
R	GH2	7	2016	4500	13.16	130	17.11	0.0013
R	GH2	7	2016	4000	13.66	130	17.76	0.00124
R	GH2	7	2016	3500	14.14	130	18.38	0.00146
R	GH2	7	2016	3000	14.7	130	19.11	0.0013
R	GH2	7	2016	2500	15.2	130	19.76	0.0013
R	GH2	7	2016	2000	15.7	130	20.41	0.0013
R	GH2	7	2016	1500	16.2	130	21.06	0.0013
R	GH2	7	2016	1000	16.7	130	21.71	0.00806
R	GH2	7	2016	500	19.8	130	25.74	0.043075
R	GH2	7	2016	100	33.05	130	42.97	0.2716
R	GH2	7	2016	50	43.5	130	56.55	0.172449
R	GH2	7	2016	1	50	130	65	0
R	GH2	8	2016	99999999	11.02	130	14.33	0
R	GH2	8	2016	20000	11.05	130	14.37	0.00006
R	GH2	8	2016	19500	11.08	130	14.4	0.00008
R	GH2	8	2016	19000	11.11	130	14.44	0.00008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	8	2016	18500	11.14	130	14.48	0.00008
R	GH2	8	2016	18000	11.17	130	14.52	0.00008
R	GH2	8	2016	17500	11.2	130	14.56	0.00008
R	GH2	8	2016	17000	11.23	130	14.6	0.00008
R	GH2	8	2016	16500	11.26	130	14.64	0.00008
R	GH2	8	2016	16000	11.29	130	14.68	0.00008
R	GH2	8	2016	15500	11.32	130	14.72	0.00008
R	GH2	8	2016	15000	11.35	130	14.76	0.00006
R	GH2	8	2016	14500	11.38	130	14.79	0.00008
R	GH2	8	2016	14000	11.41	130	14.83	0.00008
R	GH2	8	2016	13500	11.44	130	14.87	0.00008
R	GH2	8	2016	13000	11.47	130	14.91	0.00008
R	GH2	8	2016	12500	11.5	130	14.95	0.00008
R	GH2	8	2016	12000	11.53	130	14.99	0.00008
R	GH2	8	2016	11500	11.56	130	15.03	0.00008
R	GH2	8	2016	11000	11.59	130	15.07	0.00008
R	GH2	8	2016	10500	11.62	130	15.11	0.00008
R	GH2	8	2016	10000	11.65	130	15.15	0.00006
R	GH2	8	2016	9500	11.68	130	15.18	0.00056
R	GH2	8	2016	9000	11.89	130	15.46	0.00016
R	GH2	8	2016	8500	11.95	130	15.54	0.00012
R	GH2	8	2016	8000	12	130	15.6	0.0004
R	GH2	8	2016	7500	12.15	130	15.8	0.00018
R	GH2	8	2016	7000	12.22	130	15.89	0.00026
R	GH2	8	2016	6500	12.32	130	16.02	0.00026
R	GH2	8	2016	6000	12.42	130	16.15	0.00026
R	GH2	8	2016	5500	12.52	130	16.28	0.00026
R	GH2	8	2016	5000	12.62	130	16.41	0.0014
R	GH2	8	2016	4500	13.16	130	17.11	0.0013
R	GH2	8	2016	4000	13.66	130	17.76	0.00124
R	GH2	8	2016	3500	14.14	130	18.38	0.00146
R	GH2	8	2016	3000	14.7	130	19.11	0.0013
R	GH2	8	2016	2500	15.2	130	19.76	0.0013
R	GH2	8	2016	2000	15.7	130	20.41	0.0013
R	GH2	8	2016	1500	16.2	130	21.06	0.0013
R	GH2	8	2016	1000	16.7	130	21.71	0.00806
R	GH2	8	2016	500	19.8	130	25.74	0.043075
R	GH2	8	2016	100	33.05	130	42.97	0.2716
R	GH2	8	2016	50	43.5	130	56.55	0.172449
R	GH2	8	2016	1	50	130	65	0
R	GH2	*	2016	99999999	11.02	100	11.02	0
R	GH2	*	2016	20000	11.05	100	11.05	0.00006
R	GH2	*	2016	19500	11.08	100	11.08	0.00006
R	GH2	*	2016	19000	11.11	100	11.11	0.00006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH2	*	2016	18500	11.14	100	11.14	0.00006
R	GH2	*	2016	18000	11.17	100	11.17	0.00006
R	GH2	*	2016	17500	11.2	100	11.2	0.00006
R	GH2	*	2016	17000	11.23	100	11.23	0.00006
R	GH2	*	2016	16500	11.26	100	11.26	0.00006
R	GH2	*	2016	16000	11.29	100	11.29	0.00006
R	GH2	*	2016	15500	11.32	100	11.32	0.00006
R	GH2	*	2016	15000	11.35	100	11.35	0.00006
R	GH2	*	2016	14500	11.38	100	11.38	0.00006
R	GH2	*	2016	14000	11.41	100	11.41	0.00006
R	GH2	*	2016	13500	11.44	100	11.44	0.00006
R	GH2	*	2016	13000	11.47	100	11.47	0.00006
R	GH2	*	2016	12500	11.5	100	11.5	0.00006
R	GH2	*	2016	12000	11.53	100	11.53	0.00006
R	GH2	*	2016	11500	11.56	100	11.56	0.00006
R	GH2	*	2016	11000	11.59	100	11.59	0.00006
R	GH2	*	2016	10500	11.62	100	11.62	0.00006
R	GH2	*	2016	10000	11.65	100	11.65	0.00006
R	GH2	*	2016	9500	11.68	100	11.68	0.00042
R	GH2	*	2016	9000	11.89	100	11.89	0.00012
R	GH2	*	2016	8500	11.95	100	11.95	0.0001
R	GH2	*	2016	8000	12	100	12	0.0003
R	GH2	*	2016	7500	12.15	100	12.15	0.00014
R	GH2	*	2016	7000	12.22	100	12.22	0.0002
R	GH2	*	2016	6500	12.32	100	12.32	0.0002
R	GH2	*	2016	6000	12.42	100	12.42	0.0002
R	GH2	*	2016	5500	12.52	100	12.52	0.0002
R	GH2	*	2016	5000	12.62	100	12.62	0.00108
R	GH2	*	2016	4500	13.16	100	13.16	0.001
R	GH2	*	2016	4000	13.66	100	13.66	0.00096
R	GH2	*	2016	3500	14.14	100	14.14	0.00112
R	GH2	*	2016	3000	14.7	100	14.7	0.001
R	GH2	*	2016	2500	15.2	100	15.2	0.001
R	GH2	*	2016	2000	15.7	100	15.7	0.001
R	GH2	*	2016	1500	16.2	100	16.2	0.001
R	GH2	*	2016	1000	16.7	100	16.7	0.0062
R	GH2	*	2016	500	19.8	100	19.8	0.033125
R	GH2	*	2016	100	33.05	100	33.05	0.209
R	GH2	*	2016	50	43.5	100	43.5	0.132653
R	GH2	*	2016	1	50	100	50	0
R	GH3	1	2016	99999999	6.38	74	4.72	0
R	GH3	1	2016	5000	6.38	74	4.72	0.00024
R	GH3	1	2016	4500	6.54	74	4.84	0.00022
R	GH3	1	2016	4000	6.69	74	4.95	0.00024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	1	2016	3500	6.85	74	5.07	0.00022
R	GH3	1	2016	3000	7	74	5.18	0.0002
R	GH3	1	2016	2900	7.03	74	5.2	0.0002
R	GH3	1	2016	2800	7.06	74	5.22	0.0003
R	GH3	1	2016	2700	7.09	74	5.25	0.0002
R	GH3	1	2016	2600	7.12	74	5.27	0.0003
R	GH3	1	2016	2500	7.16	74	5.3	0.0002
R	GH3	1	2016	2400	7.19	74	5.32	0.0002
R	GH3	1	2016	2300	7.22	74	5.34	0.0003
R	GH3	1	2016	2200	7.25	74	5.37	0.0002
R	GH3	1	2016	2100	7.28	74	5.39	0.0003
R	GH3	1	2016	2000	7.32	74	5.42	0.0008
R	GH3	1	2016	1900	7.43	74	5.5	0.0008
R	GH3	1	2016	1800	7.54	74	5.58	0.0008
R	GH3	1	2016	1700	7.65	74	5.66	0.0008
R	GH3	1	2016	1600	7.75	74	5.74	0.0008
R	GH3	1	2016	1500	7.86	74	5.82	0.0008
R	GH3	1	2016	1400	7.97	74	5.9	0.0008
R	GH3	1	2016	1300	8.08	74	5.98	0.0008
R	GH3	1	2016	1200	8.19	74	6.06	0.0008
R	GH3	1	2016	1100	8.3	74	6.14	0.0008
R	GH3	1	2016	1000	8.4	74	6.22	0.0014
R	GH3	1	2016	900	8.6	74	6.36	0.0015
R	GH3	1	2016	800	8.8	74	6.51	0.0024
R	GH3	1	2016	700	9.12	74	6.75	0.0024
R	GH3	1	2016	600	9.45	74	6.99	0.0034
R	GH3	1	2016	500	9.9	74	7.33	0.0044
R	GH3	1	2016	400	10.5	74	7.77	0.0067
R	GH3	1	2016	300	11.4	74	8.44	0.0118
R	GH3	1	2016	200	13	74	9.62	0.0259
R	GH3	1	2016	100	16.5	74	12.21	0.0776
R	GH3	1	2016	50	21.75	74	16.09	1.841837
R	GH3	1	2016	1	143.7	74	106.34	0
R	GH3	2	2016	99999999	6.38	74	4.72	0
R	GH3	2	2016	5000	6.38	74	4.72	0.00024
R	GH3	2	2016	4500	6.54	74	4.84	0.00022
R	GH3	2	2016	4000	6.69	74	4.95	0.00024
R	GH3	2	2016	3500	6.85	74	5.07	0.00022
R	GH3	2	2016	3000	7	74	5.18	0.0002
R	GH3	2	2016	2900	7.03	74	5.2	0.0002
R	GH3	2	2016	2800	7.06	74	5.22	0.0003
R	GH3	2	2016	2700	7.09	74	5.25	0.0002
R	GH3	2	2016	2600	7.12	74	5.27	0.0003
R	GH3	2	2016	2500	7.16	74	5.3	0.0002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	2	2016	2400	7.19	74	5.32	0.0002
R	GH3	2	2016	2300	7.22	74	5.34	0.0003
R	GH3	2	2016	2200	7.25	74	5.37	0.0002
R	GH3	2	2016	2100	7.28	74	5.39	0.0003
R	GH3	2	2016	2000	7.32	74	5.42	0.0008
R	GH3	2	2016	1900	7.43	74	5.5	0.0008
R	GH3	2	2016	1800	7.54	74	5.58	0.0008
R	GH3	2	2016	1700	7.65	74	5.66	0.0008
R	GH3	2	2016	1600	7.75	74	5.74	0.0008
R	GH3	2	2016	1500	7.86	74	5.82	0.0008
R	GH3	2	2016	1400	7.97	74	5.9	0.0008
R	GH3	2	2016	1300	8.08	74	5.98	0.0008
R	GH3	2	2016	1200	8.19	74	6.06	0.0008
R	GH3	2	2016	1100	8.3	74	6.14	0.0008
R	GH3	2	2016	1000	8.4	74	6.22	0.0014
R	GH3	2	2016	900	8.6	74	6.36	0.0015
R	GH3	2	2016	800	8.8	74	6.51	0.0024
R	GH3	2	2016	700	9.12	74	6.75	0.0024
R	GH3	2	2016	600	9.45	74	6.99	0.0034
R	GH3	2	2016	500	9.9	74	7.33	0.0044
R	GH3	2	2016	400	10.5	74	7.77	0.0067
R	GH3	2	2016	300	11.4	74	8.44	0.0118
R	GH3	2	2016	200	13	74	9.62	0.0259
R	GH3	2	2016	100	16.5	74	12.21	0.0776
R	GH3	2	2016	50	21.75	74	16.09	1.841837
R	GH3	2	2016	1	143.7	74	106.34	0
R	GH3	3	2016	99999999	6.38	74	4.72	0
R	GH3	3	2016	5000	6.38	74	4.72	0.00024
R	GH3	3	2016	4500	6.54	74	4.84	0.00022
R	GH3	3	2016	4000	6.69	74	4.95	0.00024
R	GH3	3	2016	3500	6.85	74	5.07	0.00022
R	GH3	3	2016	3000	7	74	5.18	0.0002
R	GH3	3	2016	2900	7.03	74	5.2	0.0002
R	GH3	3	2016	2800	7.06	74	5.22	0.0003
R	GH3	3	2016	2700	7.09	74	5.25	0.0002
R	GH3	3	2016	2600	7.12	74	5.27	0.0003
R	GH3	3	2016	2500	7.16	74	5.3	0.0002
R	GH3	3	2016	2400	7.19	74	5.32	0.0002
R	GH3	3	2016	2300	7.22	74	5.34	0.0003
R	GH3	3	2016	2200	7.25	74	5.37	0.0002
R	GH3	3	2016	2100	7.28	74	5.39	0.0003
R	GH3	3	2016	2000	7.32	74	5.42	0.0008
R	GH3	3	2016	1900	7.43	74	5.5	0.0008
R	GH3	3	2016	1800	7.54	74	5.58	0.0008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	GH3	3	2016	1700	7.65	74	5.66	0.0008
R	GH3	3	2016	1600	7.75	74	5.74	0.0008
R	GH3	3	2016	1500	7.86	74	5.82	0.0008
R	GH3	3	2016	1400	7.97	74	5.9	0.0008
R	GH3	3	2016	1300	8.08	74	5.98	0.0008
R	GH3	3	2016	1200	8.19	74	6.06	0.0008
R	GH3	3	2016	1100	8.3	74	6.14	0.0008
R	GH3	3	2016	1000	8.4	74	6.22	0.0014
R	GH3	3	2016	900	8.6	74	6.36	0.0015
R	GH3	3	2016	800	8.8	74	6.51	0.0024
R	GH3	3	2016	700	9.12	74	6.75	0.0024
R	GH3	3	2016	600	9.45	74	6.99	0.0034
R	GH3	3	2016	500	9.9	74	7.33	0.0044
R	GH3	3	2016	400	10.5	74	7.77	0.0067
R	GH3	3	2016	300	11.4	74	8.44	0.0118
R	GH3	3	2016	200	13	74	9.62	0.0259
R	GH3	3	2016	100	16.5	74	12.21	0.0776
R	GH3	3	2016	50	21.75	74	16.09	1.841837
R	GH3	3	2016	1	143.7	74	106.34	0
R	GH3	4	2016	99999999	6.38	100	6.38	0
R	GH3	4	2016	5000	6.38	100	6.38	0.00032
R	GH3	4	2016	4500	6.54	100	6.54	0.0003
R	GH3	4	2016	4000	6.69	100	6.69	0.00032
R	GH3	4	2016	3500	6.85	100	6.85	0.0003
R	GH3	4	2016	3000	7	100	7	0.0003
R	GH3	4	2016	2900	7.03	100	7.03	0.0003
R	GH3	4	2016	2800	7.06	100	7.06	0.0003
R	GH3	4	2016	2700	7.09	100	7.09	0.0003
R	GH3	4	2016	2600	7.12	100	7.12	0.0004
R	GH3	4	2016	2500	7.16	100	7.16	0.0003
R	GH3	4	2016	2400	7.19	100	7.19	0.0003
R	GH3	4	2016	2300	7.22	100	7.22	0.0003
R	GH3	4	2016	2200	7.25	100	7.25	0.0003
R	GH3	4	2016	2100	7.28	100	7.28	0.0004
R	GH3	4	2016	2000	7.32	100	7.32	0.0011
R	GH3	4	2016	1900	7.43	100	7.43	0.0011
R	GH3	4	2016	1800	7.54	100	7.54	0.0011
R	GH3	4	2016	1700	7.65	100	7.65	0.001
R	GH3	4	2016	1600	7.75	100	7.75	0.0011
R	GH3	4	2016	1500	7.86	100	7.86	0.0011
R	GH3	4	2016	1400	7.97	100	7.97	0.0011
R	GH3	4	2016	1300	8.08	100	8.08	0.0011
R	GH3	4	2016	1200	8.19	100	8.19	0.0011
R	GH3	4	2016	1100	8.3	100	8.3	0.001

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	4	2016	1000	8.4	100	8.4	0.002
R	GH3	4	2016	900	8.6	100	8.6	0.002
R	GH3	4	2016	800	8.8	100	8.8	0.0032
R	GH3	4	2016	700	9.12	100	9.12	0.0033
R	GH3	4	2016	600	9.45	100	9.45	0.0045
R	GH3	4	2016	500	9.9	100	9.9	0.006
R	GH3	4	2016	400	10.5	100	10.5	0.009
R	GH3	4	2016	300	11.4	100	11.4	0.016
R	GH3	4	2016	200	13	100	13	0.035
R	GH3	4	2016	100	16.5	100	16.5	0.105
R	GH3	4	2016	50	21.75	100	21.75	2.488776
R	GH3	4	2016	1	143.7	100	143.7	0
R	GH3	5	2016	99999999	6.38	130	8.29	0
R	GH3	5	2016	5000	6.38	130	8.29	0.00042
R	GH3	5	2016	4500	6.54	130	8.5	0.0004
R	GH3	5	2016	4000	6.69	130	8.7	0.0004
R	GH3	5	2016	3500	6.85	130	8.9	0.0004
R	GH3	5	2016	3000	7	130	9.1	0.0004
R	GH3	5	2016	2900	7.03	130	9.14	0.0004
R	GH3	5	2016	2800	7.06	130	9.18	0.0004
R	GH3	5	2016	2700	7.09	130	9.22	0.0004
R	GH3	5	2016	2600	7.12	130	9.26	0.0005
R	GH3	5	2016	2500	7.16	130	9.31	0.0004
R	GH3	5	2016	2400	7.19	130	9.35	0.0004
R	GH3	5	2016	2300	7.22	130	9.39	0.0004
R	GH3	5	2016	2200	7.25	130	9.43	0.0003
R	GH3	5	2016	2100	7.28	130	9.46	0.0006
R	GH3	5	2016	2000	7.32	130	9.52	0.0014
R	GH3	5	2016	1900	7.43	130	9.66	0.0014
R	GH3	5	2016	1800	7.54	130	9.8	0.0015
R	GH3	5	2016	1700	7.65	130	9.95	0.0013
R	GH3	5	2016	1600	7.75	130	10.08	0.0014
R	GH3	5	2016	1500	7.86	130	10.22	0.0014
R	GH3	5	2016	1400	7.97	130	10.36	0.0014
R	GH3	5	2016	1300	8.08	130	10.5	0.0015
R	GH3	5	2016	1200	8.19	130	10.65	0.0014
R	GH3	5	2016	1100	8.3	130	10.79	0.0013
R	GH3	5	2016	1000	8.4	130	10.92	0.0026
R	GH3	5	2016	900	8.6	130	11.18	0.0026
R	GH3	5	2016	800	8.8	130	11.44	0.0042
R	GH3	5	2016	700	9.12	130	11.86	0.0043
R	GH3	5	2016	600	9.45	130	12.29	0.0058
R	GH3	5	2016	500	9.9	130	12.87	0.0078
R	GH3	5	2016	400	10.5	130	13.65	0.0117

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	5	2016	300	11.4	130	14.82	0.0208
R	GH3	5	2016	200	13	130	16.9	0.0455
R	GH3	5	2016	100	16.5	130	21.45	0.1366
R	GH3	5	2016	50	21.75	130	28.28	3.235306
R	GH3	5	2016	1	143.7	130	186.81	0
R	GH3	6	2016	99999999	6.38	130	8.29	0
R	GH3	6	2016	5000	6.38	130	8.29	0.00042
R	GH3	6	2016	4500	6.54	130	8.5	0.0004
R	GH3	6	2016	4000	6.69	130	8.7	0.0004
R	GH3	6	2016	3500	6.85	130	8.9	0.0004
R	GH3	6	2016	3000	7	130	9.1	0.0004
R	GH3	6	2016	2900	7.03	130	9.14	0.0004
R	GH3	6	2016	2800	7.06	130	9.18	0.0004
R	GH3	6	2016	2700	7.09	130	9.22	0.0004
R	GH3	6	2016	2600	7.12	130	9.26	0.0005
R	GH3	6	2016	2500	7.16	130	9.31	0.0004
R	GH3	6	2016	2400	7.19	130	9.35	0.0004
R	GH3	6	2016	2300	7.22	130	9.39	0.0004
R	GH3	6	2016	2200	7.25	130	9.43	0.0003
R	GH3	6	2016	2100	7.28	130	9.46	0.0006
R	GH3	6	2016	2000	7.32	130	9.52	0.0014
R	GH3	6	2016	1900	7.43	130	9.66	0.0014
R	GH3	6	2016	1800	7.54	130	9.8	0.0015
R	GH3	6	2016	1700	7.65	130	9.95	0.0013
R	GH3	6	2016	1600	7.75	130	10.08	0.0014
R	GH3	6	2016	1500	7.86	130	10.22	0.0014
R	GH3	6	2016	1400	7.97	130	10.36	0.0014
R	GH3	6	2016	1300	8.08	130	10.5	0.0015
R	GH3	6	2016	1200	8.19	130	10.65	0.0014
R	GH3	6	2016	1100	8.3	130	10.79	0.0013
R	GH3	6	2016	1000	8.4	130	10.92	0.0026
R	GH3	6	2016	900	8.6	130	11.18	0.0026
R	GH3	6	2016	800	8.8	130	11.44	0.0042
R	GH3	6	2016	700	9.12	130	11.86	0.0043
R	GH3	6	2016	600	9.45	130	12.29	0.0058
R	GH3	6	2016	500	9.9	130	12.87	0.0078
R	GH3	6	2016	400	10.5	130	13.65	0.0117
R	GH3	6	2016	300	11.4	130	14.82	0.0208
R	GH3	6	2016	200	13	130	16.9	0.0455
R	GH3	6	2016	100	16.5	130	21.45	0.1366
R	GH3	6	2016	50	21.75	130	28.28	3.235306
R	GH3	6	2016	1	143.7	130	186.81	0
R	GH3	7	2016	99999999	6.38	130	8.29	0
R	GH3	7	2016	5000	6.38	130	8.29	0.00042

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	7	2016	4500	6.54	130	8.5	0.0004
R	GH3	7	2016	4000	6.69	130	8.7	0.0004
R	GH3	7	2016	3500	6.85	130	8.9	0.0004
R	GH3	7	2016	3000	7	130	9.1	0.0004
R	GH3	7	2016	2900	7.03	130	9.14	0.0004
R	GH3	7	2016	2800	7.06	130	9.18	0.0004
R	GH3	7	2016	2700	7.09	130	9.22	0.0004
R	GH3	7	2016	2600	7.12	130	9.26	0.0005
R	GH3	7	2016	2500	7.16	130	9.31	0.0004
R	GH3	7	2016	2400	7.19	130	9.35	0.0004
R	GH3	7	2016	2300	7.22	130	9.39	0.0004
R	GH3	7	2016	2200	7.25	130	9.43	0.0003
R	GH3	7	2016	2100	7.28	130	9.46	0.0006
R	GH3	7	2016	2000	7.32	130	9.52	0.0014
R	GH3	7	2016	1900	7.43	130	9.66	0.0014
R	GH3	7	2016	1800	7.54	130	9.8	0.0015
R	GH3	7	2016	1700	7.65	130	9.95	0.0013
R	GH3	7	2016	1600	7.75	130	10.08	0.0014
R	GH3	7	2016	1500	7.86	130	10.22	0.0014
R	GH3	7	2016	1400	7.97	130	10.36	0.0014
R	GH3	7	2016	1300	8.08	130	10.5	0.0015
R	GH3	7	2016	1200	8.19	130	10.65	0.0014
R	GH3	7	2016	1100	8.3	130	10.79	0.0013
R	GH3	7	2016	1000	8.4	130	10.92	0.0026
R	GH3	7	2016	900	8.6	130	11.18	0.0026
R	GH3	7	2016	800	8.8	130	11.44	0.0042
R	GH3	7	2016	700	9.12	130	11.86	0.0043
R	GH3	7	2016	600	9.45	130	12.29	0.0058
R	GH3	7	2016	500	9.9	130	12.87	0.0078
R	GH3	7	2016	400	10.5	130	13.65	0.0117
R	GH3	7	2016	300	11.4	130	14.82	0.0208
R	GH3	7	2016	200	13	130	16.9	0.0455
R	GH3	7	2016	100	16.5	130	21.45	0.1366
R	GH3	7	2016	50	21.75	130	28.28	3.235306
R	GH3	7	2016	1	143.7	130	186.81	0
R	GH3	8	2016	99999999	6.38	130	8.29	0
R	GH3	8	2016	5000	6.38	130	8.29	0.00042
R	GH3	8	2016	4500	6.54	130	8.5	0.0004
R	GH3	8	2016	4000	6.69	130	8.7	0.0004
R	GH3	8	2016	3500	6.85	130	8.9	0.0004
R	GH3	8	2016	3000	7	130	9.1	0.0004
R	GH3	8	2016	2900	7.03	130	9.14	0.0004
R	GH3	8	2016	2800	7.06	130	9.18	0.0004
R	GH3	8	2016	2700	7.09	130	9.22	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	GH3	8	2016	2600	7.12	130	9.26	0.0005
R	GH3	8	2016	2500	7.16	130	9.31	0.0004
R	GH3	8	2016	2400	7.19	130	9.35	0.0004
R	GH3	8	2016	2300	7.22	130	9.39	0.0004
R	GH3	8	2016	2200	7.25	130	9.43	0.0003
R	GH3	8	2016	2100	7.28	130	9.46	0.0006
R	GH3	8	2016	2000	7.32	130	9.52	0.0014
R	GH3	8	2016	1900	7.43	130	9.66	0.0014
R	GH3	8	2016	1800	7.54	130	9.8	0.0015
R	GH3	8	2016	1700	7.65	130	9.95	0.0013
R	GH3	8	2016	1600	7.75	130	10.08	0.0014
R	GH3	8	2016	1500	7.86	130	10.22	0.0014
R	GH3	8	2016	1400	7.97	130	10.36	0.0014
R	GH3	8	2016	1300	8.08	130	10.5	0.0015
R	GH3	8	2016	1200	8.19	130	10.65	0.0014
R	GH3	8	2016	1100	8.3	130	10.79	0.0013
R	GH3	8	2016	1000	8.4	130	10.92	0.0026
R	GH3	8	2016	900	8.6	130	11.18	0.0026
R	GH3	8	2016	800	8.8	130	11.44	0.0042
R	GH3	8	2016	700	9.12	130	11.86	0.0043
R	GH3	8	2016	600	9.45	130	12.29	0.0058
R	GH3	8	2016	500	9.9	130	12.87	0.0078
R	GH3	8	2016	400	10.5	130	13.65	0.0117
R	GH3	8	2016	300	11.4	130	14.82	0.0208
R	GH3	8	2016	200	13	130	16.9	0.0455
R	GH3	8	2016	100	16.5	130	21.45	0.1366
R	GH3	8	2016	50	21.75	130	28.28	3.235306
R	GH3	8	2016	1	143.7	130	186.81	0
R	GH3	*	2016	99999999	6.38	100	6.38	0
R	GH3	*	2016	5000	6.38	100	6.38	0.00032
R	GH3	*	2016	4500	6.54	100	6.54	0.0003
R	GH3	*	2016	4000	6.69	100	6.69	0.00032
R	GH3	*	2016	3500	6.85	100	6.85	0.0003
R	GH3	*	2016	3000	7	100	7	0.0003
R	GH3	*	2016	2900	7.03	100	7.03	0.0003
R	GH3	*	2016	2800	7.06	100	7.06	0.0003
R	GH3	*	2016	2700	7.09	100	7.09	0.0003
R	GH3	*	2016	2600	7.12	100	7.12	0.0004
R	GH3	*	2016	2500	7.16	100	7.16	0.0003
R	GH3	*	2016	2400	7.19	100	7.19	0.0003
R	GH3	*	2016	2300	7.22	100	7.22	0.0003
R	GH3	*	2016	2200	7.25	100	7.25	0.0003
R	GH3	*	2016	2100	7.28	100	7.28	0.0004
R	GH3	*	2016	2000	7.32	100	7.32	0.0011

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	GH3	*	2016	1900	7.43	100	7.43	0.0011
R	GH3	*	2016	1800	7.54	100	7.54	0.0011
R	GH3	*	2016	1700	7.65	100	7.65	0.001
R	GH3	*	2016	1600	7.75	100	7.75	0.0011
R	GH3	*	2016	1500	7.86	100	7.86	0.0011
R	GH3	*	2016	1400	7.97	100	7.97	0.0011
R	GH3	*	2016	1300	8.08	100	8.08	0.0011
R	GH3	*	2016	1200	8.19	100	8.19	0.0011
R	GH3	*	2016	1100	8.3	100	8.3	0.001
R	GH3	*	2016	1000	8.4	100	8.4	0.002
R	GH3	*	2016	900	8.6	100	8.6	0.002
R	GH3	*	2016	800	8.8	100	8.8	0.0032
R	GH3	*	2016	700	9.12	100	9.12	0.0033
R	GH3	*	2016	600	9.45	100	9.45	0.0045
R	GH3	*	2016	500	9.9	100	9.9	0.006
R	GH3	*	2016	400	10.5	100	10.5	0.009
R	GH3	*	2016	300	11.4	100	11.4	0.016
R	GH3	*	2016	200	13	100	13	0.035
R	GH3	*	2016	100	16.5	100	16.5	0.105
R	GH3	*	2016	50	21.75	100	21.75	2.488776
R	GH3	*	2016	1	143.7	100	143.7	0
R	MA	1	2016	999999999	18.07	100	18.07	
R	MA	1	2016	4999	18.07	100	18.07	
R	MA	1	2016	4899	18.12	100	18.12	
R	MA	1	2016	4799	18.17	100	18.17	
R	MA	1	2016	4699	18.2	100	18.2	
R	MA	1	2016	4599	18.24	100	18.24	
R	MA	1	2016	4499	18.31	100	18.31	
R	MA	1	2016	4399	18.35	100	18.35	
R	MA	1	2016	4299	18.41	100	18.41	
R	MA	1	2016	4199	18.46	100	18.46	
R	MA	1	2016	4099	18.53	100	18.53	
R	MA	1	2016	3999	18.59	100	18.59	
R	MA	1	2016	3899	18.64	100	18.64	
R	MA	1	2016	3799	18.74	100	18.74	
R	MA	1	2016	3699	18.8	100	18.8	
R	MA	1	2016	3599	18.89	100	18.89	
R	MA	1	2016	3499	18.97	100	18.97	
R	MA	1	2016	3399	19.05	100	19.05	
R	MA	1	2016	3299	19.16	100	19.16	
R	MA	1	2016	3199	19.25	100	19.25	
R	MA	1	2016	3099	19.35	100	19.35	
R	MA	1	2016	2999	19.48	100	19.48	
R	MA	1	2016	2899	19.59	100	19.59	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	1	2016	2799	19.71	100	19.71	
R	MA	1	2016	2699	19.88	100	19.88	
R	MA	1	2016	2599	20.02	100	20.02	
R	MA	1	2016	2499	20.17	100	20.17	
R	MA	1	2016	2399	20.36	100	20.36	
R	MA	1	2016	2299	20.57	100	20.57	
R	MA	1	2016	2199	20.76	100	20.76	
R	MA	1	2016	2099	21	100	21	
R	MA	1	2016	1999	21.26	100	21.26	
R	MA	1	2016	1899	21.41	100	21.41	
R	MA	1	2016	1799	21.88	100	21.88	
R	MA	1	2016	1699	22.24	100	22.24	
R	MA	1	2016	1599	22.66	100	22.66	
R	MA	1	2016	1499	23.15	100	23.15	
R	MA	1	2016	1399	23.68	100	23.68	
R	MA	1	2016	1299	24.43	100	24.43	
R	MA	1	2016	1199	25.06	100	25.06	
R	MA	1	2016	1099	26	100	26	
R	MA	1	2016	999	27.09	100	27.09	
R	MA	1	2016	899	28.45	100	28.45	
R	MA	1	2016	799	30.25	100	30.25	
R	MA	1	2016	699	32.61	100	32.61	
R	MA	1	2016	599	35.9	100	35.9	
R	MA	2	2016	999999999	26.57	100	26.57	
R	MA	2	2016	4999	26.57	100	26.57	
R	MA	2	2016	4899	26.64	100	26.64	
R	MA	2	2016	4799	26.73	100	26.73	
R	MA	2	2016	4699	26.77	100	26.77	
R	MA	2	2016	4599	26.83	100	26.83	
R	MA	2	2016	4499	26.92	100	26.92	
R	MA	2	2016	4399	27.01	100	27.01	
R	MA	2	2016	4299	27.07	100	27.07	
R	MA	2	2016	4199	27.15	100	27.15	
R	MA	2	2016	4099	27.24	100	27.24	
R	MA	2	2016	3999	27.36	100	27.36	
R	MA	2	2016	3899	27.43	100	27.43	
R	MA	2	2016	3799	27.55	100	27.55	
R	MA	2	2016	3699	27.65	100	27.65	
R	MA	2	2016	3599	27.77	100	27.77	
R	MA	2	2016	3499	27.89	100	27.89	
R	MA	2	2016	3399	28.01	100	28.01	
R	MA	2	2016	3299	28.17	100	28.17	
R	MA	2	2016	3199	28.31	100	28.31	
R	MA	2	2016	3099	28.46	100	28.46	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	2	2016	2999	28.65	100	28.65	
R	MA	2	2016	2899	28.81	100	28.81	
R	MA	2	2016	2799	29	100	29	
R	MA	2	2016	2699	29.22	100	29.22	
R	MA	2	2016	2599	29.44	100	29.44	
R	MA	2	2016	2499	29.68	100	29.68	
R	MA	2	2016	2399	29.94	100	29.94	
R	MA	2	2016	2299	30.23	100	30.23	
R	MA	2	2016	2199	30.54	100	30.54	
R	MA	2	2016	2099	30.91	100	30.91	
R	MA	2	2016	1999	31.32	100	31.32	
R	MA	2	2016	1899	31.47	100	31.47	
R	MA	2	2016	1799	32.17	100	32.17	
R	MA	2	2016	1699	32.74	100	32.74	
R	MA	2	2016	1599	33.34	100	33.34	
R	MA	2	2016	1499	34.02	100	34.02	
R	MA	2	2016	1399	34.83	100	34.83	
R	MA	2	2016	1299	35.96	100	35.96	
R	MA	2	2016	1199	36.9	100	36.9	
R	MA	2	2016	1099	38.2	100	38.2	
R	MA	2	2016	999	39.83	100	39.83	
R	MA	2	2016	899	41.85	100	41.85	
R	MA	2	2016	799	44.46	100	44.46	
R	MA	2	2016	699	47.96	100	47.96	
R	MA	2	2016	599	52.81	100	52.81	
R	MA	3	2016	999999999	40.66	100	40.66	
R	MA	3	2016	4999	40.66	100	40.66	
R	MA	3	2016	4899	40.75	100	40.75	
R	MA	3	2016	4799	40.86	100	40.86	
R	MA	3	2016	4699	40.95	100	40.95	
R	MA	3	2016	4599	41.07	100	41.07	
R	MA	3	2016	4499	41.18	100	41.18	
R	MA	3	2016	4399	41.31	100	41.31	
R	MA	3	2016	4299	41.4	100	41.4	
R	MA	3	2016	4199	41.54	100	41.54	
R	MA	3	2016	4099	41.68	100	41.68	
R	MA	3	2016	3999	41.84	100	41.84	
R	MA	3	2016	3899	41.98	100	41.98	
R	MA	3	2016	3799	42.16	100	42.16	
R	MA	3	2016	3699	42.31	100	42.31	
R	MA	3	2016	3599	42.49	100	42.49	
R	MA	3	2016	3499	42.67	100	42.67	
R	MA	3	2016	3399	42.85	100	42.85	
R	MA	3	2016	3299	43.08	100	43.08	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	3	2016	3199	43.31	100	43.31	
R	MA	3	2016	3099	43.53	100	43.53	
R	MA	3	2016	2999	43.82	100	43.82	
R	MA	3	2016	2899	44.08	100	44.08	
R	MA	3	2016	2799	44.38	100	44.38	
R	MA	3	2016	2699	44.7	100	44.7	
R	MA	3	2016	2599	45.04	100	45.04	
R	MA	3	2016	2499	45.41	100	45.41	
R	MA	3	2016	2399	45.83	100	45.83	
R	MA	3	2016	2299	46.28	100	46.28	
R	MA	3	2016	2199	46.72	100	46.72	
R	MA	3	2016	2099	47.26	100	47.26	
R	MA	3	2016	1999	47.85	100	47.85	
R	MA	3	2016	1899	48.17	100	48.17	
R	MA	3	2016	1799	49.26	100	49.26	
R	MA	3	2016	1699	50.06	100	50.06	
R	MA	3	2016	1599	51.01	100	51.01	
R	MA	3	2016	1499	52.1	100	52.1	
R	MA	3	2016	1399	54.25	100	54.25	
R	MA	3	2016	1299	54.98	100	54.98	
R	MA	3	2016	1199	56.43	100	56.43	
R	MA	3	2016	1099	58.44	100	58.44	
R	MA	3	2016	999	60.93	100	60.93	
R	MA	3	2016	899	64.04	100	64.04	
R	MA	3	2016	799	68.03	100	68.03	
R	MA	3	2016	699	73.36	100	73.36	
R	MA	3	2016	599	80.77	100	80.77	
R	MA	4	2016	999999999	51.28	100	51.28	
R	MA	4	2016	4999	51.28	100	51.28	
R	MA	4	2016	4899	51.41	100	51.41	
R	MA	4	2016	4799	51.51	100	51.51	
R	MA	4	2016	4699	51.63	100	51.63	
R	MA	4	2016	4599	51.78	100	51.78	
R	MA	4	2016	4499	51.93	100	51.93	
R	MA	4	2016	4399	52.08	100	52.08	
R	MA	4	2016	4299	52.24	100	52.24	
R	MA	4	2016	4199	52.39	100	52.39	
R	MA	4	2016	4099	52.57	100	52.57	
R	MA	4	2016	3999	52.76	100	52.76	
R	MA	4	2016	3899	52.93	100	52.93	
R	MA	4	2016	3799	53.13	100	53.13	
R	MA	4	2016	3699	53.36	100	53.36	
R	MA	4	2016	3599	53.58	100	53.58	
R	MA	4	2016	3499	53.8	100	53.8	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	4	2016	3399	54.05	100	54.05	
R	MA	4	2016	3299	54.35	100	54.35	
R	MA	4	2016	3199	54.62	100	54.62	
R	MA	4	2016	3099	54.92	100	54.92	
R	MA	4	2016	2999	55.26	100	55.26	
R	MA	4	2016	2899	55.58	100	55.58	
R	MA	4	2016	2799	55.97	100	55.97	
R	MA	4	2016	2699	56.37	100	56.37	
R	MA	4	2016	2599	56.8	100	56.8	
R	MA	4	2016	2499	57.26	100	57.26	
R	MA	4	2016	2399	57.78	100	57.78	
R	MA	4	2016	2299	58.33	100	58.33	
R	MA	4	2016	2199	58.94	100	58.94	
R	MA	4	2016	2099	59.61	100	59.61	
R	MA	4	2016	1999	60.38	100	60.38	
R	MA	4	2016	1899	60.74	100	60.74	
R	MA	4	2016	1799	62.09	100	62.09	
R	MA	4	2016	1699	63.14	100	63.14	
R	MA	4	2016	1599	64.32	100	64.32	
R	MA	4	2016	1499	65.65	100	65.65	
R	MA	4	2016	1399	67.2	100	67.2	
R	MA	4	2016	1299	69.32	100	69.32	
R	MA	4	2016	1199	71.15	100	71.15	
R	MA	4	2016	1099	73.69	100	73.69	
R	MA	4	2016	999	76.18	100	76.18	
R	MA	4	2016	899	80.72	100	80.72	
R	MA	4	2016	799	85.79	100	85.79	
R	MA	4	2016	699	92.47	100	92.47	
R	MA	4	2016	599	101.87	100	101.87	
R	MA	5	2016	999999999	54.06	100	54.06	
R	MA	5	2016	4999	54.06	100	54.06	
R	MA	5	2016	4899	54.2	100	54.2	
R	MA	5	2016	4799	54.31	100	54.31	
R	MA	5	2016	4699	54.45	100	54.45	
R	MA	5	2016	4599	54.59	100	54.59	
R	MA	5	2016	4499	54.75	100	54.75	
R	MA	5	2016	4399	54.91	100	54.91	
R	MA	5	2016	4299	55.07	100	55.07	
R	MA	5	2016	4199	55.26	100	55.26	
R	MA	5	2016	4099	55.43	100	55.43	
R	MA	5	2016	3999	55.62	100	55.62	
R	MA	5	2016	3899	55.81	100	55.81	
R	MA	5	2016	3799	56.01	100	56.01	
R	MA	5	2016	3699	56.23	100	56.23	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	5	2016	3599	56.5	100	56.5	
R	MA	5	2016	3499	56.73	100	56.73	
R	MA	5	2016	3399	56.99	100	56.99	
R	MA	5	2016	3299	57.31	100	57.31	
R	MA	5	2016	3199	57.58	100	57.58	
R	MA	5	2016	3099	57.88	100	57.88	
R	MA	5	2016	2999	58.25	100	58.25	
R	MA	5	2016	2899	58.61	100	58.61	
R	MA	5	2016	2799	59.01	100	59.01	
R	MA	5	2016	2699	59.43	100	59.43	
R	MA	5	2016	2599	59.87	100	59.87	
R	MA	5	2016	2499	60.37	100	60.37	
R	MA	5	2016	2399	60.91	100	60.91	
R	MA	5	2016	2299	61.52	100	61.52	
R	MA	5	2016	2199	62.12	100	62.12	
R	MA	5	2016	2099	62.83	100	62.83	
R	MA	5	2016	1999	63.63	100	63.63	
R	MA	5	2016	1899	64.02	100	64.02	
R	MA	5	2016	1799	65.45	100	65.45	
R	MA	5	2016	1699	66.57	100	66.57	
R	MA	5	2016	1599	67.79	100	67.79	
R	MA	5	2016	1499	69.21	100	69.21	
R	MA	5	2016	1399	70.85	100	70.85	
R	MA	5	2016	1299	73.09	100	73.09	
R	MA	5	2016	1199	74.98	100	74.98	
R	MA	5	2016	1099	77.71	100	77.71	
R	MA	5	2016	999	80.99	100	80.99	
R	MA	5	2016	899	85.11	100	85.11	
R	MA	5	2016	799	90.43	100	90.43	
R	MA	5	2016	699	97.49	100	97.49	
R	MA	5	2016	599	107.38	100	107.38	
R	MA	6	2016	999999999	64.66	100	64.66	
R	MA	6	2016	4999	64.66	100	64.66	
R	MA	6	2016	4899	64.83	100	64.83	
R	MA	6	2016	4799	64.98	100	64.98	
R	MA	6	2016	4699	65.13	100	65.13	
R	MA	6	2016	4599	65.3	100	65.3	
R	MA	6	2016	4499	65.48	100	65.48	
R	MA	6	2016	4399	65.68	100	65.68	
R	MA	6	2016	4299	65.87	100	65.87	
R	MA	6	2016	4199	66.07	100	66.07	
R	MA	6	2016	4099	66.29	100	66.29	
R	MA	6	2016	3999	66.54	100	66.54	
R	MA	6	2016	3899	66.74	100	66.74	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	6	2016	3799	67.02	100	67.02	
R	MA	6	2016	3699	67.28	100	67.28	
R	MA	6	2016	3599	67.57	100	67.57	
R	MA	6	2016	3499	67.86	100	67.86	
R	MA	6	2016	3399	68.16	100	68.16	
R	MA	6	2016	3299	68.54	100	68.54	
R	MA	6	2016	3199	68.87	100	68.87	
R	MA	6	2016	3099	69.25	100	69.25	
R	MA	6	2016	2999	69.68	100	69.68	
R	MA	6	2016	2899	70.11	100	70.11	
R	MA	6	2016	2799	70.59	100	70.59	
R	MA	6	2016	2699	71.09	100	71.09	
R	MA	6	2016	2599	71.61	100	71.61	
R	MA	6	2016	2499	72.2	100	72.2	
R	MA	6	2016	2399	72.86	100	72.86	
R	MA	6	2016	2299	73.56	100	73.56	
R	MA	6	2016	2199	74.32	100	74.32	
R	MA	6	2016	2099	75.17	100	75.17	
R	MA	6	2016	1999	76.13	100	76.13	
R	MA	6	2016	1899	76.58	100	76.58	
R	MA	6	2016	1799	78.28	100	78.28	
R	MA	6	2016	1699	79.62	100	79.62	
R	MA	6	2016	1599	81.09	100	81.09	
R	MA	6	2016	1499	82.78	100	82.78	
R	MA	6	2016	1399	84.73	100	84.73	
R	MA	6	2016	1299	87.43	100	87.43	
R	MA	6	2016	1199	89.71	100	89.71	
R	MA	6	2016	1099	92.94	100	92.94	
R	MA	6	2016	999	96.87	100	96.87	
R	MA	6	2016	899	101.81	100	101.81	
R	MA	6	2016	799	108.16	100	108.16	
R	MA	6	2016	699	116.61	100	116.61	
R	MA	6	2016	599	128.47	100	128.47	
R	MA	7	2016	999999999	87.13	100	87.13	
R	MA	7	2016	4999	87.13	100	87.13	
R	MA	7	2016	4899	87.35	100	87.35	
R	MA	7	2016	4799	87.56	100	87.56	
R	MA	7	2016	4699	87.75	100	87.75	
R	MA	7	2016	4599	88	100	88	
R	MA	7	2016	4499	88.24	100	88.24	
R	MA	7	2016	4399	88.49	100	88.49	
R	MA	7	2016	4299	88.76	100	88.76	
R	MA	7	2016	4199	89.02	100	89.02	
R	MA	7	2016	4099	89.32	100	89.32	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	7	2016	3999	89.65	100	89.65	
R	MA	7	2016	3899	89.93	100	89.93	
R	MA	7	2016	3799	90.29	100	90.29	
R	MA	7	2016	3699	90.66	100	90.66	
R	MA	7	2016	3599	91.05	100	91.05	
R	MA	7	2016	3499	91.46	100	91.46	
R	MA	7	2016	3399	91.83	100	91.83	
R	MA	7	2016	3299	92.35	100	92.35	
R	MA	7	2016	3199	92.82	100	92.82	
R	MA	7	2016	3099	93.31	100	93.31	
R	MA	7	2016	2999	93.89	100	93.89	
R	MA	7	2016	2899	94.46	100	94.46	
R	MA	7	2016	2799	95.1	100	95.1	
R	MA	7	2016	2699	95.8	100	95.8	
R	MA	7	2016	2599	96.51	100	96.51	
R	MA	7	2016	2499	97.28	100	97.28	
R	MA	7	2016	2399	98.16	100	98.16	
R	MA	7	2016	2299	99.12	100	99.12	
R	MA	7	2016	2199	100.15	100	100.15	
R	MA	7	2016	2099	101.29	100	101.29	
R	MA	7	2016	1999	102.58	100	102.58	
R	MA	7	2016	1899	103.19	100	103.19	
R	MA	7	2016	1799	105.5	100	105.5	
R	MA	7	2016	1699	107.29	100	107.29	
R	MA	7	2016	1599	109.27	100	109.27	
R	MA	7	2016	1499	111.59	100	111.59	
R	MA	7	2016	1399	114.18	100	114.18	
R	MA	7	2016	1299	117.82	100	117.82	
R	MA	7	2016	1199	120.87	100	120.87	
R	MA	7	2016	1099	125.23	100	125.23	
R	MA	7	2016	999	130.54	100	130.54	
R	MA	7	2016	899	137.19	100	137.19	
R	MA	7	2016	799	145.74	100	145.74	
R	MA	7	2016	699	157.12	100	157.12	
R	MA	7	2016	599	173.07	100	173.07	
R	MA	8	2016	999999999	98.37	100	98.37	
R	MA	8	2016	4999	98.37	100	98.37	
R	MA	8	2016	4899	98.61	100	98.61	
R	MA	8	2016	4799	98.85	100	98.85	
R	MA	8	2016	4699	99.06	100	99.06	
R	MA	8	2016	4599	99.35	100	99.35	
R	MA	8	2016	4499	99.62	100	99.62	
R	MA	8	2016	4399	99.9	100	99.9	
R	MA	8	2016	4299	100.21	100	100.21	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	8	2016	4199	100.5	100	100.5	
R	MA	8	2016	4099	100.84	100	100.84	
R	MA	8	2016	3999	101.21	100	101.21	
R	MA	8	2016	3899	101.53	100	101.53	
R	MA	8	2016	3799	101.93	100	101.93	
R	MA	8	2016	3699	102.35	100	102.35	
R	MA	8	2016	3599	102.79	100	102.79	
R	MA	8	2016	3499	103.26	100	103.26	
R	MA	8	2016	3399	103.67	100	103.67	
R	MA	8	2016	3299	104.26	100	104.26	
R	MA	8	2016	3199	104.8	100	104.8	
R	MA	8	2016	3099	105.34	100	105.34	
R	MA	8	2016	2999	106	100	106	
R	MA	8	2016	2899	106.64	100	106.64	
R	MA	8	2016	2799	107.36	100	107.36	
R	MA	8	2016	2699	108.16	100	108.16	
R	MA	8	2016	2599	108.96	100	108.96	
R	MA	8	2016	2499	109.82	100	109.82	
R	MA	8	2016	2399	110.81	100	110.81	
R	MA	8	2016	2299	111.9	100	111.9	
R	MA	8	2016	2199	113.07	100	113.07	
R	MA	8	2016	2099	114.35	100	114.35	
R	MA	8	2016	1999	115.81	100	115.81	
R	MA	8	2016	1899	116.5	100	116.5	
R	MA	8	2016	1799	119.11	100	119.11	
R	MA	8	2016	1699	121.13	100	121.13	
R	MA	8	2016	1599	123.36	100	123.36	
R	MA	8	2016	1499	126	100	126	
R	MA	8	2016	1399	128.91	100	128.91	
R	MA	8	2016	1299	133.02	100	133.02	
R	MA	8	2016	1199	136.45	100	136.45	
R	MA	8	2016	1099	141.38	100	141.38	
R	MA	8	2016	999	147.38	100	147.38	
R	MA	8	2016	899	154.88	100	154.88	
R	MA	8	2016	799	164.53	100	164.53	
R	MA	8	2016	699	177.38	100	177.38	
R	MA	8	2016	599	195.37	100	195.37	
R	MA	1-	2016	999999999	16.6	100	16.6	
R	MA	1-	2016	4999	16.6	100	16.6	
R	MA	1-	2016	4899	16.66	100	16.66	
R	MA	1-	2016	4799	16.68	100	16.68	
R	MA	1-	2016	4699	16.71	100	16.71	
R	MA	1-	2016	4599	16.76	100	16.76	
R	MA	1-	2016	4499	16.83	100	16.83	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	1-	2016	4399	16.87	100	16.87	
R	MA	1-	2016	4299	16.92	100	16.92	
R	MA	1-	2016	4199	16.96	100	16.96	
R	MA	1-	2016	4099	17.02	100	17.02	
R	MA	1-	2016	3999	17.09	100	17.09	
R	MA	1-	2016	3899	17.13	100	17.13	
R	MA	1-	2016	3799	17.22	100	17.22	
R	MA	1-	2016	3699	17.28	100	17.28	
R	MA	1-	2016	3599	17.35	100	17.35	
R	MA	1-	2016	3499	17.43	100	17.43	
R	MA	1-	2016	3399	17.51	100	17.51	
R	MA	1-	2016	3299	17.61	100	17.61	
R	MA	1-	2016	3199	17.69	100	17.69	
R	MA	1-	2016	3099	17.78	100	17.78	
R	MA	1-	2016	2999	17.89	100	17.89	
R	MA	1-	2016	2899	18.01	100	18.01	
R	MA	1-	2016	2799	18.11	100	18.11	
R	MA	1-	2016	2699	18.25	100	18.25	
R	MA	1-	2016	2599	18.4	100	18.4	
R	MA	1-	2016	2499	18.53	100	18.53	
R	MA	1-	2016	2399	18.7	100	18.7	
R	MA	1-	2016	2299	18.9	100	18.9	
R	MA	1-	2016	2199	19.07	100	19.07	
R	MA	1-	2016	2099	19.31	100	19.31	
R	MA	1-	2016	1999	19.54	100	19.54	
R	MA	1-	2016	1899	19.66	100	19.66	
R	MA	1-	2016	1799	20.11	100	20.11	
R	MA	1-	2016	1699	20.44	100	20.44	
R	MA	1-	2016	1599	20.82	100	20.82	
R	MA	1-	2016	1499	21.26	100	21.26	
R	MA	1-	2016	1399	21.75	100	21.75	
R	MA	1-	2016	1299	22.44	100	22.44	
R	MA	1-	2016	1199	23.02	100	23.02	
R	MA	1-	2016	1099	23.88	100	23.88	
R	MA	1-	2016	999	24.89	100	24.89	
R	MA	1-	2016	899	26.13	100	26.13	
R	MA	1-	2016	799	27.78	100	27.78	
R	MA	1-	2016	699	29.96	100	29.96	
R	MA	1-	2016	599	32.98	100	32.98	
R	MA	1+	2016	999999999	18.97	100	18.97	
R	MA	1+	2016	4999	18.97	100	18.97	
R	MA	1+	2016	4899	19.03	100	19.03	
R	MA	1+	2016	4799	19.07	100	19.07	
R	MA	1+	2016	4699	19.1	100	19.1	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	1+	2016	4599	19.16	100	19.16	
R	MA	1+	2016	4499	19.23	100	19.23	
R	MA	1+	2016	4399	19.28	100	19.28	
R	MA	1+	2016	4299	19.33	100	19.33	
R	MA	1+	2016	4199	19.38	100	19.38	
R	MA	1+	2016	4099	19.45	100	19.45	
R	MA	1+	2016	3999	19.52	100	19.52	
R	MA	1+	2016	3899	19.58	100	19.58	
R	MA	1+	2016	3799	19.68	100	19.68	
R	MA	1+	2016	3699	19.75	100	19.75	
R	MA	1+	2016	3599	19.84	100	19.84	
R	MA	1+	2016	3499	19.92	100	19.92	
R	MA	1+	2016	3399	20.01	100	20.01	
R	MA	1+	2016	3299	20.13	100	20.13	
R	MA	1+	2016	3199	20.21	100	20.21	
R	MA	1+	2016	3099	20.31	100	20.31	
R	MA	1+	2016	2999	20.46	100	20.46	
R	MA	1+	2016	2899	20.57	100	20.57	
R	MA	1+	2016	2799	20.7	100	20.7	
R	MA	1+	2016	2699	20.87	100	20.87	
R	MA	1+	2016	2599	21.02	100	21.02	
R	MA	1+	2016	2499	21.18	100	21.18	
R	MA	1+	2016	2399	21.36	100	21.36	
R	MA	1+	2016	2299	21.59	100	21.59	
R	MA	1+	2016	2199	21.8	100	21.8	
R	MA	1+	2016	2099	22.05	100	22.05	
R	MA	1+	2016	1999	22.31	100	22.31	
R	MA	1+	2016	1899	22.47	100	22.47	
R	MA	1+	2016	1799	22.98	100	22.98	
R	MA	1+	2016	1699	23.35	100	23.35	
R	MA	1+	2016	1599	23.78	100	23.78	
R	MA	1+	2016	1499	24.3	100	24.3	
R	MA	1+	2016	1399	24.86	100	24.86	
R	MA	1+	2016	1299	25.65	100	25.65	
R	MA	1+	2016	1199	26.32	100	26.32	
R	MA	1+	2016	1099	27.29	100	27.29	
R	MA	1+	2016	999	28.45	100	28.45	
R	MA	1+	2016	899	29.87	100	29.87	
R	MA	1+	2016	799	31.76	100	31.76	
R	MA	1+	2016	699	34.23	100	34.23	
R	MA	1+	2016	599	37.69	100	37.69	
R	MA	2-	2016	999999999	21.62	100	21.62	
R	MA	2-	2016	4999	21.62	100	21.62	
R	MA	2-	2016	4899	21.68	100	21.68	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	2-	2016	4799	21.76	100	21.76	
R	MA	2-	2016	4699	21.78	100	21.78	
R	MA	2-	2016	4599	21.84	100	21.84	
R	MA	2-	2016	4499	21.92	100	21.92	
R	MA	2-	2016	4399	21.98	100	21.98	
R	MA	2-	2016	4299	22.02	100	22.02	
R	MA	2-	2016	4199	22.09	100	22.09	
R	MA	2-	2016	4099	22.18	100	22.18	
R	MA	2-	2016	3999	22.27	100	22.27	
R	MA	2-	2016	3899	22.33	100	22.33	
R	MA	2-	2016	3799	22.43	100	22.43	
R	MA	2-	2016	3699	22.5	100	22.5	
R	MA	2-	2016	3599	22.61	100	22.61	
R	MA	2-	2016	3499	22.69	100	22.69	
R	MA	2-	2016	3399	22.78	100	22.78	
R	MA	2-	2016	3299	22.93	100	22.93	
R	MA	2-	2016	3199	23.05	100	23.05	
R	MA	2-	2016	3099	23.16	100	23.16	
R	MA	2-	2016	2999	23.31	100	23.31	
R	MA	2-	2016	2899	23.44	100	23.44	
R	MA	2-	2016	2799	23.6	100	23.6	
R	MA	2-	2016	2699	23.78	100	23.78	
R	MA	2-	2016	2599	23.96	100	23.96	
R	MA	2-	2016	2499	24.16	100	24.16	
R	MA	2-	2016	2399	24.37	100	24.37	
R	MA	2-	2016	2299	24.6	100	24.6	
R	MA	2-	2016	2199	24.85	100	24.85	
R	MA	2-	2016	2099	25.16	100	25.16	
R	MA	2-	2016	1999	25.48	100	25.48	
R	MA	2-	2016	1899	25.61	100	25.61	
R	MA	2-	2016	1799	26.19	100	26.19	
R	MA	2-	2016	1699	26.66	100	26.66	
R	MA	2-	2016	1599	27.14	100	27.14	
R	MA	2-	2016	1499	27.7	100	27.7	
R	MA	2-	2016	1399	28.34	100	28.34	
R	MA	2-	2016	1299	29.25	100	29.25	
R	MA	2-	2016	1199	30.03	100	30.03	
R	MA	2-	2016	1099	31.09	100	31.09	
R	MA	2-	2016	999	32.42	100	32.42	
R	MA	2-	2016	899	34.06	100	34.06	
R	MA	2-	2016	799	36.19	100	36.19	
R	MA	2-	2016	699	39.02	100	39.02	
R	MA	2-	2016	599	42.98	100	42.98	
R	MA	2+	2016	999999999	28.99	100	28.99	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	2+	2016	4999	28.99	100	28.99	
R	MA	2+	2016	4899	29.08	100	29.08	
R	MA	2+	2016	4799	29.15	100	29.15	
R	MA	2+	2016	4699	29.21	100	29.21	
R	MA	2+	2016	4599	29.27	100	29.27	
R	MA	2+	2016	4499	29.37	100	29.37	
R	MA	2+	2016	4399	29.46	100	29.46	
R	MA	2+	2016	4299	29.53	100	29.53	
R	MA	2+	2016	4199	29.63	100	29.63	
R	MA	2+	2016	4099	29.72	100	29.72	
R	MA	2+	2016	3999	29.84	100	29.84	
R	MA	2+	2016	3899	29.93	100	29.93	
R	MA	2+	2016	3799	30.06	100	30.06	
R	MA	2+	2016	3699	30.16	100	30.16	
R	MA	2+	2016	3599	30.29	100	30.29	
R	MA	2+	2016	3499	30.41	100	30.41	
R	MA	2+	2016	3399	30.56	100	30.56	
R	MA	2+	2016	3299	30.73	100	30.73	
R	MA	2+	2016	3199	30.88	100	30.88	
R	MA	2+	2016	3099	31.06	100	31.06	
R	MA	2+	2016	2999	31.26	100	31.26	
R	MA	2+	2016	2899	31.42	100	31.42	
R	MA	2+	2016	2799	31.64	100	31.64	
R	MA	2+	2016	2699	31.88	100	31.88	
R	MA	2+	2016	2599	32.11	100	32.11	
R	MA	2+	2016	2499	32.38	100	32.38	
R	MA	2+	2016	2399	32.67	100	32.67	
R	MA	2+	2016	2299	32.99	100	32.99	
R	MA	2+	2016	2199	33.33	100	33.33	
R	MA	2+	2016	2099	33.73	100	33.73	
R	MA	2+	2016	1999	34.17	100	34.17	
R	MA	2+	2016	1899	34.33	100	34.33	
R	MA	2+	2016	1799	35.11	100	35.11	
R	MA	2+	2016	1699	35.72	100	35.72	
R	MA	2+	2016	1599	36.38	100	36.38	
R	MA	2+	2016	1499	37.12	100	37.12	
R	MA	2+	2016	1399	38	100	38	
R	MA	2+	2016	1299	39.23	100	39.23	
R	MA	2+	2016	1199	40.24	100	40.24	
R	MA	2+	2016	1099	41.68	100	41.68	
R	MA	2+	2016	999	43.45	100	43.45	
R	MA	2+	2016	899	45.65	100	45.65	
R	MA	2+	2016	799	48.51	100	48.51	
R	MA	2+	2016	699	52.31	100	52.31	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	2+	2016	599	57.62	100	57.62	
R	MA	3-	2016	999999999	38.81	100	38.81	
R	MA	3-	2016	4999	38.81	100	38.81	
R	MA	3-	2016	4899	38.91	100	38.91	
R	MA	3-	2016	4799	39	100	39	
R	MA	3-	2016	4699	39.08	100	39.08	
R	MA	3-	2016	4599	39.21	100	39.21	
R	MA	3-	2016	4499	39.31	100	39.31	
R	MA	3-	2016	4399	39.43	100	39.43	
R	MA	3-	2016	4299	39.53	100	39.53	
R	MA	3-	2016	4199	39.65	100	39.65	
R	MA	3-	2016	4099	39.77	100	39.77	
R	MA	3-	2016	3999	39.94	100	39.94	
R	MA	3-	2016	3899	40.06	100	40.06	
R	MA	3-	2016	3799	40.24	100	40.24	
R	MA	3-	2016	3699	40.38	100	40.38	
R	MA	3-	2016	3599	40.56	100	40.56	
R	MA	3-	2016	3499	40.72	100	40.72	
R	MA	3-	2016	3399	40.91	100	40.91	
R	MA	3-	2016	3299	41.13	100	41.13	
R	MA	3-	2016	3199	41.33	100	41.33	
R	MA	3-	2016	3099	41.56	100	41.56	
R	MA	3-	2016	2999	41.83	100	41.83	
R	MA	3-	2016	2899	42.08	100	42.08	
R	MA	3-	2016	2799	42.37	100	42.37	
R	MA	3-	2016	2699	42.67	100	42.67	
R	MA	3-	2016	2599	43	100	43	
R	MA	3-	2016	2499	43.35	100	43.35	
R	MA	3-	2016	2399	43.74	100	43.74	
R	MA	3-	2016	2299	44.17	100	44.17	
R	MA	3-	2016	2199	44.61	100	44.61	
R	MA	3-	2016	2099	45.1	100	45.1	
R	MA	3-	2016	1999	45.68	100	45.68	
R	MA	3-	2016	1899	45.98	100	45.98	
R	MA	3-	2016	1799	47.01	100	47.01	
R	MA	3-	2016	1699	47.79	100	47.79	
R	MA	3-	2016	1599	48.7	100	48.7	
R	MA	3-	2016	1499	49.72	100	49.72	
R	MA	3-	2016	1399	51.78	100	51.78	
R	MA	3-	2016	1299	52.49	100	52.49	
R	MA	3-	2016	1199	53.86	100	53.86	
R	MA	3-	2016	1099	55.78	100	55.78	
R	MA	3-	2016	999	58.15	100	58.15	
R	MA	3-	2016	899	61.12	100	61.12	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	3-	2016	799	64.93	100	64.93	
R	MA	3-	2016	699	70.02	100	70.02	
R	MA	3-	2016	599	77.1	100	77.1	
R	MA	3+	2016	999999999	42.51	100	42.51	
R	MA	3+	2016	4999	42.51	100	42.51	
R	MA	3+	2016	4899	42.61	100	42.61	
R	MA	3+	2016	4799	42.72	100	42.72	
R	MA	3+	2016	4699	42.81	100	42.81	
R	MA	3+	2016	4599	42.94	100	42.94	
R	MA	3+	2016	4499	43.05	100	43.05	
R	MA	3+	2016	4399	43.19	100	43.19	
R	MA	3+	2016	4299	43.29	100	43.29	
R	MA	3+	2016	4199	43.43	100	43.43	
R	MA	3+	2016	4099	43.56	100	43.56	
R	MA	3+	2016	3999	43.74	100	43.74	
R	MA	3+	2016	3899	43.88	100	43.88	
R	MA	3+	2016	3799	44.08	100	44.08	
R	MA	3+	2016	3699	44.23	100	44.23	
R	MA	3+	2016	3599	44.42	100	44.42	
R	MA	3+	2016	3499	44.61	100	44.61	
R	MA	3+	2016	3399	44.8	100	44.8	
R	MA	3+	2016	3299	45.04	100	45.04	
R	MA	3+	2016	3199	45.27	100	45.27	
R	MA	3+	2016	3099	45.51	100	45.51	
R	MA	3+	2016	2999	45.81	100	45.81	
R	MA	3+	2016	2899	46.09	100	46.09	
R	MA	3+	2016	2799	46.4	100	46.4	
R	MA	3+	2016	2699	46.73	100	46.73	
R	MA	3+	2016	2599	47.1	100	47.1	
R	MA	3+	2016	2499	47.47	100	47.47	
R	MA	3+	2016	2399	47.91	100	47.91	
R	MA	3+	2016	2299	48.38	100	48.38	
R	MA	3+	2016	2199	48.85	100	48.85	
R	MA	3+	2016	2099	49.41	100	49.41	
R	MA	3+	2016	1999	50.03	100	50.03	
R	MA	3+	2016	1899	50.36	100	50.36	
R	MA	3+	2016	1799	51.49	100	51.49	
R	MA	3+	2016	1699	52.34	100	52.34	
R	MA	3+	2016	1599	53.33	100	53.33	
R	MA	3+	2016	1499	54.45	100	54.45	
R	MA	3+	2016	1399	56.72	100	56.72	
R	MA	3+	2016	1299	57.47	100	57.47	
R	MA	3+	2016	1199	59	100	59	
R	MA	3+	2016	1099	61.09	100	61.09	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	3+	2016	999	63.69	100	63.69	
R	MA	3+	2016	899	66.94	100	66.94	
R	MA	3+	2016	799	71.11	100	71.11	
R	MA	3+	2016	699	76.68	100	76.68	
R	MA	3+	2016	599	84.44	100	84.44	
R	MA	4-	2016	999999999	48.95	100	48.95	
R	MA	4-	2016	4999	48.95	100	48.95	
R	MA	4-	2016	4899	49.06	100	49.06	
R	MA	4-	2016	4799	49.18	100	49.18	
R	MA	4-	2016	4699	49.29	100	49.29	
R	MA	4-	2016	4599	49.44	100	49.44	
R	MA	4-	2016	4499	49.57	100	49.57	
R	MA	4-	2016	4399	49.7	100	49.7	
R	MA	4-	2016	4299	49.87	100	49.87	
R	MA	4-	2016	4199	50	100	50	
R	MA	4-	2016	4099	50.18	100	50.18	
R	MA	4-	2016	3999	50.36	100	50.36	
R	MA	4-	2016	3899	50.52	100	50.52	
R	MA	4-	2016	3799	50.73	100	50.73	
R	MA	4-	2016	3699	50.92	100	50.92	
R	MA	4-	2016	3599	51.14	100	51.14	
R	MA	4-	2016	3499	51.37	100	51.37	
R	MA	4-	2016	3399	51.59	100	51.59	
R	MA	4-	2016	3299	51.87	100	51.87	
R	MA	4-	2016	3199	52.14	100	52.14	
R	MA	4-	2016	3099	52.42	100	52.42	
R	MA	4-	2016	2999	52.75	100	52.75	
R	MA	4-	2016	2899	53.06	100	53.06	
R	MA	4-	2016	2799	53.42	100	53.42	
R	MA	4-	2016	2699	53.82	100	53.82	
R	MA	4-	2016	2599	54.22	100	54.22	
R	MA	4-	2016	2499	54.65	100	54.65	
R	MA	4-	2016	2399	55.15	100	55.15	
R	MA	4-	2016	2299	55.69	100	55.69	
R	MA	4-	2016	2199	56.25	100	56.25	
R	MA	4-	2016	2099	56.89	100	56.89	
R	MA	4-	2016	1999	57.63	100	57.63	
R	MA	4-	2016	1899	57.97	100	57.97	
R	MA	4-	2016	1799	59.27	100	59.27	
R	MA	4-	2016	1699	60.26	100	60.26	
R	MA	4-	2016	1599	61.39	100	61.39	
R	MA	4-	2016	1499	62.67	100	62.67	
R	MA	4-	2016	1399	64.15	100	64.15	
R	MA	4-	2016	1299	66.17	100	66.17	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	4-	2016	1199	67.91	100	67.91	
R	MA	4-	2016	1099	70.34	100	70.34	
R	MA	4-	2016	999	72.72	100	72.72	
R	MA	4-	2016	899	77.06	100	77.06	
R	MA	4-	2016	799	81.9	100	81.9	
R	MA	4-	2016	699	88.27	100	88.27	
R	MA	4-	2016	599	97.24	100	97.24	
R	MA	4+	2016	999999999	51.6	100	51.6	
R	MA	4+	2016	4999	51.6	100	51.6	
R	MA	4+	2016	4899	51.73	100	51.73	
R	MA	4+	2016	4799	51.84	100	51.84	
R	MA	4+	2016	4699	51.97	100	51.97	
R	MA	4+	2016	4599	52.11	100	52.11	
R	MA	4+	2016	4499	52.26	100	52.26	
R	MA	4+	2016	4399	52.42	100	52.42	
R	MA	4+	2016	4299	52.58	100	52.58	
R	MA	4+	2016	4199	52.74	100	52.74	
R	MA	4+	2016	4099	52.91	100	52.91	
R	MA	4+	2016	3999	53.1	100	53.1	
R	MA	4+	2016	3899	53.26	100	53.26	
R	MA	4+	2016	3799	53.47	100	53.47	
R	MA	4+	2016	3699	53.68	100	53.68	
R	MA	4+	2016	3599	53.93	100	53.93	
R	MA	4+	2016	3499	54.15	100	54.15	
R	MA	4+	2016	3399	54.4	100	54.4	
R	MA	4+	2016	3299	54.7	100	54.7	
R	MA	4+	2016	3199	54.96	100	54.96	
R	MA	4+	2016	3099	55.26	100	55.26	
R	MA	4+	2016	2999	55.61	100	55.61	
R	MA	4+	2016	2899	55.94	100	55.94	
R	MA	4+	2016	2799	56.32	100	56.32	
R	MA	4+	2016	2699	56.72	100	56.72	
R	MA	4+	2016	2599	57.15	100	57.15	
R	MA	4+	2016	2499	57.62	100	57.62	
R	MA	4+	2016	2399	58.13	100	58.13	
R	MA	4+	2016	2299	58.73	100	58.73	
R	MA	4+	2016	2199	59.29	100	59.29	
R	MA	4+	2016	2099	59.98	100	59.98	
R	MA	4+	2016	1999	60.73	100	60.73	
R	MA	4+	2016	1899	61.11	100	61.11	
R	MA	4+	2016	1799	62.47	100	62.47	
R	MA	4+	2016	1699	63.53	100	63.53	
R	MA	4+	2016	1599	64.71	100	64.71	
R	MA	4+	2016	1499	66.07	100	66.07	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	4+	2016	1399	67.62	100	67.62	
R	MA	4+	2016	1299	69.77	100	69.77	
R	MA	4+	2016	1199	71.58	100	71.58	
R	MA	4+	2016	1099	74.17	100	74.17	
R	MA	4+	2016	999	77.31	100	77.31	
R	MA	4+	2016	899	81.22	100	81.22	
R	MA	4+	2016	799	86.32	100	86.32	
R	MA	4+	2016	699	93.05	100	93.05	
R	MA	4+	2016	599	102.5	100	102.5	
R	MA	5-	2016	999999999	53.61	100	53.61	
R	MA	5-	2016	4999	53.61	100	53.61	
R	MA	5-	2016	4899	53.74	100	53.74	
R	MA	5-	2016	4799	53.86	100	53.86	
R	MA	5-	2016	4699	53.98	100	53.98	
R	MA	5-	2016	4599	54.13	100	54.13	
R	MA	5-	2016	4499	54.29	100	54.29	
R	MA	5-	2016	4399	54.44	100	54.44	
R	MA	5-	2016	4299	54.62	100	54.62	
R	MA	5-	2016	4199	54.77	100	54.77	
R	MA	5-	2016	4099	54.96	100	54.96	
R	MA	5-	2016	3999	55.15	100	55.15	
R	MA	5-	2016	3899	55.33	100	55.33	
R	MA	5-	2016	3799	55.55	100	55.55	
R	MA	5-	2016	3699	55.78	100	55.78	
R	MA	5-	2016	3599	56.01	100	56.01	
R	MA	5-	2016	3499	56.25	100	56.25	
R	MA	5-	2016	3399	56.5	100	56.5	
R	MA	5-	2016	3299	56.82	100	56.82	
R	MA	5-	2016	3199	57.11	100	57.11	
R	MA	5-	2016	3099	57.41	100	57.41	
R	MA	5-	2016	2999	57.77	100	57.77	
R	MA	5-	2016	2899	58.11	100	58.11	
R	MA	5-	2016	2799	58.51	100	58.51	
R	MA	5-	2016	2699	58.94	100	58.94	
R	MA	5-	2016	2599	59.39	100	59.39	
R	MA	5-	2016	2499	59.86	100	59.86	
R	MA	5-	2016	2399	60.41	100	60.41	
R	MA	5-	2016	2299	60.99	100	60.99	
R	MA	5-	2016	2199	61.61	100	61.61	
R	MA	5-	2016	2099	62.31	100	62.31	
R	MA	5-	2016	1999	63.11	100	63.11	
R	MA	5-	2016	1899	63.5	100	63.5	
R	MA	5-	2016	1799	64.91	100	64.91	
R	MA	5-	2016	1699	66.01	100	66.01	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	5-	2016	1599	67.24	100	67.24	
R	MA	5-	2016	1499	68.64	100	68.64	
R	MA	5-	2016	1399	70.26	100	70.26	
R	MA	5-	2016	1299	72.48	100	72.48	
R	MA	5-	2016	1199	74.37	100	74.37	
R	MA	5-	2016	1099	77.04	100	77.04	
R	MA	5-	2016	999	79.66	100	79.66	
R	MA	5-	2016	899	84.39	100	84.39	
R	MA	5-	2016	799	89.69	100	89.69	
R	MA	5-	2016	699	96.67	100	96.67	
R	MA	5-	2016	599	106.49	100	106.49	
R	MA	5+	2016	999999999	56.51	100	56.51	
R	MA	5+	2016	4999	56.51	100	56.51	
R	MA	5+	2016	4899	56.66	100	56.66	
R	MA	5+	2016	4799	56.78	100	56.78	
R	MA	5+	2016	4699	56.92	100	56.92	
R	MA	5+	2016	4599	57.08	100	57.08	
R	MA	5+	2016	4499	57.25	100	57.25	
R	MA	5+	2016	4399	57.41	100	57.41	
R	MA	5+	2016	4299	57.58	100	57.58	
R	MA	5+	2016	4199	57.76	100	57.76	
R	MA	5+	2016	4099	57.95	100	57.95	
R	MA	5+	2016	3999	58.15	100	58.15	
R	MA	5+	2016	3899	58.34	100	58.34	
R	MA	5+	2016	3799	58.57	100	58.57	
R	MA	5+	2016	3699	58.79	100	58.79	
R	MA	5+	2016	3599	59.07	100	59.07	
R	MA	5+	2016	3499	59.32	100	59.32	
R	MA	5+	2016	3399	59.57	100	59.57	
R	MA	5+	2016	3299	59.91	100	59.91	
R	MA	5+	2016	3199	60.2	100	60.2	
R	MA	5+	2016	3099	60.51	100	60.51	
R	MA	5+	2016	2999	60.91	100	60.91	
R	MA	5+	2016	2899	61.26	100	61.26	
R	MA	5+	2016	2799	61.69	100	61.69	
R	MA	5+	2016	2699	62.13	100	62.13	
R	MA	5+	2016	2599	62.59	100	62.59	
R	MA	5+	2016	2499	63.11	100	63.11	
R	MA	5+	2016	2399	63.67	100	63.67	
R	MA	5+	2016	2299	64.32	100	64.32	
R	MA	5+	2016	2199	64.94	100	64.94	
R	MA	5+	2016	2099	65.68	100	65.68	
R	MA	5+	2016	1999	66.53	100	66.53	
R	MA	5+	2016	1899	66.93	100	66.93	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	5+	2016	1799	68.43	100	68.43	
R	MA	5+	2016	1699	69.59	100	69.59	
R	MA	5+	2016	1599	70.87	100	70.87	
R	MA	5+	2016	1499	72.36	100	72.36	
R	MA	5+	2016	1399	74.06	100	74.06	
R	MA	5+	2016	1299	76.41	100	76.41	
R	MA	5+	2016	1199	78.39	100	78.39	
R	MA	5+	2016	1099	81.23	100	81.23	
R	MA	5+	2016	999	84.67	100	84.67	
R	MA	5+	2016	899	88.97	100	88.97	
R	MA	5+	2016	799	94.54	100	94.54	
R	MA	5+	2016	699	101.91	100	101.91	
R	MA	5+	2016	599	112.26	100	112.26	
R	MA	6-	2016	999999999	61.73	100	61.73	
R	MA	6-	2016	4999	61.73	100	61.73	
R	MA	6-	2016	4899	61.87	100	61.87	
R	MA	6-	2016	4799	62.03	100	62.03	
R	MA	6-	2016	4699	62.17	100	62.17	
R	MA	6-	2016	4599	62.33	100	62.33	
R	MA	6-	2016	4499	62.51	100	62.51	
R	MA	6-	2016	4399	62.7	100	62.7	
R	MA	6-	2016	4299	62.89	100	62.89	
R	MA	6-	2016	4199	63.06	100	63.06	
R	MA	6-	2016	4099	63.26	100	63.26	
R	MA	6-	2016	3999	63.51	100	63.51	
R	MA	6-	2016	3899	63.71	100	63.71	
R	MA	6-	2016	3799	63.97	100	63.97	
R	MA	6-	2016	3699	64.21	100	64.21	
R	MA	6-	2016	3599	64.5	100	64.5	
R	MA	6-	2016	3499	64.78	100	64.78	
R	MA	6-	2016	3399	65.06	100	65.06	
R	MA	6-	2016	3299	65.43	100	65.43	
R	MA	6-	2016	3199	65.74	100	65.74	
R	MA	6-	2016	3099	66.1	100	66.1	
R	MA	6-	2016	2999	66.52	100	66.52	
R	MA	6-	2016	2899	66.92	100	66.92	
R	MA	6-	2016	2799	67.38	100	67.38	
R	MA	6-	2016	2699	67.86	100	67.86	
R	MA	6-	2016	2599	68.36	100	68.36	
R	MA	6-	2016	2499	68.92	100	68.92	
R	MA	6-	2016	2399	69.55	100	69.55	
R	MA	6-	2016	2299	70.22	100	70.22	
R	MA	6-	2016	2199	70.94	100	70.94	
R	MA	6-	2016	2099	71.76	100	71.76	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	6-	2016	1999	72.66	100	72.66	
R	MA	6-	2016	1899	73.1	100	73.1	
R	MA	6-	2016	1799	74.72	100	74.72	
R	MA	6-	2016	1699	76	100	76	
R	MA	6-	2016	1599	77.41	100	77.41	
R	MA	6-	2016	1499	79.03	100	79.03	
R	MA	6-	2016	1399	80.89	100	80.89	
R	MA	6-	2016	1299	83.46	100	83.46	
R	MA	6-	2016	1199	85.63	100	85.63	
R	MA	6-	2016	1099	88.71	100	88.71	
R	MA	6-	2016	999	92.47	100	92.47	
R	MA	6-	2016	899	97.18	100	97.18	
R	MA	6-	2016	799	103.25	100	103.25	
R	MA	6-	2016	699	111.32	100	111.32	
R	MA	6-	2016	599	122.63	100	122.63	
R	MA	6+	2016	999999999	67.6	100	67.6	
R	MA	6+	2016	4999	67.6	100	67.6	
R	MA	6+	2016	4899	67.77	100	67.77	
R	MA	6+	2016	4799	67.93	100	67.93	
R	MA	6+	2016	4699	68.09	100	68.09	
R	MA	6+	2016	4599	68.27	100	68.27	
R	MA	6+	2016	4499	68.46	100	68.46	
R	MA	6+	2016	4399	68.67	100	68.67	
R	MA	6+	2016	4299	68.87	100	68.87	
R	MA	6+	2016	4199	69.07	100	69.07	
R	MA	6+	2016	4099	69.29	100	69.29	
R	MA	6+	2016	3999	69.56	100	69.56	
R	MA	6+	2016	3899	69.79	100	69.79	
R	MA	6+	2016	3799	70.06	100	70.06	
R	MA	6+	2016	3699	70.33	100	70.33	
R	MA	6+	2016	3599	70.64	100	70.64	
R	MA	6+	2016	3499	70.94	100	70.94	
R	MA	6+	2016	3399	71.26	100	71.26	
R	MA	6+	2016	3299	71.65	100	71.65	
R	MA	6+	2016	3199	72	100	72	
R	MA	6+	2016	3099	72.39	100	72.39	
R	MA	6+	2016	2999	72.86	100	72.86	
R	MA	6+	2016	2899	73.3	100	73.3	
R	MA	6+	2016	2799	73.8	100	73.8	
R	MA	6+	2016	2699	74.32	100	74.32	
R	MA	6+	2016	2599	74.87	100	74.87	
R	MA	6+	2016	2499	75.48	100	75.48	
R	MA	6+	2016	2399	76.17	100	76.17	
R	MA	6+	2016	2299	76.91	100	76.91	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	6+	2016	2199	77.7	100	77.7	
R	MA	6+	2016	2099	78.59	100	78.59	
R	MA	6+	2016	1999	79.58	100	79.58	
R	MA	6+	2016	1899	80.06	100	80.06	
R	MA	6+	2016	1799	81.85	100	81.85	
R	MA	6+	2016	1699	83.24	100	83.24	
R	MA	6+	2016	1599	84.78	100	84.78	
R	MA	6+	2016	1499	86.55	100	86.55	
R	MA	6+	2016	1399	88.59	100	88.59	
R	MA	6+	2016	1299	91.41	100	91.41	
R	MA	6+	2016	1199	93.79	100	93.79	
R	MA	6+	2016	1099	97.16	100	97.16	
R	MA	6+	2016	999	101.27	100	101.27	
R	MA	6+	2016	899	106.44	100	106.44	
R	MA	6+	2016	799	113.08	100	113.08	
R	MA	6+	2016	699	121.91	100	121.91	
R	MA	6+	2016	599	134.31	100	134.31	
R	MA	7-	2016	1E+12	83.17	100	83.17	
R	MA	7-	2016	4999	83.17	100	83.17	
R	MA	7-	2016	4899	83.38	100	83.38	
R	MA	7-	2016	4799	83.58	100	83.58	
R	MA	7-	2016	4699	83.77	100	83.77	
R	MA	7-	2016	4599	84.01	100	84.01	
R	MA	7-	2016	4499	84.24	100	84.24	
R	MA	7-	2016	4399	84.48	100	84.48	
R	MA	7-	2016	4299	84.72	100	84.72	
R	MA	7-	2016	4199	84.97	100	84.97	
R	MA	7-	2016	4099	85.26	100	85.26	
R	MA	7-	2016	3999	85.57	100	85.57	
R	MA	7-	2016	3899	85.85	100	85.85	
R	MA	7-	2016	3799	86.19	100	86.19	
R	MA	7-	2016	3699	86.54	100	86.54	
R	MA	7-	2016	3599	86.9	100	86.9	
R	MA	7-	2016	3499	87.3	100	87.3	
R	MA	7-	2016	3399	87.65	100	87.65	
R	MA	7-	2016	3299	88.15	100	88.15	
R	MA	7-	2016	3199	88.6	100	88.6	
R	MA	7-	2016	3099	89.08	100	89.08	
R	MA	7-	2016	2999	89.62	100	89.62	
R	MA	7-	2016	2899	90.16	100	90.16	
R	MA	7-	2016	2799	90.78	100	90.78	
R	MA	7-	2016	2699	91.45	100	91.45	
R	MA	7-	2016	2599	92.13	100	92.13	
R	MA	7-	2016	2499	92.86	100	92.86	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MA	7-	2016	2399	93.71	100	93.71	
R	MA	7-	2016	2299	94.63	100	94.63	
R	MA	7-	2016	2199	95.59	100	95.59	
R	MA	7-	2016	2099	96.69	100	96.69	
R	MA	7-	2016	1999	97.92	100	97.92	
R	MA	7-	2016	1899	98.51	100	98.51	
R	MA	7-	2016	1799	100.7	100	100.7	
R	MA	7-	2016	1699	102.42	100	102.42	
R	MA	7-	2016	1599	104.3	100	104.3	
R	MA	7-	2016	1499	106.51	100	106.51	
R	MA	7-	2016	1399	108.99	100	108.99	
R	MA	7-	2016	1299	112.46	100	112.46	
R	MA	7-	2016	1199	115.37	100	115.37	
R	MA	7-	2016	1099	119.54	100	119.54	
R	MA	7-	2016	999	124.61	100	124.61	
R	MA	7-	2016	899	130.95	100	130.95	
R	MA	7-	2016	799	139.11	100	139.11	
R	MA	7-	2016	699	149.98	100	149.98	
R	MA	7-	2016	599	165.21	100	165.21	
R	MA	7+	2016	999999999	91.09	100	91.09	
R	MA	7+	2016	4999	91.09	100	91.09	
R	MA	7+	2016	4899	91.33	100	91.33	
R	MA	7+	2016	4799	91.53	100	91.53	
R	MA	7+	2016	4699	91.74	100	91.74	
R	MA	7+	2016	4599	92.01	100	92.01	
R	MA	7+	2016	4499	92.26	100	92.26	
R	MA	7+	2016	4399	92.52	100	92.52	
R	MA	7+	2016	4299	92.78	100	92.78	
R	MA	7+	2016	4199	93.07	100	93.07	
R	MA	7+	2016	4099	93.38	100	93.38	
R	MA	7+	2016	3999	93.72	100	93.72	
R	MA	7+	2016	3899	94.02	100	94.02	
R	MA	7+	2016	3799	94.4	100	94.4	
R	MA	7+	2016	3699	94.78	100	94.78	
R	MA	7+	2016	3599	95.19	100	95.19	
R	MA	7+	2016	3499	95.61	100	95.61	
R	MA	7+	2016	3399	96.01	100	96.01	
R	MA	7+	2016	3299	96.55	100	96.55	
R	MA	7+	2016	3199	97.04	100	97.04	
R	MA	7+	2016	3099	97.56	100	97.56	
R	MA	7+	2016	2999	98.16	100	98.16	
R	MA	7+	2016	2899	98.75	100	98.75	
R	MA	7+	2016	2799	99.42	100	99.42	
R	MA	7+	2016	2699	100.16	100	100.16	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	7+	2016	2599	100.9	100	100.9	
R	MA	7+	2016	2499	101.7	100	101.7	
R	MA	7+	2016	2399	102.62	100	102.62	
R	MA	7+	2016	2299	103.63	100	103.63	
R	MA	7+	2016	2199	104.7	100	104.7	
R	MA	7+	2016	2099	105.89	100	105.89	
R	MA	7+	2016	1999	107.24	100	107.24	
R	MA	7+	2016	1899	107.89	100	107.89	
R	MA	7+	2016	1799	110.29	100	110.29	
R	MA	7+	2016	1699	112.17	100	112.17	
R	MA	7+	2016	1599	114.23	100	114.23	
R	MA	7+	2016	1499	116.65	100	116.65	
R	MA	7+	2016	1399	119.36	100	119.36	
R	MA	7+	2016	1299	123.18	100	123.18	
R	MA	7+	2016	1199	126.35	100	126.35	
R	MA	7+	2016	1099	130.93	100	130.93	
R	MA	7+	2016	999	136.48	100	136.48	
R	MA	7+	2016	899	143.42	100	143.42	
R	MA	7+	2016	799	152.36	100	152.36	
R	MA	7+	2016	699	164.26	100	164.26	
R	MA	7+	2016	599	180.94	100	180.94	
R	MA	8-	2016	1E+12	93.89	100	93.89	
R	MA	8-	2016	4999	93.89	100	93.89	
R	MA	8-	2016	4899	94.14	100	94.14	
R	MA	8-	2016	4799	94.36	100	94.36	
R	MA	8-	2016	4699	94.57	100	94.57	
R	MA	8-	2016	4599	94.85	100	94.85	
R	MA	8-	2016	4499	95.11	100	95.11	
R	MA	8-	2016	4399	95.37	100	95.37	
R	MA	8-	2016	4299	95.64	100	95.64	
R	MA	8-	2016	4199	95.93	100	95.93	
R	MA	8-	2016	4099	96.26	100	96.26	
R	MA	8-	2016	3999	96.6	100	96.6	
R	MA	8-	2016	3899	96.92	100	96.92	
R	MA	8-	2016	3799	97.3	100	97.3	
R	MA	8-	2016	3699	97.71	100	97.71	
R	MA	8-	2016	3599	98.1	100	98.1	
R	MA	8-	2016	3499	98.56	100	98.56	
R	MA	8-	2016	3399	98.95	100	98.95	
R	MA	8-	2016	3299	99.51	100	99.51	
R	MA	8-	2016	3199	100.03	100	100.03	
R	MA	8-	2016	3099	100.57	100	100.57	
R	MA	8-	2016	2999	101.17	100	101.17	
R	MA	8-	2016	2899	101.78	100	101.78	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	8-	2016	2799	102.48	100	102.48	
R	MA	8-	2016	2699	103.25	100	103.25	
R	MA	8-	2016	2599	104.02	100	104.02	
R	MA	8-	2016	2499	104.83	100	104.83	
R	MA	8-	2016	2399	105.79	100	105.79	
R	MA	8-	2016	2299	106.84	100	106.84	
R	MA	8-	2016	2199	107.92	100	107.92	
R	MA	8-	2016	2099	109.16	100	109.16	
R	MA	8-	2016	1999	110.55	100	110.55	
R	MA	8-	2016	1899	111.22	100	111.22	
R	MA	8-	2016	1799	113.69	100	113.69	
R	MA	8-	2016	1699	115.63	100	115.63	
R	MA	8-	2016	1599	117.75	100	117.75	
R	MA	8-	2016	1499	120.25	100	120.25	
R	MA	8-	2016	1399	123.04	100	123.04	
R	MA	8-	2016	1299	126.96	100	126.96	
R	MA	8-	2016	1199	130.24	100	130.24	
R	MA	8-	2016	1099	134.96	100	134.96	
R	MA	8-	2016	999	140.68	100	140.68	
R	MA	8-	2016	899	147.84	100	147.84	
R	MA	8-	2016	799	157.04	100	157.04	
R	MA	8-	2016	699	169.31	100	169.31	
R	MA	8-	2016	599	186.5	100	186.5	
R	MA	8+	2016	999999999	102.84	100	102.84	
R	MA	8+	2016	4999	102.84	100	102.84	
R	MA	8+	2016	4899	103.11	100	103.11	
R	MA	8+	2016	4799	103.33	100	103.33	
R	MA	8+	2016	4699	103.57	100	103.57	
R	MA	8+	2016	4599	103.88	100	103.88	
R	MA	8+	2016	4499	104.16	100	104.16	
R	MA	8+	2016	4399	104.45	100	104.45	
R	MA	8+	2016	4299	104.74	100	104.74	
R	MA	8+	2016	4199	105.07	100	105.07	
R	MA	8+	2016	4099	105.43	100	105.43	
R	MA	8+	2016	3999	105.8	100	105.8	
R	MA	8+	2016	3899	106.14	100	106.14	
R	MA	8+	2016	3799	106.57	100	106.57	
R	MA	8+	2016	3699	107.01	100	107.01	
R	MA	8+	2016	3599	107.47	100	107.47	
R	MA	8+	2016	3499	107.95	100	107.95	
R	MA	8+	2016	3399	108.39	100	108.39	
R	MA	8+	2016	3299	109	100	109	
R	MA	8+	2016	3199	109.56	100	109.56	
R	MA	8+	2016	3099	110.15	100	110.15	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MA	8+	2016	2999	110.81	100	110.81	
R	MA	8+	2016	2899	111.48	100	111.48	
R	MA	8+	2016	2799	112.23	100	112.23	
R	MA	8+	2016	2699	113.08	100	113.08	
R	MA	8+	2016	2599	113.92	100	113.92	
R	MA	8+	2016	2499	114.81	100	114.81	
R	MA	8+	2016	2399	115.85	100	115.85	
R	MA	8+	2016	2299	116.99	100	116.99	
R	MA	8+	2016	2199	118.2	100	118.2	
R	MA	8+	2016	2099	119.54	100	119.54	
R	MA	8+	2016	1999	121.07	100	121.07	
R	MA	8+	2016	1899	121.81	100	121.81	
R	MA	8+	2016	1799	124.51	100	124.51	
R	MA	8+	2016	1699	126.64	100	126.64	
R	MA	8+	2016	1599	128.96	100	128.96	
R	MA	8+	2016	1499	131.7	100	131.7	
R	MA	8+	2016	1399	134.75	100	134.75	
R	MA	8+	2016	1299	139.07	100	139.07	
R	MA	8+	2016	1199	142.63	100	142.63	
R	MA	8+	2016	1099	147.82	100	147.82	
R	MA	8+	2016	999	154.09	100	154.09	
R	MA	8+	2016	899	161.91	100	161.91	
R	MA	8+	2016	799	172	100	172	
R	MA	8+	2016	699	185.44	100	185.44	
R	MA	8+	2016	599	204.26	100	204.26	
R	MA20	*	2016	99999999	95	100	95	0
R	MA25	*	2016	99999999	95	100	95	0
R	MA26	*	2016	99999999	95	100	95	0
R	MA27	*	2016	99999999	100	100	100	0
R	MA3.0	*	2016	99999999	100	100	100	0
R	MA3.17	*	2016	99999999	100	100	100	0
R	MA3.20	*	2016	99999999	100	100	100	0
R	MA3.27	*	2016	99999999	100	100	100	0
R	MA4.0	*	2016	99999999	100	100	100	0
R	MA55	*	2016	99999999	100	100	100	0
R	MAF	*	2016	99999999	100	110	110	
R	MAF2	*	2016	99999999	95	100	95	0
R	MAF3	*	2016	99999999	100	35	35	0
R	MAFBL	*	2016	99999999	100	100	100	0
R	MAFL	*	2016	99999999	100	100	100	0
R	MAFO	*	2016	99999999	100	100	100	0
R	MAFO2	*	2016	99999999	95	100	95	0
R	MAFO3	*	2016	99999999	100	100	100	0
R	MAHSF	*	2016	99999999	100	100	100	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MAHSF2	*	2016	99999999	100	100	100	0
R	MAHSF3	*	2016	99999999	100	100	100	0
R	MAHSM	*	2016	99999999	100	100	100	0
R	MAHSM2	*	2016	99999999	100	100	100	0
R	MAHSM3	*	2016	99999999	100	100	100	0
R	MAM	*	2016	99999999	100	100	100	0
R	MAM2	*	2016	99999999	95	100	95	0
R	MAM3	*	2016	99999999	95	100	95	0
R	MAMB	*	2016	99999999	100	100	100	0
R	MAMB2	*	2016	99999999	95	100	95	0
R	MAML	*	2016	99999999	100	100	100	0
R	MAMO	*	2016	99999999	100	100	100	0
R	MAMO2	*	2016	99999999	95	100	95	0
R	MP	1	2016	99999999	1.9	35	0.67	
R	MP	2	2016	99999999	1.9	55	1.05	
R	MP	3	2016	99999999	1.9	78	1.48	
R	MP	4	2016	99999999	1.9	100	1.9	
R	MP	5	2016	99999999	1.9	128	2.43	
R	MP	6	2016	99999999	1.9	168	3.19	
R	MP	7	2016	99999999	1.9	230	4.37	
R	MP	8	2016	99999999	1.9	261	4.96	
R	MP	*	2016	99999999	1.9	100	1.9	
R	MP	1-	2016	99999999	1.9	30	0.57	
R	MP	1+	2016	99999999	1.9	40	0.76	
R	MP	2-	2016	99999999	1.9	47	0.89	
R	MP	2+	2016	99999999	1.9	63	1.2	
R	MP	3-	2016	99999999	1.9	70	1.33	
R	MP	3+	2016	99999999	1.9	86	1.63	
R	MP	4-	2016	99999999	1.9	92	1.75	
R	MP	4+	2016	99999999	1.9	107	2.03	
R	MP	5-	2016	99999999	1.9	117	2.22	
R	MP	5+	2016	99999999	1.9	141	2.68	
R	MP	6-	2016	99999999	1.9	152	2.89	
R	MP	6+	2016	99999999	1.9	187	3.55	
R	MP	7-	2016	99999999	1.9	204	3.88	
R	MP	7+	2016	99999999	1.9	259	4.92	
R	MP	8-	2016	99999999	1.9	230	4.37	
R	MP	8+	2016	99999999	1.9	295	5.6	
R	MPU	1	2016	99999999	1.9	35	0.67	
R	MPU	2	2016	99999999	1.9	55	1.05	
R	MPU	3	2016	99999999	1.9	78	1.48	
R	MPU	4	2016	99999999	1.9	100	1.9	
R	MPU	5	2016	99999999	1.9	128	2.43	
R	MPU	6	2016	99999999	1.9	168	3.19	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MPU	7	2016	99999999	1.9	230	4.37	
R	MPU	8	2016	99999999	1.9	261	4.96	
R	MPU	*	2016	99999999	1.9	100	1.9	
R	MPU	1-	2016	99999999	1.9	30	0.57	
R	MPU	1+	2016	99999999	1.9	40	0.76	
R	MPU	2-	2016	99999999	1.9	47	0.89	
R	MPU	2+	2016	99999999	1.9	63	1.2	
R	MPU	3-	2016	99999999	1.9	70	1.33	
R	MPU	3+	2016	99999999	1.9	86	1.63	
R	MPU	4-	2016	99999999	1.9	92	1.75	
R	MPU	4+	2016	99999999	1.9	107	2.03	
R	MPU	5-	2016	99999999	1.9	117	2.22	
R	MPU	5+	2016	99999999	1.9	141	2.68	
R	MPU	6-	2016	99999999	1.9	152	2.89	
R	MPU	6+	2016	99999999	1.9	187	3.55	
R	MPU	7-	2016	99999999	1.9	204	3.88	
R	MPU	7+	2016	99999999	1.9	259	4.92	
R	MPU	8-	2016	99999999	1.9	230	4.37	
R	MPU	8+	2016	99999999	1.9	295	5.6	
R	MS	1	2016	99999999	7.6	35	2.66	
R	MS	2	2016	99999999	7.6	55	4.18	
R	MS	3	2016	99999999	7.6	78	5.93	
R	MS	4	2016	99999999	7.6	100	7.6	
R	MS	5	2016	99999999	7.6	128	9.73	
R	MS	6	2016	99999999	7.6	168	12.77	
R	MS	7	2016	99999999	7.6	230	17.48	
R	MS	8	2016	99999999	7.6	261	19.84	
R	MS	*	2016	99999999	7.6	100	7.6	
R	MS	1-	2016	99999999	7.6	30	2.28	
R	MS	1+	2016	99999999	7.6	40	3.04	
R	MS	2-	2016	99999999	7.6	47	3.57	
R	MS	2+	2016	99999999	7.6	63	4.79	
R	MS	3-	2016	99999999	7.6	70	5.32	
R	MS	3+	2016	99999999	7.6	86	6.54	
R	MS	4-	2016	99999999	7.6	92	6.99	
R	MS	4+	2016	99999999	7.6	107	8.13	
R	MS	5-	2016	99999999	7.6	117	8.89	
R	MS	5+	2016	99999999	7.6	141	10.72	
R	MS	6-	2016	99999999	7.6	152	11.55	
R	MS	6+	2016	99999999	7.6	187	14.21	
R	MS	7-	2016	99999999	7.6	204	15.5	
R	MS	7+	2016	99999999	7.6	259	19.68	
R	MS	8-	2016	99999999	7.6	230	17.48	
R	MS	8+	2016	99999999	7.6	295	22.42	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	MU	1	2016	99999999	16.9	35	5.92	
R	MU	2	2016	99999999	16.9	55	9.3	
R	MU	3	2016	99999999	16.9	78	13.18	
R	MU	4	2016	99999999	16.9	100	16.9	
R	MU	5	2016	99999999	16.9	128	21.63	
R	MU	6	2016	99999999	16.9	168	28.39	
R	MU	7	2016	99999999	16.9	230	38.87	
R	MU	8	2016	99999999	16.9	261	44.11	
R	MU	*	2016	99999999	16.9	100	16.9	
R	MU	1-	2016	99999999	16.9	30	5.07	
R	MU	1+	2016	99999999	16.9	40	6.76	
R	MU	2-	2016	99999999	16.9	47	7.94	
R	MU	2+	2016	99999999	16.9	63	10.65	
R	MU	3-	2016	99999999	16.9	70	11.83	
R	MU	3+	2016	99999999	16.9	86	14.53	
R	MU	4-	2016	99999999	16.9	92	15.55	
R	MU	4+	2016	99999999	16.9	107	18.08	
R	MU	5-	2016	99999999	16.9	117	19.77	
R	MU	5+	2016	99999999	16.9	141	23.83	
R	MU	6-	2016	99999999	16.9	152	25.69	
R	MU	6+	2016	99999999	16.9	187	31.6	
R	MU	7-	2016	99999999	16.9	204	34.48	
R	MU	7+	2016	99999999	16.9	259	43.77	
R	MU	8-	2016	99999999	16.9	230	38.87	
R	MU	8+	2016	99999999	16.9	295	49.85	
R	MU2	1	2016	99999999	16.9	35	5.92	
R	MU2	2	2016	99999999	16.9	55	9.3	
R	MU2	3	2016	99999999	16.9	78	13.18	
R	MU2	4	2016	99999999	16.9	100	16.9	
R	MU2	5	2016	99999999	16.9	128	21.63	
R	MU2	6	2016	99999999	16.9	168	28.39	
R	MU2	7	2016	99999999	16.9	230	38.87	
R	MU2	8	2016	99999999	16.9	261	44.11	
R	MU2	*	2016	99999999	16.9	100	16.9	
R	MU2	1-	2016	99999999	16.9	30	5.07	
R	MU2	1+	2016	99999999	16.9	40	6.76	
R	MU2	2-	2016	99999999	16.9	47	7.94	
R	MU2	2+	2016	99999999	16.9	63	10.65	
R	MU2	3-	2016	99999999	16.9	70	11.83	
R	MU2	3+	2016	99999999	16.9	86	14.53	
R	MU2	4-	2016	99999999	16.9	92	15.55	
R	MU2	4+	2016	99999999	16.9	107	18.08	
R	MU2	5-	2016	99999999	16.9	117	19.77	
R	MU2	5+	2016	99999999	16.9	141	23.83	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	MU2	6-	2016	99999999	16.9	152	25.69	
R	MU2	6+	2016	99999999	16.9	187	31.6	
R	MU2	7-	2016	99999999	16.9	204	34.48	
R	MU2	7+	2016	99999999	16.9	259	43.77	
R	MU2	8-	2016	99999999	16.9	230	38.87	
R	MU2	8+	2016	99999999	16.9	295	49.85	
R	OFP	1	2016	99999999	9.3	35	3.26	
R	OFP	2	2016	99999999	9.3	55	5.12	
R	OFP	3	2016	99999999	9.3	78	7.25	
R	OFP	4	2016	99999999	9.3	100	9.3	
R	OFP	5	2016	99999999	9.3	128	11.9	
R	OFP	6	2016	99999999	9.3	168	15.62	
R	OFP	7	2016	99999999	9.3	230	21.39	
R	OFP	8	2016	99999999	9.3	261	24.27	
R	OFP	*	2016	99999999	9.3	100	9.3	
R	OFP	1-	2016	99999999	9.3	30	2.79	
R	OFP	1+	2016	99999999	9.3	40	3.72	
R	OFP	2-	2016	99999999	9.3	47	4.37	
R	OFP	2+	2016	99999999	9.3	63	5.86	
R	OFP	3-	2016	99999999	9.3	70	6.51	
R	OFP	3+	2016	99999999	9.3	86	8	
R	OFP	4-	2016	99999999	9.3	92	8.56	
R	OFP	4+	2016	99999999	9.3	107	9.95	
R	OFP	5-	2016	99999999	9.3	117	10.88	
R	OFP	5+	2016	99999999	9.3	141	13.11	
R	OFP	6-	2016	99999999	9.3	152	14.14	
R	OFP	6+	2016	99999999	9.3	187	17.39	
R	OFP	7-	2016	99999999	9.3	204	18.97	
R	OFP	7+	2016	99999999	9.3	259	24.09	
R	OFP	8-	2016	99999999	9.3	230	21.39	
R	OFP	8+	2016	99999999	9.3	295	27.44	
R	OFP2	1	2016	99999999	8.8	35	3.08	
R	OFP2	2	2016	99999999	8.8	55	4.84	
R	OFP2	3	2016	99999999	8.8	78	6.86	
R	OFP2	4	2016	99999999	8.8	100	8.8	
R	OFP2	5	2016	99999999	8.8	128	11.26	
R	OFP2	6	2016	99999999	8.8	168	14.78	
R	OFP2	7	2016	99999999	8.8	230	20.24	
R	OFP2	8	2016	99999999	8.8	261	22.97	
R	OFP2	*	2016	99999999	8.8	100	8.8	
R	OFP2	1-	2016	99999999	8.8	30	2.64	
R	OFP2	1+	2016	99999999	8.8	40	3.52	
R	OFP2	2-	2016	99999999	8.8	47	4.14	
R	OFP2	2+	2016	99999999	8.8	63	5.54	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	OFP2	3-	2016	99999999	8.8	70	6.16	
R	OFP2	3+	2016	99999999	8.8	86	7.57	
R	OFP2	4-	2016	99999999	8.8	92	8.1	
R	OFP2	4+	2016	99999999	8.8	107	9.42	
R	OFP2	5-	2016	99999999	8.8	117	10.3	
R	OFP2	5+	2016	99999999	8.8	141	12.41	
R	OFP2	6-	2016	99999999	8.8	152	13.38	
R	OFP2	6+	2016	99999999	8.8	187	16.46	
R	OFP2	7-	2016	99999999	8.8	204	17.95	
R	OFP2	7+	2016	99999999	8.8	259	22.79	
R	OFP2	8-	2016	99999999	8.8	230	20.24	
R	OFP2	8+	2016	99999999	8.8	295	25.96	
R	OFP3	1	2016	99999999	8.8	35	3.08	
R	OFP3	2	2016	99999999	8.8	55	4.84	
R	OFP3	3	2016	99999999	8.8	78	6.86	
R	OFP3	4	2016	99999999	8.8	100	8.8	
R	OFP3	5	2016	99999999	8.8	128	11.26	
R	OFP3	6	2016	99999999	8.8	168	14.78	
R	OFP3	7	2016	99999999	8.8	230	20.24	
R	OFP3	8	2016	99999999	8.8	261	22.97	
R	OFP3	*	2016	99999999	8.8	100	8.8	
R	OFP3	1-	2016	99999999	8.8	30	2.64	
R	OFP3	1+	2016	99999999	8.8	40	3.52	
R	OFP3	2-	2016	99999999	8.8	47	4.14	
R	OFP3	2+	2016	99999999	8.8	63	5.54	
R	OFP3	3-	2016	99999999	8.8	70	6.16	
R	OFP3	3+	2016	99999999	8.8	86	7.57	
R	OFP3	4-	2016	99999999	8.8	92	8.1	
R	OFP3	4+	2016	99999999	8.8	107	9.42	
R	OFP3	5-	2016	99999999	8.8	117	10.3	
R	OFP3	5+	2016	99999999	8.8	141	12.41	
R	OFP3	6-	2016	99999999	8.8	152	13.38	
R	OFP3	6+	2016	99999999	8.8	187	16.46	
R	OFP3	7-	2016	99999999	8.8	204	17.95	
R	OFP3	7+	2016	99999999	8.8	259	22.79	
R	OFP3	8-	2016	99999999	8.8	230	20.24	
R	OFP3	8+	2016	99999999	8.8	295	25.96	
R	OFPL	1	2016	99999999	9.3	35	3.26	
R	OFPL	2	2016	99999999	9.3	55	5.12	
R	OFPL	3	2016	99999999	9.3	78	7.25	
R	OFPL	4	2016	99999999	9.3	100	9.3	
R	OFPL	5	2016	99999999	9.3	128	11.9	
R	OFPL	6	2016	99999999	9.3	168	15.62	
R	OFPL	7	2016	99999999	9.3	230	21.39	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	OFPL	8	2016	99999999	9.3	261	24.27	
R	OFPL	*	2016	99999999	9.3	100	9.3	
R	OFPL	1-	2016	99999999	9.3	30	2.79	
R	OFPL	1+	2016	99999999	9.3	40	3.72	
R	OFPL	2-	2016	99999999	9.3	47	4.37	
R	OFPL	2+	2016	99999999	9.3	63	5.86	
R	OFPL	3-	2016	99999999	9.3	70	6.51	
R	OFPL	3+	2016	99999999	9.3	86	8	
R	OFPL	4-	2016	99999999	9.3	92	8.56	
R	OFPL	4+	2016	99999999	9.3	107	9.95	
R	OFPL	5-	2016	99999999	9.3	117	10.88	
R	OFPL	5+	2016	99999999	9.3	141	13.11	
R	OFPL	6-	2016	99999999	9.3	152	14.14	
R	OFPL	6+	2016	99999999	9.3	187	17.39	
R	OFPL	7-	2016	99999999	9.3	204	18.97	
R	OFPL	7+	2016	99999999	9.3	259	24.09	
R	OFPL	8-	2016	99999999	9.3	230	21.39	
R	OFPL	8+	2016	99999999	9.3	295	27.43	
R	OFPU	1	2016	99999999	8.8	35	3.08	
R	OFPU	2	2016	99999999	8.8	55	4.84	
R	OFPU	3	2016	99999999	8.8	78	6.86	
R	OFPU	4	2016	99999999	8.8	100	8.8	
R	OFPU	5	2016	99999999	8.8	128	11.26	
R	OFPU	6	2016	99999999	8.8	168	14.78	
R	OFPU	7	2016	99999999	8.8	230	20.24	
R	OFPU	8	2016	99999999	8.8	261	22.97	
R	OFPU	*	2016	99999999	8.8	100	8.8	
R	OFPU	1-	2016	99999999	8.8	30	2.64	
R	OFPU	1+	2016	99999999	8.8	40	3.52	
R	OFPU	2-	2016	99999999	8.8	47	4.14	
R	OFPU	2+	2016	99999999	8.8	63	5.54	
R	OFPU	3-	2016	99999999	8.8	70	6.16	
R	OFPU	3+	2016	99999999	8.8	86	7.57	
R	OFPU	4-	2016	99999999	8.8	92	8.1	
R	OFPU	4+	2016	99999999	8.8	107	9.42	
R	OFPU	5-	2016	99999999	8.8	117	10.3	
R	OFPU	5+	2016	99999999	8.8	141	12.41	
R	OFPU	6-	2016	99999999	8.8	152	13.38	
R	OFPU	6+	2016	99999999	8.8	187	16.46	
R	OFPU	7-	2016	99999999	8.8	204	17.95	
R	OFPU	7+	2016	99999999	8.8	259	22.79	
R	OFPU	8-	2016	99999999	8.8	230	20.24	
R	OFPU	8+	2016	99999999	8.8	295	25.96	
R	OMP	1	2016	99999999	10.15	35	3.55	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	OMP	2	2016	99999999	10.15	55	5.58	
R	OMP	3	2016	99999999	10.15	78	7.92	
R	OMP	4	2016	99999999	10.15	100	10.15	
R	OMP	5	2016	99999999	10.15	128	12.99	
R	OMP	6	2016	99999999	10.15	168	17.05	
R	OMP	7	2016	99999999	10.15	230	23.35	
R	OMP	8	2016	99999999	10.15	261	26.49	
R	OMP	*	2016	99999999	10.15	100	10.15	
R	OMP	1-	2016	99999999	10.15	30	3.05	
R	OMP	1+	2016	99999999	10.15	40	4.06	
R	OMP	2-	2016	99999999	10.15	47	4.77	
R	OMP	2+	2016	99999999	10.15	63	6.39	
R	OMP	3-	2016	99999999	10.15	70	7.11	
R	OMP	3+	2016	99999999	10.15	86	8.73	
R	OMP	4-	2016	99999999	10.15	92	9.34	
R	OMP	4+	2016	99999999	10.15	107	10.86	
R	OMP	5-	2016	99999999	10.15	117	11.88	
R	OMP	5+	2016	99999999	10.15	141	14.31	
R	OMP	6-	2016	99999999	10.15	152	15.43	
R	OMP	6+	2016	99999999	10.15	187	18.98	
R	OMP	7-	2016	99999999	10.15	204	20.71	
R	OMP	7+	2016	99999999	10.15	259	26.29	
R	OMP	8-	2016	99999999	10.15	230	23.34	
R	OMP	8+	2016	99999999	10.15	295	29.94	
R	OMP2	1	2016	99999999	9.65	35	3.38	
R	OMP2	2	2016	99999999	9.65	55	5.31	
R	OMP2	3	2016	99999999	9.65	78	7.53	
R	OMP2	4	2016	99999999	9.65	100	9.65	
R	OMP2	5	2016	99999999	9.65	128	12.35	
R	OMP2	6	2016	99999999	9.65	168	16.21	
R	OMP2	7	2016	99999999	9.65	230	22.2	
R	OMP2	8	2016	99999999	9.65	261	25.19	
R	OMP2	*	2016	99999999	9.65	100	9.65	
R	OMP2	1-	2016	99999999	9.65	30	2.9	
R	OMP2	1+	2016	99999999	9.65	40	3.86	
R	OMP2	2-	2016	99999999	9.65	47	4.54	
R	OMP2	2+	2016	99999999	9.65	63	6.08	
R	OMP2	3-	2016	99999999	9.65	70	6.76	
R	OMP2	3+	2016	99999999	9.65	86	8.3	
R	OMP2	4-	2016	99999999	9.65	92	8.88	
R	OMP2	4+	2016	99999999	9.65	107	10.33	
R	OMP2	5-	2016	99999999	9.65	117	11.29	
R	OMP2	5+	2016	99999999	9.65	141	13.61	
R	OMP2	6-	2016	99999999	9.65	152	14.67	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	OMP2	6+	2016	99999999	9.65	187	18.05	
R	OMP2	7-	2016	99999999	9.65	204	19.69	
R	OMP2	7+	2016	99999999	9.65	259	24.99	
R	OMP2	8-	2016	99999999	9.65	230	22.2	
R	OMP2	8+	2016	99999999	9.65	295	28.47	
R	OMP3	1	2016	99999999	9.65	35	3.38	
R	OMP3	2	2016	99999999	9.65	55	5.31	
R	OMP3	3	2016	99999999	9.65	78	7.53	
R	OMP3	4	2016	99999999	9.65	100	9.65	
R	OMP3	5	2016	99999999	9.65	128	12.35	
R	OMP3	6	2016	99999999	9.65	168	16.21	
R	OMP3	7	2016	99999999	9.65	230	22.2	
R	OMP3	8	2016	99999999	9.65	261	25.19	
R	OMP3	*	2016	99999999	9.65	100	9.65	
R	OMP3	1-	2016	99999999	9.65	30	2.9	
R	OMP3	1+	2016	99999999	9.65	40	3.86	
R	OMP3	2-	2016	99999999	9.65	47	4.54	
R	OMP3	2+	2016	99999999	9.65	63	6.08	
R	OMP3	3-	2016	99999999	9.65	70	6.76	
R	OMP3	3+	2016	99999999	9.65	86	8.3	
R	OMP3	4-	2016	99999999	9.65	92	8.88	
R	OMP3	4+	2016	99999999	9.65	107	10.33	
R	OMP3	5-	2016	99999999	9.65	117	11.29	
R	OMP3	5+	2016	99999999	9.65	141	13.61	
R	OMP3	6-	2016	99999999	9.65	152	14.67	
R	OMP3	6+	2016	99999999	9.65	187	18.05	
R	OMP3	7-	2016	99999999	9.65	204	19.69	
R	OMP3	7+	2016	99999999	9.65	259	24.99	
R	OMP3	8-	2016	99999999	9.65	230	22.2	
R	OMP3	8+	2016	99999999	9.65	295	28.47	
R	OMPL	1	2016	99999999	10.15	35	3.55	
R	OMPL	2	2016	99999999	10.15	55	5.58	
R	OMPL	3	2016	99999999	10.15	78	7.92	
R	OMPL	4	2016	99999999	10.15	100	10.15	
R	OMPL	5	2016	99999999	10.15	128	12.99	
R	OMPL	6	2016	99999999	10.15	168	17.05	
R	OMPL	7	2016	99999999	10.15	230	23.35	
R	OMPL	8	2016	99999999	10.15	261	26.49	
R	OMPL	*	2016	99999999	10.15	100	10.15	
R	OMPL	1-	2016	99999999	10.15	30	3.05	
R	OMPL	1+	2016	99999999	10.15	40	4.06	
R	OMPL	2-	2016	99999999	10.15	47	4.77	
R	OMPL	2+	2016	99999999	10.15	63	6.39	
R	OMPL	3-	2016	99999999	10.15	70	7.11	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	OMPL	3+	2016	99999999	10.15	86	8.73	
R	OMPL	4-	2016	99999999	10.15	92	9.34	
R	OMPL	4+	2016	99999999	10.15	107	10.86	
R	OMPL	5-	2016	99999999	10.15	117	11.88	
R	OMPL	5+	2016	99999999	10.15	141	14.31	
R	OMPL	6-	2016	99999999	10.15	152	15.43	
R	OMPL	6+	2016	99999999	10.15	187	18.98	
R	OMPL	7-	2016	99999999	10.15	204	20.71	
R	OMPL	7+	2016	99999999	10.15	259	26.29	
R	OMPL	8-	2016	99999999	10.15	230	23.34	
R	OMPL	8+	2016	99999999	10.15	295	29.94	
R	OMPU	1	2016	99999999	9.65	35	3.38	
R	OMPU	2	2016	99999999	9.65	55	5.31	
R	OMPU	3	2016	99999999	9.65	78	7.53	
R	OMPU	4	2016	99999999	9.65	100	9.65	
R	OMPU	5	2016	99999999	9.65	128	12.35	
R	OMPU	6	2016	99999999	9.65	168	16.21	
R	OMPU	7	2016	99999999	9.65	230	22.2	
R	OMPU	8	2016	99999999	9.65	261	25.19	
R	OMPU	*	2016	99999999	9.65	100	9.65	
R	OMPU	1-	2016	99999999	9.65	30	2.9	
R	OMPU	1+	2016	99999999	9.65	40	3.86	
R	OMPU	2-	2016	99999999	9.65	47	4.54	
R	OMPU	2+	2016	99999999	9.65	63	6.08	
R	OMPU	3-	2016	99999999	9.65	70	6.76	
R	OMPU	3+	2016	99999999	9.65	86	8.3	
R	OMPU	4-	2016	99999999	9.65	92	8.88	
R	OMPU	4+	2016	99999999	9.65	107	10.33	
R	OMPU	5-	2016	99999999	9.65	117	11.29	
R	OMPU	5+	2016	99999999	9.65	141	13.61	
R	OMPU	6-	2016	99999999	9.65	152	14.67	
R	OMPU	6+	2016	99999999	9.65	187	18.05	
R	OMPU	7-	2016	99999999	9.65	204	19.69	
R	OMPU	7+	2016	99999999	9.65	259	24.99	
R	OMPU	8-	2016	99999999	9.65	230	22.2	
R	OMPU	8+	2016	99999999	9.65	295	28.47	
R	PC	1	2016	99999999	7.5	35	2.63	
R	PC	2	2016	99999999	7.5	55	4.13	
R	PC	3	2016	99999999	7.5	78	5.85	
R	PC	4	2016	99999999	7.5	100	7.5	
R	PC	5	2016	99999999	7.5	128	9.6	
R	PC	6	2016	99999999	7.5	168	12.6	
R	PC	7	2016	99999999	7.5	230	17.25	
R	PC	8	2016	99999999	7.5	261	19.57	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	PC	*	2016	99999999	7.5	100	7.5	
R	PC	1-	2016	99999999	7.5	30	2.25	
R	PC	1+	2016	99999999	7.5	40	3	
R	PC	2-	2016	99999999	7.5	47	3.52	
R	PC	2+	2016	99999999	7.5	63	4.72	
R	PC	3-	2016	99999999	7.5	70	5.25	
R	PC	3+	2016	99999999	7.5	86	6.45	
R	PC	4-	2016	99999999	7.5	92	6.9	
R	PC	4+	2016	99999999	7.5	107	8.03	
R	PC	5-	2016	99999999	7.5	117	8.78	
R	PC	5+	2016	99999999	7.5	141	10.57	
R	PC	6-	2016	99999999	7.5	152	11.4	
R	PC	6+	2016	99999999	7.5	187	14.03	
R	PC	7-	2016	99999999	7.5	204	15.3	
R	PC	7+	2016	99999999	7.5	259	19.43	
R	PC	8-	2016	99999999	7.5	230	17.25	
R	PC	8+	2016	99999999	7.5	295	22.13	
R	RB1	1	2016	99999999	5.9	80	4.72	
R	RB1	2	2016	99999999	5.9	80	4.72	
R	RB1	3	2016	99999999	5.9	80	4.72	
R	RB1	4	2016	99999999	5.9	100	5.9	
R	RB1	5	2016	99999999	5.9	120	7.08	
R	RB1	6	2016	99999999	5.9	120	7.08	
R	RB1	7	2016	99999999	5.9	120	7.08	
R	RB1	8	2016	99999999	5.9	120	7.08	
R	RB1	*	2016	99999999	5.9	100	5.9	
R	RB2	1	2016	99999999	7.8	80	6.24	
R	RB2	2	2016	99999999	7.8	80	6.24	
R	RB2	3	2016	99999999	7.8	80	6.24	
R	RB2	4	2016	99999999	7.8	100	7.8	
R	RB2	5	2016	99999999	7.8	120	9.36	
R	RB2	6	2016	99999999	7.8	120	9.36	
R	RB2	7	2016	99999999	7.8	120	9.36	
R	RB2	8	2016	99999999	7.8	120	9.36	
R	RB2	*	2016	99999999	7.8	100	7.8	
R	RC1	1	2016	99999999	5.7	50	2.85	
R	RC1	2	2016	99999999	5.7	50	2.85	
R	RC1	3	2016	99999999	5.7	74	4.22	
R	RC1	4	2016	99999999	5.7	100	5.7	
R	RC1	5	2016	99999999	5.7	130	7.41	
R	RC1	6	2016	99999999	5.7	171	9.75	
R	RC1	7	2016	99999999	5.7	171	9.75	
R	RC1	8	2016	99999999	5.7	171	9.75	
R	RC1	*	2016	99999999	5.7	100	5.7	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RC2	1	2016	99999999	4.18	50	2.09	
R	RC2	2	2016	99999999	4.18	50	2.09	
R	RC2	3	2016	99999999	4.18	74	3.09	
R	RC2	4	2016	99999999	4.18	100	4.18	
R	RC2	5	2016	99999999	4.18	130	5.43	
R	RC2	6	2016	99999999	4.18	171	7.15	
R	RC2	7	2016	99999999	4.18	171	7.15	
R	RC2	8	2016	99999999	4.18	171	7.15	
R	RC2	*	2016	99999999	4.18	100	4.18	
R	RD1	1	2016	99999999	10.45	80	8.36	
R	RD1	2	2016	99999999	10.45	80	8.36	
R	RD1	3	2016	99999999	10.45	80	8.36	
R	RD1	4	2016	99999999	10.45	100	10.45	
R	RD1	5	2016	99999999	10.45	120	12.54	
R	RD1	6	2016	99999999	10.45	120	12.54	
R	RD1	7	2016	99999999	10.45	120	12.54	
R	RD1	8	2016	99999999	10.45	120	12.54	
R	RD1	*	2016	99999999	10.45	100	10.45	
R	RD2	1	2016	99999999	15.68	80	12.54	
R	RD2	2	2016	99999999	15.68	80	12.54	
R	RD2	3	2016	99999999	15.68	80	12.54	
R	RD2	4	2016	99999999	15.68	100	15.68	
R	RD2	5	2016	99999999	15.68	120	18.82	
R	RD2	6	2016	99999999	15.68	120	18.82	
R	RD2	7	2016	99999999	15.68	120	18.82	
R	RD2	8	2016	99999999	15.68	120	18.82	
R	RD2	*	2016	99999999	15.68	100	15.68	
R	RD3	1	2016	99999999	26.12	80	20.9	
R	RD3	2	2016	99999999	26.12	80	20.9	
R	RD3	3	2016	99999999	26.12	80	20.9	
R	RD3	4	2016	99999999	26.12	100	26.12	
R	RD3	5	2016	99999999	26.12	120	31.34	
R	RD3	6	2016	99999999	26.12	120	31.34	
R	RD3	7	2016	99999999	26.12	120	31.34	
R	RD3	8	2016	99999999	26.12	120	31.34	
R	RD3	*	2016	99999999	26.12	100	26.12	
R	RG1	1	2016	99999999	10.85	50	5.43	
R	RG1	2	2016	99999999	10.85	50	5.43	
R	RG1	3	2016	99999999	10.85	74	8.03	
R	RG1	4	2016	99999999	10.85	100	10.85	
R	RG1	5	2016	99999999	10.85	130	14.11	
R	RG1	6	2016	99999999	10.85	171	18.55	
R	RG1	7	2016	99999999	10.85	171	18.55	
R	RG1	8	2016	99999999	10.85	171	18.55	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RG1	*	2016	99999999	10.85	100	10.85	
R	RG2	1	2016	99999999	16.64	50	8.32	
R	RG2	2	2016	99999999	16.64	50	8.32	
R	RG2	3	2016	99999999	16.64	74	12.31	
R	RG2	4	2016	99999999	16.64	100	16.64	
R	RG2	5	2016	99999999	16.64	130	21.63	
R	RG2	6	2016	99999999	16.64	171	28.45	
R	RG2	7	2016	99999999	16.64	171	28.45	
R	RG2	8	2016	99999999	16.64	171	28.45	
R	RG2	*	2016	99999999	16.64	100	16.64	
R	RP1	1	2016	99999999	7.01	80	5.61	0
R	RP1	1	2016	5000	7.01	80	5.61	0.00003
R	RP1	1	2016	4000	7.05	80	5.64	0.00003
R	RP1	1	2016	3000	7.09	80	5.67	0.00003
R	RP1	1	2016	2000	7.13	80	5.7	0.0004
R	RP1	1	2016	1900	7.17	80	5.74	0.0003
R	RP1	1	2016	1800	7.21	80	5.77	0.0003
R	RP1	1	2016	1700	7.25	80	5.8	0.0003
R	RP1	1	2016	1600	7.29	80	5.83	0.0003
R	RP1	1	2016	1500	7.33	80	5.86	0.0004
R	RP1	1	2016	1400	7.37	80	5.9	0.002
R	RP1	1	2016	1380	7.42	80	5.94	0.002
R	RP1	1	2016	1360	7.47	80	5.98	0.002
R	RP1	1	2016	1340	7.52	80	6.02	0.002
R	RP1	1	2016	1320	7.57	80	6.06	0.002
R	RP1	1	2016	1300	7.62	80	6.1	0.002
R	RP1	1	2016	1280	7.67	80	6.14	0.002
R	RP1	1	2016	1260	7.72	80	6.18	0.002
R	RP1	1	2016	1240	7.78	80	6.22	0.0025
R	RP1	1	2016	1220	7.84	80	6.27	0.0025
R	RP1	1	2016	1200	7.9	80	6.32	0.0025
R	RP1	1	2016	1180	7.96	80	6.37	0.0025
R	RP1	1	2016	1160	8.02	80	6.42	0.002
R	RP1	1	2016	1140	8.08	80	6.46	0.0025
R	RP1	1	2016	1120	8.14	80	6.51	0.0025
R	RP1	1	2016	1100	8.2	80	6.56	0.0025
R	RP1	1	2016	1080	8.26	80	6.61	0.0025
R	RP1	1	2016	1060	8.33	80	6.66	0.003
R	RP1	1	2016	1040	8.4	80	6.72	0.003
R	RP1	1	2016	1020	8.47	80	6.78	0.0025
R	RP1	1	2016	1000	8.54	80	6.83	0.003
R	RP1	1	2016	980	8.61	80	6.89	0.0025
R	RP1	1	2016	960	8.68	80	6.94	0.003
R	RP1	1	2016	940	8.75	80	7	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	1	2016	920	8.83	80	7.06	0.0035
R	RP1	1	2016	900	8.91	80	7.13	0.003
R	RP1	1	2016	880	8.99	80	7.19	0.0035
R	RP1	1	2016	860	9.07	80	7.26	0.003
R	RP1	1	2016	840	9.15	80	7.32	0.003
R	RP1	1	2016	820	9.23	80	7.38	0.0035
R	RP1	1	2016	800	9.31	80	7.45	0.004
R	RP1	1	2016	780	9.41	80	7.53	0.004
R	RP1	1	2016	760	9.51	80	7.61	0.004
R	RP1	1	2016	740	9.61	80	7.69	0.004
R	RP1	1	2016	720	9.71	80	7.77	0.004
R	RP1	1	2016	700	9.81	80	7.85	0.004
R	RP1	1	2016	680	9.91	80	7.93	0.0045
R	RP1	1	2016	660	10.02	80	8.02	0.0055
R	RP1	1	2016	640	10.16	80	8.13	0.0055
R	RP1	1	2016	620	10.3	80	8.24	0.0055
R	RP1	1	2016	600	10.44	80	8.35	0.006
R	RP1	1	2016	580	10.59	80	8.47	0.0055
R	RP1	1	2016	560	10.73	80	8.58	0.006
R	RP1	1	2016	540	10.87	80	8.7	0.006
R	RP1	1	2016	520	11.02	80	8.82	0.011
R	RP1	1	2016	500	11.3	80	9.04	0.011
R	RP1	1	2016	480	11.58	80	9.26	0.012
R	RP1	1	2016	460	11.87	80	9.5	0.011
R	RP1	1	2016	440	12.15	80	9.72	0.0115
R	RP1	1	2016	420	12.44	80	9.95	0.0115
R	RP1	1	2016	400	12.72	80	10.18	0.011
R	RP1	1	2016	380	13	80	10.4	0.0115
R	RP1	1	2016	360	13.29	80	10.63	0.0115
R	RP1	1	2016	340	13.58	80	10.86	0.0115
R	RP1	1	2016	320	13.86	80	11.09	0.011
R	RP1	1	2016	300	14.14	80	11.31	0.0115
R	RP1	1	2016	280	14.42	80	11.54	0.0115
R	RP1	1	2016	260	14.71	80	11.77	0.014
R	RP1	1	2016	240	15.06	80	12.05	0.014
R	RP1	1	2016	220	15.41	80	12.33	0.014
R	RP1	1	2016	200	15.76	80	12.61	0.02
R	RP1	1	2016	180	16.26	80	13.01	0.02
R	RP1	1	2016	160	16.76	80	13.41	0.02
R	RP1	1	2016	140	17.26	80	13.81	0.02
R	RP1	1	2016	120	17.76	80	14.21	0.06
R	RP1	1	2016	100	19.26	80	15.41	0
R	RP1	2	2016	9999999	7.01	80	5.61	0
R	RP1	2	2016	5000	7.01	80	5.61	0.00003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	2	2016	4000	7.05	80	5.64	0.00003
R	RP1	2	2016	3000	7.09	80	5.67	0.00003
R	RP1	2	2016	2000	7.13	80	5.7	0.0004
R	RP1	2	2016	1900	7.17	80	5.74	0.0003
R	RP1	2	2016	1800	7.21	80	5.77	0.0003
R	RP1	2	2016	1700	7.25	80	5.8	0.0003
R	RP1	2	2016	1600	7.29	80	5.83	0.0003
R	RP1	2	2016	1500	7.33	80	5.86	0.0004
R	RP1	2	2016	1400	7.37	80	5.9	0.002
R	RP1	2	2016	1380	7.42	80	5.94	0.002
R	RP1	2	2016	1360	7.47	80	5.98	0.002
R	RP1	2	2016	1340	7.52	80	6.02	0.002
R	RP1	2	2016	1320	7.57	80	6.06	0.002
R	RP1	2	2016	1300	7.62	80	6.1	0.002
R	RP1	2	2016	1280	7.67	80	6.14	0.002
R	RP1	2	2016	1260	7.72	80	6.18	0.002
R	RP1	2	2016	1240	7.78	80	6.22	0.0025
R	RP1	2	2016	1220	7.84	80	6.27	0.0025
R	RP1	2	2016	1200	7.9	80	6.32	0.0025
R	RP1	2	2016	1180	7.96	80	6.37	0.0025
R	RP1	2	2016	1160	8.02	80	6.42	0.002
R	RP1	2	2016	1140	8.08	80	6.46	0.0025
R	RP1	2	2016	1120	8.14	80	6.51	0.0025
R	RP1	2	2016	1100	8.2	80	6.56	0.0025
R	RP1	2	2016	1080	8.26	80	6.61	0.0025
R	RP1	2	2016	1060	8.33	80	6.66	0.003
R	RP1	2	2016	1040	8.4	80	6.72	0.003
R	RP1	2	2016	1020	8.47	80	6.78	0.0025
R	RP1	2	2016	1000	8.54	80	6.83	0.003
R	RP1	2	2016	980	8.61	80	6.89	0.0025
R	RP1	2	2016	960	8.68	80	6.94	0.003
R	RP1	2	2016	940	8.75	80	7	0.003
R	RP1	2	2016	920	8.83	80	7.06	0.0035
R	RP1	2	2016	900	8.91	80	7.13	0.003
R	RP1	2	2016	880	8.99	80	7.19	0.0035
R	RP1	2	2016	860	9.07	80	7.26	0.003
R	RP1	2	2016	840	9.15	80	7.32	0.003
R	RP1	2	2016	820	9.23	80	7.38	0.0035
R	RP1	2	2016	800	9.31	80	7.45	0.004
R	RP1	2	2016	780	9.41	80	7.53	0.004
R	RP1	2	2016	760	9.51	80	7.61	0.004
R	RP1	2	2016	740	9.61	80	7.69	0.004
R	RP1	2	2016	720	9.71	80	7.77	0.004
R	RP1	2	2016	700	9.81	80	7.85	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	2	2016	680	9.91	80	7.93	0.0045
R	RP1	2	2016	660	10.02	80	8.02	0.0055
R	RP1	2	2016	640	10.16	80	8.13	0.0055
R	RP1	2	2016	620	10.3	80	8.24	0.0055
R	RP1	2	2016	600	10.44	80	8.35	0.006
R	RP1	2	2016	580	10.59	80	8.47	0.0055
R	RP1	2	2016	560	10.73	80	8.58	0.006
R	RP1	2	2016	540	10.87	80	8.7	0.006
R	RP1	2	2016	520	11.02	80	8.82	0.011
R	RP1	2	2016	500	11.3	80	9.04	0.011
R	RP1	2	2016	480	11.58	80	9.26	0.012
R	RP1	2	2016	460	11.87	80	9.5	0.011
R	RP1	2	2016	440	12.15	80	9.72	0.0115
R	RP1	2	2016	420	12.44	80	9.95	0.0115
R	RP1	2	2016	400	12.72	80	10.18	0.011
R	RP1	2	2016	380	13	80	10.4	0.0115
R	RP1	2	2016	360	13.29	80	10.63	0.0115
R	RP1	2	2016	340	13.58	80	10.86	0.0115
R	RP1	2	2016	320	13.86	80	11.09	0.011
R	RP1	2	2016	300	14.14	80	11.31	0.0115
R	RP1	2	2016	280	14.42	80	11.54	0.0115
R	RP1	2	2016	260	14.71	80	11.77	0.014
R	RP1	2	2016	240	15.06	80	12.05	0.014
R	RP1	2	2016	220	15.41	80	12.33	0.014
R	RP1	2	2016	200	15.76	80	12.61	0.02
R	RP1	2	2016	180	16.26	80	13.01	0.02
R	RP1	2	2016	160	16.76	80	13.41	0.02
R	RP1	2	2016	140	17.26	80	13.81	0.02
R	RP1	2	2016	120	17.76	80	14.21	0.06
R	RP1	2	2016	100	19.26	80	15.41	0
R	RP1	3	2016	99999999	7.01	80	5.61	0
R	RP1	3	2016	5000	7.01	80	5.61	0.00003
R	RP1	3	2016	4000	7.05	80	5.64	0.00003
R	RP1	3	2016	3000	7.09	80	5.67	0.00003
R	RP1	3	2016	2000	7.13	80	5.7	0.0004
R	RP1	3	2016	1900	7.17	80	5.74	0.0003
R	RP1	3	2016	1800	7.21	80	5.77	0.0003
R	RP1	3	2016	1700	7.25	80	5.8	0.0003
R	RP1	3	2016	1600	7.29	80	5.83	0.0003
R	RP1	3	2016	1500	7.33	80	5.86	0.0004
R	RP1	3	2016	1400	7.37	80	5.9	0.002
R	RP1	3	2016	1380	7.42	80	5.94	0.002
R	RP1	3	2016	1360	7.47	80	5.98	0.002
R	RP1	3	2016	1340	7.52	80	6.02	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3	2016	1320	7.57	80	6.06	0.002
R	RP1	3	2016	1300	7.62	80	6.1	0.002
R	RP1	3	2016	1280	7.67	80	6.14	0.002
R	RP1	3	2016	1260	7.72	80	6.18	0.002
R	RP1	3	2016	1240	7.78	80	6.22	0.0025
R	RP1	3	2016	1220	7.84	80	6.27	0.0025
R	RP1	3	2016	1200	7.9	80	6.32	0.0025
R	RP1	3	2016	1180	7.96	80	6.37	0.0025
R	RP1	3	2016	1160	8.02	80	6.42	0.002
R	RP1	3	2016	1140	8.08	80	6.46	0.0025
R	RP1	3	2016	1120	8.14	80	6.51	0.0025
R	RP1	3	2016	1100	8.2	80	6.56	0.0025
R	RP1	3	2016	1080	8.26	80	6.61	0.0025
R	RP1	3	2016	1060	8.33	80	6.66	0.003
R	RP1	3	2016	1040	8.4	80	6.72	0.003
R	RP1	3	2016	1020	8.47	80	6.78	0.0025
R	RP1	3	2016	1000	8.54	80	6.83	0.003
R	RP1	3	2016	980	8.61	80	6.89	0.0025
R	RP1	3	2016	960	8.68	80	6.94	0.003
R	RP1	3	2016	940	8.75	80	7	0.003
R	RP1	3	2016	920	8.83	80	7.06	0.0035
R	RP1	3	2016	900	8.91	80	7.13	0.003
R	RP1	3	2016	880	8.99	80	7.19	0.0035
R	RP1	3	2016	860	9.07	80	7.26	0.003
R	RP1	3	2016	840	9.15	80	7.32	0.003
R	RP1	3	2016	820	9.23	80	7.38	0.0035
R	RP1	3	2016	800	9.31	80	7.45	0.004
R	RP1	3	2016	780	9.41	80	7.53	0.004
R	RP1	3	2016	760	9.51	80	7.61	0.004
R	RP1	3	2016	740	9.61	80	7.69	0.004
R	RP1	3	2016	720	9.71	80	7.77	0.004
R	RP1	3	2016	700	9.81	80	7.85	0.004
R	RP1	3	2016	680	9.91	80	7.93	0.0045
R	RP1	3	2016	660	10.02	80	8.02	0.0055
R	RP1	3	2016	640	10.16	80	8.13	0.0055
R	RP1	3	2016	620	10.3	80	8.24	0.0055
R	RP1	3	2016	600	10.44	80	8.35	0.006
R	RP1	3	2016	580	10.59	80	8.47	0.0055
R	RP1	3	2016	560	10.73	80	8.58	0.006
R	RP1	3	2016	540	10.87	80	8.7	0.006
R	RP1	3	2016	520	11.02	80	8.82	0.011
R	RP1	3	2016	500	11.3	80	9.04	0.011
R	RP1	3	2016	480	11.58	80	9.26	0.012
R	RP1	3	2016	460	11.87	80	9.5	0.011

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3	2016	440	12.15	80	9.72	0.0115
R	RP1	3	2016	420	12.44	80	9.95	0.0115
R	RP1	3	2016	400	12.72	80	10.18	0.011
R	RP1	3	2016	380	13	80	10.4	0.0115
R	RP1	3	2016	360	13.29	80	10.63	0.0115
R	RP1	3	2016	340	13.58	80	10.86	0.0115
R	RP1	3	2016	320	13.86	80	11.09	0.011
R	RP1	3	2016	300	14.14	80	11.31	0.0115
R	RP1	3	2016	280	14.42	80	11.54	0.0115
R	RP1	3	2016	260	14.71	80	11.77	0.014
R	RP1	3	2016	240	15.06	80	12.05	0.014
R	RP1	3	2016	220	15.41	80	12.33	0.014
R	RP1	3	2016	200	15.76	80	12.61	0.02
R	RP1	3	2016	180	16.26	80	13.01	0.02
R	RP1	3	2016	160	16.76	80	13.41	0.02
R	RP1	3	2016	140	17.26	80	13.81	0.02
R	RP1	3	2016	120	17.76	80	14.21	0.06
R	RP1	3	2016	100	19.26	80	15.41	0
R	RP1	4	2016	9999999	7.01	100	7.01	0
R	RP1	4	2016	5000	7.01	100	7.01	0.00004
R	RP1	4	2016	4000	7.05	100	7.05	0.00004
R	RP1	4	2016	3000	7.09	100	7.09	0.00004
R	RP1	4	2016	2000	7.13	100	7.13	0.0004
R	RP1	4	2016	1900	7.17	100	7.17	0.0004
R	RP1	4	2016	1800	7.21	100	7.21	0.0004
R	RP1	4	2016	1700	7.25	100	7.25	0.0004
R	RP1	4	2016	1600	7.29	100	7.29	0.0004
R	RP1	4	2016	1500	7.33	100	7.33	0.0004
R	RP1	4	2016	1400	7.37	100	7.37	0.0025
R	RP1	4	2016	1380	7.42	100	7.42	0.0025
R	RP1	4	2016	1360	7.47	100	7.47	0.0025
R	RP1	4	2016	1340	7.52	100	7.52	0.0025
R	RP1	4	2016	1320	7.57	100	7.57	0.0025
R	RP1	4	2016	1300	7.62	100	7.62	0.0025
R	RP1	4	2016	1280	7.67	100	7.67	0.0025
R	RP1	4	2016	1260	7.72	100	7.72	0.003
R	RP1	4	2016	1240	7.78	100	7.78	0.003
R	RP1	4	2016	1220	7.84	100	7.84	0.003
R	RP1	4	2016	1200	7.9	100	7.9	0.003
R	RP1	4	2016	1180	7.96	100	7.96	0.003
R	RP1	4	2016	1160	8.02	100	8.02	0.003
R	RP1	4	2016	1140	8.08	100	8.08	0.003
R	RP1	4	2016	1120	8.14	100	8.14	0.003
R	RP1	4	2016	1100	8.2	100	8.2	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	4	2016	1080	8.26	100	8.26	0.0035
R	RP1	4	2016	1060	8.33	100	8.33	0.0035
R	RP1	4	2016	1040	8.4	100	8.4	0.0035
R	RP1	4	2016	1020	8.47	100	8.47	0.0035
R	RP1	4	2016	1000	8.54	100	8.54	0.0035
R	RP1	4	2016	980	8.61	100	8.61	0.0035
R	RP1	4	2016	960	8.68	100	8.68	0.0035
R	RP1	4	2016	940	8.75	100	8.75	0.004
R	RP1	4	2016	920	8.83	100	8.83	0.004
R	RP1	4	2016	900	8.91	100	8.91	0.004
R	RP1	4	2016	880	8.99	100	8.99	0.004
R	RP1	4	2016	860	9.07	100	9.07	0.004
R	RP1	4	2016	840	9.15	100	9.15	0.004
R	RP1	4	2016	820	9.23	100	9.23	0.004
R	RP1	4	2016	800	9.31	100	9.31	0.005
R	RP1	4	2016	780	9.41	100	9.41	0.005
R	RP1	4	2016	760	9.51	100	9.51	0.005
R	RP1	4	2016	740	9.61	100	9.61	0.005
R	RP1	4	2016	720	9.71	100	9.71	0.005
R	RP1	4	2016	700	9.81	100	9.81	0.005
R	RP1	4	2016	680	9.91	100	9.91	0.0055
R	RP1	4	2016	660	10.02	100	10.02	0.007
R	RP1	4	2016	640	10.16	100	10.16	0.007
R	RP1	4	2016	620	10.3	100	10.3	0.007
R	RP1	4	2016	600	10.44	100	10.44	0.0075
R	RP1	4	2016	580	10.59	100	10.59	0.007
R	RP1	4	2016	560	10.73	100	10.73	0.007
R	RP1	4	2016	540	10.87	100	10.87	0.0075
R	RP1	4	2016	520	11.02	100	11.02	0.014
R	RP1	4	2016	500	11.3	100	11.3	0.014
R	RP1	4	2016	480	11.58	100	11.58	0.0145
R	RP1	4	2016	460	11.87	100	11.87	0.014
R	RP1	4	2016	440	12.15	100	12.15	0.0145
R	RP1	4	2016	420	12.44	100	12.44	0.014
R	RP1	4	2016	400	12.72	100	12.72	0.014
R	RP1	4	2016	380	13	100	13	0.0145
R	RP1	4	2016	360	13.29	100	13.29	0.0145
R	RP1	4	2016	340	13.58	100	13.58	0.014
R	RP1	4	2016	320	13.86	100	13.86	0.014
R	RP1	4	2016	300	14.14	100	14.14	0.014
R	RP1	4	2016	280	14.42	100	14.42	0.0145
R	RP1	4	2016	260	14.71	100	14.71	0.0175
R	RP1	4	2016	240	15.06	100	15.06	0.0175
R	RP1	4	2016	220	15.41	100	15.41	0.0175

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	4	2016	200	15.76	100	15.76	0.025
R	RP1	4	2016	180	16.26	100	16.26	0.025
R	RP1	4	2016	160	16.76	100	16.76	0.025
R	RP1	4	2016	140	17.26	100	17.26	0.025
R	RP1	4	2016	120	17.76	100	17.76	0.075
R	RP1	4	2016	100	19.26	100	19.26	0
R	RP1	5	2016	99999999	7.01	120	8.41	0
R	RP1	5	2016	5000	7.01	120	8.41	0.00005
R	RP1	5	2016	4000	7.05	120	8.46	0.00005
R	RP1	5	2016	3000	7.09	120	8.51	0.00005
R	RP1	5	2016	2000	7.13	120	8.56	0.0004
R	RP1	5	2016	1900	7.17	120	8.6	0.0005
R	RP1	5	2016	1800	7.21	120	8.65	0.0005
R	RP1	5	2016	1700	7.25	120	8.7	0.0005
R	RP1	5	2016	1600	7.29	120	8.75	0.0005
R	RP1	5	2016	1500	7.33	120	8.8	0.0004
R	RP1	5	2016	1400	7.37	120	8.84	0.003
R	RP1	5	2016	1380	7.42	120	8.9	0.003
R	RP1	5	2016	1360	7.47	120	8.96	0.003
R	RP1	5	2016	1340	7.52	120	9.02	0.003
R	RP1	5	2016	1320	7.57	120	9.08	0.003
R	RP1	5	2016	1300	7.62	120	9.14	0.003
R	RP1	5	2016	1280	7.67	120	9.2	0.003
R	RP1	5	2016	1260	7.72	120	9.26	0.004
R	RP1	5	2016	1240	7.78	120	9.34	0.0035
R	RP1	5	2016	1220	7.84	120	9.41	0.0035
R	RP1	5	2016	1200	7.9	120	9.48	0.0035
R	RP1	5	2016	1180	7.96	120	9.55	0.0035
R	RP1	5	2016	1160	8.02	120	9.62	0.004
R	RP1	5	2016	1140	8.08	120	9.7	0.0035
R	RP1	5	2016	1120	8.14	120	9.77	0.0035
R	RP1	5	2016	1100	8.2	120	9.84	0.0035
R	RP1	5	2016	1080	8.26	120	9.91	0.0045
R	RP1	5	2016	1060	8.33	120	10	0.004
R	RP1	5	2016	1040	8.4	120	10.08	0.004
R	RP1	5	2016	1020	8.47	120	10.16	0.0045
R	RP1	5	2016	1000	8.54	120	10.25	0.004
R	RP1	5	2016	980	8.61	120	10.33	0.0045
R	RP1	5	2016	960	8.68	120	10.42	0.004
R	RP1	5	2016	940	8.75	120	10.5	0.005
R	RP1	5	2016	920	8.83	120	10.6	0.0045
R	RP1	5	2016	900	8.91	120	10.69	0.005
R	RP1	5	2016	880	8.99	120	10.79	0.0045
R	RP1	5	2016	860	9.07	120	10.88	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	5	2016	840	9.15	120	10.98	0.005
R	RP1	5	2016	820	9.23	120	11.08	0.0045
R	RP1	5	2016	800	9.31	120	11.17	0.006
R	RP1	5	2016	780	9.41	120	11.29	0.006
R	RP1	5	2016	760	9.51	120	11.41	0.006
R	RP1	5	2016	740	9.61	120	11.53	0.006
R	RP1	5	2016	720	9.71	120	11.65	0.006
R	RP1	5	2016	700	9.81	120	11.77	0.006
R	RP1	5	2016	680	9.91	120	11.89	0.0065
R	RP1	5	2016	660	10.02	120	12.02	0.0085
R	RP1	5	2016	640	10.16	120	12.19	0.0085
R	RP1	5	2016	620	10.3	120	12.36	0.0085
R	RP1	5	2016	600	10.44	120	12.53	0.009
R	RP1	5	2016	580	10.59	120	12.71	0.0085
R	RP1	5	2016	560	10.73	120	12.88	0.008
R	RP1	5	2016	540	10.87	120	13.04	0.009
R	RP1	5	2016	520	11.02	120	13.22	0.017
R	RP1	5	2016	500	11.3	120	13.56	0.017
R	RP1	5	2016	480	11.58	120	13.9	0.017
R	RP1	5	2016	460	11.87	120	14.24	0.017
R	RP1	5	2016	440	12.15	120	14.58	0.0175
R	RP1	5	2016	420	12.44	120	14.93	0.0165
R	RP1	5	2016	400	12.72	120	15.26	0.017
R	RP1	5	2016	380	13	120	15.6	0.0175
R	RP1	5	2016	360	13.29	120	15.95	0.0175
R	RP1	5	2016	340	13.58	120	16.3	0.0165
R	RP1	5	2016	320	13.86	120	16.63	0.017
R	RP1	5	2016	300	14.14	120	16.97	0.0165
R	RP1	5	2016	280	14.42	120	17.3	0.0175
R	RP1	5	2016	260	14.71	120	17.65	0.021
R	RP1	5	2016	240	15.06	120	18.07	0.021
R	RP1	5	2016	220	15.41	120	18.49	0.021
R	RP1	5	2016	200	15.76	120	18.91	0.03
R	RP1	5	2016	180	16.26	120	19.51	0.03
R	RP1	5	2016	160	16.76	120	20.11	0.03
R	RP1	5	2016	140	17.26	120	20.71	0.03
R	RP1	5	2016	120	17.76	120	21.31	0.09
R	RP1	5	2016	100	19.26	120	23.11	0
R	RP1	6	2016	99999999	7.01	120	8.41	0
R	RP1	6	2016	5000	7.01	120	8.41	0.00005
R	RP1	6	2016	4000	7.05	120	8.46	0.00005
R	RP1	6	2016	3000	7.09	120	8.51	0.00005
R	RP1	6	2016	2000	7.13	120	8.56	0.0004
R	RP1	6	2016	1900	7.17	120	8.6	0.0005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	6	2016	1800	7.21	120	8.65	0.0005
R	RP1	6	2016	1700	7.25	120	8.7	0.0005
R	RP1	6	2016	1600	7.29	120	8.75	0.0005
R	RP1	6	2016	1500	7.33	120	8.8	0.0004
R	RP1	6	2016	1400	7.37	120	8.84	0.003
R	RP1	6	2016	1380	7.42	120	8.9	0.003
R	RP1	6	2016	1360	7.47	120	8.96	0.003
R	RP1	6	2016	1340	7.52	120	9.02	0.003
R	RP1	6	2016	1320	7.57	120	9.08	0.003
R	RP1	6	2016	1300	7.62	120	9.14	0.003
R	RP1	6	2016	1280	7.67	120	9.2	0.003
R	RP1	6	2016	1260	7.72	120	9.26	0.004
R	RP1	6	2016	1240	7.78	120	9.34	0.0035
R	RP1	6	2016	1220	7.84	120	9.41	0.0035
R	RP1	6	2016	1200	7.9	120	9.48	0.0035
R	RP1	6	2016	1180	7.96	120	9.55	0.0035
R	RP1	6	2016	1160	8.02	120	9.62	0.004
R	RP1	6	2016	1140	8.08	120	9.7	0.0035
R	RP1	6	2016	1120	8.14	120	9.77	0.0035
R	RP1	6	2016	1100	8.2	120	9.84	0.0035
R	RP1	6	2016	1080	8.26	120	9.91	0.0045
R	RP1	6	2016	1060	8.33	120	10	0.004
R	RP1	6	2016	1040	8.4	120	10.08	0.004
R	RP1	6	2016	1020	8.47	120	10.16	0.0045
R	RP1	6	2016	1000	8.54	120	10.25	0.004
R	RP1	6	2016	980	8.61	120	10.33	0.0045
R	RP1	6	2016	960	8.68	120	10.42	0.004
R	RP1	6	2016	940	8.75	120	10.5	0.005
R	RP1	6	2016	920	8.83	120	10.6	0.0045
R	RP1	6	2016	900	8.91	120	10.69	0.005
R	RP1	6	2016	880	8.99	120	10.79	0.0045
R	RP1	6	2016	860	9.07	120	10.88	0.005
R	RP1	6	2016	840	9.15	120	10.98	0.005
R	RP1	6	2016	820	9.23	120	11.08	0.0045
R	RP1	6	2016	800	9.31	120	11.17	0.006
R	RP1	6	2016	780	9.41	120	11.29	0.006
R	RP1	6	2016	760	9.51	120	11.41	0.006
R	RP1	6	2016	740	9.61	120	11.53	0.006
R	RP1	6	2016	720	9.71	120	11.65	0.006
R	RP1	6	2016	700	9.81	120	11.77	0.006
R	RP1	6	2016	680	9.91	120	11.89	0.0065
R	RP1	6	2016	660	10.02	120	12.02	0.0085
R	RP1	6	2016	640	10.16	120	12.19	0.0085
R	RP1	6	2016	620	10.3	120	12.36	0.0085

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	6	2016	600	10.44	120	12.53	0.009
R	RP1	6	2016	580	10.59	120	12.71	0.0085
R	RP1	6	2016	560	10.73	120	12.88	0.008
R	RP1	6	2016	540	10.87	120	13.04	0.009
R	RP1	6	2016	520	11.02	120	13.22	0.017
R	RP1	6	2016	500	11.3	120	13.56	0.017
R	RP1	6	2016	480	11.58	120	13.9	0.017
R	RP1	6	2016	460	11.87	120	14.24	0.017
R	RP1	6	2016	440	12.15	120	14.58	0.0175
R	RP1	6	2016	420	12.44	120	14.93	0.0165
R	RP1	6	2016	400	12.72	120	15.26	0.017
R	RP1	6	2016	380	13	120	15.6	0.0175
R	RP1	6	2016	360	13.29	120	15.95	0.0175
R	RP1	6	2016	340	13.58	120	16.3	0.0165
R	RP1	6	2016	320	13.86	120	16.63	0.017
R	RP1	6	2016	300	14.14	120	16.97	0.0165
R	RP1	6	2016	280	14.42	120	17.3	0.0175
R	RP1	6	2016	260	14.71	120	17.65	0.021
R	RP1	6	2016	240	15.06	120	18.07	0.021
R	RP1	6	2016	220	15.41	120	18.49	0.021
R	RP1	6	2016	200	15.76	120	18.91	0.03
R	RP1	6	2016	180	16.26	120	19.51	0.03
R	RP1	6	2016	160	16.76	120	20.11	0.03
R	RP1	6	2016	140	17.26	120	20.71	0.03
R	RP1	6	2016	120	17.76	120	21.31	0.09
R	RP1	6	2016	100	19.26	120	23.11	0
R	RP1	7	2016	99999999	7.01	120	8.41	0
R	RP1	7	2016	5000	7.01	120	8.41	0.00005
R	RP1	7	2016	4000	7.05	120	8.46	0.00005
R	RP1	7	2016	3000	7.09	120	8.51	0.00005
R	RP1	7	2016	2000	7.13	120	8.56	0.0004
R	RP1	7	2016	1900	7.17	120	8.6	0.0005
R	RP1	7	2016	1800	7.21	120	8.65	0.0005
R	RP1	7	2016	1700	7.25	120	8.7	0.0005
R	RP1	7	2016	1600	7.29	120	8.75	0.0005
R	RP1	7	2016	1500	7.33	120	8.8	0.0004
R	RP1	7	2016	1400	7.37	120	8.84	0.003
R	RP1	7	2016	1380	7.42	120	8.9	0.003
R	RP1	7	2016	1360	7.47	120	8.96	0.003
R	RP1	7	2016	1340	7.52	120	9.02	0.003
R	RP1	7	2016	1320	7.57	120	9.08	0.003
R	RP1	7	2016	1300	7.62	120	9.14	0.003
R	RP1	7	2016	1280	7.67	120	9.2	0.003
R	RP1	7	2016	1260	7.72	120	9.26	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	7	2016	1240	7.78	120	9.34	0.0035
R	RP1	7	2016	1220	7.84	120	9.41	0.0035
R	RP1	7	2016	1200	7.9	120	9.48	0.0035
R	RP1	7	2016	1180	7.96	120	9.55	0.0035
R	RP1	7	2016	1160	8.02	120	9.62	0.004
R	RP1	7	2016	1140	8.08	120	9.7	0.0035
R	RP1	7	2016	1120	8.14	120	9.77	0.0035
R	RP1	7	2016	1100	8.2	120	9.84	0.0035
R	RP1	7	2016	1080	8.26	120	9.91	0.0045
R	RP1	7	2016	1060	8.33	120	10	0.004
R	RP1	7	2016	1040	8.4	120	10.08	0.004
R	RP1	7	2016	1020	8.47	120	10.16	0.0045
R	RP1	7	2016	1000	8.54	120	10.25	0.004
R	RP1	7	2016	980	8.61	120	10.33	0.0045
R	RP1	7	2016	960	8.68	120	10.42	0.004
R	RP1	7	2016	940	8.75	120	10.5	0.005
R	RP1	7	2016	920	8.83	120	10.6	0.0045
R	RP1	7	2016	900	8.91	120	10.69	0.005
R	RP1	7	2016	880	8.99	120	10.79	0.0045
R	RP1	7	2016	860	9.07	120	10.88	0.005
R	RP1	7	2016	840	9.15	120	10.98	0.005
R	RP1	7	2016	820	9.23	120	11.08	0.0045
R	RP1	7	2016	800	9.31	120	11.17	0.006
R	RP1	7	2016	780	9.41	120	11.29	0.006
R	RP1	7	2016	760	9.51	120	11.41	0.006
R	RP1	7	2016	740	9.61	120	11.53	0.006
R	RP1	7	2016	720	9.71	120	11.65	0.006
R	RP1	7	2016	700	9.81	120	11.77	0.006
R	RP1	7	2016	680	9.91	120	11.89	0.0065
R	RP1	7	2016	660	10.02	120	12.02	0.0085
R	RP1	7	2016	640	10.16	120	12.19	0.0085
R	RP1	7	2016	620	10.3	120	12.36	0.0085
R	RP1	7	2016	600	10.44	120	12.53	0.009
R	RP1	7	2016	580	10.59	120	12.71	0.0085
R	RP1	7	2016	560	10.73	120	12.88	0.008
R	RP1	7	2016	540	10.87	120	13.04	0.009
R	RP1	7	2016	520	11.02	120	13.22	0.017
R	RP1	7	2016	500	11.3	120	13.56	0.017
R	RP1	7	2016	480	11.58	120	13.9	0.017
R	RP1	7	2016	460	11.87	120	14.24	0.017
R	RP1	7	2016	440	12.15	120	14.58	0.0175
R	RP1	7	2016	420	12.44	120	14.93	0.0165
R	RP1	7	2016	400	12.72	120	15.26	0.017
R	RP1	7	2016	380	13	120	15.6	0.0175

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	7	2016	360	13.29	120	15.95	0.0175
R	RP1	7	2016	340	13.58	120	16.3	0.0165
R	RP1	7	2016	320	13.86	120	16.63	0.017
R	RP1	7	2016	300	14.14	120	16.97	0.0165
R	RP1	7	2016	280	14.42	120	17.3	0.0175
R	RP1	7	2016	260	14.71	120	17.65	0.021
R	RP1	7	2016	240	15.06	120	18.07	0.021
R	RP1	7	2016	220	15.41	120	18.49	0.021
R	RP1	7	2016	200	15.76	120	18.91	0.03
R	RP1	7	2016	180	16.26	120	19.51	0.03
R	RP1	7	2016	160	16.76	120	20.11	0.03
R	RP1	7	2016	140	17.26	120	20.71	0.03
R	RP1	7	2016	120	17.76	120	21.31	0.09
R	RP1	7	2016	100	19.26	120	23.11	0
R	RP1	8	2016	99999999	7.01	120	8.41	0
R	RP1	8	2016	5000	7.01	120	8.41	0.00005
R	RP1	8	2016	4000	7.05	120	8.46	0.00005
R	RP1	8	2016	3000	7.09	120	8.51	0.00005
R	RP1	8	2016	2000	7.13	120	8.56	0.0004
R	RP1	8	2016	1900	7.17	120	8.6	0.0005
R	RP1	8	2016	1800	7.21	120	8.65	0.0005
R	RP1	8	2016	1700	7.25	120	8.7	0.0005
R	RP1	8	2016	1600	7.29	120	8.75	0.0005
R	RP1	8	2016	1500	7.33	120	8.8	0.0004
R	RP1	8	2016	1400	7.37	120	8.84	0.003
R	RP1	8	2016	1380	7.42	120	8.9	0.003
R	RP1	8	2016	1360	7.47	120	8.96	0.003
R	RP1	8	2016	1340	7.52	120	9.02	0.003
R	RP1	8	2016	1320	7.57	120	9.08	0.003
R	RP1	8	2016	1300	7.62	120	9.14	0.003
R	RP1	8	2016	1280	7.67	120	9.2	0.003
R	RP1	8	2016	1260	7.72	120	9.26	0.004
R	RP1	8	2016	1240	7.78	120	9.34	0.0035
R	RP1	8	2016	1220	7.84	120	9.41	0.0035
R	RP1	8	2016	1200	7.9	120	9.48	0.0035
R	RP1	8	2016	1180	7.96	120	9.55	0.0035
R	RP1	8	2016	1160	8.02	120	9.62	0.004
R	RP1	8	2016	1140	8.08	120	9.7	0.0035
R	RP1	8	2016	1120	8.14	120	9.77	0.0035
R	RP1	8	2016	1100	8.2	120	9.84	0.0035
R	RP1	8	2016	1080	8.26	120	9.91	0.0045
R	RP1	8	2016	1060	8.33	120	10	0.004
R	RP1	8	2016	1040	8.4	120	10.08	0.004
R	RP1	8	2016	1020	8.47	120	10.16	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8	2016	1000	8.54	120	10.25	0.004
R	RP1	8	2016	980	8.61	120	10.33	0.0045
R	RP1	8	2016	960	8.68	120	10.42	0.004
R	RP1	8	2016	940	8.75	120	10.5	0.005
R	RP1	8	2016	920	8.83	120	10.6	0.0045
R	RP1	8	2016	900	8.91	120	10.69	0.005
R	RP1	8	2016	880	8.99	120	10.79	0.0045
R	RP1	8	2016	860	9.07	120	10.88	0.005
R	RP1	8	2016	840	9.15	120	10.98	0.005
R	RP1	8	2016	820	9.23	120	11.08	0.0045
R	RP1	8	2016	800	9.31	120	11.17	0.006
R	RP1	8	2016	780	9.41	120	11.29	0.006
R	RP1	8	2016	760	9.51	120	11.41	0.006
R	RP1	8	2016	740	9.61	120	11.53	0.006
R	RP1	8	2016	720	9.71	120	11.65	0.006
R	RP1	8	2016	700	9.81	120	11.77	0.006
R	RP1	8	2016	680	9.91	120	11.89	0.0065
R	RP1	8	2016	660	10.02	120	12.02	0.0085
R	RP1	8	2016	640	10.16	120	12.19	0.0085
R	RP1	8	2016	620	10.3	120	12.36	0.0085
R	RP1	8	2016	600	10.44	120	12.53	0.009
R	RP1	8	2016	580	10.59	120	12.71	0.0085
R	RP1	8	2016	560	10.73	120	12.88	0.008
R	RP1	8	2016	540	10.87	120	13.04	0.009
R	RP1	8	2016	520	11.02	120	13.22	0.017
R	RP1	8	2016	500	11.3	120	13.56	0.017
R	RP1	8	2016	480	11.58	120	13.9	0.017
R	RP1	8	2016	460	11.87	120	14.24	0.017
R	RP1	8	2016	440	12.15	120	14.58	0.0175
R	RP1	8	2016	420	12.44	120	14.93	0.0165
R	RP1	8	2016	400	12.72	120	15.26	0.017
R	RP1	8	2016	380	13	120	15.6	0.0175
R	RP1	8	2016	360	13.29	120	15.95	0.0175
R	RP1	8	2016	340	13.58	120	16.3	0.0165
R	RP1	8	2016	320	13.86	120	16.63	0.017
R	RP1	8	2016	300	14.14	120	16.97	0.0165
R	RP1	8	2016	280	14.42	120	17.3	0.0175
R	RP1	8	2016	260	14.71	120	17.65	0.021
R	RP1	8	2016	240	15.06	120	18.07	0.021
R	RP1	8	2016	220	15.41	120	18.49	0.021
R	RP1	8	2016	200	15.76	120	18.91	0.03
R	RP1	8	2016	180	16.26	120	19.51	0.03
R	RP1	8	2016	160	16.76	120	20.11	0.03
R	RP1	8	2016	140	17.26	120	20.71	0.03

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8	2016	120	17.76	120	21.31	0.09
R	RP1	8	2016	100	19.26	120	23.11	0
R	RP1	*	2016	99999999	7.01	100	7.01	0
R	RP1	*	2016	5000	7.01	100	7.01	0.00004
R	RP1	*	2016	4000	7.05	100	7.05	0.00004
R	RP1	*	2016	3000	7.09	100	7.09	0.00004
R	RP1	*	2016	2000	7.13	100	7.13	0.0004
R	RP1	*	2016	1900	7.17	100	7.17	0.0004
R	RP1	*	2016	1800	7.21	100	7.21	0.0004
R	RP1	*	2016	1700	7.25	100	7.25	0.0004
R	RP1	*	2016	1600	7.29	100	7.29	0.0004
R	RP1	*	2016	1500	7.33	100	7.33	0.0004
R	RP1	*	2016	1400	7.37	100	7.37	0.0025
R	RP1	*	2016	1380	7.42	100	7.42	0.0025
R	RP1	*	2016	1360	7.47	100	7.47	0.0025
R	RP1	*	2016	1340	7.52	100	7.52	0.0025
R	RP1	*	2016	1320	7.57	100	7.57	0.0025
R	RP1	*	2016	1300	7.62	100	7.62	0.0025
R	RP1	*	2016	1280	7.67	100	7.67	0.0025
R	RP1	*	2016	1260	7.72	100	7.72	0.003
R	RP1	*	2016	1240	7.78	100	7.78	0.003
R	RP1	*	2016	1220	7.84	100	7.84	0.003
R	RP1	*	2016	1200	7.9	100	7.9	0.003
R	RP1	*	2016	1180	7.96	100	7.96	0.003
R	RP1	*	2016	1160	8.02	100	8.02	0.003
R	RP1	*	2016	1140	8.08	100	8.08	0.003
R	RP1	*	2016	1120	8.14	100	8.14	0.003
R	RP1	*	2016	1100	8.2	100	8.2	0.003
R	RP1	*	2016	1080	8.26	100	8.26	0.0035
R	RP1	*	2016	1060	8.33	100	8.33	0.0035
R	RP1	*	2016	1040	8.4	100	8.4	0.0035
R	RP1	*	2016	1020	8.47	100	8.47	0.0035
R	RP1	*	2016	1000	8.54	100	8.54	0.0035
R	RP1	*	2016	980	8.61	100	8.61	0.0035
R	RP1	*	2016	960	8.68	100	8.68	0.0035
R	RP1	*	2016	940	8.75	100	8.75	0.004
R	RP1	*	2016	920	8.83	100	8.83	0.004
R	RP1	*	2016	900	8.91	100	8.91	0.004
R	RP1	*	2016	880	8.99	100	8.99	0.004
R	RP1	*	2016	860	9.07	100	9.07	0.004
R	RP1	*	2016	840	9.15	100	9.15	0.004
R	RP1	*	2016	820	9.23	100	9.23	0.004
R	RP1	*	2016	800	9.31	100	9.31	0.005
R	RP1	*	2016	780	9.41	100	9.41	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	*	2016	760	9.51	100	9.51	0.005
R	RP1	*	2016	740	9.61	100	9.61	0.005
R	RP1	*	2016	720	9.71	100	9.71	0.005
R	RP1	*	2016	700	9.81	100	9.81	0.005
R	RP1	*	2016	680	9.91	100	9.91	0.0055
R	RP1	*	2016	660	10.02	100	10.02	0.007
R	RP1	*	2016	640	10.16	100	10.16	0.007
R	RP1	*	2016	620	10.3	100	10.3	0.007
R	RP1	*	2016	600	10.44	100	10.44	0.0075
R	RP1	*	2016	580	10.59	100	10.59	0.007
R	RP1	*	2016	560	10.73	100	10.73	0.007
R	RP1	*	2016	540	10.87	100	10.87	0.0075
R	RP1	*	2016	520	11.02	100	11.02	0.014
R	RP1	*	2016	500	11.3	100	11.3	0.014
R	RP1	*	2016	480	11.58	100	11.58	0.0145
R	RP1	*	2016	460	11.87	100	11.87	0.014
R	RP1	*	2016	440	12.15	100	12.15	0.0145
R	RP1	*	2016	420	12.44	100	12.44	0.014
R	RP1	*	2016	400	12.72	100	12.72	0.014
R	RP1	*	2016	380	13	100	13	0.0145
R	RP1	*	2016	360	13.29	100	13.29	0.0145
R	RP1	*	2016	340	13.58	100	13.58	0.014
R	RP1	*	2016	320	13.86	100	13.86	0.014
R	RP1	*	2016	300	14.14	100	14.14	0.014
R	RP1	*	2016	280	14.42	100	14.42	0.0145
R	RP1	*	2016	260	14.71	100	14.71	0.0175
R	RP1	*	2016	240	15.06	100	15.06	0.0175
R	RP1	*	2016	220	15.41	100	15.41	0.0175
R	RP1	*	2016	200	15.76	100	15.76	0.025
R	RP1	*	2016	180	16.26	100	16.26	0.025
R	RP1	*	2016	160	16.76	100	16.76	0.025
R	RP1	*	2016	140	17.26	100	17.26	0.025
R	RP1	*	2016	120	17.76	100	17.76	0.075
R	RP1	*	2016	100	19.26	100	19.26	0
R	RP1	1-	2016	9999999	7.01	80	5.61	0
R	RP1	1-	2016	5000	7.01	80	5.61	0.00003
R	RP1	1-	2016	4000	7.05	80	5.64	0.00003
R	RP1	1-	2016	3000	7.09	80	5.67	0.00003
R	RP1	1-	2016	2000	7.13	80	5.7	0.0004
R	RP1	1-	2016	1900	7.17	80	5.74	0.0003
R	RP1	1-	2016	1800	7.21	80	5.77	0.0003
R	RP1	1-	2016	1700	7.25	80	5.8	0.0003
R	RP1	1-	2016	1600	7.29	80	5.83	0.0003
R	RP1	1-	2016	1500	7.33	80	5.86	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	1-	2016	1400	7.37	80	5.9	0.002
R	RP1	1-	2016	1380	7.42	80	5.94	0.002
R	RP1	1-	2016	1360	7.47	80	5.98	0.002
R	RP1	1-	2016	1340	7.52	80	6.02	0.002
R	RP1	1-	2016	1320	7.57	80	6.06	0.002
R	RP1	1-	2016	1300	7.62	80	6.1	0.002
R	RP1	1-	2016	1280	7.67	80	6.14	0.002
R	RP1	1-	2016	1260	7.72	80	6.18	0.002
R	RP1	1-	2016	1240	7.78	80	6.22	0.0025
R	RP1	1-	2016	1220	7.84	80	6.27	0.0025
R	RP1	1-	2016	1200	7.9	80	6.32	0.0025
R	RP1	1-	2016	1180	7.96	80	6.37	0.0025
R	RP1	1-	2016	1160	8.02	80	6.42	0.002
R	RP1	1-	2016	1140	8.08	80	6.46	0.0025
R	RP1	1-	2016	1120	8.14	80	6.51	0.0025
R	RP1	1-	2016	1100	8.2	80	6.56	0.0025
R	RP1	1-	2016	1080	8.26	80	6.61	0.0025
R	RP1	1-	2016	1060	8.33	80	6.66	0.003
R	RP1	1-	2016	1040	8.4	80	6.72	0.003
R	RP1	1-	2016	1020	8.47	80	6.78	0.0025
R	RP1	1-	2016	1000	8.54	80	6.83	0.003
R	RP1	1-	2016	980	8.61	80	6.89	0.0025
R	RP1	1-	2016	960	8.68	80	6.94	0.003
R	RP1	1-	2016	940	8.75	80	7	0.003
R	RP1	1-	2016	920	8.83	80	7.06	0.0035
R	RP1	1-	2016	900	8.91	80	7.13	0.003
R	RP1	1-	2016	880	8.99	80	7.19	0.0035
R	RP1	1-	2016	860	9.07	80	7.26	0.003
R	RP1	1-	2016	840	9.15	80	7.32	0.003
R	RP1	1-	2016	820	9.23	80	7.38	0.0035
R	RP1	1-	2016	800	9.31	80	7.45	0.004
R	RP1	1-	2016	780	9.41	80	7.53	0.004
R	RP1	1-	2016	760	9.51	80	7.61	0.004
R	RP1	1-	2016	740	9.61	80	7.69	0.004
R	RP1	1-	2016	720	9.71	80	7.77	0.004
R	RP1	1-	2016	700	9.81	80	7.85	0.004
R	RP1	1-	2016	680	9.91	80	7.93	0.0045
R	RP1	1-	2016	660	10.02	80	8.02	0.0055
R	RP1	1-	2016	640	10.16	80	8.13	0.0055
R	RP1	1-	2016	620	10.3	80	8.24	0.0055
R	RP1	1-	2016	600	10.44	80	8.35	0.006
R	RP1	1-	2016	580	10.59	80	8.47	0.0055
R	RP1	1-	2016	560	10.73	80	8.58	0.006
R	RP1	1-	2016	540	10.87	80	8.7	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	1-	2016	520	11.02	80	8.82	0.011
R	RP1	1-	2016	500	11.3	80	9.04	0.011
R	RP1	1-	2016	480	11.58	80	9.26	0.012
R	RP1	1-	2016	460	11.87	80	9.5	0.011
R	RP1	1-	2016	440	12.15	80	9.72	0.0115
R	RP1	1-	2016	420	12.44	80	9.95	0.0115
R	RP1	1-	2016	400	12.72	80	10.18	0.011
R	RP1	1-	2016	380	13	80	10.4	0.0115
R	RP1	1-	2016	360	13.29	80	10.63	0.0115
R	RP1	1-	2016	340	13.58	80	10.86	0.0115
R	RP1	1-	2016	320	13.86	80	11.09	0.011
R	RP1	1-	2016	300	14.14	80	11.31	0.0115
R	RP1	1-	2016	280	14.42	80	11.54	0.0115
R	RP1	1-	2016	260	14.71	80	11.77	0.014
R	RP1	1-	2016	240	15.06	80	12.05	0.014
R	RP1	1-	2016	220	15.41	80	12.33	0.014
R	RP1	1-	2016	200	15.76	80	12.61	0.02
R	RP1	1-	2016	180	16.26	80	13.01	0.02
R	RP1	1-	2016	160	16.76	80	13.41	0.02
R	RP1	1-	2016	140	17.26	80	13.81	0.02
R	RP1	1-	2016	120	17.76	80	14.21	0.06
R	RP1	1-	2016	100	19.26	80	15.41	0
R	RP1	1+	2016	9999999	7.01	80	5.61	0
R	RP1	1+	2016	5000	7.01	80	5.61	0.00003
R	RP1	1+	2016	4000	7.05	80	5.64	0.00003
R	RP1	1+	2016	3000	7.09	80	5.67	0.00003
R	RP1	1+	2016	2000	7.13	80	5.7	0.0004
R	RP1	1+	2016	1900	7.17	80	5.74	0.0003
R	RP1	1+	2016	1800	7.21	80	5.77	0.0003
R	RP1	1+	2016	1700	7.25	80	5.8	0.0003
R	RP1	1+	2016	1600	7.29	80	5.83	0.0003
R	RP1	1+	2016	1500	7.33	80	5.86	0.0004
R	RP1	1+	2016	1400	7.37	80	5.9	0.002
R	RP1	1+	2016	1380	7.42	80	5.94	0.002
R	RP1	1+	2016	1360	7.47	80	5.98	0.002
R	RP1	1+	2016	1340	7.52	80	6.02	0.002
R	RP1	1+	2016	1320	7.57	80	6.06	0.002
R	RP1	1+	2016	1300	7.62	80	6.1	0.002
R	RP1	1+	2016	1280	7.67	80	6.14	0.002
R	RP1	1+	2016	1260	7.72	80	6.18	0.002
R	RP1	1+	2016	1240	7.78	80	6.22	0.0025
R	RP1	1+	2016	1220	7.84	80	6.27	0.0025
R	RP1	1+	2016	1200	7.9	80	6.32	0.0025
R	RP1	1+	2016	1180	7.96	80	6.37	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	1+	2016	1160	8.02	80	6.42	0.002
R	RP1	1+	2016	1140	8.08	80	6.46	0.0025
R	RP1	1+	2016	1120	8.14	80	6.51	0.0025
R	RP1	1+	2016	1100	8.2	80	6.56	0.0025
R	RP1	1+	2016	1080	8.26	80	6.61	0.0025
R	RP1	1+	2016	1060	8.33	80	6.66	0.003
R	RP1	1+	2016	1040	8.4	80	6.72	0.003
R	RP1	1+	2016	1020	8.47	80	6.78	0.0025
R	RP1	1+	2016	1000	8.54	80	6.83	0.003
R	RP1	1+	2016	980	8.61	80	6.89	0.0025
R	RP1	1+	2016	960	8.68	80	6.94	0.003
R	RP1	1+	2016	940	8.75	80	7	0.003
R	RP1	1+	2016	920	8.83	80	7.06	0.0035
R	RP1	1+	2016	900	8.91	80	7.13	0.003
R	RP1	1+	2016	880	8.99	80	7.19	0.0035
R	RP1	1+	2016	860	9.07	80	7.26	0.003
R	RP1	1+	2016	840	9.15	80	7.32	0.003
R	RP1	1+	2016	820	9.23	80	7.38	0.0035
R	RP1	1+	2016	800	9.31	80	7.45	0.004
R	RP1	1+	2016	780	9.41	80	7.53	0.004
R	RP1	1+	2016	760	9.51	80	7.61	0.004
R	RP1	1+	2016	740	9.61	80	7.69	0.004
R	RP1	1+	2016	720	9.71	80	7.77	0.004
R	RP1	1+	2016	700	9.81	80	7.85	0.004
R	RP1	1+	2016	680	9.91	80	7.93	0.0045
R	RP1	1+	2016	660	10.02	80	8.02	0.0055
R	RP1	1+	2016	640	10.16	80	8.13	0.0055
R	RP1	1+	2016	620	10.3	80	8.24	0.0055
R	RP1	1+	2016	600	10.44	80	8.35	0.006
R	RP1	1+	2016	580	10.59	80	8.47	0.0055
R	RP1	1+	2016	560	10.73	80	8.58	0.006
R	RP1	1+	2016	540	10.87	80	8.7	0.006
R	RP1	1+	2016	520	11.02	80	8.82	0.011
R	RP1	1+	2016	500	11.3	80	9.04	0.011
R	RP1	1+	2016	480	11.58	80	9.26	0.012
R	RP1	1+	2016	460	11.87	80	9.5	0.011
R	RP1	1+	2016	440	12.15	80	9.72	0.0115
R	RP1	1+	2016	420	12.44	80	9.95	0.0115
R	RP1	1+	2016	400	12.72	80	10.18	0.011
R	RP1	1+	2016	380	13	80	10.4	0.0115
R	RP1	1+	2016	360	13.29	80	10.63	0.0115
R	RP1	1+	2016	340	13.58	80	10.86	0.0115
R	RP1	1+	2016	320	13.86	80	11.09	0.011
R	RP1	1+	2016	300	14.14	80	11.31	0.0115

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	1+	2016	280	14.42	80	11.54	0.0115
R	RP1	1+	2016	260	14.71	80	11.77	0.014
R	RP1	1+	2016	240	15.06	80	12.05	0.014
R	RP1	1+	2016	220	15.41	80	12.33	0.014
R	RP1	1+	2016	200	15.76	80	12.61	0.02
R	RP1	1+	2016	180	16.26	80	13.01	0.02
R	RP1	1+	2016	160	16.76	80	13.41	0.02
R	RP1	1+	2016	140	17.26	80	13.81	0.02
R	RP1	1+	2016	120	17.76	80	14.21	0.06
R	RP1	1+	2016	100	19.26	80	15.41	0
R	RP1	2-	2016	9999999	7.01	80	5.61	0
R	RP1	2-	2016	5000	7.01	80	5.61	0.00003
R	RP1	2-	2016	4000	7.05	80	5.64	0.00003
R	RP1	2-	2016	3000	7.09	80	5.67	0.00003
R	RP1	2-	2016	2000	7.13	80	5.7	0.0004
R	RP1	2-	2016	1900	7.17	80	5.74	0.0003
R	RP1	2-	2016	1800	7.21	80	5.77	0.0003
R	RP1	2-	2016	1700	7.25	80	5.8	0.0003
R	RP1	2-	2016	1600	7.29	80	5.83	0.0003
R	RP1	2-	2016	1500	7.33	80	5.86	0.0004
R	RP1	2-	2016	1400	7.37	80	5.9	0.002
R	RP1	2-	2016	1380	7.42	80	5.94	0.002
R	RP1	2-	2016	1360	7.47	80	5.98	0.002
R	RP1	2-	2016	1340	7.52	80	6.02	0.002
R	RP1	2-	2016	1320	7.57	80	6.06	0.002
R	RP1	2-	2016	1300	7.62	80	6.1	0.002
R	RP1	2-	2016	1280	7.67	80	6.14	0.002
R	RP1	2-	2016	1260	7.72	80	6.18	0.002
R	RP1	2-	2016	1240	7.78	80	6.22	0.0025
R	RP1	2-	2016	1220	7.84	80	6.27	0.0025
R	RP1	2-	2016	1200	7.9	80	6.32	0.0025
R	RP1	2-	2016	1180	7.96	80	6.37	0.0025
R	RP1	2-	2016	1160	8.02	80	6.42	0.002
R	RP1	2-	2016	1140	8.08	80	6.46	0.0025
R	RP1	2-	2016	1120	8.14	80	6.51	0.0025
R	RP1	2-	2016	1100	8.2	80	6.56	0.0025
R	RP1	2-	2016	1080	8.26	80	6.61	0.0025
R	RP1	2-	2016	1060	8.33	80	6.66	0.003
R	RP1	2-	2016	1040	8.4	80	6.72	0.003
R	RP1	2-	2016	1020	8.47	80	6.78	0.0025
R	RP1	2-	2016	1000	8.54	80	6.83	0.003
R	RP1	2-	2016	980	8.61	80	6.89	0.0025
R	RP1	2-	2016	960	8.68	80	6.94	0.003
R	RP1	2-	2016	940	8.75	80	7	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	2-	2016	920	8.83	80	7.06	0.0035
R	RP1	2-	2016	900	8.91	80	7.13	0.003
R	RP1	2-	2016	880	8.99	80	7.19	0.0035
R	RP1	2-	2016	860	9.07	80	7.26	0.003
R	RP1	2-	2016	840	9.15	80	7.32	0.003
R	RP1	2-	2016	820	9.23	80	7.38	0.0035
R	RP1	2-	2016	800	9.31	80	7.45	0.004
R	RP1	2-	2016	780	9.41	80	7.53	0.004
R	RP1	2-	2016	760	9.51	80	7.61	0.004
R	RP1	2-	2016	740	9.61	80	7.69	0.004
R	RP1	2-	2016	720	9.71	80	7.77	0.004
R	RP1	2-	2016	700	9.81	80	7.85	0.004
R	RP1	2-	2016	680	9.91	80	7.93	0.0045
R	RP1	2-	2016	660	10.02	80	8.02	0.0055
R	RP1	2-	2016	640	10.16	80	8.13	0.0055
R	RP1	2-	2016	620	10.3	80	8.24	0.0055
R	RP1	2-	2016	600	10.44	80	8.35	0.006
R	RP1	2-	2016	580	10.59	80	8.47	0.0055
R	RP1	2-	2016	560	10.73	80	8.58	0.006
R	RP1	2-	2016	540	10.87	80	8.7	0.006
R	RP1	2-	2016	520	11.02	80	8.82	0.011
R	RP1	2-	2016	500	11.3	80	9.04	0.011
R	RP1	2-	2016	480	11.58	80	9.26	0.012
R	RP1	2-	2016	460	11.87	80	9.5	0.011
R	RP1	2-	2016	440	12.15	80	9.72	0.0115
R	RP1	2-	2016	420	12.44	80	9.95	0.0115
R	RP1	2-	2016	400	12.72	80	10.18	0.011
R	RP1	2-	2016	380	13	80	10.4	0.0115
R	RP1	2-	2016	360	13.29	80	10.63	0.0115
R	RP1	2-	2016	340	13.58	80	10.86	0.0115
R	RP1	2-	2016	320	13.86	80	11.09	0.011
R	RP1	2-	2016	300	14.14	80	11.31	0.0115
R	RP1	2-	2016	280	14.42	80	11.54	0.0115
R	RP1	2-	2016	260	14.71	80	11.77	0.014
R	RP1	2-	2016	240	15.06	80	12.05	0.014
R	RP1	2-	2016	220	15.41	80	12.33	0.014
R	RP1	2-	2016	200	15.76	80	12.61	0.02
R	RP1	2-	2016	180	16.26	80	13.01	0.02
R	RP1	2-	2016	160	16.76	80	13.41	0.02
R	RP1	2-	2016	140	17.26	80	13.81	0.02
R	RP1	2-	2016	120	17.76	80	14.21	0.06
R	RP1	2-	2016	100	19.26	80	15.41	0
R	RP1	2+	2016	9999999	7.01	80	5.61	0
R	RP1	2+	2016	5000	7.01	80	5.61	0.00003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	2+	2016	4000	7.05	80	5.64	0.00003
R	RP1	2+	2016	3000	7.09	80	5.67	0.00003
R	RP1	2+	2016	2000	7.13	80	5.7	0.0004
R	RP1	2+	2016	1900	7.17	80	5.74	0.0003
R	RP1	2+	2016	1800	7.21	80	5.77	0.0003
R	RP1	2+	2016	1700	7.25	80	5.8	0.0003
R	RP1	2+	2016	1600	7.29	80	5.83	0.0003
R	RP1	2+	2016	1500	7.33	80	5.86	0.0004
R	RP1	2+	2016	1400	7.37	80	5.9	0.002
R	RP1	2+	2016	1380	7.42	80	5.94	0.002
R	RP1	2+	2016	1360	7.47	80	5.98	0.002
R	RP1	2+	2016	1340	7.52	80	6.02	0.002
R	RP1	2+	2016	1320	7.57	80	6.06	0.002
R	RP1	2+	2016	1300	7.62	80	6.1	0.002
R	RP1	2+	2016	1280	7.67	80	6.14	0.002
R	RP1	2+	2016	1260	7.72	80	6.18	0.002
R	RP1	2+	2016	1240	7.78	80	6.22	0.0025
R	RP1	2+	2016	1220	7.84	80	6.27	0.0025
R	RP1	2+	2016	1200	7.9	80	6.32	0.0025
R	RP1	2+	2016	1180	7.96	80	6.37	0.0025
R	RP1	2+	2016	1160	8.02	80	6.42	0.002
R	RP1	2+	2016	1140	8.08	80	6.46	0.0025
R	RP1	2+	2016	1120	8.14	80	6.51	0.0025
R	RP1	2+	2016	1100	8.2	80	6.56	0.0025
R	RP1	2+	2016	1080	8.26	80	6.61	0.0025
R	RP1	2+	2016	1060	8.33	80	6.66	0.003
R	RP1	2+	2016	1040	8.4	80	6.72	0.003
R	RP1	2+	2016	1020	8.47	80	6.78	0.0025
R	RP1	2+	2016	1000	8.54	80	6.83	0.003
R	RP1	2+	2016	980	8.61	80	6.89	0.0025
R	RP1	2+	2016	960	8.68	80	6.94	0.003
R	RP1	2+	2016	940	8.75	80	7	0.003
R	RP1	2+	2016	920	8.83	80	7.06	0.0035
R	RP1	2+	2016	900	8.91	80	7.13	0.003
R	RP1	2+	2016	880	8.99	80	7.19	0.0035
R	RP1	2+	2016	860	9.07	80	7.26	0.003
R	RP1	2+	2016	840	9.15	80	7.32	0.003
R	RP1	2+	2016	820	9.23	80	7.38	0.0035
R	RP1	2+	2016	800	9.31	80	7.45	0.004
R	RP1	2+	2016	780	9.41	80	7.53	0.004
R	RP1	2+	2016	760	9.51	80	7.61	0.004
R	RP1	2+	2016	740	9.61	80	7.69	0.004
R	RP1	2+	2016	720	9.71	80	7.77	0.004
R	RP1	2+	2016	700	9.81	80	7.85	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	2+	2016	680	9.91	80	7.93	0.0045
R	RP1	2+	2016	660	10.02	80	8.02	0.0055
R	RP1	2+	2016	640	10.16	80	8.13	0.0055
R	RP1	2+	2016	620	10.3	80	8.24	0.0055
R	RP1	2+	2016	600	10.44	80	8.35	0.006
R	RP1	2+	2016	580	10.59	80	8.47	0.0055
R	RP1	2+	2016	560	10.73	80	8.58	0.006
R	RP1	2+	2016	540	10.87	80	8.7	0.006
R	RP1	2+	2016	520	11.02	80	8.82	0.011
R	RP1	2+	2016	500	11.3	80	9.04	0.011
R	RP1	2+	2016	480	11.58	80	9.26	0.012
R	RP1	2+	2016	460	11.87	80	9.5	0.011
R	RP1	2+	2016	440	12.15	80	9.72	0.0115
R	RP1	2+	2016	420	12.44	80	9.95	0.0115
R	RP1	2+	2016	400	12.72	80	10.18	0.011
R	RP1	2+	2016	380	13	80	10.4	0.0115
R	RP1	2+	2016	360	13.29	80	10.63	0.0115
R	RP1	2+	2016	340	13.58	80	10.86	0.0115
R	RP1	2+	2016	320	13.86	80	11.09	0.011
R	RP1	2+	2016	300	14.14	80	11.31	0.0115
R	RP1	2+	2016	280	14.42	80	11.54	0.0115
R	RP1	2+	2016	260	14.71	80	11.77	0.014
R	RP1	2+	2016	240	15.06	80	12.05	0.014
R	RP1	2+	2016	220	15.41	80	12.33	0.014
R	RP1	2+	2016	200	15.76	80	12.61	0.02
R	RP1	2+	2016	180	16.26	80	13.01	0.02
R	RP1	2+	2016	160	16.76	80	13.41	0.02
R	RP1	2+	2016	140	17.26	80	13.81	0.02
R	RP1	2+	2016	120	17.76	80	14.21	0.06
R	RP1	2+	2016	100	19.26	80	15.41	0
R	RP1	3-	2016	99999999	7.01	80	5.61	0
R	RP1	3-	2016	5000	7.01	80	5.61	0.00003
R	RP1	3-	2016	4000	7.05	80	5.64	0.00003
R	RP1	3-	2016	3000	7.09	80	5.67	0.00003
R	RP1	3-	2016	2000	7.13	80	5.7	0.0004
R	RP1	3-	2016	1900	7.17	80	5.74	0.0003
R	RP1	3-	2016	1800	7.21	80	5.77	0.0003
R	RP1	3-	2016	1700	7.25	80	5.8	0.0003
R	RP1	3-	2016	1600	7.29	80	5.83	0.0003
R	RP1	3-	2016	1500	7.33	80	5.86	0.0004
R	RP1	3-	2016	1400	7.37	80	5.9	0.002
R	RP1	3-	2016	1380	7.42	80	5.94	0.002
R	RP1	3-	2016	1360	7.47	80	5.98	0.002
R	RP1	3-	2016	1340	7.52	80	6.02	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3-	2016	1320	7.57	80	6.06	0.002
R	RP1	3-	2016	1300	7.62	80	6.1	0.002
R	RP1	3-	2016	1280	7.67	80	6.14	0.002
R	RP1	3-	2016	1260	7.72	80	6.18	0.002
R	RP1	3-	2016	1240	7.78	80	6.22	0.0025
R	RP1	3-	2016	1220	7.84	80	6.27	0.0025
R	RP1	3-	2016	1200	7.9	80	6.32	0.0025
R	RP1	3-	2016	1180	7.96	80	6.37	0.0025
R	RP1	3-	2016	1160	8.02	80	6.42	0.002
R	RP1	3-	2016	1140	8.08	80	6.46	0.0025
R	RP1	3-	2016	1120	8.14	80	6.51	0.0025
R	RP1	3-	2016	1100	8.2	80	6.56	0.0025
R	RP1	3-	2016	1080	8.26	80	6.61	0.0025
R	RP1	3-	2016	1060	8.33	80	6.66	0.003
R	RP1	3-	2016	1040	8.4	80	6.72	0.003
R	RP1	3-	2016	1020	8.47	80	6.78	0.0025
R	RP1	3-	2016	1000	8.54	80	6.83	0.003
R	RP1	3-	2016	980	8.61	80	6.89	0.0025
R	RP1	3-	2016	960	8.68	80	6.94	0.003
R	RP1	3-	2016	940	8.75	80	7	0.003
R	RP1	3-	2016	920	8.83	80	7.06	0.0035
R	RP1	3-	2016	900	8.91	80	7.13	0.003
R	RP1	3-	2016	880	8.99	80	7.19	0.0035
R	RP1	3-	2016	860	9.07	80	7.26	0.003
R	RP1	3-	2016	840	9.15	80	7.32	0.003
R	RP1	3-	2016	820	9.23	80	7.38	0.0035
R	RP1	3-	2016	800	9.31	80	7.45	0.004
R	RP1	3-	2016	780	9.41	80	7.53	0.004
R	RP1	3-	2016	760	9.51	80	7.61	0.004
R	RP1	3-	2016	740	9.61	80	7.69	0.004
R	RP1	3-	2016	720	9.71	80	7.77	0.004
R	RP1	3-	2016	700	9.81	80	7.85	0.004
R	RP1	3-	2016	680	9.91	80	7.93	0.0045
R	RP1	3-	2016	660	10.02	80	8.02	0.0055
R	RP1	3-	2016	640	10.16	80	8.13	0.0055
R	RP1	3-	2016	620	10.3	80	8.24	0.0055
R	RP1	3-	2016	600	10.44	80	8.35	0.006
R	RP1	3-	2016	580	10.59	80	8.47	0.0055
R	RP1	3-	2016	560	10.73	80	8.58	0.006
R	RP1	3-	2016	540	10.87	80	8.7	0.006
R	RP1	3-	2016	520	11.02	80	8.82	0.011
R	RP1	3-	2016	500	11.3	80	9.04	0.011
R	RP1	3-	2016	480	11.58	80	9.26	0.012
R	RP1	3-	2016	460	11.87	80	9.5	0.011

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3-	2016	440	12.15	80	9.72	0.0115
R	RP1	3-	2016	420	12.44	80	9.95	0.0115
R	RP1	3-	2016	400	12.72	80	10.18	0.011
R	RP1	3-	2016	380	13	80	10.4	0.0115
R	RP1	3-	2016	360	13.29	80	10.63	0.0115
R	RP1	3-	2016	340	13.58	80	10.86	0.0115
R	RP1	3-	2016	320	13.86	80	11.09	0.011
R	RP1	3-	2016	300	14.14	80	11.31	0.0115
R	RP1	3-	2016	280	14.42	80	11.54	0.0115
R	RP1	3-	2016	260	14.71	80	11.77	0.014
R	RP1	3-	2016	240	15.06	80	12.05	0.014
R	RP1	3-	2016	220	15.41	80	12.33	0.014
R	RP1	3-	2016	200	15.76	80	12.61	0.02
R	RP1	3-	2016	180	16.26	80	13.01	0.02
R	RP1	3-	2016	160	16.76	80	13.41	0.02
R	RP1	3-	2016	140	17.26	80	13.81	0.02
R	RP1	3-	2016	120	17.76	80	14.21	0.06
R	RP1	3-	2016	100	19.26	80	15.41	0
R	RP1	3+	2016	99999999	7.01	80	5.61	0
R	RP1	3+	2016	5000	7.01	80	5.61	0.00003
R	RP1	3+	2016	4000	7.05	80	5.64	0.00003
R	RP1	3+	2016	3000	7.09	80	5.67	0.00003
R	RP1	3+	2016	2000	7.13	80	5.7	0.0004
R	RP1	3+	2016	1900	7.17	80	5.74	0.0003
R	RP1	3+	2016	1800	7.21	80	5.77	0.0003
R	RP1	3+	2016	1700	7.25	80	5.8	0.0003
R	RP1	3+	2016	1600	7.29	80	5.83	0.0003
R	RP1	3+	2016	1500	7.33	80	5.86	0.0004
R	RP1	3+	2016	1400	7.37	80	5.9	0.002
R	RP1	3+	2016	1380	7.42	80	5.94	0.002
R	RP1	3+	2016	1360	7.47	80	5.98	0.002
R	RP1	3+	2016	1340	7.52	80	6.02	0.002
R	RP1	3+	2016	1320	7.57	80	6.06	0.002
R	RP1	3+	2016	1300	7.62	80	6.1	0.002
R	RP1	3+	2016	1280	7.67	80	6.14	0.002
R	RP1	3+	2016	1260	7.72	80	6.18	0.002
R	RP1	3+	2016	1240	7.78	80	6.22	0.0025
R	RP1	3+	2016	1220	7.84	80	6.27	0.0025
R	RP1	3+	2016	1200	7.9	80	6.32	0.0025
R	RP1	3+	2016	1180	7.96	80	6.37	0.0025
R	RP1	3+	2016	1160	8.02	80	6.42	0.002
R	RP1	3+	2016	1140	8.08	80	6.46	0.0025
R	RP1	3+	2016	1120	8.14	80	6.51	0.0025
R	RP1	3+	2016	1100	8.2	80	6.56	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3+	2016	1080	8.26	80	6.61	0.0025
R	RP1	3+	2016	1060	8.33	80	6.66	0.003
R	RP1	3+	2016	1040	8.4	80	6.72	0.003
R	RP1	3+	2016	1020	8.47	80	6.78	0.0025
R	RP1	3+	2016	1000	8.54	80	6.83	0.003
R	RP1	3+	2016	980	8.61	80	6.89	0.0025
R	RP1	3+	2016	960	8.68	80	6.94	0.003
R	RP1	3+	2016	940	8.75	80	7	0.003
R	RP1	3+	2016	920	8.83	80	7.06	0.0035
R	RP1	3+	2016	900	8.91	80	7.13	0.003
R	RP1	3+	2016	880	8.99	80	7.19	0.0035
R	RP1	3+	2016	860	9.07	80	7.26	0.003
R	RP1	3+	2016	840	9.15	80	7.32	0.003
R	RP1	3+	2016	820	9.23	80	7.38	0.0035
R	RP1	3+	2016	800	9.31	80	7.45	0.004
R	RP1	3+	2016	780	9.41	80	7.53	0.004
R	RP1	3+	2016	760	9.51	80	7.61	0.004
R	RP1	3+	2016	740	9.61	80	7.69	0.004
R	RP1	3+	2016	720	9.71	80	7.77	0.004
R	RP1	3+	2016	700	9.81	80	7.85	0.004
R	RP1	3+	2016	680	9.91	80	7.93	0.0045
R	RP1	3+	2016	660	10.02	80	8.02	0.0055
R	RP1	3+	2016	640	10.16	80	8.13	0.0055
R	RP1	3+	2016	620	10.3	80	8.24	0.0055
R	RP1	3+	2016	600	10.44	80	8.35	0.006
R	RP1	3+	2016	580	10.59	80	8.47	0.0055
R	RP1	3+	2016	560	10.73	80	8.58	0.006
R	RP1	3+	2016	540	10.87	80	8.7	0.006
R	RP1	3+	2016	520	11.02	80	8.82	0.011
R	RP1	3+	2016	500	11.3	80	9.04	0.011
R	RP1	3+	2016	480	11.58	80	9.26	0.012
R	RP1	3+	2016	460	11.87	80	9.5	0.011
R	RP1	3+	2016	440	12.15	80	9.72	0.0115
R	RP1	3+	2016	420	12.44	80	9.95	0.0115
R	RP1	3+	2016	400	12.72	80	10.18	0.011
R	RP1	3+	2016	380	13	80	10.4	0.0115
R	RP1	3+	2016	360	13.29	80	10.63	0.0115
R	RP1	3+	2016	340	13.58	80	10.86	0.0115
R	RP1	3+	2016	320	13.86	80	11.09	0.011
R	RP1	3+	2016	300	14.14	80	11.31	0.0115
R	RP1	3+	2016	280	14.42	80	11.54	0.0115
R	RP1	3+	2016	260	14.71	80	11.77	0.014
R	RP1	3+	2016	240	15.06	80	12.05	0.014
R	RP1	3+	2016	220	15.41	80	12.33	0.014

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	3+	2016	200	15.76	80	12.61	0.02
R	RP1	3+	2016	180	16.26	80	13.01	0.02
R	RP1	3+	2016	160	16.76	80	13.41	0.02
R	RP1	3+	2016	140	17.26	80	13.81	0.02
R	RP1	3+	2016	120	17.76	80	14.21	0.06
R	RP1	3+	2016	100	19.26	80	15.41	0
R	RP1	4-	2016	99999999	7.01	100	7.01	0
R	RP1	4-	2016	5000	7.01	100	7.01	0.00004
R	RP1	4-	2016	4000	7.05	100	7.05	0.00004
R	RP1	4-	2016	3000	7.09	100	7.09	0.00004
R	RP1	4-	2016	2000	7.13	100	7.13	0.0004
R	RP1	4-	2016	1900	7.17	100	7.17	0.0004
R	RP1	4-	2016	1800	7.21	100	7.21	0.0004
R	RP1	4-	2016	1700	7.25	100	7.25	0.0004
R	RP1	4-	2016	1600	7.29	100	7.29	0.0004
R	RP1	4-	2016	1500	7.33	100	7.33	0.0004
R	RP1	4-	2016	1400	7.37	100	7.37	0.0025
R	RP1	4-	2016	1380	7.42	100	7.42	0.0025
R	RP1	4-	2016	1360	7.47	100	7.47	0.0025
R	RP1	4-	2016	1340	7.52	100	7.52	0.0025
R	RP1	4-	2016	1320	7.57	100	7.57	0.0025
R	RP1	4-	2016	1300	7.62	100	7.62	0.0025
R	RP1	4-	2016	1280	7.67	100	7.67	0.0025
R	RP1	4-	2016	1260	7.72	100	7.72	0.003
R	RP1	4-	2016	1240	7.78	100	7.78	0.003
R	RP1	4-	2016	1220	7.84	100	7.84	0.003
R	RP1	4-	2016	1200	7.9	100	7.9	0.003
R	RP1	4-	2016	1180	7.96	100	7.96	0.003
R	RP1	4-	2016	1160	8.02	100	8.02	0.003
R	RP1	4-	2016	1140	8.08	100	8.08	0.003
R	RP1	4-	2016	1120	8.14	100	8.14	0.003
R	RP1	4-	2016	1100	8.2	100	8.2	0.003
R	RP1	4-	2016	1080	8.26	100	8.26	0.0035
R	RP1	4-	2016	1060	8.33	100	8.33	0.0035
R	RP1	4-	2016	1040	8.4	100	8.4	0.0035
R	RP1	4-	2016	1020	8.47	100	8.47	0.0035
R	RP1	4-	2016	1000	8.54	100	8.54	0.0035
R	RP1	4-	2016	980	8.61	100	8.61	0.0035
R	RP1	4-	2016	960	8.68	100	8.68	0.0035
R	RP1	4-	2016	940	8.75	100	8.75	0.004
R	RP1	4-	2016	920	8.83	100	8.83	0.004
R	RP1	4-	2016	900	8.91	100	8.91	0.004
R	RP1	4-	2016	880	8.99	100	8.99	0.004
R	RP1	4-	2016	860	9.07	100	9.07	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	4-	2016	840	9.15	100	9.15	0.004
R	RP1	4-	2016	820	9.23	100	9.23	0.004
R	RP1	4-	2016	800	9.31	100	9.31	0.005
R	RP1	4-	2016	780	9.41	100	9.41	0.005
R	RP1	4-	2016	760	9.51	100	9.51	0.005
R	RP1	4-	2016	740	9.61	100	9.61	0.005
R	RP1	4-	2016	720	9.71	100	9.71	0.005
R	RP1	4-	2016	700	9.81	100	9.81	0.005
R	RP1	4-	2016	680	9.91	100	9.91	0.0055
R	RP1	4-	2016	660	10.02	100	10.02	0.007
R	RP1	4-	2016	640	10.16	100	10.16	0.007
R	RP1	4-	2016	620	10.3	100	10.3	0.007
R	RP1	4-	2016	600	10.44	100	10.44	0.0075
R	RP1	4-	2016	580	10.59	100	10.59	0.007
R	RP1	4-	2016	560	10.73	100	10.73	0.007
R	RP1	4-	2016	540	10.87	100	10.87	0.0075
R	RP1	4-	2016	520	11.02	100	11.02	0.014
R	RP1	4-	2016	500	11.3	100	11.3	0.014
R	RP1	4-	2016	480	11.58	100	11.58	0.0145
R	RP1	4-	2016	460	11.87	100	11.87	0.014
R	RP1	4-	2016	440	12.15	100	12.15	0.0145
R	RP1	4-	2016	420	12.44	100	12.44	0.014
R	RP1	4-	2016	400	12.72	100	12.72	0.014
R	RP1	4-	2016	380	13	100	13	0.0145
R	RP1	4-	2016	360	13.29	100	13.29	0.0145
R	RP1	4-	2016	340	13.58	100	13.58	0.014
R	RP1	4-	2016	320	13.86	100	13.86	0.014
R	RP1	4-	2016	300	14.14	100	14.14	0.014
R	RP1	4-	2016	280	14.42	100	14.42	0.0145
R	RP1	4-	2016	260	14.71	100	14.71	0.0175
R	RP1	4-	2016	240	15.06	100	15.06	0.0175
R	RP1	4-	2016	220	15.41	100	15.41	0.0175
R	RP1	4-	2016	200	15.76	100	15.76	0.025
R	RP1	4-	2016	180	16.26	100	16.26	0.025
R	RP1	4-	2016	160	16.76	100	16.76	0.025
R	RP1	4-	2016	140	17.26	100	17.26	0.025
R	RP1	4-	2016	120	17.76	100	17.76	0.075
R	RP1	4-	2016	100	19.26	100	19.26	0
R	RP1	4+	2016	99999999	7.01	100	7.01	0
R	RP1	4+	2016	5000	7.01	100	7.01	0.00004
R	RP1	4+	2016	4000	7.05	100	7.05	0.00004
R	RP1	4+	2016	3000	7.09	100	7.09	0.00004
R	RP1	4+	2016	2000	7.13	100	7.13	0.0004
R	RP1	4+	2016	1900	7.17	100	7.17	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	4+	2016	1800	7.21	100	7.21	0.0004
R	RP1	4+	2016	1700	7.25	100	7.25	0.0004
R	RP1	4+	2016	1600	7.29	100	7.29	0.0004
R	RP1	4+	2016	1500	7.33	100	7.33	0.0004
R	RP1	4+	2016	1400	7.37	100	7.37	0.0025
R	RP1	4+	2016	1380	7.42	100	7.42	0.0025
R	RP1	4+	2016	1360	7.47	100	7.47	0.0025
R	RP1	4+	2016	1340	7.52	100	7.52	0.0025
R	RP1	4+	2016	1320	7.57	100	7.57	0.0025
R	RP1	4+	2016	1300	7.62	100	7.62	0.0025
R	RP1	4+	2016	1280	7.67	100	7.67	0.0025
R	RP1	4+	2016	1260	7.72	100	7.72	0.003
R	RP1	4+	2016	1240	7.78	100	7.78	0.003
R	RP1	4+	2016	1220	7.84	100	7.84	0.003
R	RP1	4+	2016	1200	7.9	100	7.9	0.003
R	RP1	4+	2016	1180	7.96	100	7.96	0.003
R	RP1	4+	2016	1160	8.02	100	8.02	0.003
R	RP1	4+	2016	1140	8.08	100	8.08	0.003
R	RP1	4+	2016	1120	8.14	100	8.14	0.003
R	RP1	4+	2016	1100	8.2	100	8.2	0.003
R	RP1	4+	2016	1080	8.26	100	8.26	0.0035
R	RP1	4+	2016	1060	8.33	100	8.33	0.0035
R	RP1	4+	2016	1040	8.4	100	8.4	0.0035
R	RP1	4+	2016	1020	8.47	100	8.47	0.0035
R	RP1	4+	2016	1000	8.54	100	8.54	0.0035
R	RP1	4+	2016	980	8.61	100	8.61	0.0035
R	RP1	4+	2016	960	8.68	100	8.68	0.0035
R	RP1	4+	2016	940	8.75	100	8.75	0.004
R	RP1	4+	2016	920	8.83	100	8.83	0.004
R	RP1	4+	2016	900	8.91	100	8.91	0.004
R	RP1	4+	2016	880	8.99	100	8.99	0.004
R	RP1	4+	2016	860	9.07	100	9.07	0.004
R	RP1	4+	2016	840	9.15	100	9.15	0.004
R	RP1	4+	2016	820	9.23	100	9.23	0.004
R	RP1	4+	2016	800	9.31	100	9.31	0.005
R	RP1	4+	2016	780	9.41	100	9.41	0.005
R	RP1	4+	2016	760	9.51	100	9.51	0.005
R	RP1	4+	2016	740	9.61	100	9.61	0.005
R	RP1	4+	2016	720	9.71	100	9.71	0.005
R	RP1	4+	2016	700	9.81	100	9.81	0.005
R	RP1	4+	2016	680	9.91	100	9.91	0.0055
R	RP1	4+	2016	660	10.02	100	10.02	0.007
R	RP1	4+	2016	640	10.16	100	10.16	0.007
R	RP1	4+	2016	620	10.3	100	10.3	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	4+	2016	600	10.44	100	10.44	0.0075
R	RP1	4+	2016	580	10.59	100	10.59	0.007
R	RP1	4+	2016	560	10.73	100	10.73	0.007
R	RP1	4+	2016	540	10.87	100	10.87	0.0075
R	RP1	4+	2016	520	11.02	100	11.02	0.014
R	RP1	4+	2016	500	11.3	100	11.3	0.014
R	RP1	4+	2016	480	11.58	100	11.58	0.0145
R	RP1	4+	2016	460	11.87	100	11.87	0.014
R	RP1	4+	2016	440	12.15	100	12.15	0.0145
R	RP1	4+	2016	420	12.44	100	12.44	0.014
R	RP1	4+	2016	400	12.72	100	12.72	0.014
R	RP1	4+	2016	380	13	100	13	0.0145
R	RP1	4+	2016	360	13.29	100	13.29	0.0145
R	RP1	4+	2016	340	13.58	100	13.58	0.014
R	RP1	4+	2016	320	13.86	100	13.86	0.014
R	RP1	4+	2016	300	14.14	100	14.14	0.014
R	RP1	4+	2016	280	14.42	100	14.42	0.0145
R	RP1	4+	2016	260	14.71	100	14.71	0.0175
R	RP1	4+	2016	240	15.06	100	15.06	0.0175
R	RP1	4+	2016	220	15.41	100	15.41	0.0175
R	RP1	4+	2016	200	15.76	100	15.76	0.025
R	RP1	4+	2016	180	16.26	100	16.26	0.025
R	RP1	4+	2016	160	16.76	100	16.76	0.025
R	RP1	4+	2016	140	17.26	100	17.26	0.025
R	RP1	4+	2016	120	17.76	100	17.76	0.075
R	RP1	4+	2016	100	19.26	100	19.26	0
R	RP1	5-	2016	99999999	7.01	120	8.41	0
R	RP1	5-	2016	5000	7.01	120	8.41	0.00005
R	RP1	5-	2016	4000	7.05	120	8.46	0.00005
R	RP1	5-	2016	3000	7.09	120	8.51	0.00005
R	RP1	5-	2016	2000	7.13	120	8.56	0.0004
R	RP1	5-	2016	1900	7.17	120	8.6	0.0005
R	RP1	5-	2016	1800	7.21	120	8.65	0.0005
R	RP1	5-	2016	1700	7.25	120	8.7	0.0005
R	RP1	5-	2016	1600	7.29	120	8.75	0.0005
R	RP1	5-	2016	1500	7.33	120	8.8	0.0004
R	RP1	5-	2016	1400	7.37	120	8.84	0.003
R	RP1	5-	2016	1380	7.42	120	8.9	0.003
R	RP1	5-	2016	1360	7.47	120	8.96	0.003
R	RP1	5-	2016	1340	7.52	120	9.02	0.003
R	RP1	5-	2016	1320	7.57	120	9.08	0.003
R	RP1	5-	2016	1300	7.62	120	9.14	0.003
R	RP1	5-	2016	1280	7.67	120	9.2	0.003
R	RP1	5-	2016	1260	7.72	120	9.26	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	5-	2016	1240	7.78	120	9.34	0.0035
R	RP1	5-	2016	1220	7.84	120	9.41	0.0035
R	RP1	5-	2016	1200	7.9	120	9.48	0.0035
R	RP1	5-	2016	1180	7.96	120	9.55	0.0035
R	RP1	5-	2016	1160	8.02	120	9.62	0.004
R	RP1	5-	2016	1140	8.08	120	9.7	0.0035
R	RP1	5-	2016	1120	8.14	120	9.77	0.0035
R	RP1	5-	2016	1100	8.2	120	9.84	0.0035
R	RP1	5-	2016	1080	8.26	120	9.91	0.0045
R	RP1	5-	2016	1060	8.33	120	10	0.004
R	RP1	5-	2016	1040	8.4	120	10.08	0.004
R	RP1	5-	2016	1020	8.47	120	10.16	0.0045
R	RP1	5-	2016	1000	8.54	120	10.25	0.004
R	RP1	5-	2016	980	8.61	120	10.33	0.0045
R	RP1	5-	2016	960	8.68	120	10.42	0.004
R	RP1	5-	2016	940	8.75	120	10.5	0.005
R	RP1	5-	2016	920	8.83	120	10.6	0.0045
R	RP1	5-	2016	900	8.91	120	10.69	0.005
R	RP1	5-	2016	880	8.99	120	10.79	0.0045
R	RP1	5-	2016	860	9.07	120	10.88	0.005
R	RP1	5-	2016	840	9.15	120	10.98	0.005
R	RP1	5-	2016	820	9.23	120	11.08	0.0045
R	RP1	5-	2016	800	9.31	120	11.17	0.006
R	RP1	5-	2016	780	9.41	120	11.29	0.006
R	RP1	5-	2016	760	9.51	120	11.41	0.006
R	RP1	5-	2016	740	9.61	120	11.53	0.006
R	RP1	5-	2016	720	9.71	120	11.65	0.006
R	RP1	5-	2016	700	9.81	120	11.77	0.006
R	RP1	5-	2016	680	9.91	120	11.89	0.0065
R	RP1	5-	2016	660	10.02	120	12.02	0.0085
R	RP1	5-	2016	640	10.16	120	12.19	0.0085
R	RP1	5-	2016	620	10.3	120	12.36	0.0085
R	RP1	5-	2016	600	10.44	120	12.53	0.009
R	RP1	5-	2016	580	10.59	120	12.71	0.0085
R	RP1	5-	2016	560	10.73	120	12.88	0.008
R	RP1	5-	2016	540	10.87	120	13.04	0.009
R	RP1	5-	2016	520	11.02	120	13.22	0.017
R	RP1	5-	2016	500	11.3	120	13.56	0.017
R	RP1	5-	2016	480	11.58	120	13.9	0.017
R	RP1	5-	2016	460	11.87	120	14.24	0.017
R	RP1	5-	2016	440	12.15	120	14.58	0.0175
R	RP1	5-	2016	420	12.44	120	14.93	0.0165
R	RP1	5-	2016	400	12.72	120	15.26	0.017
R	RP1	5-	2016	380	13	120	15.6	0.0175

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	5-	2016	360	13.29	120	15.95	0.0175
R	RP1	5-	2016	340	13.58	120	16.3	0.0165
R	RP1	5-	2016	320	13.86	120	16.63	0.017
R	RP1	5-	2016	300	14.14	120	16.97	0.0165
R	RP1	5-	2016	280	14.42	120	17.3	0.0175
R	RP1	5-	2016	260	14.71	120	17.65	0.021
R	RP1	5-	2016	240	15.06	120	18.07	0.021
R	RP1	5-	2016	220	15.41	120	18.49	0.021
R	RP1	5-	2016	200	15.76	120	18.91	0.03
R	RP1	5-	2016	180	16.26	120	19.51	0.03
R	RP1	5-	2016	160	16.76	120	20.11	0.03
R	RP1	5-	2016	140	17.26	120	20.71	0.03
R	RP1	5-	2016	120	17.76	120	21.31	0.09
R	RP1	5-	2016	100	19.26	120	23.11	0
R	RP1	5+	2016	99999999	7.01	120	8.41	0
R	RP1	5+	2016	5000	7.01	120	8.41	0.00005
R	RP1	5+	2016	4000	7.05	120	8.46	0.00005
R	RP1	5+	2016	3000	7.09	120	8.51	0.00005
R	RP1	5+	2016	2000	7.13	120	8.56	0.0004
R	RP1	5+	2016	1900	7.17	120	8.6	0.0005
R	RP1	5+	2016	1800	7.21	120	8.65	0.0005
R	RP1	5+	2016	1700	7.25	120	8.7	0.0005
R	RP1	5+	2016	1600	7.29	120	8.75	0.0005
R	RP1	5+	2016	1500	7.33	120	8.8	0.0004
R	RP1	5+	2016	1400	7.37	120	8.84	0.003
R	RP1	5+	2016	1380	7.42	120	8.9	0.003
R	RP1	5+	2016	1360	7.47	120	8.96	0.003
R	RP1	5+	2016	1340	7.52	120	9.02	0.003
R	RP1	5+	2016	1320	7.57	120	9.08	0.003
R	RP1	5+	2016	1300	7.62	120	9.14	0.003
R	RP1	5+	2016	1280	7.67	120	9.2	0.003
R	RP1	5+	2016	1260	7.72	120	9.26	0.004
R	RP1	5+	2016	1240	7.78	120	9.34	0.0035
R	RP1	5+	2016	1220	7.84	120	9.41	0.0035
R	RP1	5+	2016	1200	7.9	120	9.48	0.0035
R	RP1	5+	2016	1180	7.96	120	9.55	0.0035
R	RP1	5+	2016	1160	8.02	120	9.62	0.004
R	RP1	5+	2016	1140	8.08	120	9.7	0.0035
R	RP1	5+	2016	1120	8.14	120	9.77	0.0035
R	RP1	5+	2016	1100	8.2	120	9.84	0.0035
R	RP1	5+	2016	1080	8.26	120	9.91	0.0045
R	RP1	5+	2016	1060	8.33	120	10	0.004
R	RP1	5+	2016	1040	8.4	120	10.08	0.004
R	RP1	5+	2016	1020	8.47	120	10.16	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	5+	2016	1000	8.54	120	10.25	0.004
R	RP1	5+	2016	980	8.61	120	10.33	0.0045
R	RP1	5+	2016	960	8.68	120	10.42	0.004
R	RP1	5+	2016	940	8.75	120	10.5	0.005
R	RP1	5+	2016	920	8.83	120	10.6	0.0045
R	RP1	5+	2016	900	8.91	120	10.69	0.005
R	RP1	5+	2016	880	8.99	120	10.79	0.0045
R	RP1	5+	2016	860	9.07	120	10.88	0.005
R	RP1	5+	2016	840	9.15	120	10.98	0.005
R	RP1	5+	2016	820	9.23	120	11.08	0.0045
R	RP1	5+	2016	800	9.31	120	11.17	0.006
R	RP1	5+	2016	780	9.41	120	11.29	0.006
R	RP1	5+	2016	760	9.51	120	11.41	0.006
R	RP1	5+	2016	740	9.61	120	11.53	0.006
R	RP1	5+	2016	720	9.71	120	11.65	0.006
R	RP1	5+	2016	700	9.81	120	11.77	0.006
R	RP1	5+	2016	680	9.91	120	11.89	0.0065
R	RP1	5+	2016	660	10.02	120	12.02	0.0085
R	RP1	5+	2016	640	10.16	120	12.19	0.0085
R	RP1	5+	2016	620	10.3	120	12.36	0.0085
R	RP1	5+	2016	600	10.44	120	12.53	0.009
R	RP1	5+	2016	580	10.59	120	12.71	0.0085
R	RP1	5+	2016	560	10.73	120	12.88	0.008
R	RP1	5+	2016	540	10.87	120	13.04	0.009
R	RP1	5+	2016	520	11.02	120	13.22	0.017
R	RP1	5+	2016	500	11.3	120	13.56	0.017
R	RP1	5+	2016	480	11.58	120	13.9	0.017
R	RP1	5+	2016	460	11.87	120	14.24	0.017
R	RP1	5+	2016	440	12.15	120	14.58	0.0175
R	RP1	5+	2016	420	12.44	120	14.93	0.0165
R	RP1	5+	2016	400	12.72	120	15.26	0.017
R	RP1	5+	2016	380	13	120	15.6	0.0175
R	RP1	5+	2016	360	13.29	120	15.95	0.0175
R	RP1	5+	2016	340	13.58	120	16.3	0.0165
R	RP1	5+	2016	320	13.86	120	16.63	0.017
R	RP1	5+	2016	300	14.14	120	16.97	0.0165
R	RP1	5+	2016	280	14.42	120	17.3	0.0175
R	RP1	5+	2016	260	14.71	120	17.65	0.021
R	RP1	5+	2016	240	15.06	120	18.07	0.021
R	RP1	5+	2016	220	15.41	120	18.49	0.021
R	RP1	5+	2016	200	15.76	120	18.91	0.03
R	RP1	5+	2016	180	16.26	120	19.51	0.03
R	RP1	5+	2016	160	16.76	120	20.11	0.03
R	RP1	5+	2016	140	17.26	120	20.71	0.03

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	5+	2016	120	17.76	120	21.31	0.09
R	RP1	5+	2016	100	19.26	120	23.11	0
R	RP1	6-	2016	99999999	7.01	120	8.41	0
R	RP1	6-	2016	5000	7.01	120	8.41	0.00005
R	RP1	6-	2016	4000	7.05	120	8.46	0.00005
R	RP1	6-	2016	3000	7.09	120	8.51	0.00005
R	RP1	6-	2016	2000	7.13	120	8.56	0.0004
R	RP1	6-	2016	1900	7.17	120	8.6	0.0005
R	RP1	6-	2016	1800	7.21	120	8.65	0.0005
R	RP1	6-	2016	1700	7.25	120	8.7	0.0005
R	RP1	6-	2016	1600	7.29	120	8.75	0.0005
R	RP1	6-	2016	1500	7.33	120	8.8	0.0004
R	RP1	6-	2016	1400	7.37	120	8.84	0.003
R	RP1	6-	2016	1380	7.42	120	8.9	0.003
R	RP1	6-	2016	1360	7.47	120	8.96	0.003
R	RP1	6-	2016	1340	7.52	120	9.02	0.003
R	RP1	6-	2016	1320	7.57	120	9.08	0.003
R	RP1	6-	2016	1300	7.62	120	9.14	0.003
R	RP1	6-	2016	1280	7.67	120	9.2	0.003
R	RP1	6-	2016	1260	7.72	120	9.26	0.004
R	RP1	6-	2016	1240	7.78	120	9.34	0.0035
R	RP1	6-	2016	1220	7.84	120	9.41	0.0035
R	RP1	6-	2016	1200	7.9	120	9.48	0.0035
R	RP1	6-	2016	1180	7.96	120	9.55	0.0035
R	RP1	6-	2016	1160	8.02	120	9.62	0.004
R	RP1	6-	2016	1140	8.08	120	9.7	0.0035
R	RP1	6-	2016	1120	8.14	120	9.77	0.0035
R	RP1	6-	2016	1100	8.2	120	9.84	0.0035
R	RP1	6-	2016	1080	8.26	120	9.91	0.0045
R	RP1	6-	2016	1060	8.33	120	10	0.004
R	RP1	6-	2016	1040	8.4	120	10.08	0.004
R	RP1	6-	2016	1020	8.47	120	10.16	0.0045
R	RP1	6-	2016	1000	8.54	120	10.25	0.004
R	RP1	6-	2016	980	8.61	120	10.33	0.0045
R	RP1	6-	2016	960	8.68	120	10.42	0.004
R	RP1	6-	2016	940	8.75	120	10.5	0.005
R	RP1	6-	2016	920	8.83	120	10.6	0.0045
R	RP1	6-	2016	900	8.91	120	10.69	0.005
R	RP1	6-	2016	880	8.99	120	10.79	0.0045
R	RP1	6-	2016	860	9.07	120	10.88	0.005
R	RP1	6-	2016	840	9.15	120	10.98	0.005
R	RP1	6-	2016	820	9.23	120	11.08	0.0045
R	RP1	6-	2016	800	9.31	120	11.17	0.006
R	RP1	6-	2016	780	9.41	120	11.29	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	6-	2016	760	9.51	120	11.41	0.006
R	RP1	6-	2016	740	9.61	120	11.53	0.006
R	RP1	6-	2016	720	9.71	120	11.65	0.006
R	RP1	6-	2016	700	9.81	120	11.77	0.006
R	RP1	6-	2016	680	9.91	120	11.89	0.0065
R	RP1	6-	2016	660	10.02	120	12.02	0.0085
R	RP1	6-	2016	640	10.16	120	12.19	0.0085
R	RP1	6-	2016	620	10.3	120	12.36	0.0085
R	RP1	6-	2016	600	10.44	120	12.53	0.009
R	RP1	6-	2016	580	10.59	120	12.71	0.0085
R	RP1	6-	2016	560	10.73	120	12.88	0.008
R	RP1	6-	2016	540	10.87	120	13.04	0.009
R	RP1	6-	2016	520	11.02	120	13.22	0.017
R	RP1	6-	2016	500	11.3	120	13.56	0.017
R	RP1	6-	2016	480	11.58	120	13.9	0.017
R	RP1	6-	2016	460	11.87	120	14.24	0.017
R	RP1	6-	2016	440	12.15	120	14.58	0.0175
R	RP1	6-	2016	420	12.44	120	14.93	0.0165
R	RP1	6-	2016	400	12.72	120	15.26	0.017
R	RP1	6-	2016	380	13	120	15.6	0.0175
R	RP1	6-	2016	360	13.29	120	15.95	0.0175
R	RP1	6-	2016	340	13.58	120	16.3	0.0165
R	RP1	6-	2016	320	13.86	120	16.63	0.017
R	RP1	6-	2016	300	14.14	120	16.97	0.0165
R	RP1	6-	2016	280	14.42	120	17.3	0.0175
R	RP1	6-	2016	260	14.71	120	17.65	0.021
R	RP1	6-	2016	240	15.06	120	18.07	0.021
R	RP1	6-	2016	220	15.41	120	18.49	0.021
R	RP1	6-	2016	200	15.76	120	18.91	0.03
R	RP1	6-	2016	180	16.26	120	19.51	0.03
R	RP1	6-	2016	160	16.76	120	20.11	0.03
R	RP1	6-	2016	140	17.26	120	20.71	0.03
R	RP1	6-	2016	120	17.76	120	21.31	0.09
R	RP1	6-	2016	100	19.26	120	23.11	0
R	RP1	6+	2016	9999999	7.01	120	8.41	0
R	RP1	6+	2016	5000	7.01	120	8.41	0.00005
R	RP1	6+	2016	4000	7.05	120	8.46	0.00005
R	RP1	6+	2016	3000	7.09	120	8.51	0.00005
R	RP1	6+	2016	2000	7.13	120	8.56	0.0004
R	RP1	6+	2016	1900	7.17	120	8.6	0.0005
R	RP1	6+	2016	1800	7.21	120	8.65	0.0005
R	RP1	6+	2016	1700	7.25	120	8.7	0.0005
R	RP1	6+	2016	1600	7.29	120	8.75	0.0005
R	RP1	6+	2016	1500	7.33	120	8.8	0.0004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	6+	2016	1400	7.37	120	8.84	0.003
R	RP1	6+	2016	1380	7.42	120	8.9	0.003
R	RP1	6+	2016	1360	7.47	120	8.96	0.003
R	RP1	6+	2016	1340	7.52	120	9.02	0.003
R	RP1	6+	2016	1320	7.57	120	9.08	0.003
R	RP1	6+	2016	1300	7.62	120	9.14	0.003
R	RP1	6+	2016	1280	7.67	120	9.2	0.003
R	RP1	6+	2016	1260	7.72	120	9.26	0.004
R	RP1	6+	2016	1240	7.78	120	9.34	0.0035
R	RP1	6+	2016	1220	7.84	120	9.41	0.0035
R	RP1	6+	2016	1200	7.9	120	9.48	0.0035
R	RP1	6+	2016	1180	7.96	120	9.55	0.0035
R	RP1	6+	2016	1160	8.02	120	9.62	0.004
R	RP1	6+	2016	1140	8.08	120	9.7	0.0035
R	RP1	6+	2016	1120	8.14	120	9.77	0.0035
R	RP1	6+	2016	1100	8.2	120	9.84	0.0035
R	RP1	6+	2016	1080	8.26	120	9.91	0.0045
R	RP1	6+	2016	1060	8.33	120	10	0.004
R	RP1	6+	2016	1040	8.4	120	10.08	0.004
R	RP1	6+	2016	1020	8.47	120	10.16	0.0045
R	RP1	6+	2016	1000	8.54	120	10.25	0.004
R	RP1	6+	2016	980	8.61	120	10.33	0.0045
R	RP1	6+	2016	960	8.68	120	10.42	0.004
R	RP1	6+	2016	940	8.75	120	10.5	0.005
R	RP1	6+	2016	920	8.83	120	10.6	0.0045
R	RP1	6+	2016	900	8.91	120	10.69	0.005
R	RP1	6+	2016	880	8.99	120	10.79	0.0045
R	RP1	6+	2016	860	9.07	120	10.88	0.005
R	RP1	6+	2016	840	9.15	120	10.98	0.005
R	RP1	6+	2016	820	9.23	120	11.08	0.0045
R	RP1	6+	2016	800	9.31	120	11.17	0.006
R	RP1	6+	2016	780	9.41	120	11.29	0.006
R	RP1	6+	2016	760	9.51	120	11.41	0.006
R	RP1	6+	2016	740	9.61	120	11.53	0.006
R	RP1	6+	2016	720	9.71	120	11.65	0.006
R	RP1	6+	2016	700	9.81	120	11.77	0.006
R	RP1	6+	2016	680	9.91	120	11.89	0.0065
R	RP1	6+	2016	660	10.02	120	12.02	0.0085
R	RP1	6+	2016	640	10.16	120	12.19	0.0085
R	RP1	6+	2016	620	10.3	120	12.36	0.0085
R	RP1	6+	2016	600	10.44	120	12.53	0.009
R	RP1	6+	2016	580	10.59	120	12.71	0.0085
R	RP1	6+	2016	560	10.73	120	12.88	0.008
R	RP1	6+	2016	540	10.87	120	13.04	0.009

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	6+	2016	520	11.02	120	13.22	0.017
R	RP1	6+	2016	500	11.3	120	13.56	0.017
R	RP1	6+	2016	480	11.58	120	13.9	0.017
R	RP1	6+	2016	460	11.87	120	14.24	0.017
R	RP1	6+	2016	440	12.15	120	14.58	0.0175
R	RP1	6+	2016	420	12.44	120	14.93	0.0165
R	RP1	6+	2016	400	12.72	120	15.26	0.017
R	RP1	6+	2016	380	13	120	15.6	0.0175
R	RP1	6+	2016	360	13.29	120	15.95	0.0175
R	RP1	6+	2016	340	13.58	120	16.3	0.0165
R	RP1	6+	2016	320	13.86	120	16.63	0.017
R	RP1	6+	2016	300	14.14	120	16.97	0.0165
R	RP1	6+	2016	280	14.42	120	17.3	0.0175
R	RP1	6+	2016	260	14.71	120	17.65	0.021
R	RP1	6+	2016	240	15.06	120	18.07	0.021
R	RP1	6+	2016	220	15.41	120	18.49	0.021
R	RP1	6+	2016	200	15.76	120	18.91	0.03
R	RP1	6+	2016	180	16.26	120	19.51	0.03
R	RP1	6+	2016	160	16.76	120	20.11	0.03
R	RP1	6+	2016	140	17.26	120	20.71	0.03
R	RP1	6+	2016	120	17.76	120	21.31	0.09
R	RP1	6+	2016	100	19.26	120	23.11	0
R	RP1	7-	2016	99999999	7.01	120	8.41	0
R	RP1	7-	2016	5000	7.01	120	8.41	0.00005
R	RP1	7-	2016	4000	7.05	120	8.46	0.00005
R	RP1	7-	2016	3000	7.09	120	8.51	0.00005
R	RP1	7-	2016	2000	7.13	120	8.56	0.0004
R	RP1	7-	2016	1900	7.17	120	8.6	0.0005
R	RP1	7-	2016	1800	7.21	120	8.65	0.0005
R	RP1	7-	2016	1700	7.25	120	8.7	0.0005
R	RP1	7-	2016	1600	7.29	120	8.75	0.0005
R	RP1	7-	2016	1500	7.33	120	8.8	0.0004
R	RP1	7-	2016	1400	7.37	120	8.84	0.003
R	RP1	7-	2016	1380	7.42	120	8.9	0.003
R	RP1	7-	2016	1360	7.47	120	8.96	0.003
R	RP1	7-	2016	1340	7.52	120	9.02	0.003
R	RP1	7-	2016	1320	7.57	120	9.08	0.003
R	RP1	7-	2016	1300	7.62	120	9.14	0.003
R	RP1	7-	2016	1280	7.67	120	9.2	0.003
R	RP1	7-	2016	1260	7.72	120	9.26	0.004
R	RP1	7-	2016	1240	7.78	120	9.34	0.0035
R	RP1	7-	2016	1220	7.84	120	9.41	0.0035
R	RP1	7-	2016	1200	7.9	120	9.48	0.0035
R	RP1	7-	2016	1180	7.96	120	9.55	0.0035

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	7-	2016	1160	8.02	120	9.62	0.004
R	RP1	7-	2016	1140	8.08	120	9.7	0.0035
R	RP1	7-	2016	1120	8.14	120	9.77	0.0035
R	RP1	7-	2016	1100	8.2	120	9.84	0.0035
R	RP1	7-	2016	1080	8.26	120	9.91	0.0045
R	RP1	7-	2016	1060	8.33	120	10	0.004
R	RP1	7-	2016	1040	8.4	120	10.08	0.004
R	RP1	7-	2016	1020	8.47	120	10.16	0.0045
R	RP1	7-	2016	1000	8.54	120	10.25	0.004
R	RP1	7-	2016	980	8.61	120	10.33	0.0045
R	RP1	7-	2016	960	8.68	120	10.42	0.004
R	RP1	7-	2016	940	8.75	120	10.5	0.005
R	RP1	7-	2016	920	8.83	120	10.6	0.0045
R	RP1	7-	2016	900	8.91	120	10.69	0.005
R	RP1	7-	2016	880	8.99	120	10.79	0.0045
R	RP1	7-	2016	860	9.07	120	10.88	0.005
R	RP1	7-	2016	840	9.15	120	10.98	0.005
R	RP1	7-	2016	820	9.23	120	11.08	0.0045
R	RP1	7-	2016	800	9.31	120	11.17	0.006
R	RP1	7-	2016	780	9.41	120	11.29	0.006
R	RP1	7-	2016	760	9.51	120	11.41	0.006
R	RP1	7-	2016	740	9.61	120	11.53	0.006
R	RP1	7-	2016	720	9.71	120	11.65	0.006
R	RP1	7-	2016	700	9.81	120	11.77	0.006
R	RP1	7-	2016	680	9.91	120	11.89	0.0065
R	RP1	7-	2016	660	10.02	120	12.02	0.0085
R	RP1	7-	2016	640	10.16	120	12.19	0.0085
R	RP1	7-	2016	620	10.3	120	12.36	0.0085
R	RP1	7-	2016	600	10.44	120	12.53	0.009
R	RP1	7-	2016	580	10.59	120	12.71	0.0085
R	RP1	7-	2016	560	10.73	120	12.88	0.008
R	RP1	7-	2016	540	10.87	120	13.04	0.009
R	RP1	7-	2016	520	11.02	120	13.22	0.017
R	RP1	7-	2016	500	11.3	120	13.56	0.017
R	RP1	7-	2016	480	11.58	120	13.9	0.017
R	RP1	7-	2016	460	11.87	120	14.24	0.017
R	RP1	7-	2016	440	12.15	120	14.58	0.0175
R	RP1	7-	2016	420	12.44	120	14.93	0.0165
R	RP1	7-	2016	400	12.72	120	15.26	0.017
R	RP1	7-	2016	380	13	120	15.6	0.0175
R	RP1	7-	2016	360	13.29	120	15.95	0.0175
R	RP1	7-	2016	340	13.58	120	16.3	0.0165
R	RP1	7-	2016	320	13.86	120	16.63	0.017
R	RP1	7-	2016	300	14.14	120	16.97	0.0165

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	7-	2016	280	14.42	120	17.3	0.0175
R	RP1	7-	2016	260	14.71	120	17.65	0.021
R	RP1	7-	2016	240	15.06	120	18.07	0.021
R	RP1	7-	2016	220	15.41	120	18.49	0.021
R	RP1	7-	2016	200	15.76	120	18.91	0.03
R	RP1	7-	2016	180	16.26	120	19.51	0.03
R	RP1	7-	2016	160	16.76	120	20.11	0.03
R	RP1	7-	2016	140	17.26	120	20.71	0.03
R	RP1	7-	2016	120	17.76	120	21.31	0.09
R	RP1	7-	2016	100	19.26	120	23.11	0
R	RP1	7+	2016	9999999	7.01	120	8.41	0
R	RP1	7+	2016	5000	7.01	120	8.41	0.00005
R	RP1	7+	2016	4000	7.05	120	8.46	0.00005
R	RP1	7+	2016	3000	7.09	120	8.51	0.00005
R	RP1	7+	2016	2000	7.13	120	8.56	0.0004
R	RP1	7+	2016	1900	7.17	120	8.6	0.0005
R	RP1	7+	2016	1800	7.21	120	8.65	0.0005
R	RP1	7+	2016	1700	7.25	120	8.7	0.0005
R	RP1	7+	2016	1600	7.29	120	8.75	0.0005
R	RP1	7+	2016	1500	7.33	120	8.8	0.0004
R	RP1	7+	2016	1400	7.37	120	8.84	0.003
R	RP1	7+	2016	1380	7.42	120	8.9	0.003
R	RP1	7+	2016	1360	7.47	120	8.96	0.003
R	RP1	7+	2016	1340	7.52	120	9.02	0.003
R	RP1	7+	2016	1320	7.57	120	9.08	0.003
R	RP1	7+	2016	1300	7.62	120	9.14	0.003
R	RP1	7+	2016	1280	7.67	120	9.2	0.003
R	RP1	7+	2016	1260	7.72	120	9.26	0.004
R	RP1	7+	2016	1240	7.78	120	9.34	0.0035
R	RP1	7+	2016	1220	7.84	120	9.41	0.0035
R	RP1	7+	2016	1200	7.9	120	9.48	0.0035
R	RP1	7+	2016	1180	7.96	120	9.55	0.0035
R	RP1	7+	2016	1160	8.02	120	9.62	0.004
R	RP1	7+	2016	1140	8.08	120	9.7	0.0035
R	RP1	7+	2016	1120	8.14	120	9.77	0.0035
R	RP1	7+	2016	1100	8.2	120	9.84	0.0035
R	RP1	7+	2016	1080	8.26	120	9.91	0.0045
R	RP1	7+	2016	1060	8.33	120	10	0.004
R	RP1	7+	2016	1040	8.4	120	10.08	0.004
R	RP1	7+	2016	1020	8.47	120	10.16	0.0045
R	RP1	7+	2016	1000	8.54	120	10.25	0.004
R	RP1	7+	2016	980	8.61	120	10.33	0.0045
R	RP1	7+	2016	960	8.68	120	10.42	0.004
R	RP1	7+	2016	940	8.75	120	10.5	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	7+	2016	920	8.83	120	10.6	0.0045
R	RP1	7+	2016	900	8.91	120	10.69	0.005
R	RP1	7+	2016	880	8.99	120	10.79	0.0045
R	RP1	7+	2016	860	9.07	120	10.88	0.005
R	RP1	7+	2016	840	9.15	120	10.98	0.005
R	RP1	7+	2016	820	9.23	120	11.08	0.0045
R	RP1	7+	2016	800	9.31	120	11.17	0.006
R	RP1	7+	2016	780	9.41	120	11.29	0.006
R	RP1	7+	2016	760	9.51	120	11.41	0.006
R	RP1	7+	2016	740	9.61	120	11.53	0.006
R	RP1	7+	2016	720	9.71	120	11.65	0.006
R	RP1	7+	2016	700	9.81	120	11.77	0.006
R	RP1	7+	2016	680	9.91	120	11.89	0.0065
R	RP1	7+	2016	660	10.02	120	12.02	0.0085
R	RP1	7+	2016	640	10.16	120	12.19	0.0085
R	RP1	7+	2016	620	10.3	120	12.36	0.0085
R	RP1	7+	2016	600	10.44	120	12.53	0.009
R	RP1	7+	2016	580	10.59	120	12.71	0.0085
R	RP1	7+	2016	560	10.73	120	12.88	0.008
R	RP1	7+	2016	540	10.87	120	13.04	0.009
R	RP1	7+	2016	520	11.02	120	13.22	0.017
R	RP1	7+	2016	500	11.3	120	13.56	0.017
R	RP1	7+	2016	480	11.58	120	13.9	0.017
R	RP1	7+	2016	460	11.87	120	14.24	0.017
R	RP1	7+	2016	440	12.15	120	14.58	0.0175
R	RP1	7+	2016	420	12.44	120	14.93	0.0165
R	RP1	7+	2016	400	12.72	120	15.26	0.017
R	RP1	7+	2016	380	13	120	15.6	0.0175
R	RP1	7+	2016	360	13.29	120	15.95	0.0175
R	RP1	7+	2016	340	13.58	120	16.3	0.0165
R	RP1	7+	2016	320	13.86	120	16.63	0.017
R	RP1	7+	2016	300	14.14	120	16.97	0.0165
R	RP1	7+	2016	280	14.42	120	17.3	0.0175
R	RP1	7+	2016	260	14.71	120	17.65	0.021
R	RP1	7+	2016	240	15.06	120	18.07	0.021
R	RP1	7+	2016	220	15.41	120	18.49	0.021
R	RP1	7+	2016	200	15.76	120	18.91	0.03
R	RP1	7+	2016	180	16.26	120	19.51	0.03
R	RP1	7+	2016	160	16.76	120	20.11	0.03
R	RP1	7+	2016	140	17.26	120	20.71	0.03
R	RP1	7+	2016	120	17.76	120	21.31	0.09
R	RP1	7+	2016	100	19.26	120	23.11	0
R	RP1	8-	2016	9999999	7.01	120	8.41	0
R	RP1	8-	2016	5000	7.01	120	8.41	0.00005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8-	2016	4000	7.05	120	8.46	0.00005
R	RP1	8-	2016	3000	7.09	120	8.51	0.00005
R	RP1	8-	2016	2000	7.13	120	8.56	0.0004
R	RP1	8-	2016	1900	7.17	120	8.6	0.0005
R	RP1	8-	2016	1800	7.21	120	8.65	0.0005
R	RP1	8-	2016	1700	7.25	120	8.7	0.0005
R	RP1	8-	2016	1600	7.29	120	8.75	0.0005
R	RP1	8-	2016	1500	7.33	120	8.8	0.0004
R	RP1	8-	2016	1400	7.37	120	8.84	0.003
R	RP1	8-	2016	1380	7.42	120	8.9	0.003
R	RP1	8-	2016	1360	7.47	120	8.96	0.003
R	RP1	8-	2016	1340	7.52	120	9.02	0.003
R	RP1	8-	2016	1320	7.57	120	9.08	0.003
R	RP1	8-	2016	1300	7.62	120	9.14	0.003
R	RP1	8-	2016	1280	7.67	120	9.2	0.003
R	RP1	8-	2016	1260	7.72	120	9.26	0.004
R	RP1	8-	2016	1240	7.78	120	9.34	0.0035
R	RP1	8-	2016	1220	7.84	120	9.41	0.0035
R	RP1	8-	2016	1200	7.9	120	9.48	0.0035
R	RP1	8-	2016	1180	7.96	120	9.55	0.0035
R	RP1	8-	2016	1160	8.02	120	9.62	0.004
R	RP1	8-	2016	1140	8.08	120	9.7	0.0035
R	RP1	8-	2016	1120	8.14	120	9.77	0.0035
R	RP1	8-	2016	1100	8.2	120	9.84	0.0035
R	RP1	8-	2016	1080	8.26	120	9.91	0.0045
R	RP1	8-	2016	1060	8.33	120	10	0.004
R	RP1	8-	2016	1040	8.4	120	10.08	0.004
R	RP1	8-	2016	1020	8.47	120	10.16	0.0045
R	RP1	8-	2016	1000	8.54	120	10.25	0.004
R	RP1	8-	2016	980	8.61	120	10.33	0.0045
R	RP1	8-	2016	960	8.68	120	10.42	0.004
R	RP1	8-	2016	940	8.75	120	10.5	0.005
R	RP1	8-	2016	920	8.83	120	10.6	0.0045
R	RP1	8-	2016	900	8.91	120	10.69	0.005
R	RP1	8-	2016	880	8.99	120	10.79	0.0045
R	RP1	8-	2016	860	9.07	120	10.88	0.005
R	RP1	8-	2016	840	9.15	120	10.98	0.005
R	RP1	8-	2016	820	9.23	120	11.08	0.0045
R	RP1	8-	2016	800	9.31	120	11.17	0.006
R	RP1	8-	2016	780	9.41	120	11.29	0.006
R	RP1	8-	2016	760	9.51	120	11.41	0.006
R	RP1	8-	2016	740	9.61	120	11.53	0.006
R	RP1	8-	2016	720	9.71	120	11.65	0.006
R	RP1	8-	2016	700	9.81	120	11.77	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8-	2016	680	9.91	120	11.89	0.0065
R	RP1	8-	2016	660	10.02	120	12.02	0.0085
R	RP1	8-	2016	640	10.16	120	12.19	0.0085
R	RP1	8-	2016	620	10.3	120	12.36	0.0085
R	RP1	8-	2016	600	10.44	120	12.53	0.009
R	RP1	8-	2016	580	10.59	120	12.71	0.0085
R	RP1	8-	2016	560	10.73	120	12.88	0.008
R	RP1	8-	2016	540	10.87	120	13.04	0.009
R	RP1	8-	2016	520	11.02	120	13.22	0.017
R	RP1	8-	2016	500	11.3	120	13.56	0.017
R	RP1	8-	2016	480	11.58	120	13.9	0.017
R	RP1	8-	2016	460	11.87	120	14.24	0.017
R	RP1	8-	2016	440	12.15	120	14.58	0.0175
R	RP1	8-	2016	420	12.44	120	14.93	0.0165
R	RP1	8-	2016	400	12.72	120	15.26	0.017
R	RP1	8-	2016	380	13	120	15.6	0.0175
R	RP1	8-	2016	360	13.29	120	15.95	0.0175
R	RP1	8-	2016	340	13.58	120	16.3	0.0165
R	RP1	8-	2016	320	13.86	120	16.63	0.017
R	RP1	8-	2016	300	14.14	120	16.97	0.0165
R	RP1	8-	2016	280	14.42	120	17.3	0.0175
R	RP1	8-	2016	260	14.71	120	17.65	0.021
R	RP1	8-	2016	240	15.06	120	18.07	0.021
R	RP1	8-	2016	220	15.41	120	18.49	0.021
R	RP1	8-	2016	200	15.76	120	18.91	0.03
R	RP1	8-	2016	180	16.26	120	19.51	0.03
R	RP1	8-	2016	160	16.76	120	20.11	0.03
R	RP1	8-	2016	140	17.26	120	20.71	0.03
R	RP1	8-	2016	120	17.76	120	21.31	0.09
R	RP1	8-	2016	100	19.26	120	23.11	0
R	RP1	8+	2016	99999999	7.01	120	8.41	0
R	RP1	8+	2016	5000	7.01	120	8.41	0.00005
R	RP1	8+	2016	4000	7.05	120	8.46	0.00005
R	RP1	8+	2016	3000	7.09	120	8.51	0.00005
R	RP1	8+	2016	2000	7.13	120	8.56	0.0004
R	RP1	8+	2016	1900	7.17	120	8.6	0.0005
R	RP1	8+	2016	1800	7.21	120	8.65	0.0005
R	RP1	8+	2016	1700	7.25	120	8.7	0.0005
R	RP1	8+	2016	1600	7.29	120	8.75	0.0005
R	RP1	8+	2016	1500	7.33	120	8.8	0.0004
R	RP1	8+	2016	1400	7.37	120	8.84	0.003
R	RP1	8+	2016	1380	7.42	120	8.9	0.003
R	RP1	8+	2016	1360	7.47	120	8.96	0.003
R	RP1	8+	2016	1340	7.52	120	9.02	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8+	2016	1320	7.57	120	9.08	0.003
R	RP1	8+	2016	1300	7.62	120	9.14	0.003
R	RP1	8+	2016	1280	7.67	120	9.2	0.003
R	RP1	8+	2016	1260	7.72	120	9.26	0.004
R	RP1	8+	2016	1240	7.78	120	9.34	0.0035
R	RP1	8+	2016	1220	7.84	120	9.41	0.0035
R	RP1	8+	2016	1200	7.9	120	9.48	0.0035
R	RP1	8+	2016	1180	7.96	120	9.55	0.0035
R	RP1	8+	2016	1160	8.02	120	9.62	0.004
R	RP1	8+	2016	1140	8.08	120	9.7	0.0035
R	RP1	8+	2016	1120	8.14	120	9.77	0.0035
R	RP1	8+	2016	1100	8.2	120	9.84	0.0035
R	RP1	8+	2016	1080	8.26	120	9.91	0.0045
R	RP1	8+	2016	1060	8.33	120	10	0.004
R	RP1	8+	2016	1040	8.4	120	10.08	0.004
R	RP1	8+	2016	1020	8.47	120	10.16	0.0045
R	RP1	8+	2016	1000	8.54	120	10.25	0.004
R	RP1	8+	2016	980	8.61	120	10.33	0.0045
R	RP1	8+	2016	960	8.68	120	10.42	0.004
R	RP1	8+	2016	940	8.75	120	10.5	0.005
R	RP1	8+	2016	920	8.83	120	10.6	0.0045
R	RP1	8+	2016	900	8.91	120	10.69	0.005
R	RP1	8+	2016	880	8.99	120	10.79	0.0045
R	RP1	8+	2016	860	9.07	120	10.88	0.005
R	RP1	8+	2016	840	9.15	120	10.98	0.005
R	RP1	8+	2016	820	9.23	120	11.08	0.0045
R	RP1	8+	2016	800	9.31	120	11.17	0.006
R	RP1	8+	2016	780	9.41	120	11.29	0.006
R	RP1	8+	2016	760	9.51	120	11.41	0.006
R	RP1	8+	2016	740	9.61	120	11.53	0.006
R	RP1	8+	2016	720	9.71	120	11.65	0.006
R	RP1	8+	2016	700	9.81	120	11.77	0.006
R	RP1	8+	2016	680	9.91	120	11.89	0.0065
R	RP1	8+	2016	660	10.02	120	12.02	0.0085
R	RP1	8+	2016	640	10.16	120	12.19	0.0085
R	RP1	8+	2016	620	10.3	120	12.36	0.0085
R	RP1	8+	2016	600	10.44	120	12.53	0.009
R	RP1	8+	2016	580	10.59	120	12.71	0.0085
R	RP1	8+	2016	560	10.73	120	12.88	0.008
R	RP1	8+	2016	540	10.87	120	13.04	0.009
R	RP1	8+	2016	520	11.02	120	13.22	0.017
R	RP1	8+	2016	500	11.3	120	13.56	0.017
R	RP1	8+	2016	480	11.58	120	13.9	0.017
R	RP1	8+	2016	460	11.87	120	14.24	0.017

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP1	8+	2016	440	12.15	120	14.58	0.0175
R	RP1	8+	2016	420	12.44	120	14.93	0.0165
R	RP1	8+	2016	400	12.72	120	15.26	0.017
R	RP1	8+	2016	380	13	120	15.6	0.0175
R	RP1	8+	2016	360	13.29	120	15.95	0.0175
R	RP1	8+	2016	340	13.58	120	16.3	0.0165
R	RP1	8+	2016	320	13.86	120	16.63	0.017
R	RP1	8+	2016	300	14.14	120	16.97	0.0165
R	RP1	8+	2016	280	14.42	120	17.3	0.0175
R	RP1	8+	2016	260	14.71	120	17.65	0.021
R	RP1	8+	2016	240	15.06	120	18.07	0.021
R	RP1	8+	2016	220	15.41	120	18.49	0.021
R	RP1	8+	2016	200	15.76	120	18.91	0.03
R	RP1	8+	2016	180	16.26	120	19.51	0.03
R	RP1	8+	2016	160	16.76	120	20.11	0.03
R	RP1	8+	2016	140	17.26	120	20.71	0.03
R	RP1	8+	2016	120	17.76	120	21.31	0.09
R	RP1	8+	2016	100	19.26	120	23.11	0
R	RP2	1	2016	99999999	7.97	80	6.38	0
R	RP2	1	2016	1400	7.97	80	6.38	0.0015
R	RP2	1	2016	1380	8.01	80	6.41	0.0015
R	RP2	1	2016	1360	8.05	80	6.44	0.0015
R	RP2	1	2016	1340	8.09	80	6.47	0.0015
R	RP2	1	2016	1320	8.13	80	6.5	0.002
R	RP2	1	2016	1300	8.17	80	6.54	0.0015
R	RP2	1	2016	1280	8.21	80	6.57	0.0015
R	RP2	1	2016	1260	8.25	80	6.6	0.003
R	RP2	1	2016	1240	8.32	80	6.66	0.002
R	RP2	1	2016	1220	8.38	80	6.7	0.003
R	RP2	1	2016	1200	8.45	80	6.76	0.0025
R	RP2	1	2016	1180	8.51	80	6.81	0.0025
R	RP2	1	2016	1160	8.58	80	6.86	0.0025
R	RP2	1	2016	1140	8.64	80	6.91	0.003
R	RP2	1	2016	1120	8.71	80	6.97	0.003
R	RP2	1	2016	1100	8.79	80	7.03	0.0035
R	RP2	1	2016	1080	8.88	80	7.1	0.0035
R	RP2	1	2016	1060	8.96	80	7.17	0.0035
R	RP2	1	2016	1040	9.05	80	7.24	0.003
R	RP2	1	2016	1020	9.13	80	7.3	0.004
R	RP2	1	2016	1000	9.22	80	7.38	0.003
R	RP2	1	2016	980	9.3	80	7.44	0.0035
R	RP2	1	2016	960	9.39	80	7.51	0.004
R	RP2	1	2016	940	9.49	80	7.59	0.004
R	RP2	1	2016	920	9.59	80	7.67	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	1	2016	900	9.7	80	7.76	0.004
R	RP2	1	2016	880	9.8	80	7.84	0.004
R	RP2	1	2016	860	9.9	80	7.92	0.004
R	RP2	1	2016	840	10	80	8	0.004
R	RP2	1	2016	820	10.1	80	8.08	0.0045
R	RP2	1	2016	800	10.21	80	8.17	0.005
R	RP2	1	2016	780	10.34	80	8.27	0.0055
R	RP2	1	2016	760	10.48	80	8.38	0.0055
R	RP2	1	2016	740	10.61	80	8.49	0.0055
R	RP2	1	2016	720	10.75	80	8.6	0.005
R	RP2	1	2016	700	10.88	80	8.7	0.006
R	RP2	1	2016	680	11.02	80	8.82	0.0055
R	RP2	1	2016	660	11.16	80	8.93	0.0075
R	RP2	1	2016	640	11.35	80	9.08	0.0075
R	RP2	1	2016	620	11.54	80	9.23	0.0075
R	RP2	1	2016	600	11.73	80	9.38	0.008
R	RP2	1	2016	580	11.92	80	9.54	0.0075
R	RP2	1	2016	560	12.11	80	9.69	0.0075
R	RP2	1	2016	540	12.3	80	9.84	0.0075
R	RP2	1	2016	520	12.49	80	9.99	0.016
R	RP2	1	2016	500	12.89	80	10.31	0.0165
R	RP2	1	2016	480	13.3	80	10.64	0.016
R	RP2	1	2016	460	13.7	80	10.96	0.0165
R	RP2	1	2016	440	14.11	80	11.29	0.0165
R	RP2	1	2016	420	14.52	80	11.62	0.016
R	RP2	1	2016	400	14.92	80	11.94	0.016
R	RP2	1	2016	380	15.33	80	12.26	0.016
R	RP2	1	2016	360	15.73	80	12.58	0.017
R	RP2	1	2016	340	16.15	80	12.92	0.028
R	RP2	1	2016	320	16.85	80	13.48	0.028
R	RP2	1	2016	300	17.55	80	14.04	0.028
R	RP2	1	2016	280	18.25	80	14.6	0.028
R	RP2	1	2016	260	18.95	80	15.16	0.0285
R	RP2	1	2016	240	19.66	80	15.73	0.0425
R	RP2	1	2016	220	20.72	80	16.58	0.044
R	RP2	1	2016	200	21.83	80	17.46	0.0445
R	RP2	1	2016	180	22.94	80	18.35	0.0445
R	RP2	1	2016	160	24.05	80	19.24	0.098
R	RP2	1	2016	140	26.5	80	21.2	0.092
R	RP2	1	2016	120	28.8	80	23.04	0.134
R	RP2	1	2016	100	32.15	80	25.72	0
R	RP2	2	2016	9999999	7.97	80	6.38	0
R	RP2	2	2016	1400	7.97	80	6.38	0.0015
R	RP2	2	2016	1380	8.01	80	6.41	0.0015

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	2	2016	1360	8.05	80	6.44	0.0015
R	RP2	2	2016	1340	8.09	80	6.47	0.0015
R	RP2	2	2016	1320	8.13	80	6.5	0.002
R	RP2	2	2016	1300	8.17	80	6.54	0.0015
R	RP2	2	2016	1280	8.21	80	6.57	0.0015
R	RP2	2	2016	1260	8.25	80	6.6	0.003
R	RP2	2	2016	1240	8.32	80	6.66	0.002
R	RP2	2	2016	1220	8.38	80	6.7	0.003
R	RP2	2	2016	1200	8.45	80	6.76	0.0025
R	RP2	2	2016	1180	8.51	80	6.81	0.0025
R	RP2	2	2016	1160	8.58	80	6.86	0.0025
R	RP2	2	2016	1140	8.64	80	6.91	0.003
R	RP2	2	2016	1120	8.71	80	6.97	0.003
R	RP2	2	2016	1100	8.79	80	7.03	0.0035
R	RP2	2	2016	1080	8.88	80	7.1	0.0035
R	RP2	2	2016	1060	8.96	80	7.17	0.0035
R	RP2	2	2016	1040	9.05	80	7.24	0.003
R	RP2	2	2016	1020	9.13	80	7.3	0.004
R	RP2	2	2016	1000	9.22	80	7.38	0.003
R	RP2	2	2016	980	9.3	80	7.44	0.0035
R	RP2	2	2016	960	9.39	80	7.51	0.004
R	RP2	2	2016	940	9.49	80	7.59	0.004
R	RP2	2	2016	920	9.59	80	7.67	0.0045
R	RP2	2	2016	900	9.7	80	7.76	0.004
R	RP2	2	2016	880	9.8	80	7.84	0.004
R	RP2	2	2016	860	9.9	80	7.92	0.004
R	RP2	2	2016	840	10	80	8	0.004
R	RP2	2	2016	820	10.1	80	8.08	0.0045
R	RP2	2	2016	800	10.21	80	8.17	0.005
R	RP2	2	2016	780	10.34	80	8.27	0.0055
R	RP2	2	2016	760	10.48	80	8.38	0.0055
R	RP2	2	2016	740	10.61	80	8.49	0.0055
R	RP2	2	2016	720	10.75	80	8.6	0.005
R	RP2	2	2016	700	10.88	80	8.7	0.006
R	RP2	2	2016	680	11.02	80	8.82	0.0055
R	RP2	2	2016	660	11.16	80	8.93	0.0075
R	RP2	2	2016	640	11.35	80	9.08	0.0075
R	RP2	2	2016	620	11.54	80	9.23	0.0075
R	RP2	2	2016	600	11.73	80	9.38	0.008
R	RP2	2	2016	580	11.92	80	9.54	0.0075
R	RP2	2	2016	560	12.11	80	9.69	0.0075
R	RP2	2	2016	540	12.3	80	9.84	0.0075
R	RP2	2	2016	520	12.49	80	9.99	0.016
R	RP2	2	2016	500	12.89	80	10.31	0.0165

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	2	2016	480	13.3	80	10.64	0.016
R	RP2	2	2016	460	13.7	80	10.96	0.0165
R	RP2	2	2016	440	14.11	80	11.29	0.0165
R	RP2	2	2016	420	14.52	80	11.62	0.016
R	RP2	2	2016	400	14.92	80	11.94	0.016
R	RP2	2	2016	380	15.33	80	12.26	0.016
R	RP2	2	2016	360	15.73	80	12.58	0.017
R	RP2	2	2016	340	16.15	80	12.92	0.028
R	RP2	2	2016	320	16.85	80	13.48	0.028
R	RP2	2	2016	300	17.55	80	14.04	0.028
R	RP2	2	2016	280	18.25	80	14.6	0.028
R	RP2	2	2016	260	18.95	80	15.16	0.0285
R	RP2	2	2016	240	19.66	80	15.73	0.0425
R	RP2	2	2016	220	20.72	80	16.58	0.044
R	RP2	2	2016	200	21.83	80	17.46	0.0445
R	RP2	2	2016	180	22.94	80	18.35	0.0445
R	RP2	2	2016	160	24.05	80	19.24	0.098
R	RP2	2	2016	140	26.5	80	21.2	0.092
R	RP2	2	2016	120	28.8	80	23.04	0.134
R	RP2	2	2016	100	32.15	80	25.72	0
R	RP2	3	2016	99999999	7.97	80	6.38	0
R	RP2	3	2016	1400	7.97	80	6.38	0.0015
R	RP2	3	2016	1380	8.01	80	6.41	0.0015
R	RP2	3	2016	1360	8.05	80	6.44	0.0015
R	RP2	3	2016	1340	8.09	80	6.47	0.0015
R	RP2	3	2016	1320	8.13	80	6.5	0.002
R	RP2	3	2016	1300	8.17	80	6.54	0.0015
R	RP2	3	2016	1280	8.21	80	6.57	0.0015
R	RP2	3	2016	1260	8.25	80	6.6	0.003
R	RP2	3	2016	1240	8.32	80	6.66	0.002
R	RP2	3	2016	1220	8.38	80	6.7	0.003
R	RP2	3	2016	1200	8.45	80	6.76	0.0025
R	RP2	3	2016	1180	8.51	80	6.81	0.0025
R	RP2	3	2016	1160	8.58	80	6.86	0.0025
R	RP2	3	2016	1140	8.64	80	6.91	0.003
R	RP2	3	2016	1120	8.71	80	6.97	0.003
R	RP2	3	2016	1100	8.79	80	7.03	0.0035
R	RP2	3	2016	1080	8.88	80	7.1	0.0035
R	RP2	3	2016	1060	8.96	80	7.17	0.0035
R	RP2	3	2016	1040	9.05	80	7.24	0.003
R	RP2	3	2016	1020	9.13	80	7.3	0.004
R	RP2	3	2016	1000	9.22	80	7.38	0.003
R	RP2	3	2016	980	9.3	80	7.44	0.0035
R	RP2	3	2016	960	9.39	80	7.51	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	3	2016	940	9.49	80	7.59	0.004
R	RP2	3	2016	920	9.59	80	7.67	0.0045
R	RP2	3	2016	900	9.7	80	7.76	0.004
R	RP2	3	2016	880	9.8	80	7.84	0.004
R	RP2	3	2016	860	9.9	80	7.92	0.004
R	RP2	3	2016	840	10	80	8	0.004
R	RP2	3	2016	820	10.1	80	8.08	0.0045
R	RP2	3	2016	800	10.21	80	8.17	0.005
R	RP2	3	2016	780	10.34	80	8.27	0.0055
R	RP2	3	2016	760	10.48	80	8.38	0.0055
R	RP2	3	2016	740	10.61	80	8.49	0.0055
R	RP2	3	2016	720	10.75	80	8.6	0.005
R	RP2	3	2016	700	10.88	80	8.7	0.006
R	RP2	3	2016	680	11.02	80	8.82	0.0055
R	RP2	3	2016	660	11.16	80	8.93	0.0075
R	RP2	3	2016	640	11.35	80	9.08	0.0075
R	RP2	3	2016	620	11.54	80	9.23	0.0075
R	RP2	3	2016	600	11.73	80	9.38	0.008
R	RP2	3	2016	580	11.92	80	9.54	0.0075
R	RP2	3	2016	560	12.11	80	9.69	0.0075
R	RP2	3	2016	540	12.3	80	9.84	0.0075
R	RP2	3	2016	520	12.49	80	9.99	0.016
R	RP2	3	2016	500	12.89	80	10.31	0.0165
R	RP2	3	2016	480	13.3	80	10.64	0.016
R	RP2	3	2016	460	13.7	80	10.96	0.0165
R	RP2	3	2016	440	14.11	80	11.29	0.0165
R	RP2	3	2016	420	14.52	80	11.62	0.016
R	RP2	3	2016	400	14.92	80	11.94	0.016
R	RP2	3	2016	380	15.33	80	12.26	0.016
R	RP2	3	2016	360	15.73	80	12.58	0.017
R	RP2	3	2016	340	16.15	80	12.92	0.028
R	RP2	3	2016	320	16.85	80	13.48	0.028
R	RP2	3	2016	300	17.55	80	14.04	0.028
R	RP2	3	2016	280	18.25	80	14.6	0.028
R	RP2	3	2016	260	18.95	80	15.16	0.0285
R	RP2	3	2016	240	19.66	80	15.73	0.0425
R	RP2	3	2016	220	20.72	80	16.58	0.044
R	RP2	3	2016	200	21.83	80	17.46	0.0445
R	RP2	3	2016	180	22.94	80	18.35	0.0445
R	RP2	3	2016	160	24.05	80	19.24	0.098
R	RP2	3	2016	140	26.5	80	21.2	0.092
R	RP2	3	2016	120	28.8	80	23.04	0.134
R	RP2	3	2016	100	32.15	80	25.72	0
R	RP2	4	2016	99999999	7.97	100	7.97	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	4	2016	1400	7.97	100	7.97	0.002
R	RP2	4	2016	1380	8.01	100	8.01	0.002
R	RP2	4	2016	1360	8.05	100	8.05	0.002
R	RP2	4	2016	1340	8.09	100	8.09	0.002
R	RP2	4	2016	1320	8.13	100	8.13	0.002
R	RP2	4	2016	1300	8.17	100	8.17	0.002
R	RP2	4	2016	1280	8.21	100	8.21	0.002
R	RP2	4	2016	1260	8.25	100	8.25	0.0035
R	RP2	4	2016	1240	8.32	100	8.32	0.003
R	RP2	4	2016	1220	8.38	100	8.38	0.0035
R	RP2	4	2016	1200	8.45	100	8.45	0.003
R	RP2	4	2016	1180	8.51	100	8.51	0.0035
R	RP2	4	2016	1160	8.58	100	8.58	0.003
R	RP2	4	2016	1140	8.64	100	8.64	0.0035
R	RP2	4	2016	1120	8.71	100	8.71	0.004
R	RP2	4	2016	1100	8.79	100	8.79	0.0045
R	RP2	4	2016	1080	8.88	100	8.88	0.004
R	RP2	4	2016	1060	8.96	100	8.96	0.0045
R	RP2	4	2016	1040	9.05	100	9.05	0.004
R	RP2	4	2016	1020	9.13	100	9.13	0.0045
R	RP2	4	2016	1000	9.22	100	9.22	0.004
R	RP2	4	2016	980	9.3	100	9.3	0.0045
R	RP2	4	2016	960	9.39	100	9.39	0.005
R	RP2	4	2016	940	9.49	100	9.49	0.005
R	RP2	4	2016	920	9.59	100	9.59	0.0055
R	RP2	4	2016	900	9.7	100	9.7	0.005
R	RP2	4	2016	880	9.8	100	9.8	0.005
R	RP2	4	2016	860	9.9	100	9.9	0.005
R	RP2	4	2016	840	10	100	10	0.005
R	RP2	4	2016	820	10.1	100	10.1	0.0055
R	RP2	4	2016	800	10.21	100	10.21	0.0065
R	RP2	4	2016	780	10.34	100	10.34	0.007
R	RP2	4	2016	760	10.48	100	10.48	0.0065
R	RP2	4	2016	740	10.61	100	10.61	0.007
R	RP2	4	2016	720	10.75	100	10.75	0.0065
R	RP2	4	2016	700	10.88	100	10.88	0.007
R	RP2	4	2016	680	11.02	100	11.02	0.007
R	RP2	4	2016	660	11.16	100	11.16	0.0095
R	RP2	4	2016	640	11.35	100	11.35	0.0095
R	RP2	4	2016	620	11.54	100	11.54	0.0095
R	RP2	4	2016	600	11.73	100	11.73	0.0095
R	RP2	4	2016	580	11.92	100	11.92	0.0095
R	RP2	4	2016	560	12.11	100	12.11	0.0095
R	RP2	4	2016	540	12.3	100	12.3	0.0095

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	4	2016	520	12.49	100	12.49	0.02
R	RP2	4	2016	500	12.89	100	12.89	0.0205
R	RP2	4	2016	480	13.3	100	13.3	0.02
R	RP2	4	2016	460	13.7	100	13.7	0.0205
R	RP2	4	2016	440	14.11	100	14.11	0.0205
R	RP2	4	2016	420	14.52	100	14.52	0.02
R	RP2	4	2016	400	14.92	100	14.92	0.0205
R	RP2	4	2016	380	15.33	100	15.33	0.02
R	RP2	4	2016	360	15.73	100	15.73	0.021
R	RP2	4	2016	340	16.15	100	16.15	0.035
R	RP2	4	2016	320	16.85	100	16.85	0.035
R	RP2	4	2016	300	17.55	100	17.55	0.035
R	RP2	4	2016	280	18.25	100	18.25	0.035
R	RP2	4	2016	260	18.95	100	18.95	0.0355
R	RP2	4	2016	240	19.66	100	19.66	0.053
R	RP2	4	2016	220	20.72	100	20.72	0.0555
R	RP2	4	2016	200	21.83	100	21.83	0.0555
R	RP2	4	2016	180	22.94	100	22.94	0.0555
R	RP2	4	2016	160	24.05	100	24.05	0.1225
R	RP2	4	2016	140	26.5	100	26.5	0.115
R	RP2	4	2016	120	28.8	100	28.8	0.1675
R	RP2	4	2016	100	32.15	100	32.15	0
R	RP2	5	2016	9999999	7.97	120	9.56	0
R	RP2	5	2016	1400	7.97	120	9.56	0.0025
R	RP2	5	2016	1380	8.01	120	9.61	0.0025
R	RP2	5	2016	1360	8.05	120	9.66	0.0025
R	RP2	5	2016	1340	8.09	120	9.71	0.0025
R	RP2	5	2016	1320	8.13	120	9.76	0.002
R	RP2	5	2016	1300	8.17	120	9.8	0.0025
R	RP2	5	2016	1280	8.21	120	9.85	0.0025
R	RP2	5	2016	1260	8.25	120	9.9	0.004
R	RP2	5	2016	1240	8.32	120	9.98	0.004
R	RP2	5	2016	1220	8.38	120	10.06	0.004
R	RP2	5	2016	1200	8.45	120	10.14	0.0035
R	RP2	5	2016	1180	8.51	120	10.21	0.0045
R	RP2	5	2016	1160	8.58	120	10.3	0.0035
R	RP2	5	2016	1140	8.64	120	10.37	0.004
R	RP2	5	2016	1120	8.71	120	10.45	0.005
R	RP2	5	2016	1100	8.79	120	10.55	0.0055
R	RP2	5	2016	1080	8.88	120	10.66	0.0045
R	RP2	5	2016	1060	8.96	120	10.75	0.0055
R	RP2	5	2016	1040	9.05	120	10.86	0.005
R	RP2	5	2016	1020	9.13	120	10.96	0.005
R	RP2	5	2016	1000	9.22	120	11.06	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	5	2016	980	9.3	120	11.16	0.0055
R	RP2	5	2016	960	9.39	120	11.27	0.006
R	RP2	5	2016	940	9.49	120	11.39	0.006
R	RP2	5	2016	920	9.59	120	11.51	0.0065
R	RP2	5	2016	900	9.7	120	11.64	0.006
R	RP2	5	2016	880	9.8	120	11.76	0.006
R	RP2	5	2016	860	9.9	120	11.88	0.006
R	RP2	5	2016	840	10	120	12	0.006
R	RP2	5	2016	820	10.1	120	12.12	0.0065
R	RP2	5	2016	800	10.21	120	12.25	0.008
R	RP2	5	2016	780	10.34	120	12.41	0.0085
R	RP2	5	2016	760	10.48	120	12.58	0.0075
R	RP2	5	2016	740	10.61	120	12.73	0.0085
R	RP2	5	2016	720	10.75	120	12.9	0.008
R	RP2	5	2016	700	10.88	120	13.06	0.008
R	RP2	5	2016	680	11.02	120	13.22	0.0085
R	RP2	5	2016	660	11.16	120	13.39	0.0115
R	RP2	5	2016	640	11.35	120	13.62	0.0115
R	RP2	5	2016	620	11.54	120	13.85	0.0115
R	RP2	5	2016	600	11.73	120	14.08	0.011
R	RP2	5	2016	580	11.92	120	14.3	0.0115
R	RP2	5	2016	560	12.11	120	14.53	0.0115
R	RP2	5	2016	540	12.3	120	14.76	0.0115
R	RP2	5	2016	520	12.49	120	14.99	0.024
R	RP2	5	2016	500	12.89	120	15.47	0.0245
R	RP2	5	2016	480	13.3	120	15.96	0.024
R	RP2	5	2016	460	13.7	120	16.44	0.0245
R	RP2	5	2016	440	14.11	120	16.93	0.0245
R	RP2	5	2016	420	14.52	120	17.42	0.024
R	RP2	5	2016	400	14.92	120	17.9	0.025
R	RP2	5	2016	380	15.33	120	18.4	0.024
R	RP2	5	2016	360	15.73	120	18.88	0.025
R	RP2	5	2016	340	16.15	120	19.38	0.042
R	RP2	5	2016	320	16.85	120	20.22	0.042
R	RP2	5	2016	300	17.55	120	21.06	0.042
R	RP2	5	2016	280	18.25	120	21.9	0.042
R	RP2	5	2016	260	18.95	120	22.74	0.0425
R	RP2	5	2016	240	19.66	120	23.59	0.0635
R	RP2	5	2016	220	20.72	120	24.86	0.067
R	RP2	5	2016	200	21.83	120	26.2	0.0665
R	RP2	5	2016	180	22.94	120	27.53	0.0665
R	RP2	5	2016	160	24.05	120	28.86	0.147
R	RP2	5	2016	140	26.5	120	31.8	0.138
R	RP2	5	2016	120	28.8	120	34.56	0.201

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	5	2016	100	32.15	120	38.58	0
R	RP2	6	2016	99999999	7.97	120	9.56	0
R	RP2	6	2016	1400	7.97	120	9.56	0.0025
R	RP2	6	2016	1380	8.01	120	9.61	0.0025
R	RP2	6	2016	1360	8.05	120	9.66	0.0025
R	RP2	6	2016	1340	8.09	120	9.71	0.0025
R	RP2	6	2016	1320	8.13	120	9.76	0.002
R	RP2	6	2016	1300	8.17	120	9.8	0.0025
R	RP2	6	2016	1280	8.21	120	9.85	0.0025
R	RP2	6	2016	1260	8.25	120	9.9	0.004
R	RP2	6	2016	1240	8.32	120	9.98	0.004
R	RP2	6	2016	1220	8.38	120	10.06	0.004
R	RP2	6	2016	1200	8.45	120	10.14	0.0035
R	RP2	6	2016	1180	8.51	120	10.21	0.0045
R	RP2	6	2016	1160	8.58	120	10.3	0.0035
R	RP2	6	2016	1140	8.64	120	10.37	0.004
R	RP2	6	2016	1120	8.71	120	10.45	0.005
R	RP2	6	2016	1100	8.79	120	10.55	0.0055
R	RP2	6	2016	1080	8.88	120	10.66	0.0045
R	RP2	6	2016	1060	8.96	120	10.75	0.0055
R	RP2	6	2016	1040	9.05	120	10.86	0.005
R	RP2	6	2016	1020	9.13	120	10.96	0.005
R	RP2	6	2016	1000	9.22	120	11.06	0.005
R	RP2	6	2016	980	9.3	120	11.16	0.0055
R	RP2	6	2016	960	9.39	120	11.27	0.006
R	RP2	6	2016	940	9.49	120	11.39	0.006
R	RP2	6	2016	920	9.59	120	11.51	0.0065
R	RP2	6	2016	900	9.7	120	11.64	0.006
R	RP2	6	2016	880	9.8	120	11.76	0.006
R	RP2	6	2016	860	9.9	120	11.88	0.006
R	RP2	6	2016	840	10	120	12	0.006
R	RP2	6	2016	820	10.1	120	12.12	0.0065
R	RP2	6	2016	800	10.21	120	12.25	0.008
R	RP2	6	2016	780	10.34	120	12.41	0.0085
R	RP2	6	2016	760	10.48	120	12.58	0.0075
R	RP2	6	2016	740	10.61	120	12.73	0.0085
R	RP2	6	2016	720	10.75	120	12.9	0.008
R	RP2	6	2016	700	10.88	120	13.06	0.008
R	RP2	6	2016	680	11.02	120	13.22	0.0085
R	RP2	6	2016	660	11.16	120	13.39	0.0115
R	RP2	6	2016	640	11.35	120	13.62	0.0115
R	RP2	6	2016	620	11.54	120	13.85	0.0115
R	RP2	6	2016	600	11.73	120	14.08	0.011
R	RP2	6	2016	580	11.92	120	14.3	0.0115

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	6	2016	560	12.11	120	14.53	0.0115
R	RP2	6	2016	540	12.3	120	14.76	0.0115
R	RP2	6	2016	520	12.49	120	14.99	0.024
R	RP2	6	2016	500	12.89	120	15.47	0.0245
R	RP2	6	2016	480	13.3	120	15.96	0.024
R	RP2	6	2016	460	13.7	120	16.44	0.0245
R	RP2	6	2016	440	14.11	120	16.93	0.0245
R	RP2	6	2016	420	14.52	120	17.42	0.024
R	RP2	6	2016	400	14.92	120	17.9	0.025
R	RP2	6	2016	380	15.33	120	18.4	0.024
R	RP2	6	2016	360	15.73	120	18.88	0.025
R	RP2	6	2016	340	16.15	120	19.38	0.042
R	RP2	6	2016	320	16.85	120	20.22	0.042
R	RP2	6	2016	300	17.55	120	21.06	0.042
R	RP2	6	2016	280	18.25	120	21.9	0.042
R	RP2	6	2016	260	18.95	120	22.74	0.0425
R	RP2	6	2016	240	19.66	120	23.59	0.0635
R	RP2	6	2016	220	20.72	120	24.86	0.067
R	RP2	6	2016	200	21.83	120	26.2	0.0665
R	RP2	6	2016	180	22.94	120	27.53	0.0665
R	RP2	6	2016	160	24.05	120	28.86	0.147
R	RP2	6	2016	140	26.5	120	31.8	0.138
R	RP2	6	2016	120	28.8	120	34.56	0.201
R	RP2	6	2016	100	32.15	120	38.58	0
R	RP2	7	2016	99999999	7.97	120	9.56	0
R	RP2	7	2016	1400	7.97	120	9.56	0.0025
R	RP2	7	2016	1380	8.01	120	9.61	0.0025
R	RP2	7	2016	1360	8.05	120	9.66	0.0025
R	RP2	7	2016	1340	8.09	120	9.71	0.0025
R	RP2	7	2016	1320	8.13	120	9.76	0.002
R	RP2	7	2016	1300	8.17	120	9.8	0.0025
R	RP2	7	2016	1280	8.21	120	9.85	0.0025
R	RP2	7	2016	1260	8.25	120	9.9	0.004
R	RP2	7	2016	1240	8.32	120	9.98	0.004
R	RP2	7	2016	1220	8.38	120	10.06	0.004
R	RP2	7	2016	1200	8.45	120	10.14	0.0035
R	RP2	7	2016	1180	8.51	120	10.21	0.0045
R	RP2	7	2016	1160	8.58	120	10.3	0.0035
R	RP2	7	2016	1140	8.64	120	10.37	0.004
R	RP2	7	2016	1120	8.71	120	10.45	0.005
R	RP2	7	2016	1100	8.79	120	10.55	0.0055
R	RP2	7	2016	1080	8.88	120	10.66	0.0045
R	RP2	7	2016	1060	8.96	120	10.75	0.0055
R	RP2	7	2016	1040	9.05	120	10.86	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	7	2016	1020	9.13	120	10.96	0.005
R	RP2	7	2016	1000	9.22	120	11.06	0.005
R	RP2	7	2016	980	9.3	120	11.16	0.0055
R	RP2	7	2016	960	9.39	120	11.27	0.006
R	RP2	7	2016	940	9.49	120	11.39	0.006
R	RP2	7	2016	920	9.59	120	11.51	0.0065
R	RP2	7	2016	900	9.7	120	11.64	0.006
R	RP2	7	2016	880	9.8	120	11.76	0.006
R	RP2	7	2016	860	9.9	120	11.88	0.006
R	RP2	7	2016	840	10	120	12	0.006
R	RP2	7	2016	820	10.1	120	12.12	0.0065
R	RP2	7	2016	800	10.21	120	12.25	0.008
R	RP2	7	2016	780	10.34	120	12.41	0.0085
R	RP2	7	2016	760	10.48	120	12.58	0.0075
R	RP2	7	2016	740	10.61	120	12.73	0.0085
R	RP2	7	2016	720	10.75	120	12.9	0.008
R	RP2	7	2016	700	10.88	120	13.06	0.008
R	RP2	7	2016	680	11.02	120	13.22	0.0085
R	RP2	7	2016	660	11.16	120	13.39	0.0115
R	RP2	7	2016	640	11.35	120	13.62	0.0115
R	RP2	7	2016	620	11.54	120	13.85	0.0115
R	RP2	7	2016	600	11.73	120	14.08	0.011
R	RP2	7	2016	580	11.92	120	14.3	0.0115
R	RP2	7	2016	560	12.11	120	14.53	0.0115
R	RP2	7	2016	540	12.3	120	14.76	0.0115
R	RP2	7	2016	520	12.49	120	14.99	0.024
R	RP2	7	2016	500	12.89	120	15.47	0.0245
R	RP2	7	2016	480	13.3	120	15.96	0.024
R	RP2	7	2016	460	13.7	120	16.44	0.0245
R	RP2	7	2016	440	14.11	120	16.93	0.0245
R	RP2	7	2016	420	14.52	120	17.42	0.024
R	RP2	7	2016	400	14.92	120	17.9	0.025
R	RP2	7	2016	380	15.33	120	18.4	0.024
R	RP2	7	2016	360	15.73	120	18.88	0.025
R	RP2	7	2016	340	16.15	120	19.38	0.042
R	RP2	7	2016	320	16.85	120	20.22	0.042
R	RP2	7	2016	300	17.55	120	21.06	0.042
R	RP2	7	2016	280	18.25	120	21.9	0.042
R	RP2	7	2016	260	18.95	120	22.74	0.0425
R	RP2	7	2016	240	19.66	120	23.59	0.0635
R	RP2	7	2016	220	20.72	120	24.86	0.067
R	RP2	7	2016	200	21.83	120	26.2	0.0665
R	RP2	7	2016	180	22.94	120	27.53	0.0665
R	RP2	7	2016	160	24.05	120	28.86	0.147

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	7	2016	140	26.5	120	31.8	0.138
R	RP2	7	2016	120	28.8	120	34.56	0.201
R	RP2	7	2016	100	32.15	120	38.58	0
R	RP2	8	2016	99999999	7.97	120	9.56	0
R	RP2	8	2016	1400	7.97	120	9.56	0.0025
R	RP2	8	2016	1380	8.01	120	9.61	0.0025
R	RP2	8	2016	1360	8.05	120	9.66	0.0025
R	RP2	8	2016	1340	8.09	120	9.71	0.0025
R	RP2	8	2016	1320	8.13	120	9.76	0.002
R	RP2	8	2016	1300	8.17	120	9.8	0.0025
R	RP2	8	2016	1280	8.21	120	9.85	0.0025
R	RP2	8	2016	1260	8.25	120	9.9	0.004
R	RP2	8	2016	1240	8.32	120	9.98	0.004
R	RP2	8	2016	1220	8.38	120	10.06	0.004
R	RP2	8	2016	1200	8.45	120	10.14	0.0035
R	RP2	8	2016	1180	8.51	120	10.21	0.0045
R	RP2	8	2016	1160	8.58	120	10.3	0.0035
R	RP2	8	2016	1140	8.64	120	10.37	0.004
R	RP2	8	2016	1120	8.71	120	10.45	0.005
R	RP2	8	2016	1100	8.79	120	10.55	0.0055
R	RP2	8	2016	1080	8.88	120	10.66	0.0045
R	RP2	8	2016	1060	8.96	120	10.75	0.0055
R	RP2	8	2016	1040	9.05	120	10.86	0.005
R	RP2	8	2016	1020	9.13	120	10.96	0.005
R	RP2	8	2016	1000	9.22	120	11.06	0.005
R	RP2	8	2016	980	9.3	120	11.16	0.0055
R	RP2	8	2016	960	9.39	120	11.27	0.006
R	RP2	8	2016	940	9.49	120	11.39	0.006
R	RP2	8	2016	920	9.59	120	11.51	0.0065
R	RP2	8	2016	900	9.7	120	11.64	0.006
R	RP2	8	2016	880	9.8	120	11.76	0.006
R	RP2	8	2016	860	9.9	120	11.88	0.006
R	RP2	8	2016	840	10	120	12	0.006
R	RP2	8	2016	820	10.1	120	12.12	0.0065
R	RP2	8	2016	800	10.21	120	12.25	0.008
R	RP2	8	2016	780	10.34	120	12.41	0.0085
R	RP2	8	2016	760	10.48	120	12.58	0.0075
R	RP2	8	2016	740	10.61	120	12.73	0.0085
R	RP2	8	2016	720	10.75	120	12.9	0.008
R	RP2	8	2016	700	10.88	120	13.06	0.008
R	RP2	8	2016	680	11.02	120	13.22	0.0085
R	RP2	8	2016	660	11.16	120	13.39	0.0115
R	RP2	8	2016	640	11.35	120	13.62	0.0115
R	RP2	8	2016	620	11.54	120	13.85	0.0115

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	8	2016	600	11.73	120	14.08	0.011
R	RP2	8	2016	580	11.92	120	14.3	0.0115
R	RP2	8	2016	560	12.11	120	14.53	0.0115
R	RP2	8	2016	540	12.3	120	14.76	0.0115
R	RP2	8	2016	520	12.49	120	14.99	0.024
R	RP2	8	2016	500	12.89	120	15.47	0.0245
R	RP2	8	2016	480	13.3	120	15.96	0.024
R	RP2	8	2016	460	13.7	120	16.44	0.0245
R	RP2	8	2016	440	14.11	120	16.93	0.0245
R	RP2	8	2016	420	14.52	120	17.42	0.024
R	RP2	8	2016	400	14.92	120	17.9	0.025
R	RP2	8	2016	380	15.33	120	18.4	0.024
R	RP2	8	2016	360	15.73	120	18.88	0.025
R	RP2	8	2016	340	16.15	120	19.38	0.042
R	RP2	8	2016	320	16.85	120	20.22	0.042
R	RP2	8	2016	300	17.55	120	21.06	0.042
R	RP2	8	2016	280	18.25	120	21.9	0.042
R	RP2	8	2016	260	18.95	120	22.74	0.0425
R	RP2	8	2016	240	19.66	120	23.59	0.0635
R	RP2	8	2016	220	20.72	120	24.86	0.067
R	RP2	8	2016	200	21.83	120	26.2	0.0665
R	RP2	8	2016	180	22.94	120	27.53	0.0665
R	RP2	8	2016	160	24.05	120	28.86	0.147
R	RP2	8	2016	140	26.5	120	31.8	0.138
R	RP2	8	2016	120	28.8	120	34.56	0.201
R	RP2	8	2016	100	32.15	120	38.58	0
R	RP2	*	2016	99999999	7.97	100	7.97	0
R	RP2	*	2016	1400	7.97	100	7.97	0.002
R	RP2	*	2016	1380	8.01	100	8.01	0.002
R	RP2	*	2016	1360	8.05	100	8.05	0.002
R	RP2	*	2016	1340	8.09	100	8.09	0.002
R	RP2	*	2016	1320	8.13	100	8.13	0.002
R	RP2	*	2016	1300	8.17	100	8.17	0.002
R	RP2	*	2016	1280	8.21	100	8.21	0.002
R	RP2	*	2016	1260	8.25	100	8.25	0.0035
R	RP2	*	2016	1240	8.32	100	8.32	0.003
R	RP2	*	2016	1220	8.38	100	8.38	0.0035
R	RP2	*	2016	1200	8.45	100	8.45	0.003
R	RP2	*	2016	1180	8.51	100	8.51	0.0035
R	RP2	*	2016	1160	8.58	100	8.58	0.003
R	RP2	*	2016	1140	8.64	100	8.64	0.0035
R	RP2	*	2016	1120	8.71	100	8.71	0.004
R	RP2	*	2016	1100	8.79	100	8.79	0.0045
R	RP2	*	2016	1080	8.88	100	8.88	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	*	2016	1060	8.96	100	8.96	0.0045
R	RP2	*	2016	1040	9.05	100	9.05	0.004
R	RP2	*	2016	1020	9.13	100	9.13	0.0045
R	RP2	*	2016	1000	9.22	100	9.22	0.004
R	RP2	*	2016	980	9.3	100	9.3	0.0045
R	RP2	*	2016	960	9.39	100	9.39	0.005
R	RP2	*	2016	940	9.49	100	9.49	0.005
R	RP2	*	2016	920	9.59	100	9.59	0.0055
R	RP2	*	2016	900	9.7	100	9.7	0.005
R	RP2	*	2016	880	9.8	100	9.8	0.005
R	RP2	*	2016	860	9.9	100	9.9	0.005
R	RP2	*	2016	840	10	100	10	0.005
R	RP2	*	2016	820	10.1	100	10.1	0.0055
R	RP2	*	2016	800	10.21	100	10.21	0.0065
R	RP2	*	2016	780	10.34	100	10.34	0.007
R	RP2	*	2016	760	10.48	100	10.48	0.0065
R	RP2	*	2016	740	10.61	100	10.61	0.007
R	RP2	*	2016	720	10.75	100	10.75	0.0065
R	RP2	*	2016	700	10.88	100	10.88	0.007
R	RP2	*	2016	680	11.02	100	11.02	0.007
R	RP2	*	2016	660	11.16	100	11.16	0.0095
R	RP2	*	2016	640	11.35	100	11.35	0.0095
R	RP2	*	2016	620	11.54	100	11.54	0.0095
R	RP2	*	2016	600	11.73	100	11.73	0.0095
R	RP2	*	2016	580	11.92	100	11.92	0.0095
R	RP2	*	2016	560	12.11	100	12.11	0.0095
R	RP2	*	2016	540	12.3	100	12.3	0.0095
R	RP2	*	2016	520	12.49	100	12.49	0.02
R	RP2	*	2016	500	12.89	100	12.89	0.0205
R	RP2	*	2016	480	13.3	100	13.3	0.02
R	RP2	*	2016	460	13.7	100	13.7	0.0205
R	RP2	*	2016	440	14.11	100	14.11	0.0205
R	RP2	*	2016	420	14.52	100	14.52	0.02
R	RP2	*	2016	400	14.92	100	14.92	0.0205
R	RP2	*	2016	380	15.33	100	15.33	0.02
R	RP2	*	2016	360	15.73	100	15.73	0.021
R	RP2	*	2016	340	16.15	100	16.15	0.035
R	RP2	*	2016	320	16.85	100	16.85	0.035
R	RP2	*	2016	300	17.55	100	17.55	0.035
R	RP2	*	2016	280	18.25	100	18.25	0.035
R	RP2	*	2016	260	18.95	100	18.95	0.0355
R	RP2	*	2016	240	19.66	100	19.66	0.053
R	RP2	*	2016	220	20.72	100	20.72	0.0555
R	RP2	*	2016	200	21.83	100	21.83	0.0555

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	*	2016	180	22.94	100	22.94	0.0555
R	RP2	*	2016	160	24.05	100	24.05	0.1225
R	RP2	*	2016	140	26.5	100	26.5	0.115
R	RP2	*	2016	120	28.8	100	28.8	0.1675
R	RP2	*	2016	100	32.15	100	32.15	0
R	RP2	1-	2016	99999999	7.97	80	6.38	0
R	RP2	1-	2016	1400	7.97	80	6.38	0.0015
R	RP2	1-	2016	1380	8.01	80	6.41	0.0015
R	RP2	1-	2016	1360	8.05	80	6.44	0.0015
R	RP2	1-	2016	1340	8.09	80	6.47	0.0015
R	RP2	1-	2016	1320	8.13	80	6.5	0.002
R	RP2	1-	2016	1300	8.17	80	6.54	0.0015
R	RP2	1-	2016	1280	8.21	80	6.57	0.0015
R	RP2	1-	2016	1260	8.25	80	6.6	0.003
R	RP2	1-	2016	1240	8.32	80	6.66	0.002
R	RP2	1-	2016	1220	8.38	80	6.7	0.003
R	RP2	1-	2016	1200	8.45	80	6.76	0.0025
R	RP2	1-	2016	1180	8.51	80	6.81	0.0025
R	RP2	1-	2016	1160	8.58	80	6.86	0.0025
R	RP2	1-	2016	1140	8.64	80	6.91	0.003
R	RP2	1-	2016	1120	8.71	80	6.97	0.003
R	RP2	1-	2016	1100	8.79	80	7.03	0.0035
R	RP2	1-	2016	1080	8.88	80	7.1	0.0035
R	RP2	1-	2016	1060	8.96	80	7.17	0.0035
R	RP2	1-	2016	1040	9.05	80	7.24	0.003
R	RP2	1-	2016	1020	9.13	80	7.3	0.004
R	RP2	1-	2016	1000	9.22	80	7.38	0.003
R	RP2	1-	2016	980	9.3	80	7.44	0.0035
R	RP2	1-	2016	960	9.39	80	7.51	0.004
R	RP2	1-	2016	940	9.49	80	7.59	0.004
R	RP2	1-	2016	920	9.59	80	7.67	0.0045
R	RP2	1-	2016	900	9.7	80	7.76	0.004
R	RP2	1-	2016	880	9.8	80	7.84	0.004
R	RP2	1-	2016	860	9.9	80	7.92	0.004
R	RP2	1-	2016	840	10	80	8	0.004
R	RP2	1-	2016	820	10.1	80	8.08	0.0045
R	RP2	1-	2016	800	10.21	80	8.17	0.005
R	RP2	1-	2016	780	10.34	80	8.27	0.0055
R	RP2	1-	2016	760	10.48	80	8.38	0.0055
R	RP2	1-	2016	740	10.61	80	8.49	0.0055
R	RP2	1-	2016	720	10.75	80	8.6	0.005
R	RP2	1-	2016	700	10.88	80	8.7	0.006
R	RP2	1-	2016	680	11.02	80	8.82	0.0055
R	RP2	1-	2016	660	11.16	80	8.93	0.0075

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	1-	2016	640	11.35	80	9.08	0.0075
R	RP2	1-	2016	620	11.54	80	9.23	0.0075
R	RP2	1-	2016	600	11.73	80	9.38	0.008
R	RP2	1-	2016	580	11.92	80	9.54	0.0075
R	RP2	1-	2016	560	12.11	80	9.69	0.0075
R	RP2	1-	2016	540	12.3	80	9.84	0.0075
R	RP2	1-	2016	520	12.49	80	9.99	0.016
R	RP2	1-	2016	500	12.89	80	10.31	0.0165
R	RP2	1-	2016	480	13.3	80	10.64	0.016
R	RP2	1-	2016	460	13.7	80	10.96	0.0165
R	RP2	1-	2016	440	14.11	80	11.29	0.0165
R	RP2	1-	2016	420	14.52	80	11.62	0.016
R	RP2	1-	2016	400	14.92	80	11.94	0.016
R	RP2	1-	2016	380	15.33	80	12.26	0.016
R	RP2	1-	2016	360	15.73	80	12.58	0.017
R	RP2	1-	2016	340	16.15	80	12.92	0.028
R	RP2	1-	2016	320	16.85	80	13.48	0.028
R	RP2	1-	2016	300	17.55	80	14.04	0.028
R	RP2	1-	2016	280	18.25	80	14.6	0.028
R	RP2	1-	2016	260	18.95	80	15.16	0.0285
R	RP2	1-	2016	240	19.66	80	15.73	0.0425
R	RP2	1-	2016	220	20.72	80	16.58	0.044
R	RP2	1-	2016	200	21.83	80	17.46	0.0445
R	RP2	1-	2016	180	22.94	80	18.35	0.0445
R	RP2	1-	2016	160	24.05	80	19.24	0.098
R	RP2	1-	2016	140	26.5	80	21.2	0.092
R	RP2	1-	2016	120	28.8	80	23.04	0.134
R	RP2	1-	2016	100	32.15	80	25.72	0
R	RP2	1+	2016	99999999	7.97	80	6.38	0
R	RP2	1+	2016	1400	7.97	80	6.38	0.0015
R	RP2	1+	2016	1380	8.01	80	6.41	0.0015
R	RP2	1+	2016	1360	8.05	80	6.44	0.0015
R	RP2	1+	2016	1340	8.09	80	6.47	0.0015
R	RP2	1+	2016	1320	8.13	80	6.5	0.002
R	RP2	1+	2016	1300	8.17	80	6.54	0.0015
R	RP2	1+	2016	1280	8.21	80	6.57	0.0015
R	RP2	1+	2016	1260	8.25	80	6.6	0.003
R	RP2	1+	2016	1240	8.32	80	6.66	0.002
R	RP2	1+	2016	1220	8.38	80	6.7	0.003
R	RP2	1+	2016	1200	8.45	80	6.76	0.0025
R	RP2	1+	2016	1180	8.51	80	6.81	0.0025
R	RP2	1+	2016	1160	8.58	80	6.86	0.0025
R	RP2	1+	2016	1140	8.64	80	6.91	0.003
R	RP2	1+	2016	1120	8.71	80	6.97	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	1+	2016	1100	8.79	80	7.03	0.0035
R	RP2	1+	2016	1080	8.88	80	7.1	0.0035
R	RP2	1+	2016	1060	8.96	80	7.17	0.0035
R	RP2	1+	2016	1040	9.05	80	7.24	0.003
R	RP2	1+	2016	1020	9.13	80	7.3	0.004
R	RP2	1+	2016	1000	9.22	80	7.38	0.003
R	RP2	1+	2016	980	9.3	80	7.44	0.0035
R	RP2	1+	2016	960	9.39	80	7.51	0.004
R	RP2	1+	2016	940	9.49	80	7.59	0.004
R	RP2	1+	2016	920	9.59	80	7.67	0.0045
R	RP2	1+	2016	900	9.7	80	7.76	0.004
R	RP2	1+	2016	880	9.8	80	7.84	0.004
R	RP2	1+	2016	860	9.9	80	7.92	0.004
R	RP2	1+	2016	840	10	80	8	0.004
R	RP2	1+	2016	820	10.1	80	8.08	0.0045
R	RP2	1+	2016	800	10.21	80	8.17	0.005
R	RP2	1+	2016	780	10.34	80	8.27	0.0055
R	RP2	1+	2016	760	10.48	80	8.38	0.0055
R	RP2	1+	2016	740	10.61	80	8.49	0.0055
R	RP2	1+	2016	720	10.75	80	8.6	0.005
R	RP2	1+	2016	700	10.88	80	8.7	0.006
R	RP2	1+	2016	680	11.02	80	8.82	0.0055
R	RP2	1+	2016	660	11.16	80	8.93	0.0075
R	RP2	1+	2016	640	11.35	80	9.08	0.0075
R	RP2	1+	2016	620	11.54	80	9.23	0.0075
R	RP2	1+	2016	600	11.73	80	9.38	0.008
R	RP2	1+	2016	580	11.92	80	9.54	0.0075
R	RP2	1+	2016	560	12.11	80	9.69	0.0075
R	RP2	1+	2016	540	12.3	80	9.84	0.0075
R	RP2	1+	2016	520	12.49	80	9.99	0.016
R	RP2	1+	2016	500	12.89	80	10.31	0.0165
R	RP2	1+	2016	480	13.3	80	10.64	0.016
R	RP2	1+	2016	460	13.7	80	10.96	0.0165
R	RP2	1+	2016	440	14.11	80	11.29	0.0165
R	RP2	1+	2016	420	14.52	80	11.62	0.016
R	RP2	1+	2016	400	14.92	80	11.94	0.016
R	RP2	1+	2016	380	15.33	80	12.26	0.016
R	RP2	1+	2016	360	15.73	80	12.58	0.017
R	RP2	1+	2016	340	16.15	80	12.92	0.028
R	RP2	1+	2016	320	16.85	80	13.48	0.028
R	RP2	1+	2016	300	17.55	80	14.04	0.028
R	RP2	1+	2016	280	18.25	80	14.6	0.028
R	RP2	1+	2016	260	18.95	80	15.16	0.0285
R	RP2	1+	2016	240	19.66	80	15.73	0.0425

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	1+	2016	220	20.72	80	16.58	0.044
R	RP2	1+	2016	200	21.83	80	17.46	0.0445
R	RP2	1+	2016	180	22.94	80	18.35	0.0445
R	RP2	1+	2016	160	24.05	80	19.24	0.098
R	RP2	1+	2016	140	26.5	80	21.2	0.092
R	RP2	1+	2016	120	28.8	80	23.04	0.134
R	RP2	1+	2016	100	32.15	80	25.72	0
R	RP2	2-	2016	99999999	7.97	80	6.38	0
R	RP2	2-	2016	1400	7.97	80	6.38	0.0015
R	RP2	2-	2016	1380	8.01	80	6.41	0.0015
R	RP2	2-	2016	1360	8.05	80	6.44	0.0015
R	RP2	2-	2016	1340	8.09	80	6.47	0.0015
R	RP2	2-	2016	1320	8.13	80	6.5	0.002
R	RP2	2-	2016	1300	8.17	80	6.54	0.0015
R	RP2	2-	2016	1280	8.21	80	6.57	0.0015
R	RP2	2-	2016	1260	8.25	80	6.6	0.003
R	RP2	2-	2016	1240	8.32	80	6.66	0.002
R	RP2	2-	2016	1220	8.38	80	6.7	0.003
R	RP2	2-	2016	1200	8.45	80	6.76	0.0025
R	RP2	2-	2016	1180	8.51	80	6.81	0.0025
R	RP2	2-	2016	1160	8.58	80	6.86	0.0025
R	RP2	2-	2016	1140	8.64	80	6.91	0.003
R	RP2	2-	2016	1120	8.71	80	6.97	0.003
R	RP2	2-	2016	1100	8.79	80	7.03	0.0035
R	RP2	2-	2016	1080	8.88	80	7.1	0.0035
R	RP2	2-	2016	1060	8.96	80	7.17	0.0035
R	RP2	2-	2016	1040	9.05	80	7.24	0.003
R	RP2	2-	2016	1020	9.13	80	7.3	0.004
R	RP2	2-	2016	1000	9.22	80	7.38	0.003
R	RP2	2-	2016	980	9.3	80	7.44	0.0035
R	RP2	2-	2016	960	9.39	80	7.51	0.004
R	RP2	2-	2016	940	9.49	80	7.59	0.004
R	RP2	2-	2016	920	9.59	80	7.67	0.0045
R	RP2	2-	2016	900	9.7	80	7.76	0.004
R	RP2	2-	2016	880	9.8	80	7.84	0.004
R	RP2	2-	2016	860	9.9	80	7.92	0.004
R	RP2	2-	2016	840	10	80	8	0.004
R	RP2	2-	2016	820	10.1	80	8.08	0.0045
R	RP2	2-	2016	800	10.21	80	8.17	0.005
R	RP2	2-	2016	780	10.34	80	8.27	0.0055
R	RP2	2-	2016	760	10.48	80	8.38	0.0055
R	RP2	2-	2016	740	10.61	80	8.49	0.0055
R	RP2	2-	2016	720	10.75	80	8.6	0.005
R	RP2	2-	2016	700	10.88	80	8.7	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	2-	2016	680	11.02	80	8.82	0.0055
R	RP2	2-	2016	660	11.16	80	8.93	0.0075
R	RP2	2-	2016	640	11.35	80	9.08	0.0075
R	RP2	2-	2016	620	11.54	80	9.23	0.0075
R	RP2	2-	2016	600	11.73	80	9.38	0.008
R	RP2	2-	2016	580	11.92	80	9.54	0.0075
R	RP2	2-	2016	560	12.11	80	9.69	0.0075
R	RP2	2-	2016	540	12.3	80	9.84	0.0075
R	RP2	2-	2016	520	12.49	80	9.99	0.016
R	RP2	2-	2016	500	12.89	80	10.31	0.0165
R	RP2	2-	2016	480	13.3	80	10.64	0.016
R	RP2	2-	2016	460	13.7	80	10.96	0.0165
R	RP2	2-	2016	440	14.11	80	11.29	0.0165
R	RP2	2-	2016	420	14.52	80	11.62	0.016
R	RP2	2-	2016	400	14.92	80	11.94	0.016
R	RP2	2-	2016	380	15.33	80	12.26	0.016
R	RP2	2-	2016	360	15.73	80	12.58	0.017
R	RP2	2-	2016	340	16.15	80	12.92	0.028
R	RP2	2-	2016	320	16.85	80	13.48	0.028
R	RP2	2-	2016	300	17.55	80	14.04	0.028
R	RP2	2-	2016	280	18.25	80	14.6	0.028
R	RP2	2-	2016	260	18.95	80	15.16	0.0285
R	RP2	2-	2016	240	19.66	80	15.73	0.0425
R	RP2	2-	2016	220	20.72	80	16.58	0.044
R	RP2	2-	2016	200	21.83	80	17.46	0.0445
R	RP2	2-	2016	180	22.94	80	18.35	0.0445
R	RP2	2-	2016	160	24.05	80	19.24	0.098
R	RP2	2-	2016	140	26.5	80	21.2	0.092
R	RP2	2-	2016	120	28.8	80	23.04	0.134
R	RP2	2-	2016	100	32.15	80	25.72	0
R	RP2	2+	2016	99999999	7.97	80	6.38	0
R	RP2	2+	2016	1400	7.97	80	6.38	0.0015
R	RP2	2+	2016	1380	8.01	80	6.41	0.0015
R	RP2	2+	2016	1360	8.05	80	6.44	0.0015
R	RP2	2+	2016	1340	8.09	80	6.47	0.0015
R	RP2	2+	2016	1320	8.13	80	6.5	0.002
R	RP2	2+	2016	1300	8.17	80	6.54	0.0015
R	RP2	2+	2016	1280	8.21	80	6.57	0.0015
R	RP2	2+	2016	1260	8.25	80	6.6	0.003
R	RP2	2+	2016	1240	8.32	80	6.66	0.002
R	RP2	2+	2016	1220	8.38	80	6.7	0.003
R	RP2	2+	2016	1200	8.45	80	6.76	0.0025
R	RP2	2+	2016	1180	8.51	80	6.81	0.0025
R	RP2	2+	2016	1160	8.58	80	6.86	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	2+	2016	1140	8.64	80	6.91	0.003
R	RP2	2+	2016	1120	8.71	80	6.97	0.003
R	RP2	2+	2016	1100	8.79	80	7.03	0.0035
R	RP2	2+	2016	1080	8.88	80	7.1	0.0035
R	RP2	2+	2016	1060	8.96	80	7.17	0.0035
R	RP2	2+	2016	1040	9.05	80	7.24	0.003
R	RP2	2+	2016	1020	9.13	80	7.3	0.004
R	RP2	2+	2016	1000	9.22	80	7.38	0.003
R	RP2	2+	2016	980	9.3	80	7.44	0.0035
R	RP2	2+	2016	960	9.39	80	7.51	0.004
R	RP2	2+	2016	940	9.49	80	7.59	0.004
R	RP2	2+	2016	920	9.59	80	7.67	0.0045
R	RP2	2+	2016	900	9.7	80	7.76	0.004
R	RP2	2+	2016	880	9.8	80	7.84	0.004
R	RP2	2+	2016	860	9.9	80	7.92	0.004
R	RP2	2+	2016	840	10	80	8	0.004
R	RP2	2+	2016	820	10.1	80	8.08	0.0045
R	RP2	2+	2016	800	10.21	80	8.17	0.005
R	RP2	2+	2016	780	10.34	80	8.27	0.0055
R	RP2	2+	2016	760	10.48	80	8.38	0.0055
R	RP2	2+	2016	740	10.61	80	8.49	0.0055
R	RP2	2+	2016	720	10.75	80	8.6	0.005
R	RP2	2+	2016	700	10.88	80	8.7	0.006
R	RP2	2+	2016	680	11.02	80	8.82	0.0055
R	RP2	2+	2016	660	11.16	80	8.93	0.0075
R	RP2	2+	2016	640	11.35	80	9.08	0.0075
R	RP2	2+	2016	620	11.54	80	9.23	0.0075
R	RP2	2+	2016	600	11.73	80	9.38	0.008
R	RP2	2+	2016	580	11.92	80	9.54	0.0075
R	RP2	2+	2016	560	12.11	80	9.69	0.0075
R	RP2	2+	2016	540	12.3	80	9.84	0.0075
R	RP2	2+	2016	520	12.49	80	9.99	0.016
R	RP2	2+	2016	500	12.89	80	10.31	0.0165
R	RP2	2+	2016	480	13.3	80	10.64	0.016
R	RP2	2+	2016	460	13.7	80	10.96	0.0165
R	RP2	2+	2016	440	14.11	80	11.29	0.0165
R	RP2	2+	2016	420	14.52	80	11.62	0.016
R	RP2	2+	2016	400	14.92	80	11.94	0.016
R	RP2	2+	2016	380	15.33	80	12.26	0.016
R	RP2	2+	2016	360	15.73	80	12.58	0.017
R	RP2	2+	2016	340	16.15	80	12.92	0.028
R	RP2	2+	2016	320	16.85	80	13.48	0.028
R	RP2	2+	2016	300	17.55	80	14.04	0.028
R	RP2	2+	2016	280	18.25	80	14.6	0.028

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	2+	2016	260	18.95	80	15.16	0.0285
R	RP2	2+	2016	240	19.66	80	15.73	0.0425
R	RP2	2+	2016	220	20.72	80	16.58	0.044
R	RP2	2+	2016	200	21.83	80	17.46	0.0445
R	RP2	2+	2016	180	22.94	80	18.35	0.0445
R	RP2	2+	2016	160	24.05	80	19.24	0.098
R	RP2	2+	2016	140	26.5	80	21.2	0.092
R	RP2	2+	2016	120	28.8	80	23.04	0.134
R	RP2	2+	2016	100	32.15	80	25.72	0
R	RP2	3-	2016	99999999	7.97	80	6.38	0
R	RP2	3-	2016	1400	7.97	80	6.38	0.0015
R	RP2	3-	2016	1380	8.01	80	6.41	0.0015
R	RP2	3-	2016	1360	8.05	80	6.44	0.0015
R	RP2	3-	2016	1340	8.09	80	6.47	0.0015
R	RP2	3-	2016	1320	8.13	80	6.5	0.002
R	RP2	3-	2016	1300	8.17	80	6.54	0.0015
R	RP2	3-	2016	1280	8.21	80	6.57	0.0015
R	RP2	3-	2016	1260	8.25	80	6.6	0.003
R	RP2	3-	2016	1240	8.32	80	6.66	0.002
R	RP2	3-	2016	1220	8.38	80	6.7	0.003
R	RP2	3-	2016	1200	8.45	80	6.76	0.0025
R	RP2	3-	2016	1180	8.51	80	6.81	0.0025
R	RP2	3-	2016	1160	8.58	80	6.86	0.0025
R	RP2	3-	2016	1140	8.64	80	6.91	0.003
R	RP2	3-	2016	1120	8.71	80	6.97	0.003
R	RP2	3-	2016	1100	8.79	80	7.03	0.0035
R	RP2	3-	2016	1080	8.88	80	7.1	0.0035
R	RP2	3-	2016	1060	8.96	80	7.17	0.0035
R	RP2	3-	2016	1040	9.05	80	7.24	0.003
R	RP2	3-	2016	1020	9.13	80	7.3	0.004
R	RP2	3-	2016	1000	9.22	80	7.38	0.003
R	RP2	3-	2016	980	9.3	80	7.44	0.0035
R	RP2	3-	2016	960	9.39	80	7.51	0.004
R	RP2	3-	2016	940	9.49	80	7.59	0.004
R	RP2	3-	2016	920	9.59	80	7.67	0.0045
R	RP2	3-	2016	900	9.7	80	7.76	0.004
R	RP2	3-	2016	880	9.8	80	7.84	0.004
R	RP2	3-	2016	860	9.9	80	7.92	0.004
R	RP2	3-	2016	840	10	80	8	0.004
R	RP2	3-	2016	820	10.1	80	8.08	0.0045
R	RP2	3-	2016	800	10.21	80	8.17	0.005
R	RP2	3-	2016	780	10.34	80	8.27	0.0055
R	RP2	3-	2016	760	10.48	80	8.38	0.0055
R	RP2	3-	2016	740	10.61	80	8.49	0.0055

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	3-	2016	720	10.75	80	8.6	0.005
R	RP2	3-	2016	700	10.88	80	8.7	0.006
R	RP2	3-	2016	680	11.02	80	8.82	0.0055
R	RP2	3-	2016	660	11.16	80	8.93	0.0075
R	RP2	3-	2016	640	11.35	80	9.08	0.0075
R	RP2	3-	2016	620	11.54	80	9.23	0.0075
R	RP2	3-	2016	600	11.73	80	9.38	0.008
R	RP2	3-	2016	580	11.92	80	9.54	0.0075
R	RP2	3-	2016	560	12.11	80	9.69	0.0075
R	RP2	3-	2016	540	12.3	80	9.84	0.0075
R	RP2	3-	2016	520	12.49	80	9.99	0.016
R	RP2	3-	2016	500	12.89	80	10.31	0.0165
R	RP2	3-	2016	480	13.3	80	10.64	0.016
R	RP2	3-	2016	460	13.7	80	10.96	0.0165
R	RP2	3-	2016	440	14.11	80	11.29	0.0165
R	RP2	3-	2016	420	14.52	80	11.62	0.016
R	RP2	3-	2016	400	14.92	80	11.94	0.016
R	RP2	3-	2016	380	15.33	80	12.26	0.016
R	RP2	3-	2016	360	15.73	80	12.58	0.017
R	RP2	3-	2016	340	16.15	80	12.92	0.028
R	RP2	3-	2016	320	16.85	80	13.48	0.028
R	RP2	3-	2016	300	17.55	80	14.04	0.028
R	RP2	3-	2016	280	18.25	80	14.6	0.028
R	RP2	3-	2016	260	18.95	80	15.16	0.0285
R	RP2	3-	2016	240	19.66	80	15.73	0.0425
R	RP2	3-	2016	220	20.72	80	16.58	0.044
R	RP2	3-	2016	200	21.83	80	17.46	0.0445
R	RP2	3-	2016	180	22.94	80	18.35	0.0445
R	RP2	3-	2016	160	24.05	80	19.24	0.098
R	RP2	3-	2016	140	26.5	80	21.2	0.092
R	RP2	3-	2016	120	28.8	80	23.04	0.134
R	RP2	3-	2016	100	32.15	80	25.72	0
R	RP2	3+	2016	99999999	7.97	80	6.38	0
R	RP2	3+	2016	1400	7.97	80	6.38	0.0015
R	RP2	3+	2016	1380	8.01	80	6.41	0.0015
R	RP2	3+	2016	1360	8.05	80	6.44	0.0015
R	RP2	3+	2016	1340	8.09	80	6.47	0.0015
R	RP2	3+	2016	1320	8.13	80	6.5	0.002
R	RP2	3+	2016	1300	8.17	80	6.54	0.0015
R	RP2	3+	2016	1280	8.21	80	6.57	0.0015
R	RP2	3+	2016	1260	8.25	80	6.6	0.003
R	RP2	3+	2016	1240	8.32	80	6.66	0.002
R	RP2	3+	2016	1220	8.38	80	6.7	0.003
R	RP2	3+	2016	1200	8.45	80	6.76	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	3+	2016	1180	8.51	80	6.81	0.0025
R	RP2	3+	2016	1160	8.58	80	6.86	0.0025
R	RP2	3+	2016	1140	8.64	80	6.91	0.003
R	RP2	3+	2016	1120	8.71	80	6.97	0.003
R	RP2	3+	2016	1100	8.79	80	7.03	0.0035
R	RP2	3+	2016	1080	8.88	80	7.1	0.0035
R	RP2	3+	2016	1060	8.96	80	7.17	0.0035
R	RP2	3+	2016	1040	9.05	80	7.24	0.003
R	RP2	3+	2016	1020	9.13	80	7.3	0.004
R	RP2	3+	2016	1000	9.22	80	7.38	0.003
R	RP2	3+	2016	980	9.3	80	7.44	0.0035
R	RP2	3+	2016	960	9.39	80	7.51	0.004
R	RP2	3+	2016	940	9.49	80	7.59	0.004
R	RP2	3+	2016	920	9.59	80	7.67	0.0045
R	RP2	3+	2016	900	9.7	80	7.76	0.004
R	RP2	3+	2016	880	9.8	80	7.84	0.004
R	RP2	3+	2016	860	9.9	80	7.92	0.004
R	RP2	3+	2016	840	10	80	8	0.004
R	RP2	3+	2016	820	10.1	80	8.08	0.0045
R	RP2	3+	2016	800	10.21	80	8.17	0.005
R	RP2	3+	2016	780	10.34	80	8.27	0.0055
R	RP2	3+	2016	760	10.48	80	8.38	0.0055
R	RP2	3+	2016	740	10.61	80	8.49	0.0055
R	RP2	3+	2016	720	10.75	80	8.6	0.005
R	RP2	3+	2016	700	10.88	80	8.7	0.006
R	RP2	3+	2016	680	11.02	80	8.82	0.0055
R	RP2	3+	2016	660	11.16	80	8.93	0.0075
R	RP2	3+	2016	640	11.35	80	9.08	0.0075
R	RP2	3+	2016	620	11.54	80	9.23	0.0075
R	RP2	3+	2016	600	11.73	80	9.38	0.008
R	RP2	3+	2016	580	11.92	80	9.54	0.0075
R	RP2	3+	2016	560	12.11	80	9.69	0.0075
R	RP2	3+	2016	540	12.3	80	9.84	0.0075
R	RP2	3+	2016	520	12.49	80	9.99	0.016
R	RP2	3+	2016	500	12.89	80	10.31	0.0165
R	RP2	3+	2016	480	13.3	80	10.64	0.016
R	RP2	3+	2016	460	13.7	80	10.96	0.0165
R	RP2	3+	2016	440	14.11	80	11.29	0.0165
R	RP2	3+	2016	420	14.52	80	11.62	0.016
R	RP2	3+	2016	400	14.92	80	11.94	0.016
R	RP2	3+	2016	380	15.33	80	12.26	0.016
R	RP2	3+	2016	360	15.73	80	12.58	0.017
R	RP2	3+	2016	340	16.15	80	12.92	0.028
R	RP2	3+	2016	320	16.85	80	13.48	0.028

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	3+	2016	300	17.55	80	14.04	0.028
R	RP2	3+	2016	280	18.25	80	14.6	0.028
R	RP2	3+	2016	260	18.95	80	15.16	0.0285
R	RP2	3+	2016	240	19.66	80	15.73	0.0425
R	RP2	3+	2016	220	20.72	80	16.58	0.044
R	RP2	3+	2016	200	21.83	80	17.46	0.0445
R	RP2	3+	2016	180	22.94	80	18.35	0.0445
R	RP2	3+	2016	160	24.05	80	19.24	0.098
R	RP2	3+	2016	140	26.5	80	21.2	0.092
R	RP2	3+	2016	120	28.8	80	23.04	0.134
R	RP2	3+	2016	100	32.15	80	25.72	0
R	RP2	4-	2016	99999999	7.97	100	7.97	0
R	RP2	4-	2016	1400	7.97	100	7.97	0.002
R	RP2	4-	2016	1380	8.01	100	8.01	0.002
R	RP2	4-	2016	1360	8.05	100	8.05	0.002
R	RP2	4-	2016	1340	8.09	100	8.09	0.002
R	RP2	4-	2016	1320	8.13	100	8.13	0.002
R	RP2	4-	2016	1300	8.17	100	8.17	0.002
R	RP2	4-	2016	1280	8.21	100	8.21	0.002
R	RP2	4-	2016	1260	8.25	100	8.25	0.0035
R	RP2	4-	2016	1240	8.32	100	8.32	0.003
R	RP2	4-	2016	1220	8.38	100	8.38	0.0035
R	RP2	4-	2016	1200	8.45	100	8.45	0.003
R	RP2	4-	2016	1180	8.51	100	8.51	0.0035
R	RP2	4-	2016	1160	8.58	100	8.58	0.003
R	RP2	4-	2016	1140	8.64	100	8.64	0.0035
R	RP2	4-	2016	1120	8.71	100	8.71	0.004
R	RP2	4-	2016	1100	8.79	100	8.79	0.0045
R	RP2	4-	2016	1080	8.88	100	8.88	0.004
R	RP2	4-	2016	1060	8.96	100	8.96	0.0045
R	RP2	4-	2016	1040	9.05	100	9.05	0.004
R	RP2	4-	2016	1020	9.13	100	9.13	0.0045
R	RP2	4-	2016	1000	9.22	100	9.22	0.004
R	RP2	4-	2016	980	9.3	100	9.3	0.0045
R	RP2	4-	2016	960	9.39	100	9.39	0.005
R	RP2	4-	2016	940	9.49	100	9.49	0.005
R	RP2	4-	2016	920	9.59	100	9.59	0.0055
R	RP2	4-	2016	900	9.7	100	9.7	0.005
R	RP2	4-	2016	880	9.8	100	9.8	0.005
R	RP2	4-	2016	860	9.9	100	9.9	0.005
R	RP2	4-	2016	840	10	100	10	0.005
R	RP2	4-	2016	820	10.1	100	10.1	0.0055
R	RP2	4-	2016	800	10.21	100	10.21	0.0065
R	RP2	4-	2016	780	10.34	100	10.34	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	4-	2016	760	10.48	100	10.48	0.0065
R	RP2	4-	2016	740	10.61	100	10.61	0.007
R	RP2	4-	2016	720	10.75	100	10.75	0.0065
R	RP2	4-	2016	700	10.88	100	10.88	0.007
R	RP2	4-	2016	680	11.02	100	11.02	0.007
R	RP2	4-	2016	660	11.16	100	11.16	0.0095
R	RP2	4-	2016	640	11.35	100	11.35	0.0095
R	RP2	4-	2016	620	11.54	100	11.54	0.0095
R	RP2	4-	2016	600	11.73	100	11.73	0.0095
R	RP2	4-	2016	580	11.92	100	11.92	0.0095
R	RP2	4-	2016	560	12.11	100	12.11	0.0095
R	RP2	4-	2016	540	12.3	100	12.3	0.0095
R	RP2	4-	2016	520	12.49	100	12.49	0.02
R	RP2	4-	2016	500	12.89	100	12.89	0.0205
R	RP2	4-	2016	480	13.3	100	13.3	0.02
R	RP2	4-	2016	460	13.7	100	13.7	0.0205
R	RP2	4-	2016	440	14.11	100	14.11	0.0205
R	RP2	4-	2016	420	14.52	100	14.52	0.02
R	RP2	4-	2016	400	14.92	100	14.92	0.0205
R	RP2	4-	2016	380	15.33	100	15.33	0.02
R	RP2	4-	2016	360	15.73	100	15.73	0.021
R	RP2	4-	2016	340	16.15	100	16.15	0.035
R	RP2	4-	2016	320	16.85	100	16.85	0.035
R	RP2	4-	2016	300	17.55	100	17.55	0.035
R	RP2	4-	2016	280	18.25	100	18.25	0.035
R	RP2	4-	2016	260	18.95	100	18.95	0.0355
R	RP2	4-	2016	240	19.66	100	19.66	0.053
R	RP2	4-	2016	220	20.72	100	20.72	0.0555
R	RP2	4-	2016	200	21.83	100	21.83	0.0555
R	RP2	4-	2016	180	22.94	100	22.94	0.0555
R	RP2	4-	2016	160	24.05	100	24.05	0.1225
R	RP2	4-	2016	140	26.5	100	26.5	0.115
R	RP2	4-	2016	120	28.8	100	28.8	0.1675
R	RP2	4-	2016	100	32.15	100	32.15	0
R	RP2	4+	2016	9999999	7.97	100	7.97	0
R	RP2	4+	2016	1400	7.97	100	7.97	0.002
R	RP2	4+	2016	1380	8.01	100	8.01	0.002
R	RP2	4+	2016	1360	8.05	100	8.05	0.002
R	RP2	4+	2016	1340	8.09	100	8.09	0.002
R	RP2	4+	2016	1320	8.13	100	8.13	0.002
R	RP2	4+	2016	1300	8.17	100	8.17	0.002
R	RP2	4+	2016	1280	8.21	100	8.21	0.002
R	RP2	4+	2016	1260	8.25	100	8.25	0.0035
R	RP2	4+	2016	1240	8.32	100	8.32	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	4+	2016	1220	8.38	100	8.38	0.0035
R	RP2	4+	2016	1200	8.45	100	8.45	0.003
R	RP2	4+	2016	1180	8.51	100	8.51	0.0035
R	RP2	4+	2016	1160	8.58	100	8.58	0.003
R	RP2	4+	2016	1140	8.64	100	8.64	0.0035
R	RP2	4+	2016	1120	8.71	100	8.71	0.004
R	RP2	4+	2016	1100	8.79	100	8.79	0.0045
R	RP2	4+	2016	1080	8.88	100	8.88	0.004
R	RP2	4+	2016	1060	8.96	100	8.96	0.0045
R	RP2	4+	2016	1040	9.05	100	9.05	0.004
R	RP2	4+	2016	1020	9.13	100	9.13	0.0045
R	RP2	4+	2016	1000	9.22	100	9.22	0.004
R	RP2	4+	2016	980	9.3	100	9.3	0.0045
R	RP2	4+	2016	960	9.39	100	9.39	0.005
R	RP2	4+	2016	940	9.49	100	9.49	0.005
R	RP2	4+	2016	920	9.59	100	9.59	0.0055
R	RP2	4+	2016	900	9.7	100	9.7	0.005
R	RP2	4+	2016	880	9.8	100	9.8	0.005
R	RP2	4+	2016	860	9.9	100	9.9	0.005
R	RP2	4+	2016	840	10	100	10	0.005
R	RP2	4+	2016	820	10.1	100	10.1	0.0055
R	RP2	4+	2016	800	10.21	100	10.21	0.0065
R	RP2	4+	2016	780	10.34	100	10.34	0.007
R	RP2	4+	2016	760	10.48	100	10.48	0.0065
R	RP2	4+	2016	740	10.61	100	10.61	0.007
R	RP2	4+	2016	720	10.75	100	10.75	0.0065
R	RP2	4+	2016	700	10.88	100	10.88	0.007
R	RP2	4+	2016	680	11.02	100	11.02	0.007
R	RP2	4+	2016	660	11.16	100	11.16	0.0095
R	RP2	4+	2016	640	11.35	100	11.35	0.0095
R	RP2	4+	2016	620	11.54	100	11.54	0.0095
R	RP2	4+	2016	600	11.73	100	11.73	0.0095
R	RP2	4+	2016	580	11.92	100	11.92	0.0095
R	RP2	4+	2016	560	12.11	100	12.11	0.0095
R	RP2	4+	2016	540	12.3	100	12.3	0.0095
R	RP2	4+	2016	520	12.49	100	12.49	0.02
R	RP2	4+	2016	500	12.89	100	12.89	0.0205
R	RP2	4+	2016	480	13.3	100	13.3	0.02
R	RP2	4+	2016	460	13.7	100	13.7	0.0205
R	RP2	4+	2016	440	14.11	100	14.11	0.0205
R	RP2	4+	2016	420	14.52	100	14.52	0.02
R	RP2	4+	2016	400	14.92	100	14.92	0.0205
R	RP2	4+	2016	380	15.33	100	15.33	0.02
R	RP2	4+	2016	360	15.73	100	15.73	0.021

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	4+	2016	340	16.15	100	16.15	0.035
R	RP2	4+	2016	320	16.85	100	16.85	0.035
R	RP2	4+	2016	300	17.55	100	17.55	0.035
R	RP2	4+	2016	280	18.25	100	18.25	0.035
R	RP2	4+	2016	260	18.95	100	18.95	0.0355
R	RP2	4+	2016	240	19.66	100	19.66	0.053
R	RP2	4+	2016	220	20.72	100	20.72	0.0555
R	RP2	4+	2016	200	21.83	100	21.83	0.0555
R	RP2	4+	2016	180	22.94	100	22.94	0.0555
R	RP2	4+	2016	160	24.05	100	24.05	0.1225
R	RP2	4+	2016	140	26.5	100	26.5	0.115
R	RP2	4+	2016	120	28.8	100	28.8	0.1675
R	RP2	4+	2016	100	32.15	100	32.15	0
R	RP2	5-	2016	99999999	7.97	120	9.56	0
R	RP2	5-	2016	1400	7.97	120	9.56	0.0025
R	RP2	5-	2016	1380	8.01	120	9.61	0.0025
R	RP2	5-	2016	1360	8.05	120	9.66	0.0025
R	RP2	5-	2016	1340	8.09	120	9.71	0.0025
R	RP2	5-	2016	1320	8.13	120	9.76	0.002
R	RP2	5-	2016	1300	8.17	120	9.8	0.0025
R	RP2	5-	2016	1280	8.21	120	9.85	0.0025
R	RP2	5-	2016	1260	8.25	120	9.9	0.004
R	RP2	5-	2016	1240	8.32	120	9.98	0.004
R	RP2	5-	2016	1220	8.38	120	10.06	0.004
R	RP2	5-	2016	1200	8.45	120	10.14	0.0035
R	RP2	5-	2016	1180	8.51	120	10.21	0.0045
R	RP2	5-	2016	1160	8.58	120	10.3	0.0035
R	RP2	5-	2016	1140	8.64	120	10.37	0.004
R	RP2	5-	2016	1120	8.71	120	10.45	0.005
R	RP2	5-	2016	1100	8.79	120	10.55	0.0055
R	RP2	5-	2016	1080	8.88	120	10.66	0.0045
R	RP2	5-	2016	1060	8.96	120	10.75	0.0055
R	RP2	5-	2016	1040	9.05	120	10.86	0.005
R	RP2	5-	2016	1020	9.13	120	10.96	0.005
R	RP2	5-	2016	1000	9.22	120	11.06	0.005
R	RP2	5-	2016	980	9.3	120	11.16	0.0055
R	RP2	5-	2016	960	9.39	120	11.27	0.006
R	RP2	5-	2016	940	9.49	120	11.39	0.006
R	RP2	5-	2016	920	9.59	120	11.51	0.0065
R	RP2	5-	2016	900	9.7	120	11.64	0.006
R	RP2	5-	2016	880	9.8	120	11.76	0.006
R	RP2	5-	2016	860	9.9	120	11.88	0.006
R	RP2	5-	2016	840	10	120	12	0.006
R	RP2	5-	2016	820	10.1	120	12.12	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	5-	2016	800	10.21	120	12.25	0.008
R	RP2	5-	2016	780	10.34	120	12.41	0.0085
R	RP2	5-	2016	760	10.48	120	12.58	0.0075
R	RP2	5-	2016	740	10.61	120	12.73	0.0085
R	RP2	5-	2016	720	10.75	120	12.9	0.008
R	RP2	5-	2016	700	10.88	120	13.06	0.008
R	RP2	5-	2016	680	11.02	120	13.22	0.0085
R	RP2	5-	2016	660	11.16	120	13.39	0.0115
R	RP2	5-	2016	640	11.35	120	13.62	0.0115
R	RP2	5-	2016	620	11.54	120	13.85	0.0115
R	RP2	5-	2016	600	11.73	120	14.08	0.011
R	RP2	5-	2016	580	11.92	120	14.3	0.0115
R	RP2	5-	2016	560	12.11	120	14.53	0.0115
R	RP2	5-	2016	540	12.3	120	14.76	0.0115
R	RP2	5-	2016	520	12.49	120	14.99	0.024
R	RP2	5-	2016	500	12.89	120	15.47	0.0245
R	RP2	5-	2016	480	13.3	120	15.96	0.024
R	RP2	5-	2016	460	13.7	120	16.44	0.0245
R	RP2	5-	2016	440	14.11	120	16.93	0.0245
R	RP2	5-	2016	420	14.52	120	17.42	0.024
R	RP2	5-	2016	400	14.92	120	17.9	0.025
R	RP2	5-	2016	380	15.33	120	18.4	0.024
R	RP2	5-	2016	360	15.73	120	18.88	0.025
R	RP2	5-	2016	340	16.15	120	19.38	0.042
R	RP2	5-	2016	320	16.85	120	20.22	0.042
R	RP2	5-	2016	300	17.55	120	21.06	0.042
R	RP2	5-	2016	280	18.25	120	21.9	0.042
R	RP2	5-	2016	260	18.95	120	22.74	0.0425
R	RP2	5-	2016	240	19.66	120	23.59	0.0635
R	RP2	5-	2016	220	20.72	120	24.86	0.067
R	RP2	5-	2016	200	21.83	120	26.2	0.0665
R	RP2	5-	2016	180	22.94	120	27.53	0.0665
R	RP2	5-	2016	160	24.05	120	28.86	0.147
R	RP2	5-	2016	140	26.5	120	31.8	0.138
R	RP2	5-	2016	120	28.8	120	34.56	0.201
R	RP2	5-	2016	100	32.15	120	38.58	0
R	RP2	5+	2016	99999999	7.97	120	9.56	0
R	RP2	5+	2016	1400	7.97	120	9.56	0.0025
R	RP2	5+	2016	1380	8.01	120	9.61	0.0025
R	RP2	5+	2016	1360	8.05	120	9.66	0.0025
R	RP2	5+	2016	1340	8.09	120	9.71	0.0025
R	RP2	5+	2016	1320	8.13	120	9.76	0.002
R	RP2	5+	2016	1300	8.17	120	9.8	0.0025
R	RP2	5+	2016	1280	8.21	120	9.85	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	5+	2016	1260	8.25	120	9.9	0.004
R	RP2	5+	2016	1240	8.32	120	9.98	0.004
R	RP2	5+	2016	1220	8.38	120	10.06	0.004
R	RP2	5+	2016	1200	8.45	120	10.14	0.0035
R	RP2	5+	2016	1180	8.51	120	10.21	0.0045
R	RP2	5+	2016	1160	8.58	120	10.3	0.0035
R	RP2	5+	2016	1140	8.64	120	10.37	0.004
R	RP2	5+	2016	1120	8.71	120	10.45	0.005
R	RP2	5+	2016	1100	8.79	120	10.55	0.0055
R	RP2	5+	2016	1080	8.88	120	10.66	0.0045
R	RP2	5+	2016	1060	8.96	120	10.75	0.0055
R	RP2	5+	2016	1040	9.05	120	10.86	0.005
R	RP2	5+	2016	1020	9.13	120	10.96	0.005
R	RP2	5+	2016	1000	9.22	120	11.06	0.005
R	RP2	5+	2016	980	9.3	120	11.16	0.0055
R	RP2	5+	2016	960	9.39	120	11.27	0.006
R	RP2	5+	2016	940	9.49	120	11.39	0.006
R	RP2	5+	2016	920	9.59	120	11.51	0.0065
R	RP2	5+	2016	900	9.7	120	11.64	0.006
R	RP2	5+	2016	880	9.8	120	11.76	0.006
R	RP2	5+	2016	860	9.9	120	11.88	0.006
R	RP2	5+	2016	840	10	120	12	0.006
R	RP2	5+	2016	820	10.1	120	12.12	0.0065
R	RP2	5+	2016	800	10.21	120	12.25	0.008
R	RP2	5+	2016	780	10.34	120	12.41	0.0085
R	RP2	5+	2016	760	10.48	120	12.58	0.0075
R	RP2	5+	2016	740	10.61	120	12.73	0.0085
R	RP2	5+	2016	720	10.75	120	12.9	0.008
R	RP2	5+	2016	700	10.88	120	13.06	0.008
R	RP2	5+	2016	680	11.02	120	13.22	0.0085
R	RP2	5+	2016	660	11.16	120	13.39	0.0115
R	RP2	5+	2016	640	11.35	120	13.62	0.0115
R	RP2	5+	2016	620	11.54	120	13.85	0.0115
R	RP2	5+	2016	600	11.73	120	14.08	0.011
R	RP2	5+	2016	580	11.92	120	14.3	0.0115
R	RP2	5+	2016	560	12.11	120	14.53	0.0115
R	RP2	5+	2016	540	12.3	120	14.76	0.0115
R	RP2	5+	2016	520	12.49	120	14.99	0.024
R	RP2	5+	2016	500	12.89	120	15.47	0.0245
R	RP2	5+	2016	480	13.3	120	15.96	0.024
R	RP2	5+	2016	460	13.7	120	16.44	0.0245
R	RP2	5+	2016	440	14.11	120	16.93	0.0245
R	RP2	5+	2016	420	14.52	120	17.42	0.024
R	RP2	5+	2016	400	14.92	120	17.9	0.025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	5+	2016	380	15.33	120	18.4	0.024
R	RP2	5+	2016	360	15.73	120	18.88	0.025
R	RP2	5+	2016	340	16.15	120	19.38	0.042
R	RP2	5+	2016	320	16.85	120	20.22	0.042
R	RP2	5+	2016	300	17.55	120	21.06	0.042
R	RP2	5+	2016	280	18.25	120	21.9	0.042
R	RP2	5+	2016	260	18.95	120	22.74	0.0425
R	RP2	5+	2016	240	19.66	120	23.59	0.0635
R	RP2	5+	2016	220	20.72	120	24.86	0.067
R	RP2	5+	2016	200	21.83	120	26.2	0.0665
R	RP2	5+	2016	180	22.94	120	27.53	0.0665
R	RP2	5+	2016	160	24.05	120	28.86	0.147
R	RP2	5+	2016	140	26.5	120	31.8	0.138
R	RP2	5+	2016	120	28.8	120	34.56	0.201
R	RP2	5+	2016	100	32.15	120	38.58	0
R	RP2	6-	2016	99999999	7.97	120	9.56	0
R	RP2	6-	2016	1400	7.97	120	9.56	0.0025
R	RP2	6-	2016	1380	8.01	120	9.61	0.0025
R	RP2	6-	2016	1360	8.05	120	9.66	0.0025
R	RP2	6-	2016	1340	8.09	120	9.71	0.0025
R	RP2	6-	2016	1320	8.13	120	9.76	0.002
R	RP2	6-	2016	1300	8.17	120	9.8	0.0025
R	RP2	6-	2016	1280	8.21	120	9.85	0.0025
R	RP2	6-	2016	1260	8.25	120	9.9	0.004
R	RP2	6-	2016	1240	8.32	120	9.98	0.004
R	RP2	6-	2016	1220	8.38	120	10.06	0.004
R	RP2	6-	2016	1200	8.45	120	10.14	0.0035
R	RP2	6-	2016	1180	8.51	120	10.21	0.0045
R	RP2	6-	2016	1160	8.58	120	10.3	0.0035
R	RP2	6-	2016	1140	8.64	120	10.37	0.004
R	RP2	6-	2016	1120	8.71	120	10.45	0.005
R	RP2	6-	2016	1100	8.79	120	10.55	0.0055
R	RP2	6-	2016	1080	8.88	120	10.66	0.0045
R	RP2	6-	2016	1060	8.96	120	10.75	0.0055
R	RP2	6-	2016	1040	9.05	120	10.86	0.005
R	RP2	6-	2016	1020	9.13	120	10.96	0.005
R	RP2	6-	2016	1000	9.22	120	11.06	0.005
R	RP2	6-	2016	980	9.3	120	11.16	0.0055
R	RP2	6-	2016	960	9.39	120	11.27	0.006
R	RP2	6-	2016	940	9.49	120	11.39	0.006
R	RP2	6-	2016	920	9.59	120	11.51	0.0065
R	RP2	6-	2016	900	9.7	120	11.64	0.006
R	RP2	6-	2016	880	9.8	120	11.76	0.006
R	RP2	6-	2016	860	9.9	120	11.88	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	6-	2016	840	10	120	12	0.006
R	RP2	6-	2016	820	10.1	120	12.12	0.0065
R	RP2	6-	2016	800	10.21	120	12.25	0.008
R	RP2	6-	2016	780	10.34	120	12.41	0.0085
R	RP2	6-	2016	760	10.48	120	12.58	0.0075
R	RP2	6-	2016	740	10.61	120	12.73	0.0085
R	RP2	6-	2016	720	10.75	120	12.9	0.008
R	RP2	6-	2016	700	10.88	120	13.06	0.008
R	RP2	6-	2016	680	11.02	120	13.22	0.0085
R	RP2	6-	2016	660	11.16	120	13.39	0.0115
R	RP2	6-	2016	640	11.35	120	13.62	0.0115
R	RP2	6-	2016	620	11.54	120	13.85	0.0115
R	RP2	6-	2016	600	11.73	120	14.08	0.011
R	RP2	6-	2016	580	11.92	120	14.3	0.0115
R	RP2	6-	2016	560	12.11	120	14.53	0.0115
R	RP2	6-	2016	540	12.3	120	14.76	0.0115
R	RP2	6-	2016	520	12.49	120	14.99	0.024
R	RP2	6-	2016	500	12.89	120	15.47	0.0245
R	RP2	6-	2016	480	13.3	120	15.96	0.024
R	RP2	6-	2016	460	13.7	120	16.44	0.0245
R	RP2	6-	2016	440	14.11	120	16.93	0.0245
R	RP2	6-	2016	420	14.52	120	17.42	0.024
R	RP2	6-	2016	400	14.92	120	17.9	0.025
R	RP2	6-	2016	380	15.33	120	18.4	0.024
R	RP2	6-	2016	360	15.73	120	18.88	0.025
R	RP2	6-	2016	340	16.15	120	19.38	0.042
R	RP2	6-	2016	320	16.85	120	20.22	0.042
R	RP2	6-	2016	300	17.55	120	21.06	0.042
R	RP2	6-	2016	280	18.25	120	21.9	0.042
R	RP2	6-	2016	260	18.95	120	22.74	0.0425
R	RP2	6-	2016	240	19.66	120	23.59	0.0635
R	RP2	6-	2016	220	20.72	120	24.86	0.067
R	RP2	6-	2016	200	21.83	120	26.2	0.0665
R	RP2	6-	2016	180	22.94	120	27.53	0.0665
R	RP2	6-	2016	160	24.05	120	28.86	0.147
R	RP2	6-	2016	140	26.5	120	31.8	0.138
R	RP2	6-	2016	120	28.8	120	34.56	0.201
R	RP2	6-	2016	100	32.15	120	38.58	0
R	RP2	6+	2016	99999999	7.97	120	9.56	0
R	RP2	6+	2016	1400	7.97	120	9.56	0.0025
R	RP2	6+	2016	1380	8.01	120	9.61	0.0025
R	RP2	6+	2016	1360	8.05	120	9.66	0.0025
R	RP2	6+	2016	1340	8.09	120	9.71	0.0025
R	RP2	6+	2016	1320	8.13	120	9.76	0.002

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	6+	2016	1300	8.17	120	9.8	0.0025
R	RP2	6+	2016	1280	8.21	120	9.85	0.0025
R	RP2	6+	2016	1260	8.25	120	9.9	0.004
R	RP2	6+	2016	1240	8.32	120	9.98	0.004
R	RP2	6+	2016	1220	8.38	120	10.06	0.004
R	RP2	6+	2016	1200	8.45	120	10.14	0.0035
R	RP2	6+	2016	1180	8.51	120	10.21	0.0045
R	RP2	6+	2016	1160	8.58	120	10.3	0.0035
R	RP2	6+	2016	1140	8.64	120	10.37	0.004
R	RP2	6+	2016	1120	8.71	120	10.45	0.005
R	RP2	6+	2016	1100	8.79	120	10.55	0.0055
R	RP2	6+	2016	1080	8.88	120	10.66	0.0045
R	RP2	6+	2016	1060	8.96	120	10.75	0.0055
R	RP2	6+	2016	1040	9.05	120	10.86	0.005
R	RP2	6+	2016	1020	9.13	120	10.96	0.005
R	RP2	6+	2016	1000	9.22	120	11.06	0.005
R	RP2	6+	2016	980	9.3	120	11.16	0.0055
R	RP2	6+	2016	960	9.39	120	11.27	0.006
R	RP2	6+	2016	940	9.49	120	11.39	0.006
R	RP2	6+	2016	920	9.59	120	11.51	0.0065
R	RP2	6+	2016	900	9.7	120	11.64	0.006
R	RP2	6+	2016	880	9.8	120	11.76	0.006
R	RP2	6+	2016	860	9.9	120	11.88	0.006
R	RP2	6+	2016	840	10	120	12	0.006
R	RP2	6+	2016	820	10.1	120	12.12	0.0065
R	RP2	6+	2016	800	10.21	120	12.25	0.008
R	RP2	6+	2016	780	10.34	120	12.41	0.0085
R	RP2	6+	2016	760	10.48	120	12.58	0.0075
R	RP2	6+	2016	740	10.61	120	12.73	0.0085
R	RP2	6+	2016	720	10.75	120	12.9	0.008
R	RP2	6+	2016	700	10.88	120	13.06	0.008
R	RP2	6+	2016	680	11.02	120	13.22	0.0085
R	RP2	6+	2016	660	11.16	120	13.39	0.0115
R	RP2	6+	2016	640	11.35	120	13.62	0.0115
R	RP2	6+	2016	620	11.54	120	13.85	0.0115
R	RP2	6+	2016	600	11.73	120	14.08	0.011
R	RP2	6+	2016	580	11.92	120	14.3	0.0115
R	RP2	6+	2016	560	12.11	120	14.53	0.0115
R	RP2	6+	2016	540	12.3	120	14.76	0.0115
R	RP2	6+	2016	520	12.49	120	14.99	0.024
R	RP2	6+	2016	500	12.89	120	15.47	0.0245
R	RP2	6+	2016	480	13.3	120	15.96	0.024
R	RP2	6+	2016	460	13.7	120	16.44	0.0245
R	RP2	6+	2016	440	14.11	120	16.93	0.0245

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	6+	2016	420	14.52	120	17.42	0.024
R	RP2	6+	2016	400	14.92	120	17.9	0.025
R	RP2	6+	2016	380	15.33	120	18.4	0.024
R	RP2	6+	2016	360	15.73	120	18.88	0.025
R	RP2	6+	2016	340	16.15	120	19.38	0.042
R	RP2	6+	2016	320	16.85	120	20.22	0.042
R	RP2	6+	2016	300	17.55	120	21.06	0.042
R	RP2	6+	2016	280	18.25	120	21.9	0.042
R	RP2	6+	2016	260	18.95	120	22.74	0.0425
R	RP2	6+	2016	240	19.66	120	23.59	0.0635
R	RP2	6+	2016	220	20.72	120	24.86	0.067
R	RP2	6+	2016	200	21.83	120	26.2	0.0665
R	RP2	6+	2016	180	22.94	120	27.53	0.0665
R	RP2	6+	2016	160	24.05	120	28.86	0.147
R	RP2	6+	2016	140	26.5	120	31.8	0.138
R	RP2	6+	2016	120	28.8	120	34.56	0.201
R	RP2	6+	2016	100	32.15	120	38.58	0
R	RP2	7-	2016	99999999	7.97	120	9.56	0
R	RP2	7-	2016	1400	7.97	120	9.56	0.0025
R	RP2	7-	2016	1380	8.01	120	9.61	0.0025
R	RP2	7-	2016	1360	8.05	120	9.66	0.0025
R	RP2	7-	2016	1340	8.09	120	9.71	0.0025
R	RP2	7-	2016	1320	8.13	120	9.76	0.002
R	RP2	7-	2016	1300	8.17	120	9.8	0.0025
R	RP2	7-	2016	1280	8.21	120	9.85	0.0025
R	RP2	7-	2016	1260	8.25	120	9.9	0.004
R	RP2	7-	2016	1240	8.32	120	9.98	0.004
R	RP2	7-	2016	1220	8.38	120	10.06	0.004
R	RP2	7-	2016	1200	8.45	120	10.14	0.0035
R	RP2	7-	2016	1180	8.51	120	10.21	0.0045
R	RP2	7-	2016	1160	8.58	120	10.3	0.0035
R	RP2	7-	2016	1140	8.64	120	10.37	0.004
R	RP2	7-	2016	1120	8.71	120	10.45	0.005
R	RP2	7-	2016	1100	8.79	120	10.55	0.0055
R	RP2	7-	2016	1080	8.88	120	10.66	0.0045
R	RP2	7-	2016	1060	8.96	120	10.75	0.0055
R	RP2	7-	2016	1040	9.05	120	10.86	0.005
R	RP2	7-	2016	1020	9.13	120	10.96	0.005
R	RP2	7-	2016	1000	9.22	120	11.06	0.005
R	RP2	7-	2016	980	9.3	120	11.16	0.0055
R	RP2	7-	2016	960	9.39	120	11.27	0.006
R	RP2	7-	2016	940	9.49	120	11.39	0.006
R	RP2	7-	2016	920	9.59	120	11.51	0.0065
R	RP2	7-	2016	900	9.7	120	11.64	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	7-	2016	880	9.8	120	11.76	0.006
R	RP2	7-	2016	860	9.9	120	11.88	0.006
R	RP2	7-	2016	840	10	120	12	0.006
R	RP2	7-	2016	820	10.1	120	12.12	0.0065
R	RP2	7-	2016	800	10.21	120	12.25	0.008
R	RP2	7-	2016	780	10.34	120	12.41	0.0085
R	RP2	7-	2016	760	10.48	120	12.58	0.0075
R	RP2	7-	2016	740	10.61	120	12.73	0.0085
R	RP2	7-	2016	720	10.75	120	12.9	0.008
R	RP2	7-	2016	700	10.88	120	13.06	0.008
R	RP2	7-	2016	680	11.02	120	13.22	0.0085
R	RP2	7-	2016	660	11.16	120	13.39	0.0115
R	RP2	7-	2016	640	11.35	120	13.62	0.0115
R	RP2	7-	2016	620	11.54	120	13.85	0.0115
R	RP2	7-	2016	600	11.73	120	14.08	0.011
R	RP2	7-	2016	580	11.92	120	14.3	0.0115
R	RP2	7-	2016	560	12.11	120	14.53	0.0115
R	RP2	7-	2016	540	12.3	120	14.76	0.0115
R	RP2	7-	2016	520	12.49	120	14.99	0.024
R	RP2	7-	2016	500	12.89	120	15.47	0.0245
R	RP2	7-	2016	480	13.3	120	15.96	0.024
R	RP2	7-	2016	460	13.7	120	16.44	0.0245
R	RP2	7-	2016	440	14.11	120	16.93	0.0245
R	RP2	7-	2016	420	14.52	120	17.42	0.024
R	RP2	7-	2016	400	14.92	120	17.9	0.025
R	RP2	7-	2016	380	15.33	120	18.4	0.024
R	RP2	7-	2016	360	15.73	120	18.88	0.025
R	RP2	7-	2016	340	16.15	120	19.38	0.042
R	RP2	7-	2016	320	16.85	120	20.22	0.042
R	RP2	7-	2016	300	17.55	120	21.06	0.042
R	RP2	7-	2016	280	18.25	120	21.9	0.042
R	RP2	7-	2016	260	18.95	120	22.74	0.0425
R	RP2	7-	2016	240	19.66	120	23.59	0.0635
R	RP2	7-	2016	220	20.72	120	24.86	0.067
R	RP2	7-	2016	200	21.83	120	26.2	0.0665
R	RP2	7-	2016	180	22.94	120	27.53	0.0665
R	RP2	7-	2016	160	24.05	120	28.86	0.147
R	RP2	7-	2016	140	26.5	120	31.8	0.138
R	RP2	7-	2016	120	28.8	120	34.56	0.201
R	RP2	7-	2016	100	32.15	120	38.58	0
R	RP2	7+	2016	99999999	7.97	120	9.56	0
R	RP2	7+	2016	1400	7.97	120	9.56	0.0025
R	RP2	7+	2016	1380	8.01	120	9.61	0.0025
R	RP2	7+	2016	1360	8.05	120	9.66	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	7+	2016	1340	8.09	120	9.71	0.0025
R	RP2	7+	2016	1320	8.13	120	9.76	0.002
R	RP2	7+	2016	1300	8.17	120	9.8	0.0025
R	RP2	7+	2016	1280	8.21	120	9.85	0.0025
R	RP2	7+	2016	1260	8.25	120	9.9	0.004
R	RP2	7+	2016	1240	8.32	120	9.98	0.004
R	RP2	7+	2016	1220	8.38	120	10.06	0.004
R	RP2	7+	2016	1200	8.45	120	10.14	0.0035
R	RP2	7+	2016	1180	8.51	120	10.21	0.0045
R	RP2	7+	2016	1160	8.58	120	10.3	0.0035
R	RP2	7+	2016	1140	8.64	120	10.37	0.004
R	RP2	7+	2016	1120	8.71	120	10.45	0.005
R	RP2	7+	2016	1100	8.79	120	10.55	0.0055
R	RP2	7+	2016	1080	8.88	120	10.66	0.0045
R	RP2	7+	2016	1060	8.96	120	10.75	0.0055
R	RP2	7+	2016	1040	9.05	120	10.86	0.005
R	RP2	7+	2016	1020	9.13	120	10.96	0.005
R	RP2	7+	2016	1000	9.22	120	11.06	0.005
R	RP2	7+	2016	980	9.3	120	11.16	0.0055
R	RP2	7+	2016	960	9.39	120	11.27	0.006
R	RP2	7+	2016	940	9.49	120	11.39	0.006
R	RP2	7+	2016	920	9.59	120	11.51	0.0065
R	RP2	7+	2016	900	9.7	120	11.64	0.006
R	RP2	7+	2016	880	9.8	120	11.76	0.006
R	RP2	7+	2016	860	9.9	120	11.88	0.006
R	RP2	7+	2016	840	10	120	12	0.006
R	RP2	7+	2016	820	10.1	120	12.12	0.0065
R	RP2	7+	2016	800	10.21	120	12.25	0.008
R	RP2	7+	2016	780	10.34	120	12.41	0.0085
R	RP2	7+	2016	760	10.48	120	12.58	0.0075
R	RP2	7+	2016	740	10.61	120	12.73	0.0085
R	RP2	7+	2016	720	10.75	120	12.9	0.008
R	RP2	7+	2016	700	10.88	120	13.06	0.008
R	RP2	7+	2016	680	11.02	120	13.22	0.0085
R	RP2	7+	2016	660	11.16	120	13.39	0.0115
R	RP2	7+	2016	640	11.35	120	13.62	0.0115
R	RP2	7+	2016	620	11.54	120	13.85	0.0115
R	RP2	7+	2016	600	11.73	120	14.08	0.011
R	RP2	7+	2016	580	11.92	120	14.3	0.0115
R	RP2	7+	2016	560	12.11	120	14.53	0.0115
R	RP2	7+	2016	540	12.3	120	14.76	0.0115
R	RP2	7+	2016	520	12.49	120	14.99	0.024
R	RP2	7+	2016	500	12.89	120	15.47	0.0245
R	RP2	7+	2016	480	13.3	120	15.96	0.024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	7+	2016	460	13.7	120	16.44	0.0245
R	RP2	7+	2016	440	14.11	120	16.93	0.0245
R	RP2	7+	2016	420	14.52	120	17.42	0.024
R	RP2	7+	2016	400	14.92	120	17.9	0.025
R	RP2	7+	2016	380	15.33	120	18.4	0.024
R	RP2	7+	2016	360	15.73	120	18.88	0.025
R	RP2	7+	2016	340	16.15	120	19.38	0.042
R	RP2	7+	2016	320	16.85	120	20.22	0.042
R	RP2	7+	2016	300	17.55	120	21.06	0.042
R	RP2	7+	2016	280	18.25	120	21.9	0.042
R	RP2	7+	2016	260	18.95	120	22.74	0.0425
R	RP2	7+	2016	240	19.66	120	23.59	0.0635
R	RP2	7+	2016	220	20.72	120	24.86	0.067
R	RP2	7+	2016	200	21.83	120	26.2	0.0665
R	RP2	7+	2016	180	22.94	120	27.53	0.0665
R	RP2	7+	2016	160	24.05	120	28.86	0.147
R	RP2	7+	2016	140	26.5	120	31.8	0.138
R	RP2	7+	2016	120	28.8	120	34.56	0.201
R	RP2	7+	2016	100	32.15	120	38.58	0
R	RP2	8-	2016	99999999	7.97	120	9.56	0
R	RP2	8-	2016	1400	7.97	120	9.56	0.0025
R	RP2	8-	2016	1380	8.01	120	9.61	0.0025
R	RP2	8-	2016	1360	8.05	120	9.66	0.0025
R	RP2	8-	2016	1340	8.09	120	9.71	0.0025
R	RP2	8-	2016	1320	8.13	120	9.76	0.002
R	RP2	8-	2016	1300	8.17	120	9.8	0.0025
R	RP2	8-	2016	1280	8.21	120	9.85	0.0025
R	RP2	8-	2016	1260	8.25	120	9.9	0.004
R	RP2	8-	2016	1240	8.32	120	9.98	0.004
R	RP2	8-	2016	1220	8.38	120	10.06	0.004
R	RP2	8-	2016	1200	8.45	120	10.14	0.0035
R	RP2	8-	2016	1180	8.51	120	10.21	0.0045
R	RP2	8-	2016	1160	8.58	120	10.3	0.0035
R	RP2	8-	2016	1140	8.64	120	10.37	0.004
R	RP2	8-	2016	1120	8.71	120	10.45	0.005
R	RP2	8-	2016	1100	8.79	120	10.55	0.0055
R	RP2	8-	2016	1080	8.88	120	10.66	0.0045
R	RP2	8-	2016	1060	8.96	120	10.75	0.0055
R	RP2	8-	2016	1040	9.05	120	10.86	0.005
R	RP2	8-	2016	1020	9.13	120	10.96	0.005
R	RP2	8-	2016	1000	9.22	120	11.06	0.005
R	RP2	8-	2016	980	9.3	120	11.16	0.0055
R	RP2	8-	2016	960	9.39	120	11.27	0.006
R	RP2	8-	2016	940	9.49	120	11.39	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	8-	2016	920	9.59	120	11.51	0.0065
R	RP2	8-	2016	900	9.7	120	11.64	0.006
R	RP2	8-	2016	880	9.8	120	11.76	0.006
R	RP2	8-	2016	860	9.9	120	11.88	0.006
R	RP2	8-	2016	840	10	120	12	0.006
R	RP2	8-	2016	820	10.1	120	12.12	0.0065
R	RP2	8-	2016	800	10.21	120	12.25	0.008
R	RP2	8-	2016	780	10.34	120	12.41	0.0085
R	RP2	8-	2016	760	10.48	120	12.58	0.0075
R	RP2	8-	2016	740	10.61	120	12.73	0.0085
R	RP2	8-	2016	720	10.75	120	12.9	0.008
R	RP2	8-	2016	700	10.88	120	13.06	0.008
R	RP2	8-	2016	680	11.02	120	13.22	0.0085
R	RP2	8-	2016	660	11.16	120	13.39	0.0115
R	RP2	8-	2016	640	11.35	120	13.62	0.0115
R	RP2	8-	2016	620	11.54	120	13.85	0.0115
R	RP2	8-	2016	600	11.73	120	14.08	0.011
R	RP2	8-	2016	580	11.92	120	14.3	0.0115
R	RP2	8-	2016	560	12.11	120	14.53	0.0115
R	RP2	8-	2016	540	12.3	120	14.76	0.0115
R	RP2	8-	2016	520	12.49	120	14.99	0.024
R	RP2	8-	2016	500	12.89	120	15.47	0.0245
R	RP2	8-	2016	480	13.3	120	15.96	0.024
R	RP2	8-	2016	460	13.7	120	16.44	0.0245
R	RP2	8-	2016	440	14.11	120	16.93	0.0245
R	RP2	8-	2016	420	14.52	120	17.42	0.024
R	RP2	8-	2016	400	14.92	120	17.9	0.025
R	RP2	8-	2016	380	15.33	120	18.4	0.024
R	RP2	8-	2016	360	15.73	120	18.88	0.025
R	RP2	8-	2016	340	16.15	120	19.38	0.042
R	RP2	8-	2016	320	16.85	120	20.22	0.042
R	RP2	8-	2016	300	17.55	120	21.06	0.042
R	RP2	8-	2016	280	18.25	120	21.9	0.042
R	RP2	8-	2016	260	18.95	120	22.74	0.0425
R	RP2	8-	2016	240	19.66	120	23.59	0.0635
R	RP2	8-	2016	220	20.72	120	24.86	0.067
R	RP2	8-	2016	200	21.83	120	26.2	0.0665
R	RP2	8-	2016	180	22.94	120	27.53	0.0665
R	RP2	8-	2016	160	24.05	120	28.86	0.147
R	RP2	8-	2016	140	26.5	120	31.8	0.138
R	RP2	8-	2016	120	28.8	120	34.56	0.201
R	RP2	8-	2016	100	32.15	120	38.58	0
R	RP2	8+	2016	9999999	7.97	120	9.56	0
R	RP2	8+	2016	1400	7.97	120	9.56	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP2	8+	2016	1380	8.01	120	9.61	0.0025
R	RP2	8+	2016	1360	8.05	120	9.66	0.0025
R	RP2	8+	2016	1340	8.09	120	9.71	0.0025
R	RP2	8+	2016	1320	8.13	120	9.76	0.002
R	RP2	8+	2016	1300	8.17	120	9.8	0.0025
R	RP2	8+	2016	1280	8.21	120	9.85	0.0025
R	RP2	8+	2016	1260	8.25	120	9.9	0.004
R	RP2	8+	2016	1240	8.32	120	9.98	0.004
R	RP2	8+	2016	1220	8.38	120	10.06	0.004
R	RP2	8+	2016	1200	8.45	120	10.14	0.0035
R	RP2	8+	2016	1180	8.51	120	10.21	0.0045
R	RP2	8+	2016	1160	8.58	120	10.3	0.0035
R	RP2	8+	2016	1140	8.64	120	10.37	0.004
R	RP2	8+	2016	1120	8.71	120	10.45	0.005
R	RP2	8+	2016	1100	8.79	120	10.55	0.0055
R	RP2	8+	2016	1080	8.88	120	10.66	0.0045
R	RP2	8+	2016	1060	8.96	120	10.75	0.0055
R	RP2	8+	2016	1040	9.05	120	10.86	0.005
R	RP2	8+	2016	1020	9.13	120	10.96	0.005
R	RP2	8+	2016	1000	9.22	120	11.06	0.005
R	RP2	8+	2016	980	9.3	120	11.16	0.0055
R	RP2	8+	2016	960	9.39	120	11.27	0.006
R	RP2	8+	2016	940	9.49	120	11.39	0.006
R	RP2	8+	2016	920	9.59	120	11.51	0.0065
R	RP2	8+	2016	900	9.7	120	11.64	0.006
R	RP2	8+	2016	880	9.8	120	11.76	0.006
R	RP2	8+	2016	860	9.9	120	11.88	0.006
R	RP2	8+	2016	840	10	120	12	0.006
R	RP2	8+	2016	820	10.1	120	12.12	0.0065
R	RP2	8+	2016	800	10.21	120	12.25	0.008
R	RP2	8+	2016	780	10.34	120	12.41	0.0085
R	RP2	8+	2016	760	10.48	120	12.58	0.0075
R	RP2	8+	2016	740	10.61	120	12.73	0.0085
R	RP2	8+	2016	720	10.75	120	12.9	0.008
R	RP2	8+	2016	700	10.88	120	13.06	0.008
R	RP2	8+	2016	680	11.02	120	13.22	0.0085
R	RP2	8+	2016	660	11.16	120	13.39	0.0115
R	RP2	8+	2016	640	11.35	120	13.62	0.0115
R	RP2	8+	2016	620	11.54	120	13.85	0.0115
R	RP2	8+	2016	600	11.73	120	14.08	0.011
R	RP2	8+	2016	580	11.92	120	14.3	0.0115
R	RP2	8+	2016	560	12.11	120	14.53	0.0115
R	RP2	8+	2016	540	12.3	120	14.76	0.0115
R	RP2	8+	2016	520	12.49	120	14.99	0.024

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP2	8+	2016	500	12.89	120	15.47	0.0245
R	RP2	8+	2016	480	13.3	120	15.96	0.024
R	RP2	8+	2016	460	13.7	120	16.44	0.0245
R	RP2	8+	2016	440	14.11	120	16.93	0.0245
R	RP2	8+	2016	420	14.52	120	17.42	0.024
R	RP2	8+	2016	400	14.92	120	17.9	0.025
R	RP2	8+	2016	380	15.33	120	18.4	0.024
R	RP2	8+	2016	360	15.73	120	18.88	0.025
R	RP2	8+	2016	340	16.15	120	19.38	0.042
R	RP2	8+	2016	320	16.85	120	20.22	0.042
R	RP2	8+	2016	300	17.55	120	21.06	0.042
R	RP2	8+	2016	280	18.25	120	21.9	0.042
R	RP2	8+	2016	260	18.95	120	22.74	0.0425
R	RP2	8+	2016	240	19.66	120	23.59	0.0635
R	RP2	8+	2016	220	20.72	120	24.86	0.067
R	RP2	8+	2016	200	21.83	120	26.2	0.0665
R	RP2	8+	2016	180	22.94	120	27.53	0.0665
R	RP2	8+	2016	160	24.05	120	28.86	0.147
R	RP2	8+	2016	140	26.5	120	31.8	0.138
R	RP2	8+	2016	120	28.8	120	34.56	0.201
R	RP2	8+	2016	100	32.15	120	38.58	0
R	RP3	1	2016	9999999	9.39	80	7.51	0
R	RP3	1	2016	5000	9.39	80	7.51	0.00003
R	RP3	1	2016	4000	9.43	80	7.54	0.00004
R	RP3	1	2016	3000	9.47	80	7.58	0.00003
R	RP3	1	2016	2000	9.51	80	7.61	0.0005
R	RP3	1	2016	1900	9.58	80	7.66	0.0005
R	RP3	1	2016	1800	9.64	80	7.71	0.0006
R	RP3	1	2016	1700	9.71	80	7.77	0.0005
R	RP3	1	2016	1600	9.77	80	7.82	0.0005
R	RP3	1	2016	1500	9.84	80	7.87	0.0005
R	RP3	1	2016	1400	9.9	80	7.92	0.003
R	RP3	1	2016	1380	9.97	80	7.98	0.003
R	RP3	1	2016	1360	10.05	80	8.04	0.003
R	RP3	1	2016	1340	10.13	80	8.1	0.0035
R	RP3	1	2016	1320	10.21	80	8.17	0.003
R	RP3	1	2016	1300	10.29	80	8.23	0.0035
R	RP3	1	2016	1280	10.37	80	8.3	0.003
R	RP3	1	2016	1260	10.45	80	8.36	0.003
R	RP3	1	2016	1240	10.53	80	8.42	0.0035
R	RP3	1	2016	1220	10.61	80	8.49	0.003
R	RP3	1	2016	1200	10.69	80	8.55	0.0035
R	RP3	1	2016	1180	10.77	80	8.62	0.004
R	RP3	1	2016	1160	10.87	80	8.7	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	1	2016	1140	10.97	80	8.78	0.004
R	RP3	1	2016	1120	11.07	80	8.86	0.004
R	RP3	1	2016	1100	11.17	80	8.94	0.004
R	RP3	1	2016	1080	11.28	80	9.02	0.004
R	RP3	1	2016	1060	11.38	80	9.1	0.004
R	RP3	1	2016	1040	11.48	80	9.18	0.004
R	RP3	1	2016	1020	11.58	80	9.26	0.0045
R	RP3	1	2016	1000	11.69	80	9.35	0.005
R	RP3	1	2016	980	11.81	80	9.45	0.0045
R	RP3	1	2016	960	11.93	80	9.54	0.005
R	RP3	1	2016	940	12.05	80	9.64	0.005
R	RP3	1	2016	920	12.18	80	9.74	0.005
R	RP3	1	2016	900	12.3	80	9.84	0.005
R	RP3	1	2016	880	12.42	80	9.94	0.005
R	RP3	1	2016	860	12.55	80	10.04	0.005
R	RP3	1	2016	840	12.67	80	10.14	0.0045
R	RP3	1	2016	820	12.79	80	10.23	0.0055
R	RP3	1	2016	800	12.92	80	10.34	0.0065
R	RP3	1	2016	780	13.09	80	10.47	0.007
R	RP3	1	2016	760	13.26	80	10.61	0.0065
R	RP3	1	2016	740	13.43	80	10.74	0.0075
R	RP3	1	2016	720	13.61	80	10.89	0.0065
R	RP3	1	2016	700	13.78	80	11.02	0.007
R	RP3	1	2016	680	13.95	80	11.16	0.007
R	RP3	1	2016	660	14.12	80	11.3	0.0135
R	RP3	1	2016	640	14.46	80	11.57	0.014
R	RP3	1	2016	620	14.81	80	11.85	0.0135
R	RP3	1	2016	600	15.15	80	12.12	0.014
R	RP3	1	2016	580	15.5	80	12.4	0.0135
R	RP3	1	2016	560	15.84	80	12.67	0.014
R	RP3	1	2016	540	16.19	80	12.95	0.0135
R	RP3	1	2016	520	16.53	80	13.22	0.014
R	RP3	1	2016	500	16.88	80	13.5	0.014
R	RP3	1	2016	480	17.22	80	13.78	-0.066
R	RP3	1	2016	460	15.57	80	12.46	0.0935
R	RP3	1	2016	440	17.91	80	14.33	0.014
R	RP3	1	2016	420	18.26	80	14.61	0.0135
R	RP3	1	2016	400	18.6	80	14.88	0.014
R	RP3	1	2016	380	18.95	80	15.16	0.014
R	RP3	1	2016	360	19.3	80	15.44	0.0305
R	RP3	1	2016	340	20.06	80	16.05	0.0305
R	RP3	1	2016	320	20.83	80	16.66	0.019
R	RP3	1	2016	300	21.3	80	17.04	0.021
R	RP3	1	2016	280	21.83	80	17.46	0.0215

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	1	2016	260	22.36	80	17.89	0.021
R	RP3	1	2016	240	22.89	80	18.31	0.0215
R	RP3	1	2016	220	23.42	80	18.74	0.021
R	RP3	1	2016	200	23.95	80	19.16	0.03
R	RP3	1	2016	180	24.7	80	19.76	0.03
R	RP3	1	2016	160	25.45	80	20.36	0.038
R	RP3	1	2016	140	26.4	80	21.12	0.048
R	RP3	1	2016	120	27.6	80	22.08	0.116
R	RP3	1	2016	100	30.5	80	24.4	0
R	RP3	2	2016	99999999	9.39	80	7.51	0
R	RP3	2	2016	5000	9.39	80	7.51	0.00003
R	RP3	2	2016	4000	9.43	80	7.54	0.00004
R	RP3	2	2016	3000	9.47	80	7.58	0.00003
R	RP3	2	2016	2000	9.51	80	7.61	0.0005
R	RP3	2	2016	1900	9.58	80	7.66	0.0005
R	RP3	2	2016	1800	9.64	80	7.71	0.0006
R	RP3	2	2016	1700	9.71	80	7.77	0.0005
R	RP3	2	2016	1600	9.77	80	7.82	0.0005
R	RP3	2	2016	1500	9.84	80	7.87	0.0005
R	RP3	2	2016	1400	9.9	80	7.92	0.003
R	RP3	2	2016	1380	9.97	80	7.98	0.003
R	RP3	2	2016	1360	10.05	80	8.04	0.003
R	RP3	2	2016	1340	10.13	80	8.1	0.0035
R	RP3	2	2016	1320	10.21	80	8.17	0.003
R	RP3	2	2016	1300	10.29	80	8.23	0.0035
R	RP3	2	2016	1280	10.37	80	8.3	0.003
R	RP3	2	2016	1260	10.45	80	8.36	0.003
R	RP3	2	2016	1240	10.53	80	8.42	0.0035
R	RP3	2	2016	1220	10.61	80	8.49	0.003
R	RP3	2	2016	1200	10.69	80	8.55	0.0035
R	RP3	2	2016	1180	10.77	80	8.62	0.004
R	RP3	2	2016	1160	10.87	80	8.7	0.004
R	RP3	2	2016	1140	10.97	80	8.78	0.004
R	RP3	2	2016	1120	11.07	80	8.86	0.004
R	RP3	2	2016	1100	11.17	80	8.94	0.004
R	RP3	2	2016	1080	11.28	80	9.02	0.004
R	RP3	2	2016	1060	11.38	80	9.1	0.004
R	RP3	2	2016	1040	11.48	80	9.18	0.004
R	RP3	2	2016	1020	11.58	80	9.26	0.0045
R	RP3	2	2016	1000	11.69	80	9.35	0.005
R	RP3	2	2016	980	11.81	80	9.45	0.0045
R	RP3	2	2016	960	11.93	80	9.54	0.005
R	RP3	2	2016	940	12.05	80	9.64	0.005
R	RP3	2	2016	920	12.18	80	9.74	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	2	2016	900	12.3	80	9.84	0.005
R	RP3	2	2016	880	12.42	80	9.94	0.005
R	RP3	2	2016	860	12.55	80	10.04	0.005
R	RP3	2	2016	840	12.67	80	10.14	0.0045
R	RP3	2	2016	820	12.79	80	10.23	0.0055
R	RP3	2	2016	800	12.92	80	10.34	0.0065
R	RP3	2	2016	780	13.09	80	10.47	0.007
R	RP3	2	2016	760	13.26	80	10.61	0.0065
R	RP3	2	2016	740	13.43	80	10.74	0.0075
R	RP3	2	2016	720	13.61	80	10.89	0.0065
R	RP3	2	2016	700	13.78	80	11.02	0.007
R	RP3	2	2016	680	13.95	80	11.16	0.007
R	RP3	2	2016	660	14.12	80	11.3	0.0135
R	RP3	2	2016	640	14.46	80	11.57	0.014
R	RP3	2	2016	620	14.81	80	11.85	0.0135
R	RP3	2	2016	600	15.15	80	12.12	0.014
R	RP3	2	2016	580	15.5	80	12.4	0.0135
R	RP3	2	2016	560	15.84	80	12.67	0.014
R	RP3	2	2016	540	16.19	80	12.95	0.0135
R	RP3	2	2016	520	16.53	80	13.22	0.014
R	RP3	2	2016	500	16.88	80	13.5	0.014
R	RP3	2	2016	480	17.22	80	13.78	-0.066
R	RP3	2	2016	460	15.57	80	12.46	0.0935
R	RP3	2	2016	440	17.91	80	14.33	0.014
R	RP3	2	2016	420	18.26	80	14.61	0.0135
R	RP3	2	2016	400	18.6	80	14.88	0.014
R	RP3	2	2016	380	18.95	80	15.16	0.014
R	RP3	2	2016	360	19.3	80	15.44	0.0305
R	RP3	2	2016	340	20.06	80	16.05	0.0305
R	RP3	2	2016	320	20.83	80	16.66	0.019
R	RP3	2	2016	300	21.3	80	17.04	0.021
R	RP3	2	2016	280	21.83	80	17.46	0.0215
R	RP3	2	2016	260	22.36	80	17.89	0.021
R	RP3	2	2016	240	22.89	80	18.31	0.0215
R	RP3	2	2016	220	23.42	80	18.74	0.021
R	RP3	2	2016	200	23.95	80	19.16	0.03
R	RP3	2	2016	180	24.7	80	19.76	0.03
R	RP3	2	2016	160	25.45	80	20.36	0.038
R	RP3	2	2016	140	26.4	80	21.12	0.048
R	RP3	2	2016	120	27.6	80	22.08	0.116
R	RP3	2	2016	100	30.5	80	24.4	0
R	RP3	3	2016	9999999	9.39	80	7.51	0
R	RP3	3	2016	5000	9.39	80	7.51	0.00003
R	RP3	3	2016	4000	9.43	80	7.54	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3	2016	3000	9.47	80	7.58	0.00003
R	RP3	3	2016	2000	9.51	80	7.61	0.0005
R	RP3	3	2016	1900	9.58	80	7.66	0.0005
R	RP3	3	2016	1800	9.64	80	7.71	0.0006
R	RP3	3	2016	1700	9.71	80	7.77	0.0005
R	RP3	3	2016	1600	9.77	80	7.82	0.0005
R	RP3	3	2016	1500	9.84	80	7.87	0.0005
R	RP3	3	2016	1400	9.9	80	7.92	0.003
R	RP3	3	2016	1380	9.97	80	7.98	0.003
R	RP3	3	2016	1360	10.05	80	8.04	0.003
R	RP3	3	2016	1340	10.13	80	8.1	0.0035
R	RP3	3	2016	1320	10.21	80	8.17	0.003
R	RP3	3	2016	1300	10.29	80	8.23	0.0035
R	RP3	3	2016	1280	10.37	80	8.3	0.003
R	RP3	3	2016	1260	10.45	80	8.36	0.003
R	RP3	3	2016	1240	10.53	80	8.42	0.0035
R	RP3	3	2016	1220	10.61	80	8.49	0.003
R	RP3	3	2016	1200	10.69	80	8.55	0.0035
R	RP3	3	2016	1180	10.77	80	8.62	0.004
R	RP3	3	2016	1160	10.87	80	8.7	0.004
R	RP3	3	2016	1140	10.97	80	8.78	0.004
R	RP3	3	2016	1120	11.07	80	8.86	0.004
R	RP3	3	2016	1100	11.17	80	8.94	0.004
R	RP3	3	2016	1080	11.28	80	9.02	0.004
R	RP3	3	2016	1060	11.38	80	9.1	0.004
R	RP3	3	2016	1040	11.48	80	9.18	0.004
R	RP3	3	2016	1020	11.58	80	9.26	0.0045
R	RP3	3	2016	1000	11.69	80	9.35	0.005
R	RP3	3	2016	980	11.81	80	9.45	0.0045
R	RP3	3	2016	960	11.93	80	9.54	0.005
R	RP3	3	2016	940	12.05	80	9.64	0.005
R	RP3	3	2016	920	12.18	80	9.74	0.005
R	RP3	3	2016	900	12.3	80	9.84	0.005
R	RP3	3	2016	880	12.42	80	9.94	0.005
R	RP3	3	2016	860	12.55	80	10.04	0.005
R	RP3	3	2016	840	12.67	80	10.14	0.0045
R	RP3	3	2016	820	12.79	80	10.23	0.0055
R	RP3	3	2016	800	12.92	80	10.34	0.0065
R	RP3	3	2016	780	13.09	80	10.47	0.007
R	RP3	3	2016	760	13.26	80	10.61	0.0065
R	RP3	3	2016	740	13.43	80	10.74	0.0075
R	RP3	3	2016	720	13.61	80	10.89	0.0065
R	RP3	3	2016	700	13.78	80	11.02	0.007
R	RP3	3	2016	680	13.95	80	11.16	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3	2016	660	14.12	80	11.3	0.0135
R	RP3	3	2016	640	14.46	80	11.57	0.014
R	RP3	3	2016	620	14.81	80	11.85	0.0135
R	RP3	3	2016	600	15.15	80	12.12	0.014
R	RP3	3	2016	580	15.5	80	12.4	0.0135
R	RP3	3	2016	560	15.84	80	12.67	0.014
R	RP3	3	2016	540	16.19	80	12.95	0.0135
R	RP3	3	2016	520	16.53	80	13.22	0.014
R	RP3	3	2016	500	16.88	80	13.5	0.014
R	RP3	3	2016	480	17.22	80	13.78	-0.066
R	RP3	3	2016	460	15.57	80	12.46	0.0935
R	RP3	3	2016	440	17.91	80	14.33	0.014
R	RP3	3	2016	420	18.26	80	14.61	0.0135
R	RP3	3	2016	400	18.6	80	14.88	0.014
R	RP3	3	2016	380	18.95	80	15.16	0.014
R	RP3	3	2016	360	19.3	80	15.44	0.0305
R	RP3	3	2016	340	20.06	80	16.05	0.0305
R	RP3	3	2016	320	20.83	80	16.66	0.019
R	RP3	3	2016	300	21.3	80	17.04	0.021
R	RP3	3	2016	280	21.83	80	17.46	0.0215
R	RP3	3	2016	260	22.36	80	17.89	0.021
R	RP3	3	2016	240	22.89	80	18.31	0.0215
R	RP3	3	2016	220	23.42	80	18.74	0.021
R	RP3	3	2016	200	23.95	80	19.16	0.03
R	RP3	3	2016	180	24.7	80	19.76	0.03
R	RP3	3	2016	160	25.45	80	20.36	0.038
R	RP3	3	2016	140	26.4	80	21.12	0.048
R	RP3	3	2016	120	27.6	80	22.08	0.116
R	RP3	3	2016	100	30.5	80	24.4	0
R	RP3	4	2016	99999999	9.39	100	9.39	0
R	RP3	4	2016	5000	9.39	100	9.39	0.00004
R	RP3	4	2016	4000	9.43	100	9.43	0.00004
R	RP3	4	2016	3000	9.47	100	9.47	0.00004
R	RP3	4	2016	2000	9.51	100	9.51	0.0007
R	RP3	4	2016	1900	9.58	100	9.58	0.0006
R	RP3	4	2016	1800	9.64	100	9.64	0.0007
R	RP3	4	2016	1700	9.71	100	9.71	0.0006
R	RP3	4	2016	1600	9.77	100	9.77	0.0007
R	RP3	4	2016	1500	9.84	100	9.84	0.0006
R	RP3	4	2016	1400	9.9	100	9.9	0.0035
R	RP3	4	2016	1380	9.97	100	9.97	0.004
R	RP3	4	2016	1360	10.05	100	10.05	0.004
R	RP3	4	2016	1340	10.13	100	10.13	0.004
R	RP3	4	2016	1320	10.21	100	10.21	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	4	2016	1300	10.29	100	10.29	0.004
R	RP3	4	2016	1280	10.37	100	10.37	0.004
R	RP3	4	2016	1260	10.45	100	10.45	0.004
R	RP3	4	2016	1240	10.53	100	10.53	0.004
R	RP3	4	2016	1220	10.61	100	10.61	0.004
R	RP3	4	2016	1200	10.69	100	10.69	0.004
R	RP3	4	2016	1180	10.77	100	10.77	0.005
R	RP3	4	2016	1160	10.87	100	10.87	0.005
R	RP3	4	2016	1140	10.97	100	10.97	0.005
R	RP3	4	2016	1120	11.07	100	11.07	0.005
R	RP3	4	2016	1100	11.17	100	11.17	0.0055
R	RP3	4	2016	1080	11.28	100	11.28	0.005
R	RP3	4	2016	1060	11.38	100	11.38	0.005
R	RP3	4	2016	1040	11.48	100	11.48	0.005
R	RP3	4	2016	1020	11.58	100	11.58	0.0055
R	RP3	4	2016	1000	11.69	100	11.69	0.006
R	RP3	4	2016	980	11.81	100	11.81	0.006
R	RP3	4	2016	960	11.93	100	11.93	0.006
R	RP3	4	2016	940	12.05	100	12.05	0.0065
R	RP3	4	2016	920	12.18	100	12.18	0.006
R	RP3	4	2016	900	12.3	100	12.3	0.006
R	RP3	4	2016	880	12.42	100	12.42	0.0065
R	RP3	4	2016	860	12.55	100	12.55	0.006
R	RP3	4	2016	840	12.67	100	12.67	0.006
R	RP3	4	2016	820	12.79	100	12.79	0.0065
R	RP3	4	2016	800	12.92	100	12.92	0.0085
R	RP3	4	2016	780	13.09	100	13.09	0.0085
R	RP3	4	2016	760	13.26	100	13.26	0.0085
R	RP3	4	2016	740	13.43	100	13.43	0.009
R	RP3	4	2016	720	13.61	100	13.61	0.0085
R	RP3	4	2016	700	13.78	100	13.78	0.0085
R	RP3	4	2016	680	13.95	100	13.95	0.0085
R	RP3	4	2016	660	14.12	100	14.12	0.017
R	RP3	4	2016	640	14.46	100	14.46	0.0175
R	RP3	4	2016	620	14.81	100	14.81	0.017
R	RP3	4	2016	600	15.15	100	15.15	0.0175
R	RP3	4	2016	580	15.5	100	15.5	0.017
R	RP3	4	2016	560	15.84	100	15.84	0.0175
R	RP3	4	2016	540	16.19	100	16.19	0.017
R	RP3	4	2016	520	16.53	100	16.53	0.0175
R	RP3	4	2016	500	16.88	100	16.88	0.017
R	RP3	4	2016	480	17.22	100	17.22	-0.0825
R	RP3	4	2016	460	15.57	100	15.57	0.117
R	RP3	4	2016	440	17.91	100	17.91	0.0175

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP3	4	2016	420	18.26	100	18.26	0.017
R	RP3	4	2016	400	18.6	100	18.6	0.0175
R	RP3	4	2016	380	18.95	100	18.95	0.0175
R	RP3	4	2016	360	19.3	100	19.3	0.038
R	RP3	4	2016	340	20.06	100	20.06	0.0385
R	RP3	4	2016	320	20.83	100	20.83	0.0235
R	RP3	4	2016	300	21.3	100	21.3	0.0265
R	RP3	4	2016	280	21.83	100	21.83	0.0265
R	RP3	4	2016	260	22.36	100	22.36	0.0265
R	RP3	4	2016	240	22.89	100	22.89	0.0265
R	RP3	4	2016	220	23.42	100	23.42	0.0265
R	RP3	4	2016	200	23.95	100	23.95	0.0375
R	RP3	4	2016	180	24.7	100	24.7	0.0375
R	RP3	4	2016	160	25.45	100	25.45	0.0475
R	RP3	4	2016	140	26.4	100	26.4	0.06
R	RP3	4	2016	120	27.6	100	27.6	0.145
R	RP3	4	2016	100	30.5	100	30.5	0
R	RP3	5	2016	9999999	9.39	120	11.27	0
R	RP3	5	2016	5000	9.39	120	11.27	0.00005
R	RP3	5	2016	4000	9.43	120	11.32	0.00004
R	RP3	5	2016	3000	9.47	120	11.36	0.00005
R	RP3	5	2016	2000	9.51	120	11.41	0.0009
R	RP3	5	2016	1900	9.58	120	11.5	0.0007
R	RP3	5	2016	1800	9.64	120	11.57	0.0008
R	RP3	5	2016	1700	9.71	120	11.65	0.0007
R	RP3	5	2016	1600	9.77	120	11.72	0.0009
R	RP3	5	2016	1500	9.84	120	11.81	0.0007
R	RP3	5	2016	1400	9.9	120	11.88	0.004
R	RP3	5	2016	1380	9.97	120	11.96	0.005
R	RP3	5	2016	1360	10.05	120	12.06	0.005
R	RP3	5	2016	1340	10.13	120	12.16	0.0045
R	RP3	5	2016	1320	10.21	120	12.25	0.005
R	RP3	5	2016	1300	10.29	120	12.35	0.0045
R	RP3	5	2016	1280	10.37	120	12.44	0.005
R	RP3	5	2016	1260	10.45	120	12.54	0.005
R	RP3	5	2016	1240	10.53	120	12.64	0.0045
R	RP3	5	2016	1220	10.61	120	12.73	0.005
R	RP3	5	2016	1200	10.69	120	12.83	0.0045
R	RP3	5	2016	1180	10.77	120	12.92	0.006
R	RP3	5	2016	1160	10.87	120	13.04	0.006
R	RP3	5	2016	1140	10.97	120	13.16	0.006
R	RP3	5	2016	1120	11.07	120	13.28	0.006
R	RP3	5	2016	1100	11.17	120	13.4	0.007
R	RP3	5	2016	1080	11.28	120	13.54	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5	2016	1060	11.38	120	13.66	0.006
R	RP3	5	2016	1040	11.48	120	13.78	0.006
R	RP3	5	2016	1020	11.58	120	13.9	0.0065
R	RP3	5	2016	1000	11.69	120	14.03	0.007
R	RP3	5	2016	980	11.81	120	14.17	0.0075
R	RP3	5	2016	960	11.93	120	14.32	0.007
R	RP3	5	2016	940	12.05	120	14.46	0.008
R	RP3	5	2016	920	12.18	120	14.62	0.007
R	RP3	5	2016	900	12.3	120	14.76	0.007
R	RP3	5	2016	880	12.42	120	14.9	0.008
R	RP3	5	2016	860	12.55	120	15.06	0.007
R	RP3	5	2016	840	12.67	120	15.2	0.0075
R	RP3	5	2016	820	12.79	120	15.35	0.0075
R	RP3	5	2016	800	12.92	120	15.5	0.0105
R	RP3	5	2016	780	13.09	120	15.71	0.01
R	RP3	5	2016	760	13.26	120	15.91	0.0105
R	RP3	5	2016	740	13.43	120	16.12	0.0105
R	RP3	5	2016	720	13.61	120	16.33	0.0105
R	RP3	5	2016	700	13.78	120	16.54	0.01
R	RP3	5	2016	680	13.95	120	16.74	0.01
R	RP3	5	2016	660	14.12	120	16.94	0.0205
R	RP3	5	2016	640	14.46	120	17.35	0.021
R	RP3	5	2016	620	14.81	120	17.77	0.0205
R	RP3	5	2016	600	15.15	120	18.18	0.021
R	RP3	5	2016	580	15.5	120	18.6	0.0205
R	RP3	5	2016	560	15.84	120	19.01	0.021
R	RP3	5	2016	540	16.19	120	19.43	0.0205
R	RP3	5	2016	520	16.53	120	19.84	0.021
R	RP3	5	2016	500	16.88	120	20.26	0.02
R	RP3	5	2016	480	17.22	120	20.66	-0.099
R	RP3	5	2016	460	15.57	120	18.68	0.1405
R	RP3	5	2016	440	17.91	120	21.49	0.021
R	RP3	5	2016	420	18.26	120	21.91	0.0205
R	RP3	5	2016	400	18.6	120	22.32	0.021
R	RP3	5	2016	380	18.95	120	22.74	0.021
R	RP3	5	2016	360	19.3	120	23.16	0.0455
R	RP3	5	2016	340	20.06	120	24.07	0.0465
R	RP3	5	2016	320	20.83	120	25	0.028
R	RP3	5	2016	300	21.3	120	25.56	0.032
R	RP3	5	2016	280	21.83	120	26.2	0.0315
R	RP3	5	2016	260	22.36	120	26.83	0.032
R	RP3	5	2016	240	22.89	120	27.47	0.0315
R	RP3	5	2016	220	23.42	120	28.1	0.032
R	RP3	5	2016	200	23.95	120	28.74	0.045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5	2016	180	24.7	120	29.64	0.045
R	RP3	5	2016	160	25.45	120	30.54	0.057
R	RP3	5	2016	140	26.4	120	31.68	0.072
R	RP3	5	2016	120	27.6	120	33.12	0.174
R	RP3	5	2016	100	30.5	120	36.6	0
R	RP3	6	2016	99999999	9.39	120	11.27	0
R	RP3	6	2016	5000	9.39	120	11.27	0.00005
R	RP3	6	2016	4000	9.43	120	11.32	0.00004
R	RP3	6	2016	3000	9.47	120	11.36	0.00005
R	RP3	6	2016	2000	9.51	120	11.41	0.0009
R	RP3	6	2016	1900	9.58	120	11.5	0.0007
R	RP3	6	2016	1800	9.64	120	11.57	0.0008
R	RP3	6	2016	1700	9.71	120	11.65	0.0007
R	RP3	6	2016	1600	9.77	120	11.72	0.0009
R	RP3	6	2016	1500	9.84	120	11.81	0.0007
R	RP3	6	2016	1400	9.9	120	11.88	0.004
R	RP3	6	2016	1380	9.97	120	11.96	0.005
R	RP3	6	2016	1360	10.05	120	12.06	0.005
R	RP3	6	2016	1340	10.13	120	12.16	0.0045
R	RP3	6	2016	1320	10.21	120	12.25	0.005
R	RP3	6	2016	1300	10.29	120	12.35	0.0045
R	RP3	6	2016	1280	10.37	120	12.44	0.005
R	RP3	6	2016	1260	10.45	120	12.54	0.005
R	RP3	6	2016	1240	10.53	120	12.64	0.0045
R	RP3	6	2016	1220	10.61	120	12.73	0.005
R	RP3	6	2016	1200	10.69	120	12.83	0.0045
R	RP3	6	2016	1180	10.77	120	12.92	0.006
R	RP3	6	2016	1160	10.87	120	13.04	0.006
R	RP3	6	2016	1140	10.97	120	13.16	0.006
R	RP3	6	2016	1120	11.07	120	13.28	0.006
R	RP3	6	2016	1100	11.17	120	13.4	0.007
R	RP3	6	2016	1080	11.28	120	13.54	0.006
R	RP3	6	2016	1060	11.38	120	13.66	0.006
R	RP3	6	2016	1040	11.48	120	13.78	0.006
R	RP3	6	2016	1020	11.58	120	13.9	0.0065
R	RP3	6	2016	1000	11.69	120	14.03	0.007
R	RP3	6	2016	980	11.81	120	14.17	0.0075
R	RP3	6	2016	960	11.93	120	14.32	0.007
R	RP3	6	2016	940	12.05	120	14.46	0.008
R	RP3	6	2016	920	12.18	120	14.62	0.007
R	RP3	6	2016	900	12.3	120	14.76	0.007
R	RP3	6	2016	880	12.42	120	14.9	0.008
R	RP3	6	2016	860	12.55	120	15.06	0.007
R	RP3	6	2016	840	12.67	120	15.2	0.0075

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	6	2016	820	12.79	120	15.35	0.0075
R	RP3	6	2016	800	12.92	120	15.5	0.0105
R	RP3	6	2016	780	13.09	120	15.71	0.01
R	RP3	6	2016	760	13.26	120	15.91	0.0105
R	RP3	6	2016	740	13.43	120	16.12	0.0105
R	RP3	6	2016	720	13.61	120	16.33	0.0105
R	RP3	6	2016	700	13.78	120	16.54	0.01
R	RP3	6	2016	680	13.95	120	16.74	0.01
R	RP3	6	2016	660	14.12	120	16.94	0.0205
R	RP3	6	2016	640	14.46	120	17.35	0.021
R	RP3	6	2016	620	14.81	120	17.77	0.0205
R	RP3	6	2016	600	15.15	120	18.18	0.021
R	RP3	6	2016	580	15.5	120	18.6	0.0205
R	RP3	6	2016	560	15.84	120	19.01	0.021
R	RP3	6	2016	540	16.19	120	19.43	0.0205
R	RP3	6	2016	520	16.53	120	19.84	0.021
R	RP3	6	2016	500	16.88	120	20.26	0.02
R	RP3	6	2016	480	17.22	120	20.66	-0.099
R	RP3	6	2016	460	15.57	120	18.68	0.1405
R	RP3	6	2016	440	17.91	120	21.49	0.021
R	RP3	6	2016	420	18.26	120	21.91	0.0205
R	RP3	6	2016	400	18.6	120	22.32	0.021
R	RP3	6	2016	380	18.95	120	22.74	0.021
R	RP3	6	2016	360	19.3	120	23.16	0.0455
R	RP3	6	2016	340	20.06	120	24.07	0.0465
R	RP3	6	2016	320	20.83	120	25	0.028
R	RP3	6	2016	300	21.3	120	25.56	0.032
R	RP3	6	2016	280	21.83	120	26.2	0.0315
R	RP3	6	2016	260	22.36	120	26.83	0.032
R	RP3	6	2016	240	22.89	120	27.47	0.0315
R	RP3	6	2016	220	23.42	120	28.1	0.032
R	RP3	6	2016	200	23.95	120	28.74	0.045
R	RP3	6	2016	180	24.7	120	29.64	0.045
R	RP3	6	2016	160	25.45	120	30.54	0.057
R	RP3	6	2016	140	26.4	120	31.68	0.072
R	RP3	6	2016	120	27.6	120	33.12	0.174
R	RP3	6	2016	100	30.5	120	36.6	0
R	RP3	7	2016	99999999	9.39	120	11.27	0
R	RP3	7	2016	5000	9.39	120	11.27	0.00005
R	RP3	7	2016	4000	9.43	120	11.32	0.00004
R	RP3	7	2016	3000	9.47	120	11.36	0.00005
R	RP3	7	2016	2000	9.51	120	11.41	0.0009
R	RP3	7	2016	1900	9.58	120	11.5	0.0007
R	RP3	7	2016	1800	9.64	120	11.57	0.0008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7	2016	1700	9.71	120	11.65	0.0007
R	RP3	7	2016	1600	9.77	120	11.72	0.0009
R	RP3	7	2016	1500	9.84	120	11.81	0.0007
R	RP3	7	2016	1400	9.9	120	11.88	0.004
R	RP3	7	2016	1380	9.97	120	11.96	0.005
R	RP3	7	2016	1360	10.05	120	12.06	0.005
R	RP3	7	2016	1340	10.13	120	12.16	0.0045
R	RP3	7	2016	1320	10.21	120	12.25	0.005
R	RP3	7	2016	1300	10.29	120	12.35	0.0045
R	RP3	7	2016	1280	10.37	120	12.44	0.005
R	RP3	7	2016	1260	10.45	120	12.54	0.005
R	RP3	7	2016	1240	10.53	120	12.64	0.0045
R	RP3	7	2016	1220	10.61	120	12.73	0.005
R	RP3	7	2016	1200	10.69	120	12.83	0.0045
R	RP3	7	2016	1180	10.77	120	12.92	0.006
R	RP3	7	2016	1160	10.87	120	13.04	0.006
R	RP3	7	2016	1140	10.97	120	13.16	0.006
R	RP3	7	2016	1120	11.07	120	13.28	0.006
R	RP3	7	2016	1100	11.17	120	13.4	0.007
R	RP3	7	2016	1080	11.28	120	13.54	0.006
R	RP3	7	2016	1060	11.38	120	13.66	0.006
R	RP3	7	2016	1040	11.48	120	13.78	0.006
R	RP3	7	2016	1020	11.58	120	13.9	0.0065
R	RP3	7	2016	1000	11.69	120	14.03	0.007
R	RP3	7	2016	980	11.81	120	14.17	0.0075
R	RP3	7	2016	960	11.93	120	14.32	0.007
R	RP3	7	2016	940	12.05	120	14.46	0.008
R	RP3	7	2016	920	12.18	120	14.62	0.007
R	RP3	7	2016	900	12.3	120	14.76	0.007
R	RP3	7	2016	880	12.42	120	14.9	0.008
R	RP3	7	2016	860	12.55	120	15.06	0.007
R	RP3	7	2016	840	12.67	120	15.2	0.0075
R	RP3	7	2016	820	12.79	120	15.35	0.0075
R	RP3	7	2016	800	12.92	120	15.5	0.0105
R	RP3	7	2016	780	13.09	120	15.71	0.01
R	RP3	7	2016	760	13.26	120	15.91	0.0105
R	RP3	7	2016	740	13.43	120	16.12	0.0105
R	RP3	7	2016	720	13.61	120	16.33	0.0105
R	RP3	7	2016	700	13.78	120	16.54	0.01
R	RP3	7	2016	680	13.95	120	16.74	0.01
R	RP3	7	2016	660	14.12	120	16.94	0.0205
R	RP3	7	2016	640	14.46	120	17.35	0.021
R	RP3	7	2016	620	14.81	120	17.77	0.0205
R	RP3	7	2016	600	15.15	120	18.18	0.021

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7	2016	580	15.5	120	18.6	0.0205
R	RP3	7	2016	560	15.84	120	19.01	0.021
R	RP3	7	2016	540	16.19	120	19.43	0.0205
R	RP3	7	2016	520	16.53	120	19.84	0.021
R	RP3	7	2016	500	16.88	120	20.26	0.02
R	RP3	7	2016	480	17.22	120	20.66	-0.099
R	RP3	7	2016	460	15.57	120	18.68	0.1405
R	RP3	7	2016	440	17.91	120	21.49	0.021
R	RP3	7	2016	420	18.26	120	21.91	0.0205
R	RP3	7	2016	400	18.6	120	22.32	0.021
R	RP3	7	2016	380	18.95	120	22.74	0.021
R	RP3	7	2016	360	19.3	120	23.16	0.0455
R	RP3	7	2016	340	20.06	120	24.07	0.0465
R	RP3	7	2016	320	20.83	120	25	0.028
R	RP3	7	2016	300	21.3	120	25.56	0.032
R	RP3	7	2016	280	21.83	120	26.2	0.0315
R	RP3	7	2016	260	22.36	120	26.83	0.032
R	RP3	7	2016	240	22.89	120	27.47	0.0315
R	RP3	7	2016	220	23.42	120	28.1	0.032
R	RP3	7	2016	200	23.95	120	28.74	0.045
R	RP3	7	2016	180	24.7	120	29.64	0.045
R	RP3	7	2016	160	25.45	120	30.54	0.057
R	RP3	7	2016	140	26.4	120	31.68	0.072
R	RP3	7	2016	120	27.6	120	33.12	0.174
R	RP3	7	2016	100	30.5	120	36.6	0
R	RP3	8	2016	9999999	9.39	120	11.27	0
R	RP3	8	2016	5000	9.39	120	11.27	0.00005
R	RP3	8	2016	4000	9.43	120	11.32	0.00004
R	RP3	8	2016	3000	9.47	120	11.36	0.00005
R	RP3	8	2016	2000	9.51	120	11.41	0.0009
R	RP3	8	2016	1900	9.58	120	11.5	0.0007
R	RP3	8	2016	1800	9.64	120	11.57	0.0008
R	RP3	8	2016	1700	9.71	120	11.65	0.0007
R	RP3	8	2016	1600	9.77	120	11.72	0.0009
R	RP3	8	2016	1500	9.84	120	11.81	0.0007
R	RP3	8	2016	1400	9.9	120	11.88	0.004
R	RP3	8	2016	1380	9.97	120	11.96	0.005
R	RP3	8	2016	1360	10.05	120	12.06	0.005
R	RP3	8	2016	1340	10.13	120	12.16	0.0045
R	RP3	8	2016	1320	10.21	120	12.25	0.005
R	RP3	8	2016	1300	10.29	120	12.35	0.0045
R	RP3	8	2016	1280	10.37	120	12.44	0.005
R	RP3	8	2016	1260	10.45	120	12.54	0.005
R	RP3	8	2016	1240	10.53	120	12.64	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	8	2016	1220	10.61	120	12.73	0.005
R	RP3	8	2016	1200	10.69	120	12.83	0.0045
R	RP3	8	2016	1180	10.77	120	12.92	0.006
R	RP3	8	2016	1160	10.87	120	13.04	0.006
R	RP3	8	2016	1140	10.97	120	13.16	0.006
R	RP3	8	2016	1120	11.07	120	13.28	0.006
R	RP3	8	2016	1100	11.17	120	13.4	0.007
R	RP3	8	2016	1080	11.28	120	13.54	0.006
R	RP3	8	2016	1060	11.38	120	13.66	0.006
R	RP3	8	2016	1040	11.48	120	13.78	0.006
R	RP3	8	2016	1020	11.58	120	13.9	0.0065
R	RP3	8	2016	1000	11.69	120	14.03	0.007
R	RP3	8	2016	980	11.81	120	14.17	0.0075
R	RP3	8	2016	960	11.93	120	14.32	0.007
R	RP3	8	2016	940	12.05	120	14.46	0.008
R	RP3	8	2016	920	12.18	120	14.62	0.007
R	RP3	8	2016	900	12.3	120	14.76	0.007
R	RP3	8	2016	880	12.42	120	14.9	0.008
R	RP3	8	2016	860	12.55	120	15.06	0.007
R	RP3	8	2016	840	12.67	120	15.2	0.0075
R	RP3	8	2016	820	12.79	120	15.35	0.0075
R	RP3	8	2016	800	12.92	120	15.5	0.0105
R	RP3	8	2016	780	13.09	120	15.71	0.01
R	RP3	8	2016	760	13.26	120	15.91	0.0105
R	RP3	8	2016	740	13.43	120	16.12	0.0105
R	RP3	8	2016	720	13.61	120	16.33	0.0105
R	RP3	8	2016	700	13.78	120	16.54	0.01
R	RP3	8	2016	680	13.95	120	16.74	0.01
R	RP3	8	2016	660	14.12	120	16.94	0.0205
R	RP3	8	2016	640	14.46	120	17.35	0.021
R	RP3	8	2016	620	14.81	120	17.77	0.0205
R	RP3	8	2016	600	15.15	120	18.18	0.021
R	RP3	8	2016	580	15.5	120	18.6	0.0205
R	RP3	8	2016	560	15.84	120	19.01	0.021
R	RP3	8	2016	540	16.19	120	19.43	0.0205
R	RP3	8	2016	520	16.53	120	19.84	0.021
R	RP3	8	2016	500	16.88	120	20.26	0.02
R	RP3	8	2016	480	17.22	120	20.66	-0.099
R	RP3	8	2016	460	15.57	120	18.68	0.1405
R	RP3	8	2016	440	17.91	120	21.49	0.021
R	RP3	8	2016	420	18.26	120	21.91	0.0205
R	RP3	8	2016	400	18.6	120	22.32	0.021
R	RP3	8	2016	380	18.95	120	22.74	0.021
R	RP3	8	2016	360	19.3	120	23.16	0.0455

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	8	2016	340	20.06	120	24.07	0.0465
R	RP3	8	2016	320	20.83	120	25	0.028
R	RP3	8	2016	300	21.3	120	25.56	0.032
R	RP3	8	2016	280	21.83	120	26.2	0.0315
R	RP3	8	2016	260	22.36	120	26.83	0.032
R	RP3	8	2016	240	22.89	120	27.47	0.0315
R	RP3	8	2016	220	23.42	120	28.1	0.032
R	RP3	8	2016	200	23.95	120	28.74	0.045
R	RP3	8	2016	180	24.7	120	29.64	0.045
R	RP3	8	2016	160	25.45	120	30.54	0.057
R	RP3	8	2016	140	26.4	120	31.68	0.072
R	RP3	8	2016	120	27.6	120	33.12	0.174
R	RP3	8	2016	100	30.5	120	36.6	0
R	RP3	*	2016	99999999	9.39	100	9.39	0
R	RP3	*	2016	5000	9.39	100	9.39	0.00004
R	RP3	*	2016	4000	9.43	100	9.43	0.00004
R	RP3	*	2016	3000	9.47	100	9.47	0.00004
R	RP3	*	2016	2000	9.51	100	9.51	0.0007
R	RP3	*	2016	1900	9.58	100	9.58	0.0006
R	RP3	*	2016	1800	9.64	100	9.64	0.0007
R	RP3	*	2016	1700	9.71	100	9.71	0.0006
R	RP3	*	2016	1600	9.77	100	9.77	0.0007
R	RP3	*	2016	1500	9.84	100	9.84	0.0006
R	RP3	*	2016	1400	9.9	100	9.9	0.0035
R	RP3	*	2016	1380	9.97	100	9.97	0.004
R	RP3	*	2016	1360	10.05	100	10.05	0.004
R	RP3	*	2016	1340	10.13	100	10.13	0.004
R	RP3	*	2016	1320	10.21	100	10.21	0.004
R	RP3	*	2016	1300	10.29	100	10.29	0.004
R	RP3	*	2016	1280	10.37	100	10.37	0.004
R	RP3	*	2016	1260	10.45	100	10.45	0.004
R	RP3	*	2016	1240	10.53	100	10.53	0.004
R	RP3	*	2016	1220	10.61	100	10.61	0.004
R	RP3	*	2016	1200	10.69	100	10.69	0.004
R	RP3	*	2016	1180	10.77	100	10.77	0.005
R	RP3	*	2016	1160	10.87	100	10.87	0.005
R	RP3	*	2016	1140	10.97	100	10.97	0.005
R	RP3	*	2016	1120	11.07	100	11.07	0.005
R	RP3	*	2016	1100	11.17	100	11.17	0.0055
R	RP3	*	2016	1080	11.28	100	11.28	0.005
R	RP3	*	2016	1060	11.38	100	11.38	0.005
R	RP3	*	2016	1040	11.48	100	11.48	0.005
R	RP3	*	2016	1020	11.58	100	11.58	0.0055
R	RP3	*	2016	1000	11.69	100	11.69	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	*	2016	980	11.81	100	11.81	0.006
R	RP3	*	2016	960	11.93	100	11.93	0.006
R	RP3	*	2016	940	12.05	100	12.05	0.0065
R	RP3	*	2016	920	12.18	100	12.18	0.006
R	RP3	*	2016	900	12.3	100	12.3	0.006
R	RP3	*	2016	880	12.42	100	12.42	0.0065
R	RP3	*	2016	860	12.55	100	12.55	0.006
R	RP3	*	2016	840	12.67	100	12.67	0.006
R	RP3	*	2016	820	12.79	100	12.79	0.0065
R	RP3	*	2016	800	12.92	100	12.92	0.0085
R	RP3	*	2016	780	13.09	100	13.09	0.0085
R	RP3	*	2016	760	13.26	100	13.26	0.0085
R	RP3	*	2016	740	13.43	100	13.43	0.009
R	RP3	*	2016	720	13.61	100	13.61	0.0085
R	RP3	*	2016	700	13.78	100	13.78	0.0085
R	RP3	*	2016	680	13.95	100	13.95	0.0085
R	RP3	*	2016	660	14.12	100	14.12	0.017
R	RP3	*	2016	640	14.46	100	14.46	0.0175
R	RP3	*	2016	620	14.81	100	14.81	0.017
R	RP3	*	2016	600	15.15	100	15.15	0.0175
R	RP3	*	2016	580	15.5	100	15.5	0.017
R	RP3	*	2016	560	15.84	100	15.84	0.0175
R	RP3	*	2016	540	16.19	100	16.19	0.017
R	RP3	*	2016	520	16.53	100	16.53	0.0175
R	RP3	*	2016	500	16.88	100	16.88	0.017
R	RP3	*	2016	480	17.22	100	17.22	-0.0825
R	RP3	*	2016	460	15.57	100	15.57	0.117
R	RP3	*	2016	440	17.91	100	17.91	0.0175
R	RP3	*	2016	420	18.26	100	18.26	0.017
R	RP3	*	2016	400	18.6	100	18.6	0.0175
R	RP3	*	2016	380	18.95	100	18.95	0.0175
R	RP3	*	2016	360	19.3	100	19.3	0.038
R	RP3	*	2016	340	20.06	100	20.06	0.0385
R	RP3	*	2016	320	20.83	100	20.83	0.0235
R	RP3	*	2016	300	21.3	100	21.3	0.0265
R	RP3	*	2016	280	21.83	100	21.83	0.0265
R	RP3	*	2016	260	22.36	100	22.36	0.0265
R	RP3	*	2016	240	22.89	100	22.89	0.0265
R	RP3	*	2016	220	23.42	100	23.42	0.0265
R	RP3	*	2016	200	23.95	100	23.95	0.0375
R	RP3	*	2016	180	24.7	100	24.7	0.0375
R	RP3	*	2016	160	25.45	100	25.45	0.0475
R	RP3	*	2016	140	26.4	100	26.4	0.06
R	RP3	*	2016	120	27.6	100	27.6	0.145

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP3	*	2016	100	30.5	100	30.5	0
R	RP3	1-	2016	99999999	9.39	80	7.51	0
R	RP3	1-	2016	5000	9.39	80	7.51	0.00003
R	RP3	1-	2016	4000	9.43	80	7.54	0.00004
R	RP3	1-	2016	3000	9.47	80	7.58	0.00003
R	RP3	1-	2016	2000	9.51	80	7.61	0.0005
R	RP3	1-	2016	1900	9.58	80	7.66	0.0005
R	RP3	1-	2016	1800	9.64	80	7.71	0.0006
R	RP3	1-	2016	1700	9.71	80	7.77	0.0005
R	RP3	1-	2016	1600	9.77	80	7.82	0.0005
R	RP3	1-	2016	1500	9.84	80	7.87	0.0005
R	RP3	1-	2016	1400	9.9	80	7.92	0.003
R	RP3	1-	2016	1380	9.97	80	7.98	0.003
R	RP3	1-	2016	1360	10.05	80	8.04	0.003
R	RP3	1-	2016	1340	10.13	80	8.1	0.0035
R	RP3	1-	2016	1320	10.21	80	8.17	0.003
R	RP3	1-	2016	1300	10.29	80	8.23	0.0035
R	RP3	1-	2016	1280	10.37	80	8.3	0.003
R	RP3	1-	2016	1260	10.45	80	8.36	0.003
R	RP3	1-	2016	1240	10.53	80	8.42	0.0035
R	RP3	1-	2016	1220	10.61	80	8.49	0.003
R	RP3	1-	2016	1200	10.69	80	8.55	0.0035
R	RP3	1-	2016	1180	10.77	80	8.62	0.004
R	RP3	1-	2016	1160	10.87	80	8.7	0.004
R	RP3	1-	2016	1140	10.97	80	8.78	0.004
R	RP3	1-	2016	1120	11.07	80	8.86	0.004
R	RP3	1-	2016	1100	11.17	80	8.94	0.004
R	RP3	1-	2016	1080	11.28	80	9.02	0.004
R	RP3	1-	2016	1060	11.38	80	9.1	0.004
R	RP3	1-	2016	1040	11.48	80	9.18	0.004
R	RP3	1-	2016	1020	11.58	80	9.26	0.0045
R	RP3	1-	2016	1000	11.69	80	9.35	0.005
R	RP3	1-	2016	980	11.81	80	9.45	0.0045
R	RP3	1-	2016	960	11.93	80	9.54	0.005
R	RP3	1-	2016	940	12.05	80	9.64	0.005
R	RP3	1-	2016	920	12.18	80	9.74	0.005
R	RP3	1-	2016	900	12.3	80	9.84	0.005
R	RP3	1-	2016	880	12.42	80	9.94	0.005
R	RP3	1-	2016	860	12.55	80	10.04	0.005
R	RP3	1-	2016	840	12.67	80	10.14	0.0045
R	RP3	1-	2016	820	12.79	80	10.23	0.0055
R	RP3	1-	2016	800	12.92	80	10.34	0.0065
R	RP3	1-	2016	780	13.09	80	10.47	0.007
R	RP3	1-	2016	760	13.26	80	10.61	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	1-	2016	740	13.43	80	10.74	0.0075
R	RP3	1-	2016	720	13.61	80	10.89	0.0065
R	RP3	1-	2016	700	13.78	80	11.02	0.007
R	RP3	1-	2016	680	13.95	80	11.16	0.007
R	RP3	1-	2016	660	14.12	80	11.3	0.0135
R	RP3	1-	2016	640	14.46	80	11.57	0.014
R	RP3	1-	2016	620	14.81	80	11.85	0.0135
R	RP3	1-	2016	600	15.15	80	12.12	0.014
R	RP3	1-	2016	580	15.5	80	12.4	0.0135
R	RP3	1-	2016	560	15.84	80	12.67	0.014
R	RP3	1-	2016	540	16.19	80	12.95	0.0135
R	RP3	1-	2016	520	16.53	80	13.22	0.014
R	RP3	1-	2016	500	16.88	80	13.5	0.014
R	RP3	1-	2016	480	17.22	80	13.78	-0.066
R	RP3	1-	2016	460	15.57	80	12.46	0.0935
R	RP3	1-	2016	440	17.91	80	14.33	0.014
R	RP3	1-	2016	420	18.26	80	14.61	0.0135
R	RP3	1-	2016	400	18.6	80	14.88	0.014
R	RP3	1-	2016	380	18.95	80	15.16	0.014
R	RP3	1-	2016	360	19.3	80	15.44	0.0305
R	RP3	1-	2016	340	20.06	80	16.05	0.0305
R	RP3	1-	2016	320	20.83	80	16.66	0.019
R	RP3	1-	2016	300	21.3	80	17.04	0.021
R	RP3	1-	2016	280	21.83	80	17.46	0.0215
R	RP3	1-	2016	260	22.36	80	17.89	0.021
R	RP3	1-	2016	240	22.89	80	18.31	0.0215
R	RP3	1-	2016	220	23.42	80	18.74	0.021
R	RP3	1-	2016	200	23.95	80	19.16	0.03
R	RP3	1-	2016	180	24.7	80	19.76	0.03
R	RP3	1-	2016	160	25.45	80	20.36	0.038
R	RP3	1-	2016	140	26.4	80	21.12	0.048
R	RP3	1-	2016	120	27.6	80	22.08	0.116
R	RP3	1-	2016	100	30.5	80	24.4	0
R	RP3	1+	2016	99999999	9.39	80	7.51	0
R	RP3	1+	2016	5000	9.39	80	7.51	0.00003
R	RP3	1+	2016	4000	9.43	80	7.54	0.00004
R	RP3	1+	2016	3000	9.47	80	7.58	0.00003
R	RP3	1+	2016	2000	9.51	80	7.61	0.0005
R	RP3	1+	2016	1900	9.58	80	7.66	0.0005
R	RP3	1+	2016	1800	9.64	80	7.71	0.0006
R	RP3	1+	2016	1700	9.71	80	7.77	0.0005
R	RP3	1+	2016	1600	9.77	80	7.82	0.0005
R	RP3	1+	2016	1500	9.84	80	7.87	0.0005
R	RP3	1+	2016	1400	9.9	80	7.92	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	1+	2016	1380	9.97	80	7.98	0.003
R	RP3	1+	2016	1360	10.05	80	8.04	0.003
R	RP3	1+	2016	1340	10.13	80	8.1	0.0035
R	RP3	1+	2016	1320	10.21	80	8.17	0.003
R	RP3	1+	2016	1300	10.29	80	8.23	0.0035
R	RP3	1+	2016	1280	10.37	80	8.3	0.003
R	RP3	1+	2016	1260	10.45	80	8.36	0.003
R	RP3	1+	2016	1240	10.53	80	8.42	0.0035
R	RP3	1+	2016	1220	10.61	80	8.49	0.003
R	RP3	1+	2016	1200	10.69	80	8.55	0.0035
R	RP3	1+	2016	1180	10.77	80	8.62	0.004
R	RP3	1+	2016	1160	10.87	80	8.7	0.004
R	RP3	1+	2016	1140	10.97	80	8.78	0.004
R	RP3	1+	2016	1120	11.07	80	8.86	0.004
R	RP3	1+	2016	1100	11.17	80	8.94	0.004
R	RP3	1+	2016	1080	11.28	80	9.02	0.004
R	RP3	1+	2016	1060	11.38	80	9.1	0.004
R	RP3	1+	2016	1040	11.48	80	9.18	0.004
R	RP3	1+	2016	1020	11.58	80	9.26	0.0045
R	RP3	1+	2016	1000	11.69	80	9.35	0.005
R	RP3	1+	2016	980	11.81	80	9.45	0.0045
R	RP3	1+	2016	960	11.93	80	9.54	0.005
R	RP3	1+	2016	940	12.05	80	9.64	0.005
R	RP3	1+	2016	920	12.18	80	9.74	0.005
R	RP3	1+	2016	900	12.3	80	9.84	0.005
R	RP3	1+	2016	880	12.42	80	9.94	0.005
R	RP3	1+	2016	860	12.55	80	10.04	0.005
R	RP3	1+	2016	840	12.67	80	10.14	0.0045
R	RP3	1+	2016	820	12.79	80	10.23	0.0055
R	RP3	1+	2016	800	12.92	80	10.34	0.0065
R	RP3	1+	2016	780	13.09	80	10.47	0.007
R	RP3	1+	2016	760	13.26	80	10.61	0.0065
R	RP3	1+	2016	740	13.43	80	10.74	0.0075
R	RP3	1+	2016	720	13.61	80	10.89	0.0065
R	RP3	1+	2016	700	13.78	80	11.02	0.007
R	RP3	1+	2016	680	13.95	80	11.16	0.007
R	RP3	1+	2016	660	14.12	80	11.3	0.0135
R	RP3	1+	2016	640	14.46	80	11.57	0.014
R	RP3	1+	2016	620	14.81	80	11.85	0.0135
R	RP3	1+	2016	600	15.15	80	12.12	0.014
R	RP3	1+	2016	580	15.5	80	12.4	0.0135
R	RP3	1+	2016	560	15.84	80	12.67	0.014
R	RP3	1+	2016	540	16.19	80	12.95	0.0135
R	RP3	1+	2016	520	16.53	80	13.22	0.014

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	1+	2016	500	16.88	80	13.5	0.014
R	RP3	1+	2016	480	17.22	80	13.78	-0.066
R	RP3	1+	2016	460	15.57	80	12.46	0.0935
R	RP3	1+	2016	440	17.91	80	14.33	0.014
R	RP3	1+	2016	420	18.26	80	14.61	0.0135
R	RP3	1+	2016	400	18.6	80	14.88	0.014
R	RP3	1+	2016	380	18.95	80	15.16	0.014
R	RP3	1+	2016	360	19.3	80	15.44	0.0305
R	RP3	1+	2016	340	20.06	80	16.05	0.0305
R	RP3	1+	2016	320	20.83	80	16.66	0.019
R	RP3	1+	2016	300	21.3	80	17.04	0.021
R	RP3	1+	2016	280	21.83	80	17.46	0.0215
R	RP3	1+	2016	260	22.36	80	17.89	0.021
R	RP3	1+	2016	240	22.89	80	18.31	0.0215
R	RP3	1+	2016	220	23.42	80	18.74	0.021
R	RP3	1+	2016	200	23.95	80	19.16	0.03
R	RP3	1+	2016	180	24.7	80	19.76	0.03
R	RP3	1+	2016	160	25.45	80	20.36	0.038
R	RP3	1+	2016	140	26.4	80	21.12	0.048
R	RP3	1+	2016	120	27.6	80	22.08	0.116
R	RP3	1+	2016	100	30.5	80	24.4	0
R	RP3	2-	2016	99999999	9.39	80	7.51	0
R	RP3	2-	2016	5000	9.39	80	7.51	0.00003
R	RP3	2-	2016	4000	9.43	80	7.54	0.00004
R	RP3	2-	2016	3000	9.47	80	7.58	0.00003
R	RP3	2-	2016	2000	9.51	80	7.61	0.0005
R	RP3	2-	2016	1900	9.58	80	7.66	0.0005
R	RP3	2-	2016	1800	9.64	80	7.71	0.0006
R	RP3	2-	2016	1700	9.71	80	7.77	0.0005
R	RP3	2-	2016	1600	9.77	80	7.82	0.0005
R	RP3	2-	2016	1500	9.84	80	7.87	0.0005
R	RP3	2-	2016	1400	9.9	80	7.92	0.003
R	RP3	2-	2016	1380	9.97	80	7.98	0.003
R	RP3	2-	2016	1360	10.05	80	8.04	0.003
R	RP3	2-	2016	1340	10.13	80	8.1	0.0035
R	RP3	2-	2016	1320	10.21	80	8.17	0.003
R	RP3	2-	2016	1300	10.29	80	8.23	0.0035
R	RP3	2-	2016	1280	10.37	80	8.3	0.003
R	RP3	2-	2016	1260	10.45	80	8.36	0.003
R	RP3	2-	2016	1240	10.53	80	8.42	0.0035
R	RP3	2-	2016	1220	10.61	80	8.49	0.003
R	RP3	2-	2016	1200	10.69	80	8.55	0.0035
R	RP3	2-	2016	1180	10.77	80	8.62	0.004
R	RP3	2-	2016	1160	10.87	80	8.7	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	2-	2016	1140	10.97	80	8.78	0.004
R	RP3	2-	2016	1120	11.07	80	8.86	0.004
R	RP3	2-	2016	1100	11.17	80	8.94	0.004
R	RP3	2-	2016	1080	11.28	80	9.02	0.004
R	RP3	2-	2016	1060	11.38	80	9.1	0.004
R	RP3	2-	2016	1040	11.48	80	9.18	0.004
R	RP3	2-	2016	1020	11.58	80	9.26	0.0045
R	RP3	2-	2016	1000	11.69	80	9.35	0.005
R	RP3	2-	2016	980	11.81	80	9.45	0.0045
R	RP3	2-	2016	960	11.93	80	9.54	0.005
R	RP3	2-	2016	940	12.05	80	9.64	0.005
R	RP3	2-	2016	920	12.18	80	9.74	0.005
R	RP3	2-	2016	900	12.3	80	9.84	0.005
R	RP3	2-	2016	880	12.42	80	9.94	0.005
R	RP3	2-	2016	860	12.55	80	10.04	0.005
R	RP3	2-	2016	840	12.67	80	10.14	0.0045
R	RP3	2-	2016	820	12.79	80	10.23	0.0055
R	RP3	2-	2016	800	12.92	80	10.34	0.0065
R	RP3	2-	2016	780	13.09	80	10.47	0.007
R	RP3	2-	2016	760	13.26	80	10.61	0.0065
R	RP3	2-	2016	740	13.43	80	10.74	0.0075
R	RP3	2-	2016	720	13.61	80	10.89	0.0065
R	RP3	2-	2016	700	13.78	80	11.02	0.007
R	RP3	2-	2016	680	13.95	80	11.16	0.007
R	RP3	2-	2016	660	14.12	80	11.3	0.0135
R	RP3	2-	2016	640	14.46	80	11.57	0.014
R	RP3	2-	2016	620	14.81	80	11.85	0.0135
R	RP3	2-	2016	600	15.15	80	12.12	0.014
R	RP3	2-	2016	580	15.5	80	12.4	0.0135
R	RP3	2-	2016	560	15.84	80	12.67	0.014
R	RP3	2-	2016	540	16.19	80	12.95	0.0135
R	RP3	2-	2016	520	16.53	80	13.22	0.014
R	RP3	2-	2016	500	16.88	80	13.5	0.014
R	RP3	2-	2016	480	17.22	80	13.78	-0.066
R	RP3	2-	2016	460	15.57	80	12.46	0.0935
R	RP3	2-	2016	440	17.91	80	14.33	0.014
R	RP3	2-	2016	420	18.26	80	14.61	0.0135
R	RP3	2-	2016	400	18.6	80	14.88	0.014
R	RP3	2-	2016	380	18.95	80	15.16	0.014
R	RP3	2-	2016	360	19.3	80	15.44	0.0305
R	RP3	2-	2016	340	20.06	80	16.05	0.0305
R	RP3	2-	2016	320	20.83	80	16.66	0.019
R	RP3	2-	2016	300	21.3	80	17.04	0.021
R	RP3	2-	2016	280	21.83	80	17.46	0.0215

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	2-	2016	260	22.36	80	17.89	0.021
R	RP3	2-	2016	240	22.89	80	18.31	0.0215
R	RP3	2-	2016	220	23.42	80	18.74	0.021
R	RP3	2-	2016	200	23.95	80	19.16	0.03
R	RP3	2-	2016	180	24.7	80	19.76	0.03
R	RP3	2-	2016	160	25.45	80	20.36	0.038
R	RP3	2-	2016	140	26.4	80	21.12	0.048
R	RP3	2-	2016	120	27.6	80	22.08	0.116
R	RP3	2-	2016	100	30.5	80	24.4	0
R	RP3	2+	2016	99999999	9.39	80	7.51	0
R	RP3	2+	2016	5000	9.39	80	7.51	0.00003
R	RP3	2+	2016	4000	9.43	80	7.54	0.00004
R	RP3	2+	2016	3000	9.47	80	7.58	0.00003
R	RP3	2+	2016	2000	9.51	80	7.61	0.0005
R	RP3	2+	2016	1900	9.58	80	7.66	0.0005
R	RP3	2+	2016	1800	9.64	80	7.71	0.0006
R	RP3	2+	2016	1700	9.71	80	7.77	0.0005
R	RP3	2+	2016	1600	9.77	80	7.82	0.0005
R	RP3	2+	2016	1500	9.84	80	7.87	0.0005
R	RP3	2+	2016	1400	9.9	80	7.92	0.003
R	RP3	2+	2016	1380	9.97	80	7.98	0.003
R	RP3	2+	2016	1360	10.05	80	8.04	0.003
R	RP3	2+	2016	1340	10.13	80	8.1	0.0035
R	RP3	2+	2016	1320	10.21	80	8.17	0.003
R	RP3	2+	2016	1300	10.29	80	8.23	0.0035
R	RP3	2+	2016	1280	10.37	80	8.3	0.003
R	RP3	2+	2016	1260	10.45	80	8.36	0.003
R	RP3	2+	2016	1240	10.53	80	8.42	0.0035
R	RP3	2+	2016	1220	10.61	80	8.49	0.003
R	RP3	2+	2016	1200	10.69	80	8.55	0.0035
R	RP3	2+	2016	1180	10.77	80	8.62	0.004
R	RP3	2+	2016	1160	10.87	80	8.7	0.004
R	RP3	2+	2016	1140	10.97	80	8.78	0.004
R	RP3	2+	2016	1120	11.07	80	8.86	0.004
R	RP3	2+	2016	1100	11.17	80	8.94	0.004
R	RP3	2+	2016	1080	11.28	80	9.02	0.004
R	RP3	2+	2016	1060	11.38	80	9.1	0.004
R	RP3	2+	2016	1040	11.48	80	9.18	0.004
R	RP3	2+	2016	1020	11.58	80	9.26	0.0045
R	RP3	2+	2016	1000	11.69	80	9.35	0.005
R	RP3	2+	2016	980	11.81	80	9.45	0.0045
R	RP3	2+	2016	960	11.93	80	9.54	0.005
R	RP3	2+	2016	940	12.05	80	9.64	0.005
R	RP3	2+	2016	920	12.18	80	9.74	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	2+	2016	900	12.3	80	9.84	0.005
R	RP3	2+	2016	880	12.42	80	9.94	0.005
R	RP3	2+	2016	860	12.55	80	10.04	0.005
R	RP3	2+	2016	840	12.67	80	10.14	0.0045
R	RP3	2+	2016	820	12.79	80	10.23	0.0055
R	RP3	2+	2016	800	12.92	80	10.34	0.0065
R	RP3	2+	2016	780	13.09	80	10.47	0.007
R	RP3	2+	2016	760	13.26	80	10.61	0.0065
R	RP3	2+	2016	740	13.43	80	10.74	0.0075
R	RP3	2+	2016	720	13.61	80	10.89	0.0065
R	RP3	2+	2016	700	13.78	80	11.02	0.007
R	RP3	2+	2016	680	13.95	80	11.16	0.007
R	RP3	2+	2016	660	14.12	80	11.3	0.0135
R	RP3	2+	2016	640	14.46	80	11.57	0.014
R	RP3	2+	2016	620	14.81	80	11.85	0.0135
R	RP3	2+	2016	600	15.15	80	12.12	0.014
R	RP3	2+	2016	580	15.5	80	12.4	0.0135
R	RP3	2+	2016	560	15.84	80	12.67	0.014
R	RP3	2+	2016	540	16.19	80	12.95	0.0135
R	RP3	2+	2016	520	16.53	80	13.22	0.014
R	RP3	2+	2016	500	16.88	80	13.5	0.014
R	RP3	2+	2016	480	17.22	80	13.78	-0.066
R	RP3	2+	2016	460	15.57	80	12.46	0.0935
R	RP3	2+	2016	440	17.91	80	14.33	0.014
R	RP3	2+	2016	420	18.26	80	14.61	0.0135
R	RP3	2+	2016	400	18.6	80	14.88	0.014
R	RP3	2+	2016	380	18.95	80	15.16	0.014
R	RP3	2+	2016	360	19.3	80	15.44	0.0305
R	RP3	2+	2016	340	20.06	80	16.05	0.0305
R	RP3	2+	2016	320	20.83	80	16.66	0.019
R	RP3	2+	2016	300	21.3	80	17.04	0.021
R	RP3	2+	2016	280	21.83	80	17.46	0.0215
R	RP3	2+	2016	260	22.36	80	17.89	0.021
R	RP3	2+	2016	240	22.89	80	18.31	0.0215
R	RP3	2+	2016	220	23.42	80	18.74	0.021
R	RP3	2+	2016	200	23.95	80	19.16	0.03
R	RP3	2+	2016	180	24.7	80	19.76	0.03
R	RP3	2+	2016	160	25.45	80	20.36	0.038
R	RP3	2+	2016	140	26.4	80	21.12	0.048
R	RP3	2+	2016	120	27.6	80	22.08	0.116
R	RP3	2+	2016	100	30.5	80	24.4	0
R	RP3	3-	2016	9999999	9.39	80	7.51	0
R	RP3	3-	2016	5000	9.39	80	7.51	0.00003
R	RP3	3-	2016	4000	9.43	80	7.54	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3-	2016	3000	9.47	80	7.58	0.00003
R	RP3	3-	2016	2000	9.51	80	7.61	0.0005
R	RP3	3-	2016	1900	9.58	80	7.66	0.0005
R	RP3	3-	2016	1800	9.64	80	7.71	0.0006
R	RP3	3-	2016	1700	9.71	80	7.77	0.0005
R	RP3	3-	2016	1600	9.77	80	7.82	0.0005
R	RP3	3-	2016	1500	9.84	80	7.87	0.0005
R	RP3	3-	2016	1400	9.9	80	7.92	0.003
R	RP3	3-	2016	1380	9.97	80	7.98	0.003
R	RP3	3-	2016	1360	10.05	80	8.04	0.003
R	RP3	3-	2016	1340	10.13	80	8.1	0.0035
R	RP3	3-	2016	1320	10.21	80	8.17	0.003
R	RP3	3-	2016	1300	10.29	80	8.23	0.0035
R	RP3	3-	2016	1280	10.37	80	8.3	0.003
R	RP3	3-	2016	1260	10.45	80	8.36	0.003
R	RP3	3-	2016	1240	10.53	80	8.42	0.0035
R	RP3	3-	2016	1220	10.61	80	8.49	0.003
R	RP3	3-	2016	1200	10.69	80	8.55	0.0035
R	RP3	3-	2016	1180	10.77	80	8.62	0.004
R	RP3	3-	2016	1160	10.87	80	8.7	0.004
R	RP3	3-	2016	1140	10.97	80	8.78	0.004
R	RP3	3-	2016	1120	11.07	80	8.86	0.004
R	RP3	3-	2016	1100	11.17	80	8.94	0.004
R	RP3	3-	2016	1080	11.28	80	9.02	0.004
R	RP3	3-	2016	1060	11.38	80	9.1	0.004
R	RP3	3-	2016	1040	11.48	80	9.18	0.004
R	RP3	3-	2016	1020	11.58	80	9.26	0.0045
R	RP3	3-	2016	1000	11.69	80	9.35	0.005
R	RP3	3-	2016	980	11.81	80	9.45	0.0045
R	RP3	3-	2016	960	11.93	80	9.54	0.005
R	RP3	3-	2016	940	12.05	80	9.64	0.005
R	RP3	3-	2016	920	12.18	80	9.74	0.005
R	RP3	3-	2016	900	12.3	80	9.84	0.005
R	RP3	3-	2016	880	12.42	80	9.94	0.005
R	RP3	3-	2016	860	12.55	80	10.04	0.005
R	RP3	3-	2016	840	12.67	80	10.14	0.0045
R	RP3	3-	2016	820	12.79	80	10.23	0.0055
R	RP3	3-	2016	800	12.92	80	10.34	0.0065
R	RP3	3-	2016	780	13.09	80	10.47	0.007
R	RP3	3-	2016	760	13.26	80	10.61	0.0065
R	RP3	3-	2016	740	13.43	80	10.74	0.0075
R	RP3	3-	2016	720	13.61	80	10.89	0.0065
R	RP3	3-	2016	700	13.78	80	11.02	0.007
R	RP3	3-	2016	680	13.95	80	11.16	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3-	2016	660	14.12	80	11.3	0.0135
R	RP3	3-	2016	640	14.46	80	11.57	0.014
R	RP3	3-	2016	620	14.81	80	11.85	0.0135
R	RP3	3-	2016	600	15.15	80	12.12	0.014
R	RP3	3-	2016	580	15.5	80	12.4	0.0135
R	RP3	3-	2016	560	15.84	80	12.67	0.014
R	RP3	3-	2016	540	16.19	80	12.95	0.0135
R	RP3	3-	2016	520	16.53	80	13.22	0.014
R	RP3	3-	2016	500	16.88	80	13.5	0.014
R	RP3	3-	2016	480	17.22	80	13.78	-0.066
R	RP3	3-	2016	460	15.57	80	12.46	0.0935
R	RP3	3-	2016	440	17.91	80	14.33	0.014
R	RP3	3-	2016	420	18.26	80	14.61	0.0135
R	RP3	3-	2016	400	18.6	80	14.88	0.014
R	RP3	3-	2016	380	18.95	80	15.16	0.014
R	RP3	3-	2016	360	19.3	80	15.44	0.0305
R	RP3	3-	2016	340	20.06	80	16.05	0.0305
R	RP3	3-	2016	320	20.83	80	16.66	0.019
R	RP3	3-	2016	300	21.3	80	17.04	0.021
R	RP3	3-	2016	280	21.83	80	17.46	0.0215
R	RP3	3-	2016	260	22.36	80	17.89	0.021
R	RP3	3-	2016	240	22.89	80	18.31	0.0215
R	RP3	3-	2016	220	23.42	80	18.74	0.021
R	RP3	3-	2016	200	23.95	80	19.16	0.03
R	RP3	3-	2016	180	24.7	80	19.76	0.03
R	RP3	3-	2016	160	25.45	80	20.36	0.038
R	RP3	3-	2016	140	26.4	80	21.12	0.048
R	RP3	3-	2016	120	27.6	80	22.08	0.116
R	RP3	3-	2016	100	30.5	80	24.4	0
R	RP3	3+	2016	9999999	9.39	80	7.51	0
R	RP3	3+	2016	5000	9.39	80	7.51	0.00003
R	RP3	3+	2016	4000	9.43	80	7.54	0.00004
R	RP3	3+	2016	3000	9.47	80	7.58	0.00003
R	RP3	3+	2016	2000	9.51	80	7.61	0.0005
R	RP3	3+	2016	1900	9.58	80	7.66	0.0005
R	RP3	3+	2016	1800	9.64	80	7.71	0.0006
R	RP3	3+	2016	1700	9.71	80	7.77	0.0005
R	RP3	3+	2016	1600	9.77	80	7.82	0.0005
R	RP3	3+	2016	1500	9.84	80	7.87	0.0005
R	RP3	3+	2016	1400	9.9	80	7.92	0.003
R	RP3	3+	2016	1380	9.97	80	7.98	0.003
R	RP3	3+	2016	1360	10.05	80	8.04	0.003
R	RP3	3+	2016	1340	10.13	80	8.1	0.0035
R	RP3	3+	2016	1320	10.21	80	8.17	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3+	2016	1300	10.29	80	8.23	0.0035
R	RP3	3+	2016	1280	10.37	80	8.3	0.003
R	RP3	3+	2016	1260	10.45	80	8.36	0.003
R	RP3	3+	2016	1240	10.53	80	8.42	0.0035
R	RP3	3+	2016	1220	10.61	80	8.49	0.003
R	RP3	3+	2016	1200	10.69	80	8.55	0.0035
R	RP3	3+	2016	1180	10.77	80	8.62	0.004
R	RP3	3+	2016	1160	10.87	80	8.7	0.004
R	RP3	3+	2016	1140	10.97	80	8.78	0.004
R	RP3	3+	2016	1120	11.07	80	8.86	0.004
R	RP3	3+	2016	1100	11.17	80	8.94	0.004
R	RP3	3+	2016	1080	11.28	80	9.02	0.004
R	RP3	3+	2016	1060	11.38	80	9.1	0.004
R	RP3	3+	2016	1040	11.48	80	9.18	0.004
R	RP3	3+	2016	1020	11.58	80	9.26	0.0045
R	RP3	3+	2016	1000	11.69	80	9.35	0.005
R	RP3	3+	2016	980	11.81	80	9.45	0.0045
R	RP3	3+	2016	960	11.93	80	9.54	0.005
R	RP3	3+	2016	940	12.05	80	9.64	0.005
R	RP3	3+	2016	920	12.18	80	9.74	0.005
R	RP3	3+	2016	900	12.3	80	9.84	0.005
R	RP3	3+	2016	880	12.42	80	9.94	0.005
R	RP3	3+	2016	860	12.55	80	10.04	0.005
R	RP3	3+	2016	840	12.67	80	10.14	0.0045
R	RP3	3+	2016	820	12.79	80	10.23	0.0055
R	RP3	3+	2016	800	12.92	80	10.34	0.0065
R	RP3	3+	2016	780	13.09	80	10.47	0.007
R	RP3	3+	2016	760	13.26	80	10.61	0.0065
R	RP3	3+	2016	740	13.43	80	10.74	0.0075
R	RP3	3+	2016	720	13.61	80	10.89	0.0065
R	RP3	3+	2016	700	13.78	80	11.02	0.007
R	RP3	3+	2016	680	13.95	80	11.16	0.007
R	RP3	3+	2016	660	14.12	80	11.3	0.0135
R	RP3	3+	2016	640	14.46	80	11.57	0.014
R	RP3	3+	2016	620	14.81	80	11.85	0.0135
R	RP3	3+	2016	600	15.15	80	12.12	0.014
R	RP3	3+	2016	580	15.5	80	12.4	0.0135
R	RP3	3+	2016	560	15.84	80	12.67	0.014
R	RP3	3+	2016	540	16.19	80	12.95	0.0135
R	RP3	3+	2016	520	16.53	80	13.22	0.014
R	RP3	3+	2016	500	16.88	80	13.5	0.014
R	RP3	3+	2016	480	17.22	80	13.78	-0.066
R	RP3	3+	2016	460	15.57	80	12.46	0.0935
R	RP3	3+	2016	440	17.91	80	14.33	0.014

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	3+	2016	420	18.26	80	14.61	0.0135
R	RP3	3+	2016	400	18.6	80	14.88	0.014
R	RP3	3+	2016	380	18.95	80	15.16	0.014
R	RP3	3+	2016	360	19.3	80	15.44	0.0305
R	RP3	3+	2016	340	20.06	80	16.05	0.0305
R	RP3	3+	2016	320	20.83	80	16.66	0.019
R	RP3	3+	2016	300	21.3	80	17.04	0.021
R	RP3	3+	2016	280	21.83	80	17.46	0.0215
R	RP3	3+	2016	260	22.36	80	17.89	0.021
R	RP3	3+	2016	240	22.89	80	18.31	0.0215
R	RP3	3+	2016	220	23.42	80	18.74	0.021
R	RP3	3+	2016	200	23.95	80	19.16	0.03
R	RP3	3+	2016	180	24.7	80	19.76	0.03
R	RP3	3+	2016	160	25.45	80	20.36	0.038
R	RP3	3+	2016	140	26.4	80	21.12	0.048
R	RP3	3+	2016	120	27.6	80	22.08	0.116
R	RP3	3+	2016	100	30.5	80	24.4	0
R	RP3	4-	2016	99999999	9.39	100	9.39	0
R	RP3	4-	2016	5000	9.39	100	9.39	0.00004
R	RP3	4-	2016	4000	9.43	100	9.43	0.00004
R	RP3	4-	2016	3000	9.47	100	9.47	0.00004
R	RP3	4-	2016	2000	9.51	100	9.51	0.0007
R	RP3	4-	2016	1900	9.58	100	9.58	0.0006
R	RP3	4-	2016	1800	9.64	100	9.64	0.0007
R	RP3	4-	2016	1700	9.71	100	9.71	0.0006
R	RP3	4-	2016	1600	9.77	100	9.77	0.0007
R	RP3	4-	2016	1500	9.84	100	9.84	0.0006
R	RP3	4-	2016	1400	9.9	100	9.9	0.0035
R	RP3	4-	2016	1380	9.97	100	9.97	0.004
R	RP3	4-	2016	1360	10.05	100	10.05	0.004
R	RP3	4-	2016	1340	10.13	100	10.13	0.004
R	RP3	4-	2016	1320	10.21	100	10.21	0.004
R	RP3	4-	2016	1300	10.29	100	10.29	0.004
R	RP3	4-	2016	1280	10.37	100	10.37	0.004
R	RP3	4-	2016	1260	10.45	100	10.45	0.004
R	RP3	4-	2016	1240	10.53	100	10.53	0.004
R	RP3	4-	2016	1220	10.61	100	10.61	0.004
R	RP3	4-	2016	1200	10.69	100	10.69	0.004
R	RP3	4-	2016	1180	10.77	100	10.77	0.005
R	RP3	4-	2016	1160	10.87	100	10.87	0.005
R	RP3	4-	2016	1140	10.97	100	10.97	0.005
R	RP3	4-	2016	1120	11.07	100	11.07	0.005
R	RP3	4-	2016	1100	11.17	100	11.17	0.0055
R	RP3	4-	2016	1080	11.28	100	11.28	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP3	4-	2016	1060	11.38	100	11.38	0.005
R	RP3	4-	2016	1040	11.48	100	11.48	0.005
R	RP3	4-	2016	1020	11.58	100	11.58	0.0055
R	RP3	4-	2016	1000	11.69	100	11.69	0.006
R	RP3	4-	2016	980	11.81	100	11.81	0.006
R	RP3	4-	2016	960	11.93	100	11.93	0.006
R	RP3	4-	2016	940	12.05	100	12.05	0.0065
R	RP3	4-	2016	920	12.18	100	12.18	0.006
R	RP3	4-	2016	900	12.3	100	12.3	0.006
R	RP3	4-	2016	880	12.42	100	12.42	0.0065
R	RP3	4-	2016	860	12.55	100	12.55	0.006
R	RP3	4-	2016	840	12.67	100	12.67	0.006
R	RP3	4-	2016	820	12.79	100	12.79	0.0065
R	RP3	4-	2016	800	12.92	100	12.92	0.0085
R	RP3	4-	2016	780	13.09	100	13.09	0.0085
R	RP3	4-	2016	760	13.26	100	13.26	0.0085
R	RP3	4-	2016	740	13.43	100	13.43	0.009
R	RP3	4-	2016	720	13.61	100	13.61	0.0085
R	RP3	4-	2016	700	13.78	100	13.78	0.0085
R	RP3	4-	2016	680	13.95	100	13.95	0.0085
R	RP3	4-	2016	660	14.12	100	14.12	0.017
R	RP3	4-	2016	640	14.46	100	14.46	0.0175
R	RP3	4-	2016	620	14.81	100	14.81	0.017
R	RP3	4-	2016	600	15.15	100	15.15	0.0175
R	RP3	4-	2016	580	15.5	100	15.5	0.017
R	RP3	4-	2016	560	15.84	100	15.84	0.0175
R	RP3	4-	2016	540	16.19	100	16.19	0.017
R	RP3	4-	2016	520	16.53	100	16.53	0.0175
R	RP3	4-	2016	500	16.88	100	16.88	0.017
R	RP3	4-	2016	480	17.22	100	17.22	-0.0825
R	RP3	4-	2016	460	15.57	100	15.57	0.117
R	RP3	4-	2016	440	17.91	100	17.91	0.0175
R	RP3	4-	2016	420	18.26	100	18.26	0.017
R	RP3	4-	2016	400	18.6	100	18.6	0.0175
R	RP3	4-	2016	380	18.95	100	18.95	0.0175
R	RP3	4-	2016	360	19.3	100	19.3	0.038
R	RP3	4-	2016	340	20.06	100	20.06	0.0385
R	RP3	4-	2016	320	20.83	100	20.83	0.0235
R	RP3	4-	2016	300	21.3	100	21.3	0.0265
R	RP3	4-	2016	280	21.83	100	21.83	0.0265
R	RP3	4-	2016	260	22.36	100	22.36	0.0265
R	RP3	4-	2016	240	22.89	100	22.89	0.0265
R	RP3	4-	2016	220	23.42	100	23.42	0.0265
R	RP3	4-	2016	200	23.95	100	23.95	0.0375

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP3	4-	2016	180	24.7	100	24.7	0.0375
R	RP3	4-	2016	160	25.45	100	25.45	0.0475
R	RP3	4-	2016	140	26.4	100	26.4	0.06
R	RP3	4-	2016	120	27.6	100	27.6	0.145
R	RP3	4-	2016	100	30.5	100	30.5	0
R	RP3	4+	2016	99999999	9.39	100	9.39	0
R	RP3	4+	2016	5000	9.39	100	9.39	0.00004
R	RP3	4+	2016	4000	9.43	100	9.43	0.00004
R	RP3	4+	2016	3000	9.47	100	9.47	0.00004
R	RP3	4+	2016	2000	9.51	100	9.51	0.0007
R	RP3	4+	2016	1900	9.58	100	9.58	0.0006
R	RP3	4+	2016	1800	9.64	100	9.64	0.0007
R	RP3	4+	2016	1700	9.71	100	9.71	0.0006
R	RP3	4+	2016	1600	9.77	100	9.77	0.0007
R	RP3	4+	2016	1500	9.84	100	9.84	0.0006
R	RP3	4+	2016	1400	9.9	100	9.9	0.0035
R	RP3	4+	2016	1380	9.97	100	9.97	0.004
R	RP3	4+	2016	1360	10.05	100	10.05	0.004
R	RP3	4+	2016	1340	10.13	100	10.13	0.004
R	RP3	4+	2016	1320	10.21	100	10.21	0.004
R	RP3	4+	2016	1300	10.29	100	10.29	0.004
R	RP3	4+	2016	1280	10.37	100	10.37	0.004
R	RP3	4+	2016	1260	10.45	100	10.45	0.004
R	RP3	4+	2016	1240	10.53	100	10.53	0.004
R	RP3	4+	2016	1220	10.61	100	10.61	0.004
R	RP3	4+	2016	1200	10.69	100	10.69	0.004
R	RP3	4+	2016	1180	10.77	100	10.77	0.005
R	RP3	4+	2016	1160	10.87	100	10.87	0.005
R	RP3	4+	2016	1140	10.97	100	10.97	0.005
R	RP3	4+	2016	1120	11.07	100	11.07	0.005
R	RP3	4+	2016	1100	11.17	100	11.17	0.0055
R	RP3	4+	2016	1080	11.28	100	11.28	0.005
R	RP3	4+	2016	1060	11.38	100	11.38	0.005
R	RP3	4+	2016	1040	11.48	100	11.48	0.005
R	RP3	4+	2016	1020	11.58	100	11.58	0.0055
R	RP3	4+	2016	1000	11.69	100	11.69	0.006
R	RP3	4+	2016	980	11.81	100	11.81	0.006
R	RP3	4+	2016	960	11.93	100	11.93	0.006
R	RP3	4+	2016	940	12.05	100	12.05	0.0065
R	RP3	4+	2016	920	12.18	100	12.18	0.006
R	RP3	4+	2016	900	12.3	100	12.3	0.006
R	RP3	4+	2016	880	12.42	100	12.42	0.0065
R	RP3	4+	2016	860	12.55	100	12.55	0.006
R	RP3	4+	2016	840	12.67	100	12.67	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	4+	2016	820	12.79	100	12.79	0.0065
R	RP3	4+	2016	800	12.92	100	12.92	0.0085
R	RP3	4+	2016	780	13.09	100	13.09	0.0085
R	RP3	4+	2016	760	13.26	100	13.26	0.0085
R	RP3	4+	2016	740	13.43	100	13.43	0.009
R	RP3	4+	2016	720	13.61	100	13.61	0.0085
R	RP3	4+	2016	700	13.78	100	13.78	0.0085
R	RP3	4+	2016	680	13.95	100	13.95	0.0085
R	RP3	4+	2016	660	14.12	100	14.12	0.017
R	RP3	4+	2016	640	14.46	100	14.46	0.0175
R	RP3	4+	2016	620	14.81	100	14.81	0.017
R	RP3	4+	2016	600	15.15	100	15.15	0.0175
R	RP3	4+	2016	580	15.5	100	15.5	0.017
R	RP3	4+	2016	560	15.84	100	15.84	0.0175
R	RP3	4+	2016	540	16.19	100	16.19	0.017
R	RP3	4+	2016	520	16.53	100	16.53	0.0175
R	RP3	4+	2016	500	16.88	100	16.88	0.017
R	RP3	4+	2016	480	17.22	100	17.22	-0.0825
R	RP3	4+	2016	460	15.57	100	15.57	0.117
R	RP3	4+	2016	440	17.91	100	17.91	0.0175
R	RP3	4+	2016	420	18.26	100	18.26	0.017
R	RP3	4+	2016	400	18.6	100	18.6	0.0175
R	RP3	4+	2016	380	18.95	100	18.95	0.0175
R	RP3	4+	2016	360	19.3	100	19.3	0.038
R	RP3	4+	2016	340	20.06	100	20.06	0.0385
R	RP3	4+	2016	320	20.83	100	20.83	0.0235
R	RP3	4+	2016	300	21.3	100	21.3	0.0265
R	RP3	4+	2016	280	21.83	100	21.83	0.0265
R	RP3	4+	2016	260	22.36	100	22.36	0.0265
R	RP3	4+	2016	240	22.89	100	22.89	0.0265
R	RP3	4+	2016	220	23.42	100	23.42	0.0265
R	RP3	4+	2016	200	23.95	100	23.95	0.0375
R	RP3	4+	2016	180	24.7	100	24.7	0.0375
R	RP3	4+	2016	160	25.45	100	25.45	0.0475
R	RP3	4+	2016	140	26.4	100	26.4	0.06
R	RP3	4+	2016	120	27.6	100	27.6	0.145
R	RP3	4+	2016	100	30.5	100	30.5	0
R	RP3	5-	2016	99999999	9.39	120	11.27	0
R	RP3	5-	2016	5000	9.39	120	11.27	0.00005
R	RP3	5-	2016	4000	9.43	120	11.32	0.00004
R	RP3	5-	2016	3000	9.47	120	11.36	0.00005
R	RP3	5-	2016	2000	9.51	120	11.41	0.0009
R	RP3	5-	2016	1900	9.58	120	11.5	0.0007
R	RP3	5-	2016	1800	9.64	120	11.57	0.0008

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5-	2016	1700	9.71	120	11.65	0.0007
R	RP3	5-	2016	1600	9.77	120	11.72	0.0009
R	RP3	5-	2016	1500	9.84	120	11.81	0.0007
R	RP3	5-	2016	1400	9.9	120	11.88	0.004
R	RP3	5-	2016	1380	9.97	120	11.96	0.005
R	RP3	5-	2016	1360	10.05	120	12.06	0.005
R	RP3	5-	2016	1340	10.13	120	12.16	0.0045
R	RP3	5-	2016	1320	10.21	120	12.25	0.005
R	RP3	5-	2016	1300	10.29	120	12.35	0.0045
R	RP3	5-	2016	1280	10.37	120	12.44	0.005
R	RP3	5-	2016	1260	10.45	120	12.54	0.005
R	RP3	5-	2016	1240	10.53	120	12.64	0.0045
R	RP3	5-	2016	1220	10.61	120	12.73	0.005
R	RP3	5-	2016	1200	10.69	120	12.83	0.0045
R	RP3	5-	2016	1180	10.77	120	12.92	0.006
R	RP3	5-	2016	1160	10.87	120	13.04	0.006
R	RP3	5-	2016	1140	10.97	120	13.16	0.006
R	RP3	5-	2016	1120	11.07	120	13.28	0.006
R	RP3	5-	2016	1100	11.17	120	13.4	0.007
R	RP3	5-	2016	1080	11.28	120	13.54	0.006
R	RP3	5-	2016	1060	11.38	120	13.66	0.006
R	RP3	5-	2016	1040	11.48	120	13.78	0.006
R	RP3	5-	2016	1020	11.58	120	13.9	0.0065
R	RP3	5-	2016	1000	11.69	120	14.03	0.007
R	RP3	5-	2016	980	11.81	120	14.17	0.0075
R	RP3	5-	2016	960	11.93	120	14.32	0.007
R	RP3	5-	2016	940	12.05	120	14.46	0.008
R	RP3	5-	2016	920	12.18	120	14.62	0.007
R	RP3	5-	2016	900	12.3	120	14.76	0.007
R	RP3	5-	2016	880	12.42	120	14.9	0.008
R	RP3	5-	2016	860	12.55	120	15.06	0.007
R	RP3	5-	2016	840	12.67	120	15.2	0.0075
R	RP3	5-	2016	820	12.79	120	15.35	0.0075
R	RP3	5-	2016	800	12.92	120	15.5	0.0105
R	RP3	5-	2016	780	13.09	120	15.71	0.01
R	RP3	5-	2016	760	13.26	120	15.91	0.0105
R	RP3	5-	2016	740	13.43	120	16.12	0.0105
R	RP3	5-	2016	720	13.61	120	16.33	0.0105
R	RP3	5-	2016	700	13.78	120	16.54	0.01
R	RP3	5-	2016	680	13.95	120	16.74	0.01
R	RP3	5-	2016	660	14.12	120	16.94	0.0205
R	RP3	5-	2016	640	14.46	120	17.35	0.021
R	RP3	5-	2016	620	14.81	120	17.77	0.0205
R	RP3	5-	2016	600	15.15	120	18.18	0.021

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5-	2016	580	15.5	120	18.6	0.0205
R	RP3	5-	2016	560	15.84	120	19.01	0.021
R	RP3	5-	2016	540	16.19	120	19.43	0.0205
R	RP3	5-	2016	520	16.53	120	19.84	0.021
R	RP3	5-	2016	500	16.88	120	20.26	0.02
R	RP3	5-	2016	480	17.22	120	20.66	-0.099
R	RP3	5-	2016	460	15.57	120	18.68	0.1405
R	RP3	5-	2016	440	17.91	120	21.49	0.021
R	RP3	5-	2016	420	18.26	120	21.91	0.0205
R	RP3	5-	2016	400	18.6	120	22.32	0.021
R	RP3	5-	2016	380	18.95	120	22.74	0.021
R	RP3	5-	2016	360	19.3	120	23.16	0.0455
R	RP3	5-	2016	340	20.06	120	24.07	0.0465
R	RP3	5-	2016	320	20.83	120	25	0.028
R	RP3	5-	2016	300	21.3	120	25.56	0.032
R	RP3	5-	2016	280	21.83	120	26.2	0.0315
R	RP3	5-	2016	260	22.36	120	26.83	0.032
R	RP3	5-	2016	240	22.89	120	27.47	0.0315
R	RP3	5-	2016	220	23.42	120	28.1	0.032
R	RP3	5-	2016	200	23.95	120	28.74	0.045
R	RP3	5-	2016	180	24.7	120	29.64	0.045
R	RP3	5-	2016	160	25.45	120	30.54	0.057
R	RP3	5-	2016	140	26.4	120	31.68	0.072
R	RP3	5-	2016	120	27.6	120	33.12	0.174
R	RP3	5-	2016	100	30.5	120	36.6	0
R	RP3	5+	2016	99999999	9.39	120	11.27	0
R	RP3	5+	2016	5000	9.39	120	11.27	0.00005
R	RP3	5+	2016	4000	9.43	120	11.32	0.00004
R	RP3	5+	2016	3000	9.47	120	11.36	0.00005
R	RP3	5+	2016	2000	9.51	120	11.41	0.0009
R	RP3	5+	2016	1900	9.58	120	11.5	0.0007
R	RP3	5+	2016	1800	9.64	120	11.57	0.0008
R	RP3	5+	2016	1700	9.71	120	11.65	0.0007
R	RP3	5+	2016	1600	9.77	120	11.72	0.0009
R	RP3	5+	2016	1500	9.84	120	11.81	0.0007
R	RP3	5+	2016	1400	9.9	120	11.88	0.004
R	RP3	5+	2016	1380	9.97	120	11.96	0.005
R	RP3	5+	2016	1360	10.05	120	12.06	0.005
R	RP3	5+	2016	1340	10.13	120	12.16	0.0045
R	RP3	5+	2016	1320	10.21	120	12.25	0.005
R	RP3	5+	2016	1300	10.29	120	12.35	0.0045
R	RP3	5+	2016	1280	10.37	120	12.44	0.005
R	RP3	5+	2016	1260	10.45	120	12.54	0.005
R	RP3	5+	2016	1240	10.53	120	12.64	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5+	2016	1220	10.61	120	12.73	0.005
R	RP3	5+	2016	1200	10.69	120	12.83	0.0045
R	RP3	5+	2016	1180	10.77	120	12.92	0.006
R	RP3	5+	2016	1160	10.87	120	13.04	0.006
R	RP3	5+	2016	1140	10.97	120	13.16	0.006
R	RP3	5+	2016	1120	11.07	120	13.28	0.006
R	RP3	5+	2016	1100	11.17	120	13.4	0.007
R	RP3	5+	2016	1080	11.28	120	13.54	0.006
R	RP3	5+	2016	1060	11.38	120	13.66	0.006
R	RP3	5+	2016	1040	11.48	120	13.78	0.006
R	RP3	5+	2016	1020	11.58	120	13.9	0.0065
R	RP3	5+	2016	1000	11.69	120	14.03	0.007
R	RP3	5+	2016	980	11.81	120	14.17	0.0075
R	RP3	5+	2016	960	11.93	120	14.32	0.007
R	RP3	5+	2016	940	12.05	120	14.46	0.008
R	RP3	5+	2016	920	12.18	120	14.62	0.007
R	RP3	5+	2016	900	12.3	120	14.76	0.007
R	RP3	5+	2016	880	12.42	120	14.9	0.008
R	RP3	5+	2016	860	12.55	120	15.06	0.007
R	RP3	5+	2016	840	12.67	120	15.2	0.0075
R	RP3	5+	2016	820	12.79	120	15.35	0.0075
R	RP3	5+	2016	800	12.92	120	15.5	0.0105
R	RP3	5+	2016	780	13.09	120	15.71	0.01
R	RP3	5+	2016	760	13.26	120	15.91	0.0105
R	RP3	5+	2016	740	13.43	120	16.12	0.0105
R	RP3	5+	2016	720	13.61	120	16.33	0.0105
R	RP3	5+	2016	700	13.78	120	16.54	0.01
R	RP3	5+	2016	680	13.95	120	16.74	0.01
R	RP3	5+	2016	660	14.12	120	16.94	0.0205
R	RP3	5+	2016	640	14.46	120	17.35	0.021
R	RP3	5+	2016	620	14.81	120	17.77	0.0205
R	RP3	5+	2016	600	15.15	120	18.18	0.021
R	RP3	5+	2016	580	15.5	120	18.6	0.0205
R	RP3	5+	2016	560	15.84	120	19.01	0.021
R	RP3	5+	2016	540	16.19	120	19.43	0.0205
R	RP3	5+	2016	520	16.53	120	19.84	0.021
R	RP3	5+	2016	500	16.88	120	20.26	0.02
R	RP3	5+	2016	480	17.22	120	20.66	-0.099
R	RP3	5+	2016	460	15.57	120	18.68	0.1405
R	RP3	5+	2016	440	17.91	120	21.49	0.021
R	RP3	5+	2016	420	18.26	120	21.91	0.0205
R	RP3	5+	2016	400	18.6	120	22.32	0.021
R	RP3	5+	2016	380	18.95	120	22.74	0.021
R	RP3	5+	2016	360	19.3	120	23.16	0.0455

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	5+	2016	340	20.06	120	24.07	0.0465
R	RP3	5+	2016	320	20.83	120	25	0.028
R	RP3	5+	2016	300	21.3	120	25.56	0.032
R	RP3	5+	2016	280	21.83	120	26.2	0.0315
R	RP3	5+	2016	260	22.36	120	26.83	0.032
R	RP3	5+	2016	240	22.89	120	27.47	0.0315
R	RP3	5+	2016	220	23.42	120	28.1	0.032
R	RP3	5+	2016	200	23.95	120	28.74	0.045
R	RP3	5+	2016	180	24.7	120	29.64	0.045
R	RP3	5+	2016	160	25.45	120	30.54	0.057
R	RP3	5+	2016	140	26.4	120	31.68	0.072
R	RP3	5+	2016	120	27.6	120	33.12	0.174
R	RP3	5+	2016	100	30.5	120	36.6	0
R	RP3	6-	2016	99999999	9.39	120	11.27	0
R	RP3	6-	2016	5000	9.39	120	11.27	0.00005
R	RP3	6-	2016	4000	9.43	120	11.32	0.00004
R	RP3	6-	2016	3000	9.47	120	11.36	0.00005
R	RP3	6-	2016	2000	9.51	120	11.41	0.0009
R	RP3	6-	2016	1900	9.58	120	11.5	0.0007
R	RP3	6-	2016	1800	9.64	120	11.57	0.0008
R	RP3	6-	2016	1700	9.71	120	11.65	0.0007
R	RP3	6-	2016	1600	9.77	120	11.72	0.0009
R	RP3	6-	2016	1500	9.84	120	11.81	0.0007
R	RP3	6-	2016	1400	9.9	120	11.88	0.004
R	RP3	6-	2016	1380	9.97	120	11.96	0.005
R	RP3	6-	2016	1360	10.05	120	12.06	0.005
R	RP3	6-	2016	1340	10.13	120	12.16	0.0045
R	RP3	6-	2016	1320	10.21	120	12.25	0.005
R	RP3	6-	2016	1300	10.29	120	12.35	0.0045
R	RP3	6-	2016	1280	10.37	120	12.44	0.005
R	RP3	6-	2016	1260	10.45	120	12.54	0.005
R	RP3	6-	2016	1240	10.53	120	12.64	0.0045
R	RP3	6-	2016	1220	10.61	120	12.73	0.005
R	RP3	6-	2016	1200	10.69	120	12.83	0.0045
R	RP3	6-	2016	1180	10.77	120	12.92	0.006
R	RP3	6-	2016	1160	10.87	120	13.04	0.006
R	RP3	6-	2016	1140	10.97	120	13.16	0.006
R	RP3	6-	2016	1120	11.07	120	13.28	0.006
R	RP3	6-	2016	1100	11.17	120	13.4	0.007
R	RP3	6-	2016	1080	11.28	120	13.54	0.006
R	RP3	6-	2016	1060	11.38	120	13.66	0.006
R	RP3	6-	2016	1040	11.48	120	13.78	0.006
R	RP3	6-	2016	1020	11.58	120	13.9	0.0065
R	RP3	6-	2016	1000	11.69	120	14.03	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	6-	2016	980	11.81	120	14.17	0.0075
R	RP3	6-	2016	960	11.93	120	14.32	0.007
R	RP3	6-	2016	940	12.05	120	14.46	0.008
R	RP3	6-	2016	920	12.18	120	14.62	0.007
R	RP3	6-	2016	900	12.3	120	14.76	0.007
R	RP3	6-	2016	880	12.42	120	14.9	0.008
R	RP3	6-	2016	860	12.55	120	15.06	0.007
R	RP3	6-	2016	840	12.67	120	15.2	0.0075
R	RP3	6-	2016	820	12.79	120	15.35	0.0075
R	RP3	6-	2016	800	12.92	120	15.5	0.0105
R	RP3	6-	2016	780	13.09	120	15.71	0.01
R	RP3	6-	2016	760	13.26	120	15.91	0.0105
R	RP3	6-	2016	740	13.43	120	16.12	0.0105
R	RP3	6-	2016	720	13.61	120	16.33	0.0105
R	RP3	6-	2016	700	13.78	120	16.54	0.01
R	RP3	6-	2016	680	13.95	120	16.74	0.01
R	RP3	6-	2016	660	14.12	120	16.94	0.0205
R	RP3	6-	2016	640	14.46	120	17.35	0.021
R	RP3	6-	2016	620	14.81	120	17.77	0.0205
R	RP3	6-	2016	600	15.15	120	18.18	0.021
R	RP3	6-	2016	580	15.5	120	18.6	0.0205
R	RP3	6-	2016	560	15.84	120	19.01	0.021
R	RP3	6-	2016	540	16.19	120	19.43	0.0205
R	RP3	6-	2016	520	16.53	120	19.84	0.021
R	RP3	6-	2016	500	16.88	120	20.26	0.02
R	RP3	6-	2016	480	17.22	120	20.66	-0.099
R	RP3	6-	2016	460	15.57	120	18.68	0.1405
R	RP3	6-	2016	440	17.91	120	21.49	0.021
R	RP3	6-	2016	420	18.26	120	21.91	0.0205
R	RP3	6-	2016	400	18.6	120	22.32	0.021
R	RP3	6-	2016	380	18.95	120	22.74	0.021
R	RP3	6-	2016	360	19.3	120	23.16	0.0455
R	RP3	6-	2016	340	20.06	120	24.07	0.0465
R	RP3	6-	2016	320	20.83	120	25	0.028
R	RP3	6-	2016	300	21.3	120	25.56	0.032
R	RP3	6-	2016	280	21.83	120	26.2	0.0315
R	RP3	6-	2016	260	22.36	120	26.83	0.032
R	RP3	6-	2016	240	22.89	120	27.47	0.0315
R	RP3	6-	2016	220	23.42	120	28.1	0.032
R	RP3	6-	2016	200	23.95	120	28.74	0.045
R	RP3	6-	2016	180	24.7	120	29.64	0.045
R	RP3	6-	2016	160	25.45	120	30.54	0.057
R	RP3	6-	2016	140	26.4	120	31.68	0.072
R	RP3	6-	2016	120	27.6	120	33.12	0.174

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	6-	2016	100	30.5	120	36.6	0
R	RP3	6+	2016	99999999	9.39	120	11.27	0
R	RP3	6+	2016	5000	9.39	120	11.27	0.00005
R	RP3	6+	2016	4000	9.43	120	11.32	0.00004
R	RP3	6+	2016	3000	9.47	120	11.36	0.00005
R	RP3	6+	2016	2000	9.51	120	11.41	0.0009
R	RP3	6+	2016	1900	9.58	120	11.5	0.0007
R	RP3	6+	2016	1800	9.64	120	11.57	0.0008
R	RP3	6+	2016	1700	9.71	120	11.65	0.0007
R	RP3	6+	2016	1600	9.77	120	11.72	0.0009
R	RP3	6+	2016	1500	9.84	120	11.81	0.0007
R	RP3	6+	2016	1400	9.9	120	11.88	0.004
R	RP3	6+	2016	1380	9.97	120	11.96	0.005
R	RP3	6+	2016	1360	10.05	120	12.06	0.005
R	RP3	6+	2016	1340	10.13	120	12.16	0.0045
R	RP3	6+	2016	1320	10.21	120	12.25	0.005
R	RP3	6+	2016	1300	10.29	120	12.35	0.0045
R	RP3	6+	2016	1280	10.37	120	12.44	0.005
R	RP3	6+	2016	1260	10.45	120	12.54	0.005
R	RP3	6+	2016	1240	10.53	120	12.64	0.0045
R	RP3	6+	2016	1220	10.61	120	12.73	0.005
R	RP3	6+	2016	1200	10.69	120	12.83	0.0045
R	RP3	6+	2016	1180	10.77	120	12.92	0.006
R	RP3	6+	2016	1160	10.87	120	13.04	0.006
R	RP3	6+	2016	1140	10.97	120	13.16	0.006
R	RP3	6+	2016	1120	11.07	120	13.28	0.006
R	RP3	6+	2016	1100	11.17	120	13.4	0.007
R	RP3	6+	2016	1080	11.28	120	13.54	0.006
R	RP3	6+	2016	1060	11.38	120	13.66	0.006
R	RP3	6+	2016	1040	11.48	120	13.78	0.006
R	RP3	6+	2016	1020	11.58	120	13.9	0.0065
R	RP3	6+	2016	1000	11.69	120	14.03	0.007
R	RP3	6+	2016	980	11.81	120	14.17	0.0075
R	RP3	6+	2016	960	11.93	120	14.32	0.007
R	RP3	6+	2016	940	12.05	120	14.46	0.008
R	RP3	6+	2016	920	12.18	120	14.62	0.007
R	RP3	6+	2016	900	12.3	120	14.76	0.007
R	RP3	6+	2016	880	12.42	120	14.9	0.008
R	RP3	6+	2016	860	12.55	120	15.06	0.007
R	RP3	6+	2016	840	12.67	120	15.2	0.0075
R	RP3	6+	2016	820	12.79	120	15.35	0.0075
R	RP3	6+	2016	800	12.92	120	15.5	0.0105
R	RP3	6+	2016	780	13.09	120	15.71	0.01
R	RP3	6+	2016	760	13.26	120	15.91	0.0105

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	6+	2016	740	13.43	120	16.12	0.0105
R	RP3	6+	2016	720	13.61	120	16.33	0.0105
R	RP3	6+	2016	700	13.78	120	16.54	0.01
R	RP3	6+	2016	680	13.95	120	16.74	0.01
R	RP3	6+	2016	660	14.12	120	16.94	0.0205
R	RP3	6+	2016	640	14.46	120	17.35	0.021
R	RP3	6+	2016	620	14.81	120	17.77	0.0205
R	RP3	6+	2016	600	15.15	120	18.18	0.021
R	RP3	6+	2016	580	15.5	120	18.6	0.0205
R	RP3	6+	2016	560	15.84	120	19.01	0.021
R	RP3	6+	2016	540	16.19	120	19.43	0.0205
R	RP3	6+	2016	520	16.53	120	19.84	0.021
R	RP3	6+	2016	500	16.88	120	20.26	0.02
R	RP3	6+	2016	480	17.22	120	20.66	-0.099
R	RP3	6+	2016	460	15.57	120	18.68	0.1405
R	RP3	6+	2016	440	17.91	120	21.49	0.021
R	RP3	6+	2016	420	18.26	120	21.91	0.0205
R	RP3	6+	2016	400	18.6	120	22.32	0.021
R	RP3	6+	2016	380	18.95	120	22.74	0.021
R	RP3	6+	2016	360	19.3	120	23.16	0.0455
R	RP3	6+	2016	340	20.06	120	24.07	0.0465
R	RP3	6+	2016	320	20.83	120	25	0.028
R	RP3	6+	2016	300	21.3	120	25.56	0.032
R	RP3	6+	2016	280	21.83	120	26.2	0.0315
R	RP3	6+	2016	260	22.36	120	26.83	0.032
R	RP3	6+	2016	240	22.89	120	27.47	0.0315
R	RP3	6+	2016	220	23.42	120	28.1	0.032
R	RP3	6+	2016	200	23.95	120	28.74	0.045
R	RP3	6+	2016	180	24.7	120	29.64	0.045
R	RP3	6+	2016	160	25.45	120	30.54	0.057
R	RP3	6+	2016	140	26.4	120	31.68	0.072
R	RP3	6+	2016	120	27.6	120	33.12	0.174
R	RP3	6+	2016	100	30.5	120	36.6	0
R	RP3	7-	2016	99999999	9.39	120	11.27	0
R	RP3	7-	2016	5000	9.39	120	11.27	0.00005
R	RP3	7-	2016	4000	9.43	120	11.32	0.00004
R	RP3	7-	2016	3000	9.47	120	11.36	0.00005
R	RP3	7-	2016	2000	9.51	120	11.41	0.0009
R	RP3	7-	2016	1900	9.58	120	11.5	0.0007
R	RP3	7-	2016	1800	9.64	120	11.57	0.0008
R	RP3	7-	2016	1700	9.71	120	11.65	0.0007
R	RP3	7-	2016	1600	9.77	120	11.72	0.0009
R	RP3	7-	2016	1500	9.84	120	11.81	0.0007
R	RP3	7-	2016	1400	9.9	120	11.88	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7-	2016	1380	9.97	120	11.96	0.005
R	RP3	7-	2016	1360	10.05	120	12.06	0.005
R	RP3	7-	2016	1340	10.13	120	12.16	0.0045
R	RP3	7-	2016	1320	10.21	120	12.25	0.005
R	RP3	7-	2016	1300	10.29	120	12.35	0.0045
R	RP3	7-	2016	1280	10.37	120	12.44	0.005
R	RP3	7-	2016	1260	10.45	120	12.54	0.005
R	RP3	7-	2016	1240	10.53	120	12.64	0.0045
R	RP3	7-	2016	1220	10.61	120	12.73	0.005
R	RP3	7-	2016	1200	10.69	120	12.83	0.0045
R	RP3	7-	2016	1180	10.77	120	12.92	0.006
R	RP3	7-	2016	1160	10.87	120	13.04	0.006
R	RP3	7-	2016	1140	10.97	120	13.16	0.006
R	RP3	7-	2016	1120	11.07	120	13.28	0.006
R	RP3	7-	2016	1100	11.17	120	13.4	0.007
R	RP3	7-	2016	1080	11.28	120	13.54	0.006
R	RP3	7-	2016	1060	11.38	120	13.66	0.006
R	RP3	7-	2016	1040	11.48	120	13.78	0.006
R	RP3	7-	2016	1020	11.58	120	13.9	0.0065
R	RP3	7-	2016	1000	11.69	120	14.03	0.007
R	RP3	7-	2016	980	11.81	120	14.17	0.0075
R	RP3	7-	2016	960	11.93	120	14.32	0.007
R	RP3	7-	2016	940	12.05	120	14.46	0.008
R	RP3	7-	2016	920	12.18	120	14.62	0.007
R	RP3	7-	2016	900	12.3	120	14.76	0.007
R	RP3	7-	2016	880	12.42	120	14.9	0.008
R	RP3	7-	2016	860	12.55	120	15.06	0.007
R	RP3	7-	2016	840	12.67	120	15.2	0.0075
R	RP3	7-	2016	820	12.79	120	15.35	0.0075
R	RP3	7-	2016	800	12.92	120	15.5	0.0105
R	RP3	7-	2016	780	13.09	120	15.71	0.01
R	RP3	7-	2016	760	13.26	120	15.91	0.0105
R	RP3	7-	2016	740	13.43	120	16.12	0.0105
R	RP3	7-	2016	720	13.61	120	16.33	0.0105
R	RP3	7-	2016	700	13.78	120	16.54	0.01
R	RP3	7-	2016	680	13.95	120	16.74	0.01
R	RP3	7-	2016	660	14.12	120	16.94	0.0205
R	RP3	7-	2016	640	14.46	120	17.35	0.021
R	RP3	7-	2016	620	14.81	120	17.77	0.0205
R	RP3	7-	2016	600	15.15	120	18.18	0.021
R	RP3	7-	2016	580	15.5	120	18.6	0.0205
R	RP3	7-	2016	560	15.84	120	19.01	0.021
R	RP3	7-	2016	540	16.19	120	19.43	0.0205
R	RP3	7-	2016	520	16.53	120	19.84	0.021

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7-	2016	500	16.88	120	20.26	0.02
R	RP3	7-	2016	480	17.22	120	20.66	-0.099
R	RP3	7-	2016	460	15.57	120	18.68	0.1405
R	RP3	7-	2016	440	17.91	120	21.49	0.021
R	RP3	7-	2016	420	18.26	120	21.91	0.0205
R	RP3	7-	2016	400	18.6	120	22.32	0.021
R	RP3	7-	2016	380	18.95	120	22.74	0.021
R	RP3	7-	2016	360	19.3	120	23.16	0.0455
R	RP3	7-	2016	340	20.06	120	24.07	0.0465
R	RP3	7-	2016	320	20.83	120	25	0.028
R	RP3	7-	2016	300	21.3	120	25.56	0.032
R	RP3	7-	2016	280	21.83	120	26.2	0.0315
R	RP3	7-	2016	260	22.36	120	26.83	0.032
R	RP3	7-	2016	240	22.89	120	27.47	0.0315
R	RP3	7-	2016	220	23.42	120	28.1	0.032
R	RP3	7-	2016	200	23.95	120	28.74	0.045
R	RP3	7-	2016	180	24.7	120	29.64	0.045
R	RP3	7-	2016	160	25.45	120	30.54	0.057
R	RP3	7-	2016	140	26.4	120	31.68	0.072
R	RP3	7-	2016	120	27.6	120	33.12	0.174
R	RP3	7-	2016	100	30.5	120	36.6	0
R	RP3	7+	2016	99999999	9.39	120	11.27	0
R	RP3	7+	2016	5000	9.39	120	11.27	0.00005
R	RP3	7+	2016	4000	9.43	120	11.32	0.00004
R	RP3	7+	2016	3000	9.47	120	11.36	0.00005
R	RP3	7+	2016	2000	9.51	120	11.41	0.0009
R	RP3	7+	2016	1900	9.58	120	11.5	0.0007
R	RP3	7+	2016	1800	9.64	120	11.57	0.0008
R	RP3	7+	2016	1700	9.71	120	11.65	0.0007
R	RP3	7+	2016	1600	9.77	120	11.72	0.0009
R	RP3	7+	2016	1500	9.84	120	11.81	0.0007
R	RP3	7+	2016	1400	9.9	120	11.88	0.004
R	RP3	7+	2016	1380	9.97	120	11.96	0.005
R	RP3	7+	2016	1360	10.05	120	12.06	0.005
R	RP3	7+	2016	1340	10.13	120	12.16	0.0045
R	RP3	7+	2016	1320	10.21	120	12.25	0.005
R	RP3	7+	2016	1300	10.29	120	12.35	0.0045
R	RP3	7+	2016	1280	10.37	120	12.44	0.005
R	RP3	7+	2016	1260	10.45	120	12.54	0.005
R	RP3	7+	2016	1240	10.53	120	12.64	0.0045
R	RP3	7+	2016	1220	10.61	120	12.73	0.005
R	RP3	7+	2016	1200	10.69	120	12.83	0.0045
R	RP3	7+	2016	1180	10.77	120	12.92	0.006
R	RP3	7+	2016	1160	10.87	120	13.04	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7+	2016	1140	10.97	120	13.16	0.006
R	RP3	7+	2016	1120	11.07	120	13.28	0.006
R	RP3	7+	2016	1100	11.17	120	13.4	0.007
R	RP3	7+	2016	1080	11.28	120	13.54	0.006
R	RP3	7+	2016	1060	11.38	120	13.66	0.006
R	RP3	7+	2016	1040	11.48	120	13.78	0.006
R	RP3	7+	2016	1020	11.58	120	13.9	0.0065
R	RP3	7+	2016	1000	11.69	120	14.03	0.007
R	RP3	7+	2016	980	11.81	120	14.17	0.0075
R	RP3	7+	2016	960	11.93	120	14.32	0.007
R	RP3	7+	2016	940	12.05	120	14.46	0.008
R	RP3	7+	2016	920	12.18	120	14.62	0.007
R	RP3	7+	2016	900	12.3	120	14.76	0.007
R	RP3	7+	2016	880	12.42	120	14.9	0.008
R	RP3	7+	2016	860	12.55	120	15.06	0.007
R	RP3	7+	2016	840	12.67	120	15.2	0.0075
R	RP3	7+	2016	820	12.79	120	15.35	0.0075
R	RP3	7+	2016	800	12.92	120	15.5	0.0105
R	RP3	7+	2016	780	13.09	120	15.71	0.01
R	RP3	7+	2016	760	13.26	120	15.91	0.0105
R	RP3	7+	2016	740	13.43	120	16.12	0.0105
R	RP3	7+	2016	720	13.61	120	16.33	0.0105
R	RP3	7+	2016	700	13.78	120	16.54	0.01
R	RP3	7+	2016	680	13.95	120	16.74	0.01
R	RP3	7+	2016	660	14.12	120	16.94	0.0205
R	RP3	7+	2016	640	14.46	120	17.35	0.021
R	RP3	7+	2016	620	14.81	120	17.77	0.0205
R	RP3	7+	2016	600	15.15	120	18.18	0.021
R	RP3	7+	2016	580	15.5	120	18.6	0.0205
R	RP3	7+	2016	560	15.84	120	19.01	0.021
R	RP3	7+	2016	540	16.19	120	19.43	0.0205
R	RP3	7+	2016	520	16.53	120	19.84	0.021
R	RP3	7+	2016	500	16.88	120	20.26	0.02
R	RP3	7+	2016	480	17.22	120	20.66	-0.099
R	RP3	7+	2016	460	15.57	120	18.68	0.1405
R	RP3	7+	2016	440	17.91	120	21.49	0.021
R	RP3	7+	2016	420	18.26	120	21.91	0.0205
R	RP3	7+	2016	400	18.6	120	22.32	0.021
R	RP3	7+	2016	380	18.95	120	22.74	0.021
R	RP3	7+	2016	360	19.3	120	23.16	0.0455
R	RP3	7+	2016	340	20.06	120	24.07	0.0465
R	RP3	7+	2016	320	20.83	120	25	0.028
R	RP3	7+	2016	300	21.3	120	25.56	0.032
R	RP3	7+	2016	280	21.83	120	26.2	0.0315

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	7+	2016	260	22.36	120	26.83	0.032
R	RP3	7+	2016	240	22.89	120	27.47	0.0315
R	RP3	7+	2016	220	23.42	120	28.1	0.032
R	RP3	7+	2016	200	23.95	120	28.74	0.045
R	RP3	7+	2016	180	24.7	120	29.64	0.045
R	RP3	7+	2016	160	25.45	120	30.54	0.057
R	RP3	7+	2016	140	26.4	120	31.68	0.072
R	RP3	7+	2016	120	27.6	120	33.12	0.174
R	RP3	7+	2016	100	30.5	120	36.6	0
R	RP3	8-	2016	99999999	9.39	120	11.27	0
R	RP3	8-	2016	5000	9.39	120	11.27	0.00005
R	RP3	8-	2016	4000	9.43	120	11.32	0.00004
R	RP3	8-	2016	3000	9.47	120	11.36	0.00005
R	RP3	8-	2016	2000	9.51	120	11.41	0.0009
R	RP3	8-	2016	1900	9.58	120	11.5	0.0007
R	RP3	8-	2016	1800	9.64	120	11.57	0.0008
R	RP3	8-	2016	1700	9.71	120	11.65	0.0007
R	RP3	8-	2016	1600	9.77	120	11.72	0.0009
R	RP3	8-	2016	1500	9.84	120	11.81	0.0007
R	RP3	8-	2016	1400	9.9	120	11.88	0.004
R	RP3	8-	2016	1380	9.97	120	11.96	0.005
R	RP3	8-	2016	1360	10.05	120	12.06	0.005
R	RP3	8-	2016	1340	10.13	120	12.16	0.0045
R	RP3	8-	2016	1320	10.21	120	12.25	0.005
R	RP3	8-	2016	1300	10.29	120	12.35	0.0045
R	RP3	8-	2016	1280	10.37	120	12.44	0.005
R	RP3	8-	2016	1260	10.45	120	12.54	0.005
R	RP3	8-	2016	1240	10.53	120	12.64	0.0045
R	RP3	8-	2016	1220	10.61	120	12.73	0.005
R	RP3	8-	2016	1200	10.69	120	12.83	0.0045
R	RP3	8-	2016	1180	10.77	120	12.92	0.006
R	RP3	8-	2016	1160	10.87	120	13.04	0.006
R	RP3	8-	2016	1140	10.97	120	13.16	0.006
R	RP3	8-	2016	1120	11.07	120	13.28	0.006
R	RP3	8-	2016	1100	11.17	120	13.4	0.007
R	RP3	8-	2016	1080	11.28	120	13.54	0.006
R	RP3	8-	2016	1060	11.38	120	13.66	0.006
R	RP3	8-	2016	1040	11.48	120	13.78	0.006
R	RP3	8-	2016	1020	11.58	120	13.9	0.0065
R	RP3	8-	2016	1000	11.69	120	14.03	0.007
R	RP3	8-	2016	980	11.81	120	14.17	0.0075
R	RP3	8-	2016	960	11.93	120	14.32	0.007
R	RP3	8-	2016	940	12.05	120	14.46	0.008
R	RP3	8-	2016	920	12.18	120	14.62	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	8-	2016	900	12.3	120	14.76	0.007
R	RP3	8-	2016	880	12.42	120	14.9	0.008
R	RP3	8-	2016	860	12.55	120	15.06	0.007
R	RP3	8-	2016	840	12.67	120	15.2	0.0075
R	RP3	8-	2016	820	12.79	120	15.35	0.0075
R	RP3	8-	2016	800	12.92	120	15.5	0.0105
R	RP3	8-	2016	780	13.09	120	15.71	0.01
R	RP3	8-	2016	760	13.26	120	15.91	0.0105
R	RP3	8-	2016	740	13.43	120	16.12	0.0105
R	RP3	8-	2016	720	13.61	120	16.33	0.0105
R	RP3	8-	2016	700	13.78	120	16.54	0.01
R	RP3	8-	2016	680	13.95	120	16.74	0.01
R	RP3	8-	2016	660	14.12	120	16.94	0.0205
R	RP3	8-	2016	640	14.46	120	17.35	0.021
R	RP3	8-	2016	620	14.81	120	17.77	0.0205
R	RP3	8-	2016	600	15.15	120	18.18	0.021
R	RP3	8-	2016	580	15.5	120	18.6	0.0205
R	RP3	8-	2016	560	15.84	120	19.01	0.021
R	RP3	8-	2016	540	16.19	120	19.43	0.0205
R	RP3	8-	2016	520	16.53	120	19.84	0.021
R	RP3	8-	2016	500	16.88	120	20.26	0.02
R	RP3	8-	2016	480	17.22	120	20.66	-0.099
R	RP3	8-	2016	460	15.57	120	18.68	0.1405
R	RP3	8-	2016	440	17.91	120	21.49	0.021
R	RP3	8-	2016	420	18.26	120	21.91	0.0205
R	RP3	8-	2016	400	18.6	120	22.32	0.021
R	RP3	8-	2016	380	18.95	120	22.74	0.021
R	RP3	8-	2016	360	19.3	120	23.16	0.0455
R	RP3	8-	2016	340	20.06	120	24.07	0.0465
R	RP3	8-	2016	320	20.83	120	25	0.028
R	RP3	8-	2016	300	21.3	120	25.56	0.032
R	RP3	8-	2016	280	21.83	120	26.2	0.0315
R	RP3	8-	2016	260	22.36	120	26.83	0.032
R	RP3	8-	2016	240	22.89	120	27.47	0.0315
R	RP3	8-	2016	220	23.42	120	28.1	0.032
R	RP3	8-	2016	200	23.95	120	28.74	0.045
R	RP3	8-	2016	180	24.7	120	29.64	0.045
R	RP3	8-	2016	160	25.45	120	30.54	0.057
R	RP3	8-	2016	140	26.4	120	31.68	0.072
R	RP3	8-	2016	120	27.6	120	33.12	0.174
R	RP3	8-	2016	100	30.5	120	36.6	0
R	RP3	8+	2016	9999999	9.39	120	11.27	0
R	RP3	8+	2016	5000	9.39	120	11.27	0.00005
R	RP3	8+	2016	4000	9.43	120	11.32	0.00004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	8+	2016	3000	9.47	120	11.36	0.00005
R	RP3	8+	2016	2000	9.51	120	11.41	0.0009
R	RP3	8+	2016	1900	9.58	120	11.5	0.0007
R	RP3	8+	2016	1800	9.64	120	11.57	0.0008
R	RP3	8+	2016	1700	9.71	120	11.65	0.0007
R	RP3	8+	2016	1600	9.77	120	11.72	0.0009
R	RP3	8+	2016	1500	9.84	120	11.81	0.0007
R	RP3	8+	2016	1400	9.9	120	11.88	0.004
R	RP3	8+	2016	1380	9.97	120	11.96	0.005
R	RP3	8+	2016	1360	10.05	120	12.06	0.005
R	RP3	8+	2016	1340	10.13	120	12.16	0.0045
R	RP3	8+	2016	1320	10.21	120	12.25	0.005
R	RP3	8+	2016	1300	10.29	120	12.35	0.0045
R	RP3	8+	2016	1280	10.37	120	12.44	0.005
R	RP3	8+	2016	1260	10.45	120	12.54	0.005
R	RP3	8+	2016	1240	10.53	120	12.64	0.0045
R	RP3	8+	2016	1220	10.61	120	12.73	0.005
R	RP3	8+	2016	1200	10.69	120	12.83	0.0045
R	RP3	8+	2016	1180	10.77	120	12.92	0.006
R	RP3	8+	2016	1160	10.87	120	13.04	0.006
R	RP3	8+	2016	1140	10.97	120	13.16	0.006
R	RP3	8+	2016	1120	11.07	120	13.28	0.006
R	RP3	8+	2016	1100	11.17	120	13.4	0.007
R	RP3	8+	2016	1080	11.28	120	13.54	0.006
R	RP3	8+	2016	1060	11.38	120	13.66	0.006
R	RP3	8+	2016	1040	11.48	120	13.78	0.006
R	RP3	8+	2016	1020	11.58	120	13.9	0.0065
R	RP3	8+	2016	1000	11.69	120	14.03	0.007
R	RP3	8+	2016	980	11.81	120	14.17	0.0075
R	RP3	8+	2016	960	11.93	120	14.32	0.007
R	RP3	8+	2016	940	12.05	120	14.46	0.008
R	RP3	8+	2016	920	12.18	120	14.62	0.007
R	RP3	8+	2016	900	12.3	120	14.76	0.007
R	RP3	8+	2016	880	12.42	120	14.9	0.008
R	RP3	8+	2016	860	12.55	120	15.06	0.007
R	RP3	8+	2016	840	12.67	120	15.2	0.0075
R	RP3	8+	2016	820	12.79	120	15.35	0.0075
R	RP3	8+	2016	800	12.92	120	15.5	0.0105
R	RP3	8+	2016	780	13.09	120	15.71	0.01
R	RP3	8+	2016	760	13.26	120	15.91	0.0105
R	RP3	8+	2016	740	13.43	120	16.12	0.0105
R	RP3	8+	2016	720	13.61	120	16.33	0.0105
R	RP3	8+	2016	700	13.78	120	16.54	0.01
R	RP3	8+	2016	680	13.95	120	16.74	0.01

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP3	8+	2016	660	14.12	120	16.94	0.0205
R	RP3	8+	2016	640	14.46	120	17.35	0.021
R	RP3	8+	2016	620	14.81	120	17.77	0.0205
R	RP3	8+	2016	600	15.15	120	18.18	0.021
R	RP3	8+	2016	580	15.5	120	18.6	0.0205
R	RP3	8+	2016	560	15.84	120	19.01	0.021
R	RP3	8+	2016	540	16.19	120	19.43	0.0205
R	RP3	8+	2016	520	16.53	120	19.84	0.021
R	RP3	8+	2016	500	16.88	120	20.26	0.02
R	RP3	8+	2016	480	17.22	120	20.66	-0.099
R	RP3	8+	2016	460	15.57	120	18.68	0.1405
R	RP3	8+	2016	440	17.91	120	21.49	0.021
R	RP3	8+	2016	420	18.26	120	21.91	0.0205
R	RP3	8+	2016	400	18.6	120	22.32	0.021
R	RP3	8+	2016	380	18.95	120	22.74	0.021
R	RP3	8+	2016	360	19.3	120	23.16	0.0455
R	RP3	8+	2016	340	20.06	120	24.07	0.0465
R	RP3	8+	2016	320	20.83	120	25	0.028
R	RP3	8+	2016	300	21.3	120	25.56	0.032
R	RP3	8+	2016	280	21.83	120	26.2	0.0315
R	RP3	8+	2016	260	22.36	120	26.83	0.032
R	RP3	8+	2016	240	22.89	120	27.47	0.0315
R	RP3	8+	2016	220	23.42	120	28.1	0.032
R	RP3	8+	2016	200	23.95	120	28.74	0.045
R	RP3	8+	2016	180	24.7	120	29.64	0.045
R	RP3	8+	2016	160	25.45	120	30.54	0.057
R	RP3	8+	2016	140	26.4	120	31.68	0.072
R	RP3	8+	2016	120	27.6	120	33.12	0.174
R	RP3	8+	2016	100	30.5	120	36.6	0
R	RP4	1	2016	99999999	10.8	80	8.64	0
R	RP4	1	2016	1400	10.8	80	8.64	0.0025
R	RP4	1	2016	1380	10.86	80	8.69	0.0025
R	RP4	1	2016	1360	10.92	80	8.74	0.002
R	RP4	1	2016	1340	10.98	80	8.78	0.0025
R	RP4	1	2016	1320	11.04	80	8.83	0.0025
R	RP4	1	2016	1300	11.1	80	8.88	0.0025
R	RP4	1	2016	1280	11.16	80	8.93	0.003
R	RP4	1	2016	1260	11.24	80	8.99	0.0035
R	RP4	1	2016	1240	11.32	80	9.06	0.003
R	RP4	1	2016	1220	11.4	80	9.12	0.003
R	RP4	1	2016	1200	11.48	80	9.18	0.0035
R	RP4	1	2016	1180	11.56	80	9.25	0.003
R	RP4	1	2016	1160	11.64	80	9.31	0.0035
R	RP4	1	2016	1140	11.72	80	9.38	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	1	2016	1120	11.8	80	9.44	0.0045
R	RP4	1	2016	1100	11.91	80	9.53	0.0045
R	RP4	1	2016	1080	12.02	80	9.62	0.004
R	RP4	1	2016	1060	12.13	80	9.7	0.0045
R	RP4	1	2016	1040	12.24	80	9.79	0.0045
R	RP4	1	2016	1020	12.35	80	9.88	0.0045
R	RP4	1	2016	1000	12.46	80	9.97	0.0045
R	RP4	1	2016	980	12.57	80	10.06	0.006
R	RP4	1	2016	960	12.73	80	10.18	0.0065
R	RP4	1	2016	940	12.89	80	10.31	0.0065
R	RP4	1	2016	920	13.05	80	10.44	0.0065
R	RP4	1	2016	900	13.21	80	10.57	0.0065
R	RP4	1	2016	880	13.37	80	10.7	0.006
R	RP4	1	2016	860	13.53	80	10.82	0.0065
R	RP4	1	2016	840	13.69	80	10.95	0.0065
R	RP4	1	2016	820	13.85	80	11.08	0.0065
R	RP4	1	2016	800	14.01	80	11.21	0.0085
R	RP4	1	2016	780	14.22	80	11.38	0.008
R	RP4	1	2016	760	14.43	80	11.54	0.0085
R	RP4	1	2016	740	14.64	80	11.71	0.0085
R	RP4	1	2016	720	14.85	80	11.88	0.0085
R	RP4	1	2016	700	15.06	80	12.05	0.0085
R	RP4	1	2016	680	15.27	80	12.22	0.008
R	RP4	1	2016	660	15.48	80	12.38	0.011
R	RP4	1	2016	640	15.75	80	12.6	0.011
R	RP4	1	2016	620	16.03	80	12.82	0.0115
R	RP4	1	2016	600	16.31	80	13.05	0.011
R	RP4	1	2016	580	16.59	80	13.27	0.0115
R	RP4	1	2016	560	16.87	80	13.5	0.0105
R	RP4	1	2016	540	17.14	80	13.71	0.0115
R	RP4	1	2016	520	17.43	80	13.94	0.004
R	RP4	1	2016	500	17.53	80	14.02	0.017
R	RP4	1	2016	480	17.95	80	14.36	0.0205
R	RP4	1	2016	460	18.46	80	14.77	0.0205
R	RP4	1	2016	440	18.98	80	15.18	0.021
R	RP4	1	2016	420	19.5	80	15.6	0.021
R	RP4	1	2016	400	20.02	80	16.02	0.0205
R	RP4	1	2016	380	20.54	80	16.43	0.021
R	RP4	1	2016	360	21.06	80	16.85	0.0205
R	RP4	1	2016	340	21.58	80	17.26	0.021
R	RP4	1	2016	320	22.1	80	17.68	-0.082
R	RP4	1	2016	300	20.05	80	16.04	0.031
R	RP4	1	2016	280	20.82	80	16.66	0.0345
R	RP4	1	2016	260	21.69	80	17.35	0.0405

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	1	2016	240	22.7	80	18.16	0.0455
R	RP4	1	2016	220	23.84	80	19.07	0.054
R	RP4	1	2016	200	25.19	80	20.15	0.0645
R	RP4	1	2016	180	26.8	80	21.44	0.0775
R	RP4	1	2016	160	28.74	80	22.99	0.0965
R	RP4	1	2016	140	31.15	80	24.92	0.125
R	RP4	1	2016	120	34.27	80	27.42	0.167
R	RP4	1	2016	100	38.45	80	30.76	0
R	RP4	2	2016	99999999	10.8	80	8.64	0
R	RP4	2	2016	1400	10.8	80	8.64	0.0025
R	RP4	2	2016	1380	10.86	80	8.69	0.0025
R	RP4	2	2016	1360	10.92	80	8.74	0.002
R	RP4	2	2016	1340	10.98	80	8.78	0.0025
R	RP4	2	2016	1320	11.04	80	8.83	0.0025
R	RP4	2	2016	1300	11.1	80	8.88	0.0025
R	RP4	2	2016	1280	11.16	80	8.93	0.003
R	RP4	2	2016	1260	11.24	80	8.99	0.0035
R	RP4	2	2016	1240	11.32	80	9.06	0.003
R	RP4	2	2016	1220	11.4	80	9.12	0.003
R	RP4	2	2016	1200	11.48	80	9.18	0.0035
R	RP4	2	2016	1180	11.56	80	9.25	0.003
R	RP4	2	2016	1160	11.64	80	9.31	0.0035
R	RP4	2	2016	1140	11.72	80	9.38	0.003
R	RP4	2	2016	1120	11.8	80	9.44	0.0045
R	RP4	2	2016	1100	11.91	80	9.53	0.0045
R	RP4	2	2016	1080	12.02	80	9.62	0.004
R	RP4	2	2016	1060	12.13	80	9.7	0.0045
R	RP4	2	2016	1040	12.24	80	9.79	0.0045
R	RP4	2	2016	1020	12.35	80	9.88	0.0045
R	RP4	2	2016	1000	12.46	80	9.97	0.0045
R	RP4	2	2016	980	12.57	80	10.06	0.006
R	RP4	2	2016	960	12.73	80	10.18	0.0065
R	RP4	2	2016	940	12.89	80	10.31	0.0065
R	RP4	2	2016	920	13.05	80	10.44	0.0065
R	RP4	2	2016	900	13.21	80	10.57	0.0065
R	RP4	2	2016	880	13.37	80	10.7	0.006
R	RP4	2	2016	860	13.53	80	10.82	0.0065
R	RP4	2	2016	840	13.69	80	10.95	0.0065
R	RP4	2	2016	820	13.85	80	11.08	0.0065
R	RP4	2	2016	800	14.01	80	11.21	0.0085
R	RP4	2	2016	780	14.22	80	11.38	0.008
R	RP4	2	2016	760	14.43	80	11.54	0.0085
R	RP4	2	2016	740	14.64	80	11.71	0.0085
R	RP4	2	2016	720	14.85	80	11.88	0.0085

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	2	2016	700	15.06	80	12.05	0.0085
R	RP4	2	2016	680	15.27	80	12.22	0.008
R	RP4	2	2016	660	15.48	80	12.38	0.011
R	RP4	2	2016	640	15.75	80	12.6	0.011
R	RP4	2	2016	620	16.03	80	12.82	0.0115
R	RP4	2	2016	600	16.31	80	13.05	0.011
R	RP4	2	2016	580	16.59	80	13.27	0.0115
R	RP4	2	2016	560	16.87	80	13.5	0.0105
R	RP4	2	2016	540	17.14	80	13.71	0.0115
R	RP4	2	2016	520	17.43	80	13.94	0.004
R	RP4	2	2016	500	17.53	80	14.02	0.017
R	RP4	2	2016	480	17.95	80	14.36	0.0205
R	RP4	2	2016	460	18.46	80	14.77	0.0205
R	RP4	2	2016	440	18.98	80	15.18	0.021
R	RP4	2	2016	420	19.5	80	15.6	0.021
R	RP4	2	2016	400	20.02	80	16.02	0.0205
R	RP4	2	2016	380	20.54	80	16.43	0.021
R	RP4	2	2016	360	21.06	80	16.85	0.0205
R	RP4	2	2016	340	21.58	80	17.26	0.021
R	RP4	2	2016	320	22.1	80	17.68	-0.082
R	RP4	2	2016	300	20.05	80	16.04	0.031
R	RP4	2	2016	280	20.82	80	16.66	0.0345
R	RP4	2	2016	260	21.69	80	17.35	0.0405
R	RP4	2	2016	240	22.7	80	18.16	0.0455
R	RP4	2	2016	220	23.84	80	19.07	0.054
R	RP4	2	2016	200	25.19	80	20.15	0.0645
R	RP4	2	2016	180	26.8	80	21.44	0.0775
R	RP4	2	2016	160	28.74	80	22.99	0.0965
R	RP4	2	2016	140	31.15	80	24.92	0.125
R	RP4	2	2016	120	34.27	80	27.42	0.167
R	RP4	2	2016	100	38.45	80	30.76	0
R	RP4	3	2016	99999999	10.8	80	8.64	0
R	RP4	3	2016	1400	10.8	80	8.64	0.0025
R	RP4	3	2016	1380	10.86	80	8.69	0.0025
R	RP4	3	2016	1360	10.92	80	8.74	0.002
R	RP4	3	2016	1340	10.98	80	8.78	0.0025
R	RP4	3	2016	1320	11.04	80	8.83	0.0025
R	RP4	3	2016	1300	11.1	80	8.88	0.0025
R	RP4	3	2016	1280	11.16	80	8.93	0.003
R	RP4	3	2016	1260	11.24	80	8.99	0.0035
R	RP4	3	2016	1240	11.32	80	9.06	0.003
R	RP4	3	2016	1220	11.4	80	9.12	0.003
R	RP4	3	2016	1200	11.48	80	9.18	0.0035
R	RP4	3	2016	1180	11.56	80	9.25	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	3	2016	1160	11.64	80	9.31	0.0035
R	RP4	3	2016	1140	11.72	80	9.38	0.003
R	RP4	3	2016	1120	11.8	80	9.44	0.0045
R	RP4	3	2016	1100	11.91	80	9.53	0.0045
R	RP4	3	2016	1080	12.02	80	9.62	0.004
R	RP4	3	2016	1060	12.13	80	9.7	0.0045
R	RP4	3	2016	1040	12.24	80	9.79	0.0045
R	RP4	3	2016	1020	12.35	80	9.88	0.0045
R	RP4	3	2016	1000	12.46	80	9.97	0.0045
R	RP4	3	2016	980	12.57	80	10.06	0.006
R	RP4	3	2016	960	12.73	80	10.18	0.0065
R	RP4	3	2016	940	12.89	80	10.31	0.0065
R	RP4	3	2016	920	13.05	80	10.44	0.0065
R	RP4	3	2016	900	13.21	80	10.57	0.0065
R	RP4	3	2016	880	13.37	80	10.7	0.006
R	RP4	3	2016	860	13.53	80	10.82	0.0065
R	RP4	3	2016	840	13.69	80	10.95	0.0065
R	RP4	3	2016	820	13.85	80	11.08	0.0065
R	RP4	3	2016	800	14.01	80	11.21	0.0085
R	RP4	3	2016	780	14.22	80	11.38	0.008
R	RP4	3	2016	760	14.43	80	11.54	0.0085
R	RP4	3	2016	740	14.64	80	11.71	0.0085
R	RP4	3	2016	720	14.85	80	11.88	0.0085
R	RP4	3	2016	700	15.06	80	12.05	0.0085
R	RP4	3	2016	680	15.27	80	12.22	0.008
R	RP4	3	2016	660	15.48	80	12.38	0.011
R	RP4	3	2016	640	15.75	80	12.6	0.011
R	RP4	3	2016	620	16.03	80	12.82	0.0115
R	RP4	3	2016	600	16.31	80	13.05	0.011
R	RP4	3	2016	580	16.59	80	13.27	0.0115
R	RP4	3	2016	560	16.87	80	13.5	0.0105
R	RP4	3	2016	540	17.14	80	13.71	0.0115
R	RP4	3	2016	520	17.43	80	13.94	0.004
R	RP4	3	2016	500	17.53	80	14.02	0.017
R	RP4	3	2016	480	17.95	80	14.36	0.0205
R	RP4	3	2016	460	18.46	80	14.77	0.0205
R	RP4	3	2016	440	18.98	80	15.18	0.021
R	RP4	3	2016	420	19.5	80	15.6	0.021
R	RP4	3	2016	400	20.02	80	16.02	0.0205
R	RP4	3	2016	380	20.54	80	16.43	0.021
R	RP4	3	2016	360	21.06	80	16.85	0.0205
R	RP4	3	2016	340	21.58	80	17.26	0.021
R	RP4	3	2016	320	22.1	80	17.68	-0.082
R	RP4	3	2016	300	20.05	80	16.04	0.031

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	3	2016	280	20.82	80	16.66	0.0345
R	RP4	3	2016	260	21.69	80	17.35	0.0405
R	RP4	3	2016	240	22.7	80	18.16	0.0455
R	RP4	3	2016	220	23.84	80	19.07	0.054
R	RP4	3	2016	200	25.19	80	20.15	0.0645
R	RP4	3	2016	180	26.8	80	21.44	0.0775
R	RP4	3	2016	160	28.74	80	22.99	0.0965
R	RP4	3	2016	140	31.15	80	24.92	0.125
R	RP4	3	2016	120	34.27	80	27.42	0.167
R	RP4	3	2016	100	38.45	80	30.76	0
R	RP4	4	2016	9999999	10.8	100	10.8	0
R	RP4	4	2016	1400	10.8	100	10.8	0.003
R	RP4	4	2016	1380	10.86	100	10.86	0.003
R	RP4	4	2016	1360	10.92	100	10.92	0.003
R	RP4	4	2016	1340	10.98	100	10.98	0.003
R	RP4	4	2016	1320	11.04	100	11.04	0.003
R	RP4	4	2016	1300	11.1	100	11.1	0.003
R	RP4	4	2016	1280	11.16	100	11.16	0.004
R	RP4	4	2016	1260	11.24	100	11.24	0.004
R	RP4	4	2016	1240	11.32	100	11.32	0.004
R	RP4	4	2016	1220	11.4	100	11.4	0.004
R	RP4	4	2016	1200	11.48	100	11.48	0.004
R	RP4	4	2016	1180	11.56	100	11.56	0.004
R	RP4	4	2016	1160	11.64	100	11.64	0.004
R	RP4	4	2016	1140	11.72	100	11.72	0.004
R	RP4	4	2016	1120	11.8	100	11.8	0.0055
R	RP4	4	2016	1100	11.91	100	11.91	0.0055
R	RP4	4	2016	1080	12.02	100	12.02	0.0055
R	RP4	4	2016	1060	12.13	100	12.13	0.0055
R	RP4	4	2016	1040	12.24	100	12.24	0.0055
R	RP4	4	2016	1020	12.35	100	12.35	0.0055
R	RP4	4	2016	1000	12.46	100	12.46	0.0055
R	RP4	4	2016	980	12.57	100	12.57	0.008
R	RP4	4	2016	960	12.73	100	12.73	0.008
R	RP4	4	2016	940	12.89	100	12.89	0.008
R	RP4	4	2016	920	13.05	100	13.05	0.008
R	RP4	4	2016	900	13.21	100	13.21	0.008
R	RP4	4	2016	880	13.37	100	13.37	0.008
R	RP4	4	2016	860	13.53	100	13.53	0.008
R	RP4	4	2016	840	13.69	100	13.69	0.008
R	RP4	4	2016	820	13.85	100	13.85	0.008
R	RP4	4	2016	800	14.01	100	14.01	0.0105
R	RP4	4	2016	780	14.22	100	14.22	0.0105
R	RP4	4	2016	760	14.43	100	14.43	0.0105

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	4	2016	740	14.64	100	14.64	0.0105
R	RP4	4	2016	720	14.85	100	14.85	0.0105
R	RP4	4	2016	700	15.06	100	15.06	0.0105
R	RP4	4	2016	680	15.27	100	15.27	0.0105
R	RP4	4	2016	660	15.48	100	15.48	0.0135
R	RP4	4	2016	640	15.75	100	15.75	0.014
R	RP4	4	2016	620	16.03	100	16.03	0.014
R	RP4	4	2016	600	16.31	100	16.31	0.014
R	RP4	4	2016	580	16.59	100	16.59	0.014
R	RP4	4	2016	560	16.87	100	16.87	0.0135
R	RP4	4	2016	540	17.14	100	17.14	0.0145
R	RP4	4	2016	520	17.43	100	17.43	0.005
R	RP4	4	2016	500	17.53	100	17.53	0.021
R	RP4	4	2016	480	17.95	100	17.95	0.0255
R	RP4	4	2016	460	18.46	100	18.46	0.026
R	RP4	4	2016	440	18.98	100	18.98	0.026
R	RP4	4	2016	420	19.5	100	19.5	0.026
R	RP4	4	2016	400	20.02	100	20.02	0.026
R	RP4	4	2016	380	20.54	100	20.54	0.026
R	RP4	4	2016	360	21.06	100	21.06	0.026
R	RP4	4	2016	340	21.58	100	21.58	0.026
R	RP4	4	2016	320	22.1	100	22.1	-0.1025
R	RP4	4	2016	300	20.05	100	20.05	0.0385
R	RP4	4	2016	280	20.82	100	20.82	0.0435
R	RP4	4	2016	260	21.69	100	21.69	0.0505
R	RP4	4	2016	240	22.7	100	22.7	0.057
R	RP4	4	2016	220	23.84	100	23.84	0.0675
R	RP4	4	2016	200	25.19	100	25.19	0.0805
R	RP4	4	2016	180	26.8	100	26.8	0.097
R	RP4	4	2016	160	28.74	100	28.74	0.1205
R	RP4	4	2016	140	31.15	100	31.15	0.156
R	RP4	4	2016	120	34.27	100	34.27	0.209
R	RP4	4	2016	100	38.45	100	38.45	0
R	RP4	5	2016	99999999	10.8	120	12.96	0
R	RP4	5	2016	1400	10.8	120	12.96	0.0035
R	RP4	5	2016	1380	10.86	120	13.03	0.0035
R	RP4	5	2016	1360	10.92	120	13.1	0.004
R	RP4	5	2016	1340	10.98	120	13.18	0.0035
R	RP4	5	2016	1320	11.04	120	13.25	0.0035
R	RP4	5	2016	1300	11.1	120	13.32	0.0035
R	RP4	5	2016	1280	11.16	120	13.39	0.005
R	RP4	5	2016	1260	11.24	120	13.49	0.0045
R	RP4	5	2016	1240	11.32	120	13.58	0.005
R	RP4	5	2016	1220	11.4	120	13.68	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	5	2016	1200	11.48	120	13.78	0.0045
R	RP4	5	2016	1180	11.56	120	13.87	0.005
R	RP4	5	2016	1160	11.64	120	13.97	0.0045
R	RP4	5	2016	1140	11.72	120	14.06	0.005
R	RP4	5	2016	1120	11.8	120	14.16	0.0065
R	RP4	5	2016	1100	11.91	120	14.29	0.0065
R	RP4	5	2016	1080	12.02	120	14.42	0.007
R	RP4	5	2016	1060	12.13	120	14.56	0.0065
R	RP4	5	2016	1040	12.24	120	14.69	0.0065
R	RP4	5	2016	1020	12.35	120	14.82	0.0065
R	RP4	5	2016	1000	12.46	120	14.95	0.0065
R	RP4	5	2016	980	12.57	120	15.08	0.01
R	RP4	5	2016	960	12.73	120	15.28	0.0095
R	RP4	5	2016	940	12.89	120	15.47	0.0095
R	RP4	5	2016	920	13.05	120	15.66	0.0095
R	RP4	5	2016	900	13.21	120	15.85	0.0095
R	RP4	5	2016	880	13.37	120	16.04	0.01
R	RP4	5	2016	860	13.53	120	16.24	0.0095
R	RP4	5	2016	840	13.69	120	16.43	0.0095
R	RP4	5	2016	820	13.85	120	16.62	0.0095
R	RP4	5	2016	800	14.01	120	16.81	0.0125
R	RP4	5	2016	780	14.22	120	17.06	0.013
R	RP4	5	2016	760	14.43	120	17.32	0.0125
R	RP4	5	2016	740	14.64	120	17.57	0.0125
R	RP4	5	2016	720	14.85	120	17.82	0.0125
R	RP4	5	2016	700	15.06	120	18.07	0.0125
R	RP4	5	2016	680	15.27	120	18.32	0.013
R	RP4	5	2016	660	15.48	120	18.58	0.016
R	RP4	5	2016	640	15.75	120	18.9	0.017
R	RP4	5	2016	620	16.03	120	19.24	0.0165
R	RP4	5	2016	600	16.31	120	19.57	0.017
R	RP4	5	2016	580	16.59	120	19.91	0.0165
R	RP4	5	2016	560	16.87	120	20.24	0.0165
R	RP4	5	2016	540	17.14	120	20.57	0.0175
R	RP4	5	2016	520	17.43	120	20.92	0.006
R	RP4	5	2016	500	17.53	120	21.04	0.025
R	RP4	5	2016	480	17.95	120	21.54	0.0305
R	RP4	5	2016	460	18.46	120	22.15	0.0315
R	RP4	5	2016	440	18.98	120	22.78	0.031
R	RP4	5	2016	420	19.5	120	23.4	0.031
R	RP4	5	2016	400	20.02	120	24.02	0.0315
R	RP4	5	2016	380	20.54	120	24.65	0.031
R	RP4	5	2016	360	21.06	120	25.27	0.0315
R	RP4	5	2016	340	21.58	120	25.9	0.031

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	5	2016	320	22.1	120	26.52	-0.123
R	RP4	5	2016	300	20.05	120	24.06	0.046
R	RP4	5	2016	280	20.82	120	24.98	0.0525
R	RP4	5	2016	260	21.69	120	26.03	0.0605
R	RP4	5	2016	240	22.7	120	27.24	0.0685
R	RP4	5	2016	220	23.84	120	28.61	0.081
R	RP4	5	2016	200	25.19	120	30.23	0.0965
R	RP4	5	2016	180	26.8	120	32.16	0.1165
R	RP4	5	2016	160	28.74	120	34.49	0.1445
R	RP4	5	2016	140	31.15	120	37.38	0.187
R	RP4	5	2016	120	34.27	120	41.12	0.251
R	RP4	5	2016	100	38.45	120	46.14	0
R	RP4	6	2016	99999999	10.8	120	12.96	0
R	RP4	6	2016	1400	10.8	120	12.96	0.0035
R	RP4	6	2016	1380	10.86	120	13.03	0.0035
R	RP4	6	2016	1360	10.92	120	13.1	0.004
R	RP4	6	2016	1340	10.98	120	13.18	0.0035
R	RP4	6	2016	1320	11.04	120	13.25	0.0035
R	RP4	6	2016	1300	11.1	120	13.32	0.0035
R	RP4	6	2016	1280	11.16	120	13.39	0.005
R	RP4	6	2016	1260	11.24	120	13.49	0.0045
R	RP4	6	2016	1240	11.32	120	13.58	0.005
R	RP4	6	2016	1220	11.4	120	13.68	0.005
R	RP4	6	2016	1200	11.48	120	13.78	0.0045
R	RP4	6	2016	1180	11.56	120	13.87	0.005
R	RP4	6	2016	1160	11.64	120	13.97	0.0045
R	RP4	6	2016	1140	11.72	120	14.06	0.005
R	RP4	6	2016	1120	11.8	120	14.16	0.0065
R	RP4	6	2016	1100	11.91	120	14.29	0.0065
R	RP4	6	2016	1080	12.02	120	14.42	0.007
R	RP4	6	2016	1060	12.13	120	14.56	0.0065
R	RP4	6	2016	1040	12.24	120	14.69	0.0065
R	RP4	6	2016	1020	12.35	120	14.82	0.0065
R	RP4	6	2016	1000	12.46	120	14.95	0.0065
R	RP4	6	2016	980	12.57	120	15.08	0.01
R	RP4	6	2016	960	12.73	120	15.28	0.0095
R	RP4	6	2016	940	12.89	120	15.47	0.0095
R	RP4	6	2016	920	13.05	120	15.66	0.0095
R	RP4	6	2016	900	13.21	120	15.85	0.0095
R	RP4	6	2016	880	13.37	120	16.04	0.01
R	RP4	6	2016	860	13.53	120	16.24	0.0095
R	RP4	6	2016	840	13.69	120	16.43	0.0095
R	RP4	6	2016	820	13.85	120	16.62	0.0095
R	RP4	6	2016	800	14.01	120	16.81	0.0125

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	6	2016	780	14.22	120	17.06	0.013
R	RP4	6	2016	760	14.43	120	17.32	0.0125
R	RP4	6	2016	740	14.64	120	17.57	0.0125
R	RP4	6	2016	720	14.85	120	17.82	0.0125
R	RP4	6	2016	700	15.06	120	18.07	0.0125
R	RP4	6	2016	680	15.27	120	18.32	0.013
R	RP4	6	2016	660	15.48	120	18.58	0.016
R	RP4	6	2016	640	15.75	120	18.9	0.017
R	RP4	6	2016	620	16.03	120	19.24	0.0165
R	RP4	6	2016	600	16.31	120	19.57	0.017
R	RP4	6	2016	580	16.59	120	19.91	0.0165
R	RP4	6	2016	560	16.87	120	20.24	0.0165
R	RP4	6	2016	540	17.14	120	20.57	0.0175
R	RP4	6	2016	520	17.43	120	20.92	0.006
R	RP4	6	2016	500	17.53	120	21.04	0.025
R	RP4	6	2016	480	17.95	120	21.54	0.0305
R	RP4	6	2016	460	18.46	120	22.15	0.0315
R	RP4	6	2016	440	18.98	120	22.78	0.031
R	RP4	6	2016	420	19.5	120	23.4	0.031
R	RP4	6	2016	400	20.02	120	24.02	0.0315
R	RP4	6	2016	380	20.54	120	24.65	0.031
R	RP4	6	2016	360	21.06	120	25.27	0.0315
R	RP4	6	2016	340	21.58	120	25.9	0.031
R	RP4	6	2016	320	22.1	120	26.52	-0.123
R	RP4	6	2016	300	20.05	120	24.06	0.046
R	RP4	6	2016	280	20.82	120	24.98	0.0525
R	RP4	6	2016	260	21.69	120	26.03	0.0605
R	RP4	6	2016	240	22.7	120	27.24	0.0685
R	RP4	6	2016	220	23.84	120	28.61	0.081
R	RP4	6	2016	200	25.19	120	30.23	0.0965
R	RP4	6	2016	180	26.8	120	32.16	0.1165
R	RP4	6	2016	160	28.74	120	34.49	0.1445
R	RP4	6	2016	140	31.15	120	37.38	0.187
R	RP4	6	2016	120	34.27	120	41.12	0.251
R	RP4	6	2016	100	38.45	120	46.14	0
R	RP4	7	2016	99999999	10.8	120	12.96	0
R	RP4	7	2016	1400	10.8	120	12.96	0.0035
R	RP4	7	2016	1380	10.86	120	13.03	0.0035
R	RP4	7	2016	1360	10.92	120	13.1	0.004
R	RP4	7	2016	1340	10.98	120	13.18	0.0035
R	RP4	7	2016	1320	11.04	120	13.25	0.0035
R	RP4	7	2016	1300	11.1	120	13.32	0.0035
R	RP4	7	2016	1280	11.16	120	13.39	0.005
R	RP4	7	2016	1260	11.24	120	13.49	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	7	2016	1240	11.32	120	13.58	0.005
R	RP4	7	2016	1220	11.4	120	13.68	0.005
R	RP4	7	2016	1200	11.48	120	13.78	0.0045
R	RP4	7	2016	1180	11.56	120	13.87	0.005
R	RP4	7	2016	1160	11.64	120	13.97	0.0045
R	RP4	7	2016	1140	11.72	120	14.06	0.005
R	RP4	7	2016	1120	11.8	120	14.16	0.0065
R	RP4	7	2016	1100	11.91	120	14.29	0.0065
R	RP4	7	2016	1080	12.02	120	14.42	0.007
R	RP4	7	2016	1060	12.13	120	14.56	0.0065
R	RP4	7	2016	1040	12.24	120	14.69	0.0065
R	RP4	7	2016	1020	12.35	120	14.82	0.0065
R	RP4	7	2016	1000	12.46	120	14.95	0.0065
R	RP4	7	2016	980	12.57	120	15.08	0.01
R	RP4	7	2016	960	12.73	120	15.28	0.0095
R	RP4	7	2016	940	12.89	120	15.47	0.0095
R	RP4	7	2016	920	13.05	120	15.66	0.0095
R	RP4	7	2016	900	13.21	120	15.85	0.0095
R	RP4	7	2016	880	13.37	120	16.04	0.01
R	RP4	7	2016	860	13.53	120	16.24	0.0095
R	RP4	7	2016	840	13.69	120	16.43	0.0095
R	RP4	7	2016	820	13.85	120	16.62	0.0095
R	RP4	7	2016	800	14.01	120	16.81	0.0125
R	RP4	7	2016	780	14.22	120	17.06	0.013
R	RP4	7	2016	760	14.43	120	17.32	0.0125
R	RP4	7	2016	740	14.64	120	17.57	0.0125
R	RP4	7	2016	720	14.85	120	17.82	0.0125
R	RP4	7	2016	700	15.06	120	18.07	0.0125
R	RP4	7	2016	680	15.27	120	18.32	0.013
R	RP4	7	2016	660	15.48	120	18.58	0.016
R	RP4	7	2016	640	15.75	120	18.9	0.017
R	RP4	7	2016	620	16.03	120	19.24	0.0165
R	RP4	7	2016	600	16.31	120	19.57	0.017
R	RP4	7	2016	580	16.59	120	19.91	0.0165
R	RP4	7	2016	560	16.87	120	20.24	0.0165
R	RP4	7	2016	540	17.14	120	20.57	0.0175
R	RP4	7	2016	520	17.43	120	20.92	0.006
R	RP4	7	2016	500	17.53	120	21.04	0.025
R	RP4	7	2016	480	17.95	120	21.54	0.0305
R	RP4	7	2016	460	18.46	120	22.15	0.0315
R	RP4	7	2016	440	18.98	120	22.78	0.031
R	RP4	7	2016	420	19.5	120	23.4	0.031
R	RP4	7	2016	400	20.02	120	24.02	0.0315
R	RP4	7	2016	380	20.54	120	24.65	0.031

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	7	2016	360	21.06	120	25.27	0.0315
R	RP4	7	2016	340	21.58	120	25.9	0.031
R	RP4	7	2016	320	22.1	120	26.52	-0.123
R	RP4	7	2016	300	20.05	120	24.06	0.046
R	RP4	7	2016	280	20.82	120	24.98	0.0525
R	RP4	7	2016	260	21.69	120	26.03	0.0605
R	RP4	7	2016	240	22.7	120	27.24	0.0685
R	RP4	7	2016	220	23.84	120	28.61	0.081
R	RP4	7	2016	200	25.19	120	30.23	0.0965
R	RP4	7	2016	180	26.8	120	32.16	0.1165
R	RP4	7	2016	160	28.74	120	34.49	0.1445
R	RP4	7	2016	140	31.15	120	37.38	0.187
R	RP4	7	2016	120	34.27	120	41.12	0.251
R	RP4	7	2016	100	38.45	120	46.14	0
R	RP4	8	2016	99999999	10.8	120	12.96	0
R	RP4	8	2016	1400	10.8	120	12.96	0.0035
R	RP4	8	2016	1380	10.86	120	13.03	0.0035
R	RP4	8	2016	1360	10.92	120	13.1	0.004
R	RP4	8	2016	1340	10.98	120	13.18	0.0035
R	RP4	8	2016	1320	11.04	120	13.25	0.0035
R	RP4	8	2016	1300	11.1	120	13.32	0.0035
R	RP4	8	2016	1280	11.16	120	13.39	0.005
R	RP4	8	2016	1260	11.24	120	13.49	0.0045
R	RP4	8	2016	1240	11.32	120	13.58	0.005
R	RP4	8	2016	1220	11.4	120	13.68	0.005
R	RP4	8	2016	1200	11.48	120	13.78	0.0045
R	RP4	8	2016	1180	11.56	120	13.87	0.005
R	RP4	8	2016	1160	11.64	120	13.97	0.0045
R	RP4	8	2016	1140	11.72	120	14.06	0.005
R	RP4	8	2016	1120	11.8	120	14.16	0.0065
R	RP4	8	2016	1100	11.91	120	14.29	0.0065
R	RP4	8	2016	1080	12.02	120	14.42	0.007
R	RP4	8	2016	1060	12.13	120	14.56	0.0065
R	RP4	8	2016	1040	12.24	120	14.69	0.0065
R	RP4	8	2016	1020	12.35	120	14.82	0.0065
R	RP4	8	2016	1000	12.46	120	14.95	0.0065
R	RP4	8	2016	980	12.57	120	15.08	0.01
R	RP4	8	2016	960	12.73	120	15.28	0.0095
R	RP4	8	2016	940	12.89	120	15.47	0.0095
R	RP4	8	2016	920	13.05	120	15.66	0.0095
R	RP4	8	2016	900	13.21	120	15.85	0.0095
R	RP4	8	2016	880	13.37	120	16.04	0.01
R	RP4	8	2016	860	13.53	120	16.24	0.0095
R	RP4	8	2016	840	13.69	120	16.43	0.0095

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	8	2016	820	13.85	120	16.62	0.0095
R	RP4	8	2016	800	14.01	120	16.81	0.0125
R	RP4	8	2016	780	14.22	120	17.06	0.013
R	RP4	8	2016	760	14.43	120	17.32	0.0125
R	RP4	8	2016	740	14.64	120	17.57	0.0125
R	RP4	8	2016	720	14.85	120	17.82	0.0125
R	RP4	8	2016	700	15.06	120	18.07	0.0125
R	RP4	8	2016	680	15.27	120	18.32	0.013
R	RP4	8	2016	660	15.48	120	18.58	0.016
R	RP4	8	2016	640	15.75	120	18.9	0.017
R	RP4	8	2016	620	16.03	120	19.24	0.0165
R	RP4	8	2016	600	16.31	120	19.57	0.017
R	RP4	8	2016	580	16.59	120	19.91	0.0165
R	RP4	8	2016	560	16.87	120	20.24	0.0165
R	RP4	8	2016	540	17.14	120	20.57	0.0175
R	RP4	8	2016	520	17.43	120	20.92	0.006
R	RP4	8	2016	500	17.53	120	21.04	0.025
R	RP4	8	2016	480	17.95	120	21.54	0.0305
R	RP4	8	2016	460	18.46	120	22.15	0.0315
R	RP4	8	2016	440	18.98	120	22.78	0.031
R	RP4	8	2016	420	19.5	120	23.4	0.031
R	RP4	8	2016	400	20.02	120	24.02	0.0315
R	RP4	8	2016	380	20.54	120	24.65	0.031
R	RP4	8	2016	360	21.06	120	25.27	0.0315
R	RP4	8	2016	340	21.58	120	25.9	0.031
R	RP4	8	2016	320	22.1	120	26.52	-0.123
R	RP4	8	2016	300	20.05	120	24.06	0.046
R	RP4	8	2016	280	20.82	120	24.98	0.0525
R	RP4	8	2016	260	21.69	120	26.03	0.0605
R	RP4	8	2016	240	22.7	120	27.24	0.0685
R	RP4	8	2016	220	23.84	120	28.61	0.081
R	RP4	8	2016	200	25.19	120	30.23	0.0965
R	RP4	8	2016	180	26.8	120	32.16	0.1165
R	RP4	8	2016	160	28.74	120	34.49	0.1445
R	RP4	8	2016	140	31.15	120	37.38	0.187
R	RP4	8	2016	120	34.27	120	41.12	0.251
R	RP4	8	2016	100	38.45	120	46.14	0
R	RP4	*	2016	99999999	10.8	100	10.8	0
R	RP4	*	2016	1400	10.8	100	10.8	0.003
R	RP4	*	2016	1380	10.86	100	10.86	0.003
R	RP4	*	2016	1360	10.92	100	10.92	0.003
R	RP4	*	2016	1340	10.98	100	10.98	0.003
R	RP4	*	2016	1320	11.04	100	11.04	0.003
R	RP4	*	2016	1300	11.1	100	11.1	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	*	2016	1280	11.16	100	11.16	0.004
R	RP4	*	2016	1260	11.24	100	11.24	0.004
R	RP4	*	2016	1240	11.32	100	11.32	0.004
R	RP4	*	2016	1220	11.4	100	11.4	0.004
R	RP4	*	2016	1200	11.48	100	11.48	0.004
R	RP4	*	2016	1180	11.56	100	11.56	0.004
R	RP4	*	2016	1160	11.64	100	11.64	0.004
R	RP4	*	2016	1140	11.72	100	11.72	0.004
R	RP4	*	2016	1120	11.8	100	11.8	0.0055
R	RP4	*	2016	1100	11.91	100	11.91	0.0055
R	RP4	*	2016	1080	12.02	100	12.02	0.0055
R	RP4	*	2016	1060	12.13	100	12.13	0.0055
R	RP4	*	2016	1040	12.24	100	12.24	0.0055
R	RP4	*	2016	1020	12.35	100	12.35	0.0055
R	RP4	*	2016	1000	12.46	100	12.46	0.0055
R	RP4	*	2016	980	12.57	100	12.57	0.008
R	RP4	*	2016	960	12.73	100	12.73	0.008
R	RP4	*	2016	940	12.89	100	12.89	0.008
R	RP4	*	2016	920	13.05	100	13.05	0.008
R	RP4	*	2016	900	13.21	100	13.21	0.008
R	RP4	*	2016	880	13.37	100	13.37	0.008
R	RP4	*	2016	860	13.53	100	13.53	0.008
R	RP4	*	2016	840	13.69	100	13.69	0.008
R	RP4	*	2016	820	13.85	100	13.85	0.008
R	RP4	*	2016	800	14.01	100	14.01	0.0105
R	RP4	*	2016	780	14.22	100	14.22	0.0105
R	RP4	*	2016	760	14.43	100	14.43	0.0105
R	RP4	*	2016	740	14.64	100	14.64	0.0105
R	RP4	*	2016	720	14.85	100	14.85	0.0105
R	RP4	*	2016	700	15.06	100	15.06	0.0105
R	RP4	*	2016	680	15.27	100	15.27	0.0105
R	RP4	*	2016	660	15.48	100	15.48	0.0135
R	RP4	*	2016	640	15.75	100	15.75	0.014
R	RP4	*	2016	620	16.03	100	16.03	0.014
R	RP4	*	2016	600	16.31	100	16.31	0.014
R	RP4	*	2016	580	16.59	100	16.59	0.014
R	RP4	*	2016	560	16.87	100	16.87	0.0135
R	RP4	*	2016	540	17.14	100	17.14	0.0145
R	RP4	*	2016	520	17.43	100	17.43	0.005
R	RP4	*	2016	500	17.53	100	17.53	0.021
R	RP4	*	2016	480	17.95	100	17.95	0.0255
R	RP4	*	2016	460	18.46	100	18.46	0.026
R	RP4	*	2016	440	18.98	100	18.98	0.026
R	RP4	*	2016	420	19.5	100	19.5	0.026

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	*	2016	400	20.02	100	20.02	0.026
R	RP4	*	2016	380	20.54	100	20.54	0.026
R	RP4	*	2016	360	21.06	100	21.06	0.026
R	RP4	*	2016	340	21.58	100	21.58	0.026
R	RP4	*	2016	320	22.1	100	22.1	-0.1025
R	RP4	*	2016	300	20.05	100	20.05	0.0385
R	RP4	*	2016	280	20.82	100	20.82	0.0435
R	RP4	*	2016	260	21.69	100	21.69	0.0505
R	RP4	*	2016	240	22.7	100	22.7	0.057
R	RP4	*	2016	220	23.84	100	23.84	0.0675
R	RP4	*	2016	200	25.19	100	25.19	0.0805
R	RP4	*	2016	180	26.8	100	26.8	0.097
R	RP4	*	2016	160	28.74	100	28.74	0.1205
R	RP4	*	2016	140	31.15	100	31.15	0.156
R	RP4	*	2016	120	34.27	100	34.27	0.209
R	RP4	*	2016	100	38.45	100	38.45	0
R	RP4	1-	2016	99999999	10.8	80	8.64	0
R	RP4	1-	2016	1400	10.8	80	8.64	0.0025
R	RP4	1-	2016	1380	10.86	80	8.69	0.0025
R	RP4	1-	2016	1360	10.92	80	8.74	0.002
R	RP4	1-	2016	1340	10.98	80	8.78	0.0025
R	RP4	1-	2016	1320	11.04	80	8.83	0.0025
R	RP4	1-	2016	1300	11.1	80	8.88	0.0025
R	RP4	1-	2016	1280	11.16	80	8.93	0.003
R	RP4	1-	2016	1260	11.24	80	8.99	0.0035
R	RP4	1-	2016	1240	11.32	80	9.06	0.003
R	RP4	1-	2016	1220	11.4	80	9.12	0.003
R	RP4	1-	2016	1200	11.48	80	9.18	0.0035
R	RP4	1-	2016	1180	11.56	80	9.25	0.003
R	RP4	1-	2016	1160	11.64	80	9.31	0.0035
R	RP4	1-	2016	1140	11.72	80	9.38	0.003
R	RP4	1-	2016	1120	11.8	80	9.44	0.0045
R	RP4	1-	2016	1100	11.91	80	9.53	0.0045
R	RP4	1-	2016	1080	12.02	80	9.62	0.004
R	RP4	1-	2016	1060	12.13	80	9.7	0.0045
R	RP4	1-	2016	1040	12.24	80	9.79	0.0045
R	RP4	1-	2016	1020	12.35	80	9.88	0.0045
R	RP4	1-	2016	1000	12.46	80	9.97	0.0045
R	RP4	1-	2016	980	12.57	80	10.06	0.006
R	RP4	1-	2016	960	12.73	80	10.18	0.0065
R	RP4	1-	2016	940	12.89	80	10.31	0.0065
R	RP4	1-	2016	920	13.05	80	10.44	0.0065
R	RP4	1-	2016	900	13.21	80	10.57	0.0065
R	RP4	1-	2016	880	13.37	80	10.7	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	1-	2016	860	13.53	80	10.82	0.0065
R	RP4	1-	2016	840	13.69	80	10.95	0.0065
R	RP4	1-	2016	820	13.85	80	11.08	0.0065
R	RP4	1-	2016	800	14.01	80	11.21	0.0085
R	RP4	1-	2016	780	14.22	80	11.38	0.008
R	RP4	1-	2016	760	14.43	80	11.54	0.0085
R	RP4	1-	2016	740	14.64	80	11.71	0.0085
R	RP4	1-	2016	720	14.85	80	11.88	0.0085
R	RP4	1-	2016	700	15.06	80	12.05	0.0085
R	RP4	1-	2016	680	15.27	80	12.22	0.008
R	RP4	1-	2016	660	15.48	80	12.38	0.011
R	RP4	1-	2016	640	15.75	80	12.6	0.011
R	RP4	1-	2016	620	16.03	80	12.82	0.0115
R	RP4	1-	2016	600	16.31	80	13.05	0.011
R	RP4	1-	2016	580	16.59	80	13.27	0.0115
R	RP4	1-	2016	560	16.87	80	13.5	0.0105
R	RP4	1-	2016	540	17.14	80	13.71	0.0115
R	RP4	1-	2016	520	17.43	80	13.94	0.004
R	RP4	1-	2016	500	17.53	80	14.02	0.017
R	RP4	1-	2016	480	17.95	80	14.36	0.0205
R	RP4	1-	2016	460	18.46	80	14.77	0.0205
R	RP4	1-	2016	440	18.98	80	15.18	0.021
R	RP4	1-	2016	420	19.5	80	15.6	0.021
R	RP4	1-	2016	400	20.02	80	16.02	0.0205
R	RP4	1-	2016	380	20.54	80	16.43	0.021
R	RP4	1-	2016	360	21.06	80	16.85	0.0205
R	RP4	1-	2016	340	21.58	80	17.26	0.021
R	RP4	1-	2016	320	22.1	80	17.68	-0.082
R	RP4	1-	2016	300	20.05	80	16.04	0.031
R	RP4	1-	2016	280	20.82	80	16.66	0.0345
R	RP4	1-	2016	260	21.69	80	17.35	0.0405
R	RP4	1-	2016	240	22.7	80	18.16	0.0455
R	RP4	1-	2016	220	23.84	80	19.07	0.054
R	RP4	1-	2016	200	25.19	80	20.15	0.0645
R	RP4	1-	2016	180	26.8	80	21.44	0.0775
R	RP4	1-	2016	160	28.74	80	22.99	0.0965
R	RP4	1-	2016	140	31.15	80	24.92	0.125
R	RP4	1-	2016	120	34.27	80	27.42	0.167
R	RP4	1-	2016	100	38.45	80	30.76	0
R	RP4	1+	2016	9999999	10.8	80	8.64	0
R	RP4	1+	2016	1400	10.8	80	8.64	0.0025
R	RP4	1+	2016	1380	10.86	80	8.69	0.0025
R	RP4	1+	2016	1360	10.92	80	8.74	0.002
R	RP4	1+	2016	1340	10.98	80	8.78	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	1+	2016	1320	11.04	80	8.83	0.0025
R	RP4	1+	2016	1300	11.1	80	8.88	0.0025
R	RP4	1+	2016	1280	11.16	80	8.93	0.003
R	RP4	1+	2016	1260	11.24	80	8.99	0.0035
R	RP4	1+	2016	1240	11.32	80	9.06	0.003
R	RP4	1+	2016	1220	11.4	80	9.12	0.003
R	RP4	1+	2016	1200	11.48	80	9.18	0.0035
R	RP4	1+	2016	1180	11.56	80	9.25	0.003
R	RP4	1+	2016	1160	11.64	80	9.31	0.0035
R	RP4	1+	2016	1140	11.72	80	9.38	0.003
R	RP4	1+	2016	1120	11.8	80	9.44	0.0045
R	RP4	1+	2016	1100	11.91	80	9.53	0.0045
R	RP4	1+	2016	1080	12.02	80	9.62	0.004
R	RP4	1+	2016	1060	12.13	80	9.7	0.0045
R	RP4	1+	2016	1040	12.24	80	9.79	0.0045
R	RP4	1+	2016	1020	12.35	80	9.88	0.0045
R	RP4	1+	2016	1000	12.46	80	9.97	0.0045
R	RP4	1+	2016	980	12.57	80	10.06	0.006
R	RP4	1+	2016	960	12.73	80	10.18	0.0065
R	RP4	1+	2016	940	12.89	80	10.31	0.0065
R	RP4	1+	2016	920	13.05	80	10.44	0.0065
R	RP4	1+	2016	900	13.21	80	10.57	0.0065
R	RP4	1+	2016	880	13.37	80	10.7	0.006
R	RP4	1+	2016	860	13.53	80	10.82	0.0065
R	RP4	1+	2016	840	13.69	80	10.95	0.0065
R	RP4	1+	2016	820	13.85	80	11.08	0.0065
R	RP4	1+	2016	800	14.01	80	11.21	0.0085
R	RP4	1+	2016	780	14.22	80	11.38	0.008
R	RP4	1+	2016	760	14.43	80	11.54	0.0085
R	RP4	1+	2016	740	14.64	80	11.71	0.0085
R	RP4	1+	2016	720	14.85	80	11.88	0.0085
R	RP4	1+	2016	700	15.06	80	12.05	0.0085
R	RP4	1+	2016	680	15.27	80	12.22	0.008
R	RP4	1+	2016	660	15.48	80	12.38	0.011
R	RP4	1+	2016	640	15.75	80	12.6	0.011
R	RP4	1+	2016	620	16.03	80	12.82	0.0115
R	RP4	1+	2016	600	16.31	80	13.05	0.011
R	RP4	1+	2016	580	16.59	80	13.27	0.0115
R	RP4	1+	2016	560	16.87	80	13.5	0.0105
R	RP4	1+	2016	540	17.14	80	13.71	0.0115
R	RP4	1+	2016	520	17.43	80	13.94	0.004
R	RP4	1+	2016	500	17.53	80	14.02	0.017
R	RP4	1+	2016	480	17.95	80	14.36	0.0205
R	RP4	1+	2016	460	18.46	80	14.77	0.0205

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	1+	2016	440	18.98	80	15.18	0.021
R	RP4	1+	2016	420	19.5	80	15.6	0.021
R	RP4	1+	2016	400	20.02	80	16.02	0.0205
R	RP4	1+	2016	380	20.54	80	16.43	0.021
R	RP4	1+	2016	360	21.06	80	16.85	0.0205
R	RP4	1+	2016	340	21.58	80	17.26	0.021
R	RP4	1+	2016	320	22.1	80	17.68	-0.082
R	RP4	1+	2016	300	20.05	80	16.04	0.031
R	RP4	1+	2016	280	20.82	80	16.66	0.0345
R	RP4	1+	2016	260	21.69	80	17.35	0.0405
R	RP4	1+	2016	240	22.7	80	18.16	0.0455
R	RP4	1+	2016	220	23.84	80	19.07	0.054
R	RP4	1+	2016	200	25.19	80	20.15	0.0645
R	RP4	1+	2016	180	26.8	80	21.44	0.0775
R	RP4	1+	2016	160	28.74	80	22.99	0.0965
R	RP4	1+	2016	140	31.15	80	24.92	0.125
R	RP4	1+	2016	120	34.27	80	27.42	0.167
R	RP4	1+	2016	100	38.45	80	30.76	0
R	RP4	2-	2016	99999999	10.8	80	8.64	0
R	RP4	2-	2016	1400	10.8	80	8.64	0.0025
R	RP4	2-	2016	1380	10.86	80	8.69	0.0025
R	RP4	2-	2016	1360	10.92	80	8.74	0.002
R	RP4	2-	2016	1340	10.98	80	8.78	0.0025
R	RP4	2-	2016	1320	11.04	80	8.83	0.0025
R	RP4	2-	2016	1300	11.1	80	8.88	0.0025
R	RP4	2-	2016	1280	11.16	80	8.93	0.003
R	RP4	2-	2016	1260	11.24	80	8.99	0.0035
R	RP4	2-	2016	1240	11.32	80	9.06	0.003
R	RP4	2-	2016	1220	11.4	80	9.12	0.003
R	RP4	2-	2016	1200	11.48	80	9.18	0.0035
R	RP4	2-	2016	1180	11.56	80	9.25	0.003
R	RP4	2-	2016	1160	11.64	80	9.31	0.0035
R	RP4	2-	2016	1140	11.72	80	9.38	0.003
R	RP4	2-	2016	1120	11.8	80	9.44	0.0045
R	RP4	2-	2016	1100	11.91	80	9.53	0.0045
R	RP4	2-	2016	1080	12.02	80	9.62	0.004
R	RP4	2-	2016	1060	12.13	80	9.7	0.0045
R	RP4	2-	2016	1040	12.24	80	9.79	0.0045
R	RP4	2-	2016	1020	12.35	80	9.88	0.0045
R	RP4	2-	2016	1000	12.46	80	9.97	0.0045
R	RP4	2-	2016	980	12.57	80	10.06	0.006
R	RP4	2-	2016	960	12.73	80	10.18	0.0065
R	RP4	2-	2016	940	12.89	80	10.31	0.0065
R	RP4	2-	2016	920	13.05	80	10.44	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	2-	2016	900	13.21	80	10.57	0.0065
R	RP4	2-	2016	880	13.37	80	10.7	0.006
R	RP4	2-	2016	860	13.53	80	10.82	0.0065
R	RP4	2-	2016	840	13.69	80	10.95	0.0065
R	RP4	2-	2016	820	13.85	80	11.08	0.0065
R	RP4	2-	2016	800	14.01	80	11.21	0.0085
R	RP4	2-	2016	780	14.22	80	11.38	0.008
R	RP4	2-	2016	760	14.43	80	11.54	0.0085
R	RP4	2-	2016	740	14.64	80	11.71	0.0085
R	RP4	2-	2016	720	14.85	80	11.88	0.0085
R	RP4	2-	2016	700	15.06	80	12.05	0.0085
R	RP4	2-	2016	680	15.27	80	12.22	0.008
R	RP4	2-	2016	660	15.48	80	12.38	0.011
R	RP4	2-	2016	640	15.75	80	12.6	0.011
R	RP4	2-	2016	620	16.03	80	12.82	0.0115
R	RP4	2-	2016	600	16.31	80	13.05	0.011
R	RP4	2-	2016	580	16.59	80	13.27	0.0115
R	RP4	2-	2016	560	16.87	80	13.5	0.0105
R	RP4	2-	2016	540	17.14	80	13.71	0.0115
R	RP4	2-	2016	520	17.43	80	13.94	0.004
R	RP4	2-	2016	500	17.53	80	14.02	0.017
R	RP4	2-	2016	480	17.95	80	14.36	0.0205
R	RP4	2-	2016	460	18.46	80	14.77	0.0205
R	RP4	2-	2016	440	18.98	80	15.18	0.021
R	RP4	2-	2016	420	19.5	80	15.6	0.021
R	RP4	2-	2016	400	20.02	80	16.02	0.0205
R	RP4	2-	2016	380	20.54	80	16.43	0.021
R	RP4	2-	2016	360	21.06	80	16.85	0.0205
R	RP4	2-	2016	340	21.58	80	17.26	0.021
R	RP4	2-	2016	320	22.1	80	17.68	-0.082
R	RP4	2-	2016	300	20.05	80	16.04	0.031
R	RP4	2-	2016	280	20.82	80	16.66	0.0345
R	RP4	2-	2016	260	21.69	80	17.35	0.0405
R	RP4	2-	2016	240	22.7	80	18.16	0.0455
R	RP4	2-	2016	220	23.84	80	19.07	0.054
R	RP4	2-	2016	200	25.19	80	20.15	0.0645
R	RP4	2-	2016	180	26.8	80	21.44	0.0775
R	RP4	2-	2016	160	28.74	80	22.99	0.0965
R	RP4	2-	2016	140	31.15	80	24.92	0.125
R	RP4	2-	2016	120	34.27	80	27.42	0.167
R	RP4	2-	2016	100	38.45	80	30.76	0
R	RP4	2+	2016	9999999	10.8	80	8.64	0
R	RP4	2+	2016	1400	10.8	80	8.64	0.0025
R	RP4	2+	2016	1380	10.86	80	8.69	0.0025

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	2+	2016	1360	10.92	80	8.74	0.002
R	RP4	2+	2016	1340	10.98	80	8.78	0.0025
R	RP4	2+	2016	1320	11.04	80	8.83	0.0025
R	RP4	2+	2016	1300	11.1	80	8.88	0.0025
R	RP4	2+	2016	1280	11.16	80	8.93	0.003
R	RP4	2+	2016	1260	11.24	80	8.99	0.0035
R	RP4	2+	2016	1240	11.32	80	9.06	0.003
R	RP4	2+	2016	1220	11.4	80	9.12	0.003
R	RP4	2+	2016	1200	11.48	80	9.18	0.0035
R	RP4	2+	2016	1180	11.56	80	9.25	0.003
R	RP4	2+	2016	1160	11.64	80	9.31	0.0035
R	RP4	2+	2016	1140	11.72	80	9.38	0.003
R	RP4	2+	2016	1120	11.8	80	9.44	0.0045
R	RP4	2+	2016	1100	11.91	80	9.53	0.0045
R	RP4	2+	2016	1080	12.02	80	9.62	0.004
R	RP4	2+	2016	1060	12.13	80	9.7	0.0045
R	RP4	2+	2016	1040	12.24	80	9.79	0.0045
R	RP4	2+	2016	1020	12.35	80	9.88	0.0045
R	RP4	2+	2016	1000	12.46	80	9.97	0.0045
R	RP4	2+	2016	980	12.57	80	10.06	0.006
R	RP4	2+	2016	960	12.73	80	10.18	0.0065
R	RP4	2+	2016	940	12.89	80	10.31	0.0065
R	RP4	2+	2016	920	13.05	80	10.44	0.0065
R	RP4	2+	2016	900	13.21	80	10.57	0.0065
R	RP4	2+	2016	880	13.37	80	10.7	0.006
R	RP4	2+	2016	860	13.53	80	10.82	0.0065
R	RP4	2+	2016	840	13.69	80	10.95	0.0065
R	RP4	2+	2016	820	13.85	80	11.08	0.0065
R	RP4	2+	2016	800	14.01	80	11.21	0.0085
R	RP4	2+	2016	780	14.22	80	11.38	0.008
R	RP4	2+	2016	760	14.43	80	11.54	0.0085
R	RP4	2+	2016	740	14.64	80	11.71	0.0085
R	RP4	2+	2016	720	14.85	80	11.88	0.0085
R	RP4	2+	2016	700	15.06	80	12.05	0.0085
R	RP4	2+	2016	680	15.27	80	12.22	0.008
R	RP4	2+	2016	660	15.48	80	12.38	0.011
R	RP4	2+	2016	640	15.75	80	12.6	0.011
R	RP4	2+	2016	620	16.03	80	12.82	0.0115
R	RP4	2+	2016	600	16.31	80	13.05	0.011
R	RP4	2+	2016	580	16.59	80	13.27	0.0115
R	RP4	2+	2016	560	16.87	80	13.5	0.0105
R	RP4	2+	2016	540	17.14	80	13.71	0.0115
R	RP4	2+	2016	520	17.43	80	13.94	0.004
R	RP4	2+	2016	500	17.53	80	14.02	0.017

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	2+	2016	480	17.95	80	14.36	0.0205
R	RP4	2+	2016	460	18.46	80	14.77	0.0205
R	RP4	2+	2016	440	18.98	80	15.18	0.021
R	RP4	2+	2016	420	19.5	80	15.6	0.021
R	RP4	2+	2016	400	20.02	80	16.02	0.0205
R	RP4	2+	2016	380	20.54	80	16.43	0.021
R	RP4	2+	2016	360	21.06	80	16.85	0.0205
R	RP4	2+	2016	340	21.58	80	17.26	0.021
R	RP4	2+	2016	320	22.1	80	17.68	-0.082
R	RP4	2+	2016	300	20.05	80	16.04	0.031
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R	RP4	2+	2016	260	21.69	80	17.35	0.0405
R	RP4	2+	2016	240	22.7	80	18.16	0.0455
R	RP4	2+	2016	220	23.84	80	19.07	0.054
R	RP4	2+	2016	200	25.19	80	20.15	0.0645
R	RP4	2+	2016	180	26.8	80	21.44	0.0775
R	RP4	2+	2016	160	28.74	80	22.99	0.0965
R	RP4	2+	2016	140	31.15	80	24.92	0.125
R	RP4	2+	2016	120	34.27	80	27.42	0.167
R	RP4	2+	2016	100	38.45	80	30.76	0
R	RP4	3-	2016	99999999	10.8	80	8.64	0
R	RP4	3-	2016	1400	10.8	80	8.64	0.0025
R	RP4	3-	2016	1380	10.86	80	8.69	0.0025
R	RP4	3-	2016	1360	10.92	80	8.74	0.002
R	RP4	3-	2016	1340	10.98	80	8.78	0.0025
R	RP4	3-	2016	1320	11.04	80	8.83	0.0025
R	RP4	3-	2016	1300	11.1	80	8.88	0.0025
R	RP4	3-	2016	1280	11.16	80	8.93	0.003
R	RP4	3-	2016	1260	11.24	80	8.99	0.0035
R	RP4	3-	2016	1240	11.32	80	9.06	0.003
R	RP4	3-	2016	1220	11.4	80	9.12	0.003
R	RP4	3-	2016	1200	11.48	80	9.18	0.0035
R	RP4	3-	2016	1180	11.56	80	9.25	0.003
R	RP4	3-	2016	1160	11.64	80	9.31	0.0035
R	RP4	3-	2016	1140	11.72	80	9.38	0.003
R	RP4	3-	2016	1120	11.8	80	9.44	0.0045
R	RP4	3-	2016	1100	11.91	80	9.53	0.0045
R	RP4	3-	2016	1080	12.02	80	9.62	0.004
R	RP4	3-	2016	1060	12.13	80	9.7	0.0045
R	RP4	3-	2016	1040	12.24	80	9.79	0.0045
R	RP4	3-	2016	1020	12.35	80	9.88	0.0045
R	RP4	3-	2016	1000	12.46	80	9.97	0.0045
R	RP4	3-	2016	980	12.57	80	10.06	0.006
R	RP4	3-	2016	960	12.73	80	10.18	0.0065

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R	RP4	3-	2016	940	12.89	80	10.31	0.0065
R	RP4	3-	2016	920	13.05	80	10.44	0.0065
R	RP4	3-	2016	900	13.21	80	10.57	0.0065
R	RP4	3-	2016	880	13.37	80	10.7	0.006
R	RP4	3-	2016	860	13.53	80	10.82	0.0065
R	RP4	3-	2016	840	13.69	80	10.95	0.0065
R	RP4	3-	2016	820	13.85	80	11.08	0.0065
R	RP4	3-	2016	800	14.01	80	11.21	0.0085
R	RP4	3-	2016	780	14.22	80	11.38	0.008
R	RP4	3-	2016	760	14.43	80	11.54	0.0085
R	RP4	3-	2016	740	14.64	80	11.71	0.0085
R	RP4	3-	2016	720	14.85	80	11.88	0.0085
R	RP4	3-	2016	700	15.06	80	12.05	0.0085
R	RP4	3-	2016	680	15.27	80	12.22	0.008
R	RP4	3-	2016	660	15.48	80	12.38	0.011
R	RP4	3-	2016	640	15.75	80	12.6	0.011
R	RP4	3-	2016	620	16.03	80	12.82	0.0115
R	RP4	3-	2016	600	16.31	80	13.05	0.011
R	RP4	3-	2016	580	16.59	80	13.27	0.0115
R	RP4	3-	2016	560	16.87	80	13.5	0.0105
R	RP4	3-	2016	540	17.14	80	13.71	0.0115
R	RP4	3-	2016	520	17.43	80	13.94	0.004
R	RP4	3-	2016	500	17.53	80	14.02	0.017
R	RP4	3-	2016	480	17.95	80	14.36	0.0205
R	RP4	3-	2016	460	18.46	80	14.77	0.0205
R	RP4	3-	2016	440	18.98	80	15.18	0.021
R	RP4	3-	2016	420	19.5	80	15.6	0.021
R	RP4	3-	2016	400	20.02	80	16.02	0.0205
R	RP4	3-	2016	380	20.54	80	16.43	0.021
R	RP4	3-	2016	360	21.06	80	16.85	0.0205
R	RP4	3-	2016	340	21.58	80	17.26	0.021
R	RP4	3-	2016	320	22.1	80	17.68	-0.082
R	RP4	3-	2016	300	20.05	80	16.04	0.031
R	RP4	3-	2016	280	20.82	80	16.66	0.0345
R	RP4	3-	2016	260	21.69	80	17.35	0.0405
R	RP4	3-	2016	240	22.7	80	18.16	0.0455
R	RP4	3-	2016	220	23.84	80	19.07	0.054
R	RP4	3-	2016	200	25.19	80	20.15	0.0645
R	RP4	3-	2016	180	26.8	80	21.44	0.0775
R	RP4	3-	2016	160	28.74	80	22.99	0.0965
R	RP4	3-	2016	140	31.15	80	24.92	0.125
R	RP4	3-	2016	120	34.27	80	27.42	0.167
R	RP4	3-	2016	100	38.45	80	30.76	0
R	RP4	3+	2016	99999999	10.8	80	8.64	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	3+	2016	1400	10.8	80	8.64	0.0025
R	RP4	3+	2016	1380	10.86	80	8.69	0.0025
R	RP4	3+	2016	1360	10.92	80	8.74	0.002
R	RP4	3+	2016	1340	10.98	80	8.78	0.0025
R	RP4	3+	2016	1320	11.04	80	8.83	0.0025
R	RP4	3+	2016	1300	11.1	80	8.88	0.0025
R	RP4	3+	2016	1280	11.16	80	8.93	0.003
R	RP4	3+	2016	1260	11.24	80	8.99	0.0035
R	RP4	3+	2016	1240	11.32	80	9.06	0.003
R	RP4	3+	2016	1220	11.4	80	9.12	0.003
R	RP4	3+	2016	1200	11.48	80	9.18	0.0035
R	RP4	3+	2016	1180	11.56	80	9.25	0.003
R	RP4	3+	2016	1160	11.64	80	9.31	0.0035
R	RP4	3+	2016	1140	11.72	80	9.38	0.003
R	RP4	3+	2016	1120	11.8	80	9.44	0.0045
R	RP4	3+	2016	1100	11.91	80	9.53	0.0045
R	RP4	3+	2016	1080	12.02	80	9.62	0.004
R	RP4	3+	2016	1060	12.13	80	9.7	0.0045
R	RP4	3+	2016	1040	12.24	80	9.79	0.0045
R	RP4	3+	2016	1020	12.35	80	9.88	0.0045
R	RP4	3+	2016	1000	12.46	80	9.97	0.0045
R	RP4	3+	2016	980	12.57	80	10.06	0.006
R	RP4	3+	2016	960	12.73	80	10.18	0.0065
R	RP4	3+	2016	940	12.89	80	10.31	0.0065
R	RP4	3+	2016	920	13.05	80	10.44	0.0065
R	RP4	3+	2016	900	13.21	80	10.57	0.0065
R	RP4	3+	2016	880	13.37	80	10.7	0.006
R	RP4	3+	2016	860	13.53	80	10.82	0.0065
R	RP4	3+	2016	840	13.69	80	10.95	0.0065
R	RP4	3+	2016	820	13.85	80	11.08	0.0065
R	RP4	3+	2016	800	14.01	80	11.21	0.0085
R	RP4	3+	2016	780	14.22	80	11.38	0.008
R	RP4	3+	2016	760	14.43	80	11.54	0.0085
R	RP4	3+	2016	740	14.64	80	11.71	0.0085
R	RP4	3+	2016	720	14.85	80	11.88	0.0085
R	RP4	3+	2016	700	15.06	80	12.05	0.0085
R	RP4	3+	2016	680	15.27	80	12.22	0.008
R	RP4	3+	2016	660	15.48	80	12.38	0.011
R	RP4	3+	2016	640	15.75	80	12.6	0.011
R	RP4	3+	2016	620	16.03	80	12.82	0.0115
R	RP4	3+	2016	600	16.31	80	13.05	0.011
R	RP4	3+	2016	580	16.59	80	13.27	0.0115
R	RP4	3+	2016	560	16.87	80	13.5	0.0105
R	RP4	3+	2016	540	17.14	80	13.71	0.0115

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	3+	2016	520	17.43	80	13.94	0.004
R	RP4	3+	2016	500	17.53	80	14.02	0.017
R	RP4	3+	2016	480	17.95	80	14.36	0.0205
R	RP4	3+	2016	460	18.46	80	14.77	0.0205
R	RP4	3+	2016	440	18.98	80	15.18	0.021
R	RP4	3+	2016	420	19.5	80	15.6	0.021
R	RP4	3+	2016	400	20.02	80	16.02	0.0205
R	RP4	3+	2016	380	20.54	80	16.43	0.021
R	RP4	3+	2016	360	21.06	80	16.85	0.0205
R	RP4	3+	2016	340	21.58	80	17.26	0.021
R	RP4	3+	2016	320	22.1	80	17.68	-0.082
R	RP4	3+	2016	300	20.05	80	16.04	0.031
R	RP4	3+	2016	280	20.82	80	16.66	0.0345
R	RP4	3+	2016	260	21.69	80	17.35	0.0405
R	RP4	3+	2016	240	22.7	80	18.16	0.0455
R	RP4	3+	2016	220	23.84	80	19.07	0.054
R	RP4	3+	2016	200	25.19	80	20.15	0.0645
R	RP4	3+	2016	180	26.8	80	21.44	0.0775
R	RP4	3+	2016	160	28.74	80	22.99	0.0965
R	RP4	3+	2016	140	31.15	80	24.92	0.125
R	RP4	3+	2016	120	34.27	80	27.42	0.167
R	RP4	3+	2016	100	38.45	80	30.76	0
R	RP4	4-	2016	99999999	10.8	100	10.8	0
R	RP4	4-	2016	1400	10.8	100	10.8	0.003
R	RP4	4-	2016	1380	10.86	100	10.86	0.003
R	RP4	4-	2016	1360	10.92	100	10.92	0.003
R	RP4	4-	2016	1340	10.98	100	10.98	0.003
R	RP4	4-	2016	1320	11.04	100	11.04	0.003
R	RP4	4-	2016	1300	11.1	100	11.1	0.003
R	RP4	4-	2016	1280	11.16	100	11.16	0.004
R	RP4	4-	2016	1260	11.24	100	11.24	0.004
R	RP4	4-	2016	1240	11.32	100	11.32	0.004
R	RP4	4-	2016	1220	11.4	100	11.4	0.004
R	RP4	4-	2016	1200	11.48	100	11.48	0.004
R	RP4	4-	2016	1180	11.56	100	11.56	0.004
R	RP4	4-	2016	1160	11.64	100	11.64	0.004
R	RP4	4-	2016	1140	11.72	100	11.72	0.004
R	RP4	4-	2016	1120	11.8	100	11.8	0.0055
R	RP4	4-	2016	1100	11.91	100	11.91	0.0055
R	RP4	4-	2016	1080	12.02	100	12.02	0.0055
R	RP4	4-	2016	1060	12.13	100	12.13	0.0055
R	RP4	4-	2016	1040	12.24	100	12.24	0.0055
R	RP4	4-	2016	1020	12.35	100	12.35	0.0055
R	RP4	4-	2016	1000	12.46	100	12.46	0.0055

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	4-	2016	980	12.57	100	12.57	0.008
R	RP4	4-	2016	960	12.73	100	12.73	0.008
R	RP4	4-	2016	940	12.89	100	12.89	0.008
R	RP4	4-	2016	920	13.05	100	13.05	0.008
R	RP4	4-	2016	900	13.21	100	13.21	0.008
R	RP4	4-	2016	880	13.37	100	13.37	0.008
R	RP4	4-	2016	860	13.53	100	13.53	0.008
R	RP4	4-	2016	840	13.69	100	13.69	0.008
R	RP4	4-	2016	820	13.85	100	13.85	0.008
R	RP4	4-	2016	800	14.01	100	14.01	0.0105
R	RP4	4-	2016	780	14.22	100	14.22	0.0105
R	RP4	4-	2016	760	14.43	100	14.43	0.0105
R	RP4	4-	2016	740	14.64	100	14.64	0.0105
R	RP4	4-	2016	720	14.85	100	14.85	0.0105
R	RP4	4-	2016	700	15.06	100	15.06	0.0105
R	RP4	4-	2016	680	15.27	100	15.27	0.0105
R	RP4	4-	2016	660	15.48	100	15.48	0.0135
R	RP4	4-	2016	640	15.75	100	15.75	0.014
R	RP4	4-	2016	620	16.03	100	16.03	0.014
R	RP4	4-	2016	600	16.31	100	16.31	0.014
R	RP4	4-	2016	580	16.59	100	16.59	0.014
R	RP4	4-	2016	560	16.87	100	16.87	0.0135
R	RP4	4-	2016	540	17.14	100	17.14	0.0145
R	RP4	4-	2016	520	17.43	100	17.43	0.005
R	RP4	4-	2016	500	17.53	100	17.53	0.021
R	RP4	4-	2016	480	17.95	100	17.95	0.0255
R	RP4	4-	2016	460	18.46	100	18.46	0.026
R	RP4	4-	2016	440	18.98	100	18.98	0.026
R	RP4	4-	2016	420	19.5	100	19.5	0.026
R	RP4	4-	2016	400	20.02	100	20.02	0.026
R	RP4	4-	2016	380	20.54	100	20.54	0.026
R	RP4	4-	2016	360	21.06	100	21.06	0.026
R	RP4	4-	2016	340	21.58	100	21.58	0.026
R	RP4	4-	2016	320	22.1	100	22.1	-0.1025
R	RP4	4-	2016	300	20.05	100	20.05	0.0385
R	RP4	4-	2016	280	20.82	100	20.82	0.0435
R	RP4	4-	2016	260	21.69	100	21.69	0.0505
R	RP4	4-	2016	240	22.7	100	22.7	0.057
R	RP4	4-	2016	220	23.84	100	23.84	0.0675
R	RP4	4-	2016	200	25.19	100	25.19	0.0805
R	RP4	4-	2016	180	26.8	100	26.8	0.097
R	RP4	4-	2016	160	28.74	100	28.74	0.1205
R	RP4	4-	2016	140	31.15	100	31.15	0.156
R	RP4	4-	2016	120	34.27	100	34.27	0.209

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	4-	2016	100	38.45	100	38.45	0
R	RP4	4+	2016	99999999	10.8	100	10.8	0
R	RP4	4+	2016	1400	10.8	100	10.8	0.003
R	RP4	4+	2016	1380	10.86	100	10.86	0.003
R	RP4	4+	2016	1360	10.92	100	10.92	0.003
R	RP4	4+	2016	1340	10.98	100	10.98	0.003
R	RP4	4+	2016	1320	11.04	100	11.04	0.003
R	RP4	4+	2016	1300	11.1	100	11.1	0.003
R	RP4	4+	2016	1280	11.16	100	11.16	0.004
R	RP4	4+	2016	1260	11.24	100	11.24	0.004
R	RP4	4+	2016	1240	11.32	100	11.32	0.004
R	RP4	4+	2016	1220	11.4	100	11.4	0.004
R	RP4	4+	2016	1200	11.48	100	11.48	0.004
R	RP4	4+	2016	1180	11.56	100	11.56	0.004
R	RP4	4+	2016	1160	11.64	100	11.64	0.004
R	RP4	4+	2016	1140	11.72	100	11.72	0.004
R	RP4	4+	2016	1120	11.8	100	11.8	0.0055
R	RP4	4+	2016	1100	11.91	100	11.91	0.0055
R	RP4	4+	2016	1080	12.02	100	12.02	0.0055
R	RP4	4+	2016	1060	12.13	100	12.13	0.0055
R	RP4	4+	2016	1040	12.24	100	12.24	0.0055
R	RP4	4+	2016	1020	12.35	100	12.35	0.0055
R	RP4	4+	2016	1000	12.46	100	12.46	0.0055
R	RP4	4+	2016	980	12.57	100	12.57	0.008
R	RP4	4+	2016	960	12.73	100	12.73	0.008
R	RP4	4+	2016	940	12.89	100	12.89	0.008
R	RP4	4+	2016	920	13.05	100	13.05	0.008
R	RP4	4+	2016	900	13.21	100	13.21	0.008
R	RP4	4+	2016	880	13.37	100	13.37	0.008
R	RP4	4+	2016	860	13.53	100	13.53	0.008
R	RP4	4+	2016	840	13.69	100	13.69	0.008
R	RP4	4+	2016	820	13.85	100	13.85	0.008
R	RP4	4+	2016	800	14.01	100	14.01	0.0105
R	RP4	4+	2016	780	14.22	100	14.22	0.0105
R	RP4	4+	2016	760	14.43	100	14.43	0.0105
R	RP4	4+	2016	740	14.64	100	14.64	0.0105
R	RP4	4+	2016	720	14.85	100	14.85	0.0105
R	RP4	4+	2016	700	15.06	100	15.06	0.0105
R	RP4	4+	2016	680	15.27	100	15.27	0.0105
R	RP4	4+	2016	660	15.48	100	15.48	0.0135
R	RP4	4+	2016	640	15.75	100	15.75	0.014
R	RP4	4+	2016	620	16.03	100	16.03	0.014
R	RP4	4+	2016	600	16.31	100	16.31	0.014
R	RP4	4+	2016	580	16.59	100	16.59	0.014

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	4+	2016	560	16.87	100	16.87	0.0135
R	RP4	4+	2016	540	17.14	100	17.14	0.0145
R	RP4	4+	2016	520	17.43	100	17.43	0.005
R	RP4	4+	2016	500	17.53	100	17.53	0.021
R	RP4	4+	2016	480	17.95	100	17.95	0.0255
R	RP4	4+	2016	460	18.46	100	18.46	0.026
R	RP4	4+	2016	440	18.98	100	18.98	0.026
R	RP4	4+	2016	420	19.5	100	19.5	0.026
R	RP4	4+	2016	400	20.02	100	20.02	0.026
R	RP4	4+	2016	380	20.54	100	20.54	0.026
R	RP4	4+	2016	360	21.06	100	21.06	0.026
R	RP4	4+	2016	340	21.58	100	21.58	0.026
R	RP4	4+	2016	320	22.1	100	22.1	-0.1025
R	RP4	4+	2016	300	20.05	100	20.05	0.0385
R	RP4	4+	2016	280	20.82	100	20.82	0.0435
R	RP4	4+	2016	260	21.69	100	21.69	0.0505
R	RP4	4+	2016	240	22.7	100	22.7	0.057
R	RP4	4+	2016	220	23.84	100	23.84	0.0675
R	RP4	4+	2016	200	25.19	100	25.19	0.0805
R	RP4	4+	2016	180	26.8	100	26.8	0.097
R	RP4	4+	2016	160	28.74	100	28.74	0.1205
R	RP4	4+	2016	140	31.15	100	31.15	0.156
R	RP4	4+	2016	120	34.27	100	34.27	0.209
R	RP4	4+	2016	100	38.45	100	38.45	0
R	RP4	5-	2016	99999999	10.8	120	12.96	0
R	RP4	5-	2016	1400	10.8	120	12.96	0.0035
R	RP4	5-	2016	1380	10.86	120	13.03	0.0035
R	RP4	5-	2016	1360	10.92	120	13.1	0.004
R	RP4	5-	2016	1340	10.98	120	13.18	0.0035
R	RP4	5-	2016	1320	11.04	120	13.25	0.0035
R	RP4	5-	2016	1300	11.1	120	13.32	0.0035
R	RP4	5-	2016	1280	11.16	120	13.39	0.005
R	RP4	5-	2016	1260	11.24	120	13.49	0.0045
R	RP4	5-	2016	1240	11.32	120	13.58	0.005
R	RP4	5-	2016	1220	11.4	120	13.68	0.005
R	RP4	5-	2016	1200	11.48	120	13.78	0.0045
R	RP4	5-	2016	1180	11.56	120	13.87	0.005
R	RP4	5-	2016	1160	11.64	120	13.97	0.0045
R	RP4	5-	2016	1140	11.72	120	14.06	0.005
R	RP4	5-	2016	1120	11.8	120	14.16	0.0065
R	RP4	5-	2016	1100	11.91	120	14.29	0.0065
R	RP4	5-	2016	1080	12.02	120	14.42	0.007
R	RP4	5-	2016	1060	12.13	120	14.56	0.0065
R	RP4	5-	2016	1040	12.24	120	14.69	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	5-	2016	1020	12.35	120	14.82	0.0065
R	RP4	5-	2016	1000	12.46	120	14.95	0.0065
R	RP4	5-	2016	980	12.57	120	15.08	0.01
R	RP4	5-	2016	960	12.73	120	15.28	0.0095
R	RP4	5-	2016	940	12.89	120	15.47	0.0095
R	RP4	5-	2016	920	13.05	120	15.66	0.0095
R	RP4	5-	2016	900	13.21	120	15.85	0.0095
R	RP4	5-	2016	880	13.37	120	16.04	0.01
R	RP4	5-	2016	860	13.53	120	16.24	0.0095
R	RP4	5-	2016	840	13.69	120	16.43	0.0095
R	RP4	5-	2016	820	13.85	120	16.62	0.0095
R	RP4	5-	2016	800	14.01	120	16.81	0.0125
R	RP4	5-	2016	780	14.22	120	17.06	0.013
R	RP4	5-	2016	760	14.43	120	17.32	0.0125
R	RP4	5-	2016	740	14.64	120	17.57	0.0125
R	RP4	5-	2016	720	14.85	120	17.82	0.0125
R	RP4	5-	2016	700	15.06	120	18.07	0.0125
R	RP4	5-	2016	680	15.27	120	18.32	0.013
R	RP4	5-	2016	660	15.48	120	18.58	0.016
R	RP4	5-	2016	640	15.75	120	18.9	0.017
R	RP4	5-	2016	620	16.03	120	19.24	0.0165
R	RP4	5-	2016	600	16.31	120	19.57	0.017
R	RP4	5-	2016	580	16.59	120	19.91	0.0165
R	RP4	5-	2016	560	16.87	120	20.24	0.0165
R	RP4	5-	2016	540	17.14	120	20.57	0.0175
R	RP4	5-	2016	520	17.43	120	20.92	0.006
R	RP4	5-	2016	500	17.53	120	21.04	0.025
R	RP4	5-	2016	480	17.95	120	21.54	0.0305
R	RP4	5-	2016	460	18.46	120	22.15	0.0315
R	RP4	5-	2016	440	18.98	120	22.78	0.031
R	RP4	5-	2016	420	19.5	120	23.4	0.031
R	RP4	5-	2016	400	20.02	120	24.02	0.0315
R	RP4	5-	2016	380	20.54	120	24.65	0.031
R	RP4	5-	2016	360	21.06	120	25.27	0.0315
R	RP4	5-	2016	340	21.58	120	25.9	0.031
R	RP4	5-	2016	320	22.1	120	26.52	-0.123
R	RP4	5-	2016	300	20.05	120	24.06	0.046
R	RP4	5-	2016	280	20.82	120	24.98	0.0525
R	RP4	5-	2016	260	21.69	120	26.03	0.0605
R	RP4	5-	2016	240	22.7	120	27.24	0.0685
R	RP4	5-	2016	220	23.84	120	28.61	0.081
R	RP4	5-	2016	200	25.19	120	30.23	0.0965
R	RP4	5-	2016	180	26.8	120	32.16	0.1165
R	RP4	5-	2016	160	28.74	120	34.49	0.1445

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	5-	2016	140	31.15	120	37.38	0.187
R	RP4	5-	2016	120	34.27	120	41.12	0.251
R	RP4	5-	2016	100	38.45	120	46.14	0
R	RP4	5+	2016	99999999	10.8	120	12.96	0
R	RP4	5+	2016	1400	10.8	120	12.96	0.0035
R	RP4	5+	2016	1380	10.86	120	13.03	0.0035
R	RP4	5+	2016	1360	10.92	120	13.1	0.004
R	RP4	5+	2016	1340	10.98	120	13.18	0.0035
R	RP4	5+	2016	1320	11.04	120	13.25	0.0035
R	RP4	5+	2016	1300	11.1	120	13.32	0.0035
R	RP4	5+	2016	1280	11.16	120	13.39	0.005
R	RP4	5+	2016	1260	11.24	120	13.49	0.0045
R	RP4	5+	2016	1240	11.32	120	13.58	0.005
R	RP4	5+	2016	1220	11.4	120	13.68	0.005
R	RP4	5+	2016	1200	11.48	120	13.78	0.0045
R	RP4	5+	2016	1180	11.56	120	13.87	0.005
R	RP4	5+	2016	1160	11.64	120	13.97	0.0045
R	RP4	5+	2016	1140	11.72	120	14.06	0.005
R	RP4	5+	2016	1120	11.8	120	14.16	0.0065
R	RP4	5+	2016	1100	11.91	120	14.29	0.0065
R	RP4	5+	2016	1080	12.02	120	14.42	0.007
R	RP4	5+	2016	1060	12.13	120	14.56	0.0065
R	RP4	5+	2016	1040	12.24	120	14.69	0.0065
R	RP4	5+	2016	1020	12.35	120	14.82	0.0065
R	RP4	5+	2016	1000	12.46	120	14.95	0.0065
R	RP4	5+	2016	980	12.57	120	15.08	0.01
R	RP4	5+	2016	960	12.73	120	15.28	0.0095
R	RP4	5+	2016	940	12.89	120	15.47	0.0095
R	RP4	5+	2016	920	13.05	120	15.66	0.0095
R	RP4	5+	2016	900	13.21	120	15.85	0.0095
R	RP4	5+	2016	880	13.37	120	16.04	0.01
R	RP4	5+	2016	860	13.53	120	16.24	0.0095
R	RP4	5+	2016	840	13.69	120	16.43	0.0095
R	RP4	5+	2016	820	13.85	120	16.62	0.0095
R	RP4	5+	2016	800	14.01	120	16.81	0.0125
R	RP4	5+	2016	780	14.22	120	17.06	0.013
R	RP4	5+	2016	760	14.43	120	17.32	0.0125
R	RP4	5+	2016	740	14.64	120	17.57	0.0125
R	RP4	5+	2016	720	14.85	120	17.82	0.0125
R	RP4	5+	2016	700	15.06	120	18.07	0.0125
R	RP4	5+	2016	680	15.27	120	18.32	0.013
R	RP4	5+	2016	660	15.48	120	18.58	0.016
R	RP4	5+	2016	640	15.75	120	18.9	0.017
R	RP4	5+	2016	620	16.03	120	19.24	0.0165

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	5+	2016	600	16.31	120	19.57	0.017
R	RP4	5+	2016	580	16.59	120	19.91	0.0165
R	RP4	5+	2016	560	16.87	120	20.24	0.0165
R	RP4	5+	2016	540	17.14	120	20.57	0.0175
R	RP4	5+	2016	520	17.43	120	20.92	0.006
R	RP4	5+	2016	500	17.53	120	21.04	0.025
R	RP4	5+	2016	480	17.95	120	21.54	0.0305
R	RP4	5+	2016	460	18.46	120	22.15	0.0315
R	RP4	5+	2016	440	18.98	120	22.78	0.031
R	RP4	5+	2016	420	19.5	120	23.4	0.031
R	RP4	5+	2016	400	20.02	120	24.02	0.0315
R	RP4	5+	2016	380	20.54	120	24.65	0.031
R	RP4	5+	2016	360	21.06	120	25.27	0.0315
R	RP4	5+	2016	340	21.58	120	25.9	0.031
R	RP4	5+	2016	320	22.1	120	26.52	-0.123
R	RP4	5+	2016	300	20.05	120	24.06	0.046
R	RP4	5+	2016	280	20.82	120	24.98	0.0525
R	RP4	5+	2016	260	21.69	120	26.03	0.0605
R	RP4	5+	2016	240	22.7	120	27.24	0.0685
R	RP4	5+	2016	220	23.84	120	28.61	0.081
R	RP4	5+	2016	200	25.19	120	30.23	0.0965
R	RP4	5+	2016	180	26.8	120	32.16	0.1165
R	RP4	5+	2016	160	28.74	120	34.49	0.1445
R	RP4	5+	2016	140	31.15	120	37.38	0.187
R	RP4	5+	2016	120	34.27	120	41.12	0.251
R	RP4	5+	2016	100	38.45	120	46.14	0
R	RP4	6-	2016	99999999	10.8	120	12.96	0
R	RP4	6-	2016	1400	10.8	120	12.96	0.0035
R	RP4	6-	2016	1380	10.86	120	13.03	0.0035
R	RP4	6-	2016	1360	10.92	120	13.1	0.004
R	RP4	6-	2016	1340	10.98	120	13.18	0.0035
R	RP4	6-	2016	1320	11.04	120	13.25	0.0035
R	RP4	6-	2016	1300	11.1	120	13.32	0.0035
R	RP4	6-	2016	1280	11.16	120	13.39	0.005
R	RP4	6-	2016	1260	11.24	120	13.49	0.0045
R	RP4	6-	2016	1240	11.32	120	13.58	0.005
R	RP4	6-	2016	1220	11.4	120	13.68	0.005
R	RP4	6-	2016	1200	11.48	120	13.78	0.0045
R	RP4	6-	2016	1180	11.56	120	13.87	0.005
R	RP4	6-	2016	1160	11.64	120	13.97	0.0045
R	RP4	6-	2016	1140	11.72	120	14.06	0.005
R	RP4	6-	2016	1120	11.8	120	14.16	0.0065
R	RP4	6-	2016	1100	11.91	120	14.29	0.0065
R	RP4	6-	2016	1080	12.02	120	14.42	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	6-	2016	1060	12.13	120	14.56	0.0065
R	RP4	6-	2016	1040	12.24	120	14.69	0.0065
R	RP4	6-	2016	1020	12.35	120	14.82	0.0065
R	RP4	6-	2016	1000	12.46	120	14.95	0.0065
R	RP4	6-	2016	980	12.57	120	15.08	0.01
R	RP4	6-	2016	960	12.73	120	15.28	0.0095
R	RP4	6-	2016	940	12.89	120	15.47	0.0095
R	RP4	6-	2016	920	13.05	120	15.66	0.0095
R	RP4	6-	2016	900	13.21	120	15.85	0.0095
R	RP4	6-	2016	880	13.37	120	16.04	0.01
R	RP4	6-	2016	860	13.53	120	16.24	0.0095
R	RP4	6-	2016	840	13.69	120	16.43	0.0095
R	RP4	6-	2016	820	13.85	120	16.62	0.0095
R	RP4	6-	2016	800	14.01	120	16.81	0.0125
R	RP4	6-	2016	780	14.22	120	17.06	0.013
R	RP4	6-	2016	760	14.43	120	17.32	0.0125
R	RP4	6-	2016	740	14.64	120	17.57	0.0125
R	RP4	6-	2016	720	14.85	120	17.82	0.0125
R	RP4	6-	2016	700	15.06	120	18.07	0.0125
R	RP4	6-	2016	680	15.27	120	18.32	0.013
R	RP4	6-	2016	660	15.48	120	18.58	0.016
R	RP4	6-	2016	640	15.75	120	18.9	0.017
R	RP4	6-	2016	620	16.03	120	19.24	0.0165
R	RP4	6-	2016	600	16.31	120	19.57	0.017
R	RP4	6-	2016	580	16.59	120	19.91	0.0165
R	RP4	6-	2016	560	16.87	120	20.24	0.0165
R	RP4	6-	2016	540	17.14	120	20.57	0.0175
R	RP4	6-	2016	520	17.43	120	20.92	0.006
R	RP4	6-	2016	500	17.53	120	21.04	0.025
R	RP4	6-	2016	480	17.95	120	21.54	0.0305
R	RP4	6-	2016	460	18.46	120	22.15	0.0315
R	RP4	6-	2016	440	18.98	120	22.78	0.031
R	RP4	6-	2016	420	19.5	120	23.4	0.031
R	RP4	6-	2016	400	20.02	120	24.02	0.0315
R	RP4	6-	2016	380	20.54	120	24.65	0.031
R	RP4	6-	2016	360	21.06	120	25.27	0.0315
R	RP4	6-	2016	340	21.58	120	25.9	0.031
R	RP4	6-	2016	320	22.1	120	26.52	-0.123
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R	RP4	6-	2016	280	20.82	120	24.98	0.0525
R	RP4	6-	2016	260	21.69	120	26.03	0.0605
R	RP4	6-	2016	240	22.7	120	27.24	0.0685
R	RP4	6-	2016	220	23.84	120	28.61	0.081
R	RP4	6-	2016	200	25.19	120	30.23	0.0965

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	6-	2016	180	26.8	120	32.16	0.1165
R	RP4	6-	2016	160	28.74	120	34.49	0.1445
R	RP4	6-	2016	140	31.15	120	37.38	0.187
R	RP4	6-	2016	120	34.27	120	41.12	0.251
R	RP4	6-	2016	100	38.45	120	46.14	0
R	RP4	6+	2016	99999999	10.8	120	12.96	0
R	RP4	6+	2016	1400	10.8	120	12.96	0.0035
R	RP4	6+	2016	1380	10.86	120	13.03	0.0035
R	RP4	6+	2016	1360	10.92	120	13.1	0.004
R	RP4	6+	2016	1340	10.98	120	13.18	0.0035
R	RP4	6+	2016	1320	11.04	120	13.25	0.0035
R	RP4	6+	2016	1300	11.1	120	13.32	0.0035
R	RP4	6+	2016	1280	11.16	120	13.39	0.005
R	RP4	6+	2016	1260	11.24	120	13.49	0.0045
R	RP4	6+	2016	1240	11.32	120	13.58	0.005
R	RP4	6+	2016	1220	11.4	120	13.68	0.005
R	RP4	6+	2016	1200	11.48	120	13.78	0.0045
R	RP4	6+	2016	1180	11.56	120	13.87	0.005
R	RP4	6+	2016	1160	11.64	120	13.97	0.0045
R	RP4	6+	2016	1140	11.72	120	14.06	0.005
R	RP4	6+	2016	1120	11.8	120	14.16	0.0065
R	RP4	6+	2016	1100	11.91	120	14.29	0.0065
R	RP4	6+	2016	1080	12.02	120	14.42	0.007
R	RP4	6+	2016	1060	12.13	120	14.56	0.0065
R	RP4	6+	2016	1040	12.24	120	14.69	0.0065
R	RP4	6+	2016	1020	12.35	120	14.82	0.0065
R	RP4	6+	2016	1000	12.46	120	14.95	0.0065
R	RP4	6+	2016	980	12.57	120	15.08	0.01
R	RP4	6+	2016	960	12.73	120	15.28	0.0095
R	RP4	6+	2016	940	12.89	120	15.47	0.0095
R	RP4	6+	2016	920	13.05	120	15.66	0.0095
R	RP4	6+	2016	900	13.21	120	15.85	0.0095
R	RP4	6+	2016	880	13.37	120	16.04	0.01
R	RP4	6+	2016	860	13.53	120	16.24	0.0095
R	RP4	6+	2016	840	13.69	120	16.43	0.0095
R	RP4	6+	2016	820	13.85	120	16.62	0.0095
R	RP4	6+	2016	800	14.01	120	16.81	0.0125
R	RP4	6+	2016	780	14.22	120	17.06	0.013
R	RP4	6+	2016	760	14.43	120	17.32	0.0125
R	RP4	6+	2016	740	14.64	120	17.57	0.0125
R	RP4	6+	2016	720	14.85	120	17.82	0.0125
R	RP4	6+	2016	700	15.06	120	18.07	0.0125
R	RP4	6+	2016	680	15.27	120	18.32	0.013
R	RP4	6+	2016	660	15.48	120	18.58	0.016

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	6+	2016	640	15.75	120	18.9	0.017
R	RP4	6+	2016	620	16.03	120	19.24	0.0165
R	RP4	6+	2016	600	16.31	120	19.57	0.017
R	RP4	6+	2016	580	16.59	120	19.91	0.0165
R	RP4	6+	2016	560	16.87	120	20.24	0.0165
R	RP4	6+	2016	540	17.14	120	20.57	0.0175
R	RP4	6+	2016	520	17.43	120	20.92	0.006
R	RP4	6+	2016	500	17.53	120	21.04	0.025
R	RP4	6+	2016	480	17.95	120	21.54	0.0305
R	RP4	6+	2016	460	18.46	120	22.15	0.0315
R	RP4	6+	2016	440	18.98	120	22.78	0.031
R	RP4	6+	2016	420	19.5	120	23.4	0.031
R	RP4	6+	2016	400	20.02	120	24.02	0.0315
R	RP4	6+	2016	380	20.54	120	24.65	0.031
R	RP4	6+	2016	360	21.06	120	25.27	0.0315
R	RP4	6+	2016	340	21.58	120	25.9	0.031
R	RP4	6+	2016	320	22.1	120	26.52	-0.123
R	RP4	6+	2016	300	20.05	120	24.06	0.046
R	RP4	6+	2016	280	20.82	120	24.98	0.0525
R	RP4	6+	2016	260	21.69	120	26.03	0.0605
R	RP4	6+	2016	240	22.7	120	27.24	0.0685
R	RP4	6+	2016	220	23.84	120	28.61	0.081
R	RP4	6+	2016	200	25.19	120	30.23	0.0965
R	RP4	6+	2016	180	26.8	120	32.16	0.1165
R	RP4	6+	2016	160	28.74	120	34.49	0.1445
R	RP4	6+	2016	140	31.15	120	37.38	0.187
R	RP4	6+	2016	120	34.27	120	41.12	0.251
R	RP4	6+	2016	100	38.45	120	46.14	0
R	RP4	7-	2016	99999999	10.8	120	12.96	0
R	RP4	7-	2016	1400	10.8	120	12.96	0.0035
R	RP4	7-	2016	1380	10.86	120	13.03	0.0035
R	RP4	7-	2016	1360	10.92	120	13.1	0.004
R	RP4	7-	2016	1340	10.98	120	13.18	0.0035
R	RP4	7-	2016	1320	11.04	120	13.25	0.0035
R	RP4	7-	2016	1300	11.1	120	13.32	0.0035
R	RP4	7-	2016	1280	11.16	120	13.39	0.005
R	RP4	7-	2016	1260	11.24	120	13.49	0.0045
R	RP4	7-	2016	1240	11.32	120	13.58	0.005
R	RP4	7-	2016	1220	11.4	120	13.68	0.005
R	RP4	7-	2016	1200	11.48	120	13.78	0.0045
R	RP4	7-	2016	1180	11.56	120	13.87	0.005
R	RP4	7-	2016	1160	11.64	120	13.97	0.0045
R	RP4	7-	2016	1140	11.72	120	14.06	0.005
R	RP4	7-	2016	1120	11.8	120	14.16	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP4	7-	2016	1100	11.91	120	14.29	0.0065
R	RP4	7-	2016	1080	12.02	120	14.42	0.007
R	RP4	7-	2016	1060	12.13	120	14.56	0.0065
R	RP4	7-	2016	1040	12.24	120	14.69	0.0065
R	RP4	7-	2016	1020	12.35	120	14.82	0.0065
R	RP4	7-	2016	1000	12.46	120	14.95	0.0065
R	RP4	7-	2016	980	12.57	120	15.08	0.01
R	RP4	7-	2016	960	12.73	120	15.28	0.0095
R	RP4	7-	2016	940	12.89	120	15.47	0.0095
R	RP4	7-	2016	920	13.05	120	15.66	0.0095
R	RP4	7-	2016	900	13.21	120	15.85	0.0095
R	RP4	7-	2016	880	13.37	120	16.04	0.01
R	RP4	7-	2016	860	13.53	120	16.24	0.0095
R	RP4	7-	2016	840	13.69	120	16.43	0.0095
R	RP4	7-	2016	820	13.85	120	16.62	0.0095
R	RP4	7-	2016	800	14.01	120	16.81	0.0125
R	RP4	7-	2016	780	14.22	120	17.06	0.013
R	RP4	7-	2016	760	14.43	120	17.32	0.0125
R	RP4	7-	2016	740	14.64	120	17.57	0.0125
R	RP4	7-	2016	720	14.85	120	17.82	0.0125
R	RP4	7-	2016	700	15.06	120	18.07	0.0125
R	RP4	7-	2016	680	15.27	120	18.32	0.013
R	RP4	7-	2016	660	15.48	120	18.58	0.016
R	RP4	7-	2016	640	15.75	120	18.9	0.017
R	RP4	7-	2016	620	16.03	120	19.24	0.0165
R	RP4	7-	2016	600	16.31	120	19.57	0.017
R	RP4	7-	2016	580	16.59	120	19.91	0.0165
R	RP4	7-	2016	560	16.87	120	20.24	0.0165
R	RP4	7-	2016	540	17.14	120	20.57	0.0175
R	RP4	7-	2016	520	17.43	120	20.92	0.006
R	RP4	7-	2016	500	17.53	120	21.04	0.025
R	RP4	7-	2016	480	17.95	120	21.54	0.0305
R	RP4	7-	2016	460	18.46	120	22.15	0.0315
R	RP4	7-	2016	440	18.98	120	22.78	0.031
R	RP4	7-	2016	420	19.5	120	23.4	0.031
R	RP4	7-	2016	400	20.02	120	24.02	0.0315
R	RP4	7-	2016	380	20.54	120	24.65	0.031
R	RP4	7-	2016	360	21.06	120	25.27	0.0315
R	RP4	7-	2016	340	21.58	120	25.9	0.031
R	RP4	7-	2016	320	22.1	120	26.52	-0.123
R	RP4	7-	2016	300	20.05	120	24.06	0.046
R	RP4	7-	2016	280	20.82	120	24.98	0.0525
R	RP4	7-	2016	260	21.69	120	26.03	0.0605
R	RP4	7-	2016	240	22.7	120	27.24	0.0685

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	7-	2016	220	23.84	120	28.61	0.081
R	RP4	7-	2016	200	25.19	120	30.23	0.0965
R	RP4	7-	2016	180	26.8	120	32.16	0.1165
R	RP4	7-	2016	160	28.74	120	34.49	0.1445
R	RP4	7-	2016	140	31.15	120	37.38	0.187
R	RP4	7-	2016	120	34.27	120	41.12	0.251
R	RP4	7-	2016	100	38.45	120	46.14	0
R	RP4	7+	2016	99999999	10.8	120	12.96	0
R	RP4	7+	2016	1400	10.8	120	12.96	0.0035
R	RP4	7+	2016	1380	10.86	120	13.03	0.0035
R	RP4	7+	2016	1360	10.92	120	13.1	0.004
R	RP4	7+	2016	1340	10.98	120	13.18	0.0035
R	RP4	7+	2016	1320	11.04	120	13.25	0.0035
R	RP4	7+	2016	1300	11.1	120	13.32	0.0035
R	RP4	7+	2016	1280	11.16	120	13.39	0.005
R	RP4	7+	2016	1260	11.24	120	13.49	0.0045
R	RP4	7+	2016	1240	11.32	120	13.58	0.005
R	RP4	7+	2016	1220	11.4	120	13.68	0.005
R	RP4	7+	2016	1200	11.48	120	13.78	0.0045
R	RP4	7+	2016	1180	11.56	120	13.87	0.005
R	RP4	7+	2016	1160	11.64	120	13.97	0.0045
R	RP4	7+	2016	1140	11.72	120	14.06	0.005
R	RP4	7+	2016	1120	11.8	120	14.16	0.0065
R	RP4	7+	2016	1100	11.91	120	14.29	0.0065
R	RP4	7+	2016	1080	12.02	120	14.42	0.007
R	RP4	7+	2016	1060	12.13	120	14.56	0.0065
R	RP4	7+	2016	1040	12.24	120	14.69	0.0065
R	RP4	7+	2016	1020	12.35	120	14.82	0.0065
R	RP4	7+	2016	1000	12.46	120	14.95	0.0065
R	RP4	7+	2016	980	12.57	120	15.08	0.01
R	RP4	7+	2016	960	12.73	120	15.28	0.0095
R	RP4	7+	2016	940	12.89	120	15.47	0.0095
R	RP4	7+	2016	920	13.05	120	15.66	0.0095
R	RP4	7+	2016	900	13.21	120	15.85	0.0095
R	RP4	7+	2016	880	13.37	120	16.04	0.01
R	RP4	7+	2016	860	13.53	120	16.24	0.0095
R	RP4	7+	2016	840	13.69	120	16.43	0.0095
R	RP4	7+	2016	820	13.85	120	16.62	0.0095
R	RP4	7+	2016	800	14.01	120	16.81	0.0125
R	RP4	7+	2016	780	14.22	120	17.06	0.013
R	RP4	7+	2016	760	14.43	120	17.32	0.0125
R	RP4	7+	2016	740	14.64	120	17.57	0.0125
R	RP4	7+	2016	720	14.85	120	17.82	0.0125
R	RP4	7+	2016	700	15.06	120	18.07	0.0125

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	7+	2016	680	15.27	120	18.32	0.013
R	RP4	7+	2016	660	15.48	120	18.58	0.016
R	RP4	7+	2016	640	15.75	120	18.9	0.017
R	RP4	7+	2016	620	16.03	120	19.24	0.0165
R	RP4	7+	2016	600	16.31	120	19.57	0.017
R	RP4	7+	2016	580	16.59	120	19.91	0.0165
R	RP4	7+	2016	560	16.87	120	20.24	0.0165
R	RP4	7+	2016	540	17.14	120	20.57	0.0175
R	RP4	7+	2016	520	17.43	120	20.92	0.006
R	RP4	7+	2016	500	17.53	120	21.04	0.025
R	RP4	7+	2016	480	17.95	120	21.54	0.0305
R	RP4	7+	2016	460	18.46	120	22.15	0.0315
R	RP4	7+	2016	440	18.98	120	22.78	0.031
R	RP4	7+	2016	420	19.5	120	23.4	0.031
R	RP4	7+	2016	400	20.02	120	24.02	0.0315
R	RP4	7+	2016	380	20.54	120	24.65	0.031
R	RP4	7+	2016	360	21.06	120	25.27	0.0315
R	RP4	7+	2016	340	21.58	120	25.9	0.031
R	RP4	7+	2016	320	22.1	120	26.52	-0.123
R	RP4	7+	2016	300	20.05	120	24.06	0.046
R	RP4	7+	2016	280	20.82	120	24.98	0.0525
R	RP4	7+	2016	260	21.69	120	26.03	0.0605
R	RP4	7+	2016	240	22.7	120	27.24	0.0685
R	RP4	7+	2016	220	23.84	120	28.61	0.081
R	RP4	7+	2016	200	25.19	120	30.23	0.0965
R	RP4	7+	2016	180	26.8	120	32.16	0.1165
R	RP4	7+	2016	160	28.74	120	34.49	0.1445
R	RP4	7+	2016	140	31.15	120	37.38	0.187
R	RP4	7+	2016	120	34.27	120	41.12	0.251
R	RP4	7+	2016	100	38.45	120	46.14	0
R	RP4	8-	2016	99999999	10.8	120	12.96	0
R	RP4	8-	2016	1400	10.8	120	12.96	0.0035
R	RP4	8-	2016	1380	10.86	120	13.03	0.0035
R	RP4	8-	2016	1360	10.92	120	13.1	0.004
R	RP4	8-	2016	1340	10.98	120	13.18	0.0035
R	RP4	8-	2016	1320	11.04	120	13.25	0.0035
R	RP4	8-	2016	1300	11.1	120	13.32	0.0035
R	RP4	8-	2016	1280	11.16	120	13.39	0.005
R	RP4	8-	2016	1260	11.24	120	13.49	0.0045
R	RP4	8-	2016	1240	11.32	120	13.58	0.005
R	RP4	8-	2016	1220	11.4	120	13.68	0.005
R	RP4	8-	2016	1200	11.48	120	13.78	0.0045
R	RP4	8-	2016	1180	11.56	120	13.87	0.005
R	RP4	8-	2016	1160	11.64	120	13.97	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	8-	2016	1140	11.72	120	14.06	0.005
R	RP4	8-	2016	1120	11.8	120	14.16	0.0065
R	RP4	8-	2016	1100	11.91	120	14.29	0.0065
R	RP4	8-	2016	1080	12.02	120	14.42	0.007
R	RP4	8-	2016	1060	12.13	120	14.56	0.0065
R	RP4	8-	2016	1040	12.24	120	14.69	0.0065
R	RP4	8-	2016	1020	12.35	120	14.82	0.0065
R	RP4	8-	2016	1000	12.46	120	14.95	0.0065
R	RP4	8-	2016	980	12.57	120	15.08	0.01
R	RP4	8-	2016	960	12.73	120	15.28	0.0095
R	RP4	8-	2016	940	12.89	120	15.47	0.0095
R	RP4	8-	2016	920	13.05	120	15.66	0.0095
R	RP4	8-	2016	900	13.21	120	15.85	0.0095
R	RP4	8-	2016	880	13.37	120	16.04	0.01
R	RP4	8-	2016	860	13.53	120	16.24	0.0095
R	RP4	8-	2016	840	13.69	120	16.43	0.0095
R	RP4	8-	2016	820	13.85	120	16.62	0.0095
R	RP4	8-	2016	800	14.01	120	16.81	0.0125
R	RP4	8-	2016	780	14.22	120	17.06	0.013
R	RP4	8-	2016	760	14.43	120	17.32	0.0125
R	RP4	8-	2016	740	14.64	120	17.57	0.0125
R	RP4	8-	2016	720	14.85	120	17.82	0.0125
R	RP4	8-	2016	700	15.06	120	18.07	0.0125
R	RP4	8-	2016	680	15.27	120	18.32	0.013
R	RP4	8-	2016	660	15.48	120	18.58	0.016
R	RP4	8-	2016	640	15.75	120	18.9	0.017
R	RP4	8-	2016	620	16.03	120	19.24	0.0165
R	RP4	8-	2016	600	16.31	120	19.57	0.017
R	RP4	8-	2016	580	16.59	120	19.91	0.0165
R	RP4	8-	2016	560	16.87	120	20.24	0.0165
R	RP4	8-	2016	540	17.14	120	20.57	0.0175
R	RP4	8-	2016	520	17.43	120	20.92	0.006
R	RP4	8-	2016	500	17.53	120	21.04	0.025
R	RP4	8-	2016	480	17.95	120	21.54	0.0305
R	RP4	8-	2016	460	18.46	120	22.15	0.0315
R	RP4	8-	2016	440	18.98	120	22.78	0.031
R	RP4	8-	2016	420	19.5	120	23.4	0.031
R	RP4	8-	2016	400	20.02	120	24.02	0.0315
R	RP4	8-	2016	380	20.54	120	24.65	0.031
R	RP4	8-	2016	360	21.06	120	25.27	0.0315
R	RP4	8-	2016	340	21.58	120	25.9	0.031
R	RP4	8-	2016	320	22.1	120	26.52	-0.123
R	RP4	8-	2016	300	20.05	120	24.06	0.046
R	RP4	8-	2016	280	20.82	120	24.98	0.0525

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	8-	2016	260	21.69	120	26.03	0.0605
R	RP4	8-	2016	240	22.7	120	27.24	0.0685
R	RP4	8-	2016	220	23.84	120	28.61	0.081
R	RP4	8-	2016	200	25.19	120	30.23	0.0965
R	RP4	8-	2016	180	26.8	120	32.16	0.1165
R	RP4	8-	2016	160	28.74	120	34.49	0.1445
R	RP4	8-	2016	140	31.15	120	37.38	0.187
R	RP4	8-	2016	120	34.27	120	41.12	0.251
R	RP4	8-	2016	100	38.45	120	46.14	0
R	RP4	8+	2016	99999999	10.8	120	12.96	0
R	RP4	8+	2016	1400	10.8	120	12.96	0.0035
R	RP4	8+	2016	1380	10.86	120	13.03	0.0035
R	RP4	8+	2016	1360	10.92	120	13.1	0.004
R	RP4	8+	2016	1340	10.98	120	13.18	0.0035
R	RP4	8+	2016	1320	11.04	120	13.25	0.0035
R	RP4	8+	2016	1300	11.1	120	13.32	0.0035
R	RP4	8+	2016	1280	11.16	120	13.39	0.005
R	RP4	8+	2016	1260	11.24	120	13.49	0.0045
R	RP4	8+	2016	1240	11.32	120	13.58	0.005
R	RP4	8+	2016	1220	11.4	120	13.68	0.005
R	RP4	8+	2016	1200	11.48	120	13.78	0.0045
R	RP4	8+	2016	1180	11.56	120	13.87	0.005
R	RP4	8+	2016	1160	11.64	120	13.97	0.0045
R	RP4	8+	2016	1140	11.72	120	14.06	0.005
R	RP4	8+	2016	1120	11.8	120	14.16	0.0065
R	RP4	8+	2016	1100	11.91	120	14.29	0.0065
R	RP4	8+	2016	1080	12.02	120	14.42	0.007
R	RP4	8+	2016	1060	12.13	120	14.56	0.0065
R	RP4	8+	2016	1040	12.24	120	14.69	0.0065
R	RP4	8+	2016	1020	12.35	120	14.82	0.0065
R	RP4	8+	2016	1000	12.46	120	14.95	0.0065
R	RP4	8+	2016	980	12.57	120	15.08	0.01
R	RP4	8+	2016	960	12.73	120	15.28	0.0095
R	RP4	8+	2016	940	12.89	120	15.47	0.0095
R	RP4	8+	2016	920	13.05	120	15.66	0.0095
R	RP4	8+	2016	900	13.21	120	15.85	0.0095
R	RP4	8+	2016	880	13.37	120	16.04	0.01
R	RP4	8+	2016	860	13.53	120	16.24	0.0095
R	RP4	8+	2016	840	13.69	120	16.43	0.0095
R	RP4	8+	2016	820	13.85	120	16.62	0.0095
R	RP4	8+	2016	800	14.01	120	16.81	0.0125
R	RP4	8+	2016	780	14.22	120	17.06	0.013
R	RP4	8+	2016	760	14.43	120	17.32	0.0125
R	RP4	8+	2016	740	14.64	120	17.57	0.0125

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP4	8+	2016	720	14.85	120	17.82	0.0125
R	RP4	8+	2016	700	15.06	120	18.07	0.0125
R	RP4	8+	2016	680	15.27	120	18.32	0.013
R	RP4	8+	2016	660	15.48	120	18.58	0.016
R	RP4	8+	2016	640	15.75	120	18.9	0.017
R	RP4	8+	2016	620	16.03	120	19.24	0.0165
R	RP4	8+	2016	600	16.31	120	19.57	0.017
R	RP4	8+	2016	580	16.59	120	19.91	0.0165
R	RP4	8+	2016	560	16.87	120	20.24	0.0165
R	RP4	8+	2016	540	17.14	120	20.57	0.0175
R	RP4	8+	2016	520	17.43	120	20.92	0.006
R	RP4	8+	2016	500	17.53	120	21.04	0.025
R	RP4	8+	2016	480	17.95	120	21.54	0.0305
R	RP4	8+	2016	460	18.46	120	22.15	0.0315
R	RP4	8+	2016	440	18.98	120	22.78	0.031
R	RP4	8+	2016	420	19.5	120	23.4	0.031
R	RP4	8+	2016	400	20.02	120	24.02	0.0315
R	RP4	8+	2016	380	20.54	120	24.65	0.031
R	RP4	8+	2016	360	21.06	120	25.27	0.0315
R	RP4	8+	2016	340	21.58	120	25.9	0.031
R	RP4	8+	2016	320	22.1	120	26.52	-0.123
R	RP4	8+	2016	300	20.05	120	24.06	0.046
R	RP4	8+	2016	280	20.82	120	24.98	0.0525
R	RP4	8+	2016	260	21.69	120	26.03	0.0605
R	RP4	8+	2016	240	22.7	120	27.24	0.0685
R	RP4	8+	2016	220	23.84	120	28.61	0.081
R	RP4	8+	2016	200	25.19	120	30.23	0.0965
R	RP4	8+	2016	180	26.8	120	32.16	0.1165
R	RP4	8+	2016	160	28.74	120	34.49	0.1445
R	RP4	8+	2016	140	31.15	120	37.38	0.187
R	RP4	8+	2016	120	34.27	120	41.12	0.251
R	RP4	8+	2016	100	38.45	120	46.14	0
R	RP5	1	2016	99999999	15.35	80	12.28	0
R	RP5	1	2016	5000	15.35	80	12.28	0.00007
R	RP5	1	2016	4000	15.44	80	12.35	0.00007
R	RP5	1	2016	3000	15.53	80	12.42	0.00007
R	RP5	1	2016	2000	15.61	80	12.49	0.0007
R	RP5	1	2016	1900	15.7	80	12.56	0.0007
R	RP5	1	2016	1800	15.79	80	12.63	0.0007
R	RP5	1	2016	1700	15.88	80	12.7	0.0008
R	RP5	1	2016	1600	15.97	80	12.78	0.0006
R	RP5	1	2016	1500	16.05	80	12.84	0.0007
R	RP5	1	2016	1400	16.14	80	12.91	0.0035
R	RP5	1	2016	1380	16.23	80	12.98	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	1	2016	1360	16.32	80	13.06	0.0035
R	RP5	1	2016	1340	16.41	80	13.13	0.003
R	RP5	1	2016	1320	16.49	80	13.19	0.0035
R	RP5	1	2016	1300	16.58	80	13.26	0.004
R	RP5	1	2016	1280	16.67	80	13.34	0.0035
R	RP5	1	2016	1260	16.76	80	13.41	0.0035
R	RP5	1	2016	1240	16.85	80	13.48	0.003
R	RP5	1	2016	1220	16.93	80	13.54	0.004
R	RP5	1	2016	1200	17.02	80	13.62	0.0035
R	RP5	1	2016	1180	17.11	80	13.69	0.0035
R	RP5	1	2016	1160	17.2	80	13.76	0.0035
R	RP5	1	2016	1140	17.29	80	13.83	0.0035
R	RP5	1	2016	1120	17.37	80	13.9	0.0035
R	RP5	1	2016	1100	17.46	80	13.97	0.0035
R	RP5	1	2016	1080	17.55	80	14.04	0.0035
R	RP5	1	2016	1060	17.64	80	14.11	0.0035
R	RP5	1	2016	1040	17.73	80	14.18	0.0035
R	RP5	1	2016	1020	17.81	80	14.25	0.0035
R	RP5	1	2016	1000	17.9	80	14.32	0.0035
R	RP5	1	2016	980	17.99	80	14.39	0.0045
R	RP5	1	2016	960	18.1	80	14.48	0.0035
R	RP5	1	2016	940	18.19	80	14.55	0.0035
R	RP5	1	2016	920	18.27	80	14.62	0.0035
R	RP5	1	2016	900	18.36	80	14.69	0.003
R	RP5	1	2016	880	18.44	80	14.75	0.005
R	RP5	1	2016	860	18.56	80	14.85	0.003
R	RP5	1	2016	840	18.64	80	14.91	0.0035
R	RP5	1	2016	820	18.72	80	14.98	0.0035
R	RP5	1	2016	800	18.81	80	15.05	0.005
R	RP5	1	2016	780	18.94	80	15.15	0.0055
R	RP5	1	2016	760	19.07	80	15.26	0.005
R	RP5	1	2016	740	19.2	80	15.36	0.005
R	RP5	1	2016	720	19.33	80	15.46	0.0055
R	RP5	1	2016	700	19.46	80	15.57	0.005
R	RP5	1	2016	680	19.59	80	15.67	0.005
R	RP5	1	2016	660	19.71	80	15.77	0.0065
R	RP5	1	2016	640	19.88	80	15.9	0.0075
R	RP5	1	2016	620	20.06	80	16.05	0.0065
R	RP5	1	2016	600	20.23	80	16.18	0.0075
R	RP5	1	2016	580	20.41	80	16.33	0.007
R	RP5	1	2016	560	20.59	80	16.47	0.007
R	RP5	1	2016	540	20.76	80	16.61	0.007
R	RP5	1	2016	520	20.94	80	16.75	0.013
R	RP5	1	2016	500	21.26	80	17.01	0.013

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	1	2016	480	21.59	80	17.27	0.0135
R	RP5	1	2016	460	21.92	80	17.54	0.0125
R	RP5	1	2016	440	22.24	80	17.79	0.0135
R	RP5	1	2016	420	22.57	80	18.06	0.013
R	RP5	1	2016	400	22.9	80	18.32	0.013
R	RP5	1	2016	380	23.22	80	18.58	0.013
R	RP5	1	2016	360	23.55	80	18.84	0.0135
R	RP5	1	2016	340	23.89	80	19.11	0.013
R	RP5	1	2016	320	24.21	80	19.37	0.013
R	RP5	1	2016	300	24.54	80	19.63	0.016
R	RP5	1	2016	280	24.94	80	19.95	0.016
R	RP5	1	2016	260	25.34	80	20.27	0.016
R	RP5	1	2016	240	25.74	80	20.59	0.022
R	RP5	1	2016	220	26.29	80	21.03	0.022
R	RP5	1	2016	200	26.84	80	21.47	0.0425
R	RP5	1	2016	180	27.9	80	22.32	0.048
R	RP5	1	2016	160	29.1	80	23.28	0.048
R	RP5	1	2016	140	30.3	80	24.24	0.084
R	RP5	1	2016	120	32.4	80	25.92	0.088
R	RP5	1	2016	100	34.6	80	27.68	0
R	RP5	2	2016	99999999	15.35	80	12.28	0
R	RP5	2	2016	5000	15.35	80	12.28	0.00007
R	RP5	2	2016	4000	15.44	80	12.35	0.00007
R	RP5	2	2016	3000	15.53	80	12.42	0.00007
R	RP5	2	2016	2000	15.61	80	12.49	0.0007
R	RP5	2	2016	1900	15.7	80	12.56	0.0007
R	RP5	2	2016	1800	15.79	80	12.63	0.0007
R	RP5	2	2016	1700	15.88	80	12.7	0.0008
R	RP5	2	2016	1600	15.97	80	12.78	0.0006
R	RP5	2	2016	1500	16.05	80	12.84	0.0007
R	RP5	2	2016	1400	16.14	80	12.91	0.0035
R	RP5	2	2016	1380	16.23	80	12.98	0.004
R	RP5	2	2016	1360	16.32	80	13.06	0.0035
R	RP5	2	2016	1340	16.41	80	13.13	0.003
R	RP5	2	2016	1320	16.49	80	13.19	0.0035
R	RP5	2	2016	1300	16.58	80	13.26	0.004
R	RP5	2	2016	1280	16.67	80	13.34	0.0035
R	RP5	2	2016	1260	16.76	80	13.41	0.0035
R	RP5	2	2016	1240	16.85	80	13.48	0.003
R	RP5	2	2016	1220	16.93	80	13.54	0.004
R	RP5	2	2016	1200	17.02	80	13.62	0.0035
R	RP5	2	2016	1180	17.11	80	13.69	0.0035
R	RP5	2	2016	1160	17.2	80	13.76	0.0035
R	RP5	2	2016	1140	17.29	80	13.83	0.0035

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	2	2016	1120	17.37	80	13.9	0.0035
R	RP5	2	2016	1100	17.46	80	13.97	0.0035
R	RP5	2	2016	1080	17.55	80	14.04	0.0035
R	RP5	2	2016	1060	17.64	80	14.11	0.0035
R	RP5	2	2016	1040	17.73	80	14.18	0.0035
R	RP5	2	2016	1020	17.81	80	14.25	0.0035
R	RP5	2	2016	1000	17.9	80	14.32	0.0035
R	RP5	2	2016	980	17.99	80	14.39	0.0045
R	RP5	2	2016	960	18.1	80	14.48	0.0035
R	RP5	2	2016	940	18.19	80	14.55	0.0035
R	RP5	2	2016	920	18.27	80	14.62	0.0035
R	RP5	2	2016	900	18.36	80	14.69	0.003
R	RP5	2	2016	880	18.44	80	14.75	0.005
R	RP5	2	2016	860	18.56	80	14.85	0.003
R	RP5	2	2016	840	18.64	80	14.91	0.0035
R	RP5	2	2016	820	18.72	80	14.98	0.0035
R	RP5	2	2016	800	18.81	80	15.05	0.005
R	RP5	2	2016	780	18.94	80	15.15	0.0055
R	RP5	2	2016	760	19.07	80	15.26	0.005
R	RP5	2	2016	740	19.2	80	15.36	0.005
R	RP5	2	2016	720	19.33	80	15.46	0.0055
R	RP5	2	2016	700	19.46	80	15.57	0.005
R	RP5	2	2016	680	19.59	80	15.67	0.005
R	RP5	2	2016	660	19.71	80	15.77	0.0065
R	RP5	2	2016	640	19.88	80	15.9	0.0075
R	RP5	2	2016	620	20.06	80	16.05	0.0065
R	RP5	2	2016	600	20.23	80	16.18	0.0075
R	RP5	2	2016	580	20.41	80	16.33	0.007
R	RP5	2	2016	560	20.59	80	16.47	0.007
R	RP5	2	2016	540	20.76	80	16.61	0.007
R	RP5	2	2016	520	20.94	80	16.75	0.013
R	RP5	2	2016	500	21.26	80	17.01	0.013
R	RP5	2	2016	480	21.59	80	17.27	0.0135
R	RP5	2	2016	460	21.92	80	17.54	0.0125
R	RP5	2	2016	440	22.24	80	17.79	0.0135
R	RP5	2	2016	420	22.57	80	18.06	0.013
R	RP5	2	2016	400	22.9	80	18.32	0.013
R	RP5	2	2016	380	23.22	80	18.58	0.013
R	RP5	2	2016	360	23.55	80	18.84	0.0135
R	RP5	2	2016	340	23.89	80	19.11	0.013
R	RP5	2	2016	320	24.21	80	19.37	0.013
R	RP5	2	2016	300	24.54	80	19.63	0.016
R	RP5	2	2016	280	24.94	80	19.95	0.016
R	RP5	2	2016	260	25.34	80	20.27	0.016

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	2	2016	240	25.74	80	20.59	0.022
R	RP5	2	2016	220	26.29	80	21.03	0.022
R	RP5	2	2016	200	26.84	80	21.47	0.0425
R	RP5	2	2016	180	27.9	80	22.32	0.048
R	RP5	2	2016	160	29.1	80	23.28	0.048
R	RP5	2	2016	140	30.3	80	24.24	0.084
R	RP5	2	2016	120	32.4	80	25.92	0.088
R	RP5	2	2016	100	34.6	80	27.68	0
R	RP5	3	2016	9999999	15.35	80	12.28	0
R	RP5	3	2016	5000	15.35	80	12.28	0.00007
R	RP5	3	2016	4000	15.44	80	12.35	0.00007
R	RP5	3	2016	3000	15.53	80	12.42	0.00007
R	RP5	3	2016	2000	15.61	80	12.49	0.0007
R	RP5	3	2016	1900	15.7	80	12.56	0.0007
R	RP5	3	2016	1800	15.79	80	12.63	0.0007
R	RP5	3	2016	1700	15.88	80	12.7	0.0008
R	RP5	3	2016	1600	15.97	80	12.78	0.0006
R	RP5	3	2016	1500	16.05	80	12.84	0.0007
R	RP5	3	2016	1400	16.14	80	12.91	0.0035
R	RP5	3	2016	1380	16.23	80	12.98	0.004
R	RP5	3	2016	1360	16.32	80	13.06	0.0035
R	RP5	3	2016	1340	16.41	80	13.13	0.003
R	RP5	3	2016	1320	16.49	80	13.19	0.0035
R	RP5	3	2016	1300	16.58	80	13.26	0.004
R	RP5	3	2016	1280	16.67	80	13.34	0.0035
R	RP5	3	2016	1260	16.76	80	13.41	0.0035
R	RP5	3	2016	1240	16.85	80	13.48	0.003
R	RP5	3	2016	1220	16.93	80	13.54	0.004
R	RP5	3	2016	1200	17.02	80	13.62	0.0035
R	RP5	3	2016	1180	17.11	80	13.69	0.0035
R	RP5	3	2016	1160	17.2	80	13.76	0.0035
R	RP5	3	2016	1140	17.29	80	13.83	0.0035
R	RP5	3	2016	1120	17.37	80	13.9	0.0035
R	RP5	3	2016	1100	17.46	80	13.97	0.0035
R	RP5	3	2016	1080	17.55	80	14.04	0.0035
R	RP5	3	2016	1060	17.64	80	14.11	0.0035
R	RP5	3	2016	1040	17.73	80	14.18	0.0035
R	RP5	3	2016	1020	17.81	80	14.25	0.0035
R	RP5	3	2016	1000	17.9	80	14.32	0.0035
R	RP5	3	2016	980	17.99	80	14.39	0.0045
R	RP5	3	2016	960	18.1	80	14.48	0.0035
R	RP5	3	2016	940	18.19	80	14.55	0.0035
R	RP5	3	2016	920	18.27	80	14.62	0.0035
R	RP5	3	2016	900	18.36	80	14.69	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	3	2016	880	18.44	80	14.75	0.005
R	RP5	3	2016	860	18.56	80	14.85	0.003
R	RP5	3	2016	840	18.64	80	14.91	0.0035
R	RP5	3	2016	820	18.72	80	14.98	0.0035
R	RP5	3	2016	800	18.81	80	15.05	0.005
R	RP5	3	2016	780	18.94	80	15.15	0.0055
R	RP5	3	2016	760	19.07	80	15.26	0.005
R	RP5	3	2016	740	19.2	80	15.36	0.005
R	RP5	3	2016	720	19.33	80	15.46	0.0055
R	RP5	3	2016	700	19.46	80	15.57	0.005
R	RP5	3	2016	680	19.59	80	15.67	0.005
R	RP5	3	2016	660	19.71	80	15.77	0.0065
R	RP5	3	2016	640	19.88	80	15.9	0.0075
R	RP5	3	2016	620	20.06	80	16.05	0.0065
R	RP5	3	2016	600	20.23	80	16.18	0.0075
R	RP5	3	2016	580	20.41	80	16.33	0.007
R	RP5	3	2016	560	20.59	80	16.47	0.007
R	RP5	3	2016	540	20.76	80	16.61	0.007
R	RP5	3	2016	520	20.94	80	16.75	0.013
R	RP5	3	2016	500	21.26	80	17.01	0.013
R	RP5	3	2016	480	21.59	80	17.27	0.0135
R	RP5	3	2016	460	21.92	80	17.54	0.0125
R	RP5	3	2016	440	22.24	80	17.79	0.0135
R	RP5	3	2016	420	22.57	80	18.06	0.013
R	RP5	3	2016	400	22.9	80	18.32	0.013
R	RP5	3	2016	380	23.22	80	18.58	0.013
R	RP5	3	2016	360	23.55	80	18.84	0.0135
R	RP5	3	2016	340	23.89	80	19.11	0.013
R	RP5	3	2016	320	24.21	80	19.37	0.013
R	RP5	3	2016	300	24.54	80	19.63	0.016
R	RP5	3	2016	280	24.94	80	19.95	0.016
R	RP5	3	2016	260	25.34	80	20.27	0.016
R	RP5	3	2016	240	25.74	80	20.59	0.022
R	RP5	3	2016	220	26.29	80	21.03	0.022
R	RP5	3	2016	200	26.84	80	21.47	0.0425
R	RP5	3	2016	180	27.9	80	22.32	0.048
R	RP5	3	2016	160	29.1	80	23.28	0.048
R	RP5	3	2016	140	30.3	80	24.24	0.084
R	RP5	3	2016	120	32.4	80	25.92	0.088
R	RP5	3	2016	100	34.6	80	27.68	0
R	RP5	4	2016	99999999	15.35	115	17.65	0
R	RP5	4	2016	5000	15.35	115	17.65	0.00011
R	RP5	4	2016	4000	15.44	115	17.76	0.0001
R	RP5	4	2016	3000	15.53	115	17.86	0.00009

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	4	2016	2000	15.61	115	17.95	0.0011
R	RP5	4	2016	1900	15.7	115	18.06	0.001
R	RP5	4	2016	1800	15.79	115	18.16	0.001
R	RP5	4	2016	1700	15.88	115	18.26	0.0011
R	RP5	4	2016	1600	15.97	115	18.37	0.0009
R	RP5	4	2016	1500	16.05	115	18.46	0.001
R	RP5	4	2016	1400	16.14	115	18.56	0.005
R	RP5	4	2016	1380	16.23	115	18.66	0.0055
R	RP5	4	2016	1360	16.32	115	18.77	0.005
R	RP5	4	2016	1340	16.41	115	18.87	0.0045
R	RP5	4	2016	1320	16.49	115	18.96	0.0055
R	RP5	4	2016	1300	16.58	115	19.07	0.005
R	RP5	4	2016	1280	16.67	115	19.17	0.005
R	RP5	4	2016	1260	16.76	115	19.27	0.0055
R	RP5	4	2016	1240	16.85	115	19.38	0.0045
R	RP5	4	2016	1220	16.93	115	19.47	0.005
R	RP5	4	2016	1200	17.02	115	19.57	0.0055
R	RP5	4	2016	1180	17.11	115	19.68	0.005
R	RP5	4	2016	1160	17.2	115	19.78	0.005
R	RP5	4	2016	1140	17.29	115	19.88	0.005
R	RP5	4	2016	1120	17.37	115	19.98	0.005
R	RP5	4	2016	1100	17.46	115	20.08	0.005
R	RP5	4	2016	1080	17.55	115	20.18	0.0055
R	RP5	4	2016	1060	17.64	115	20.29	0.005
R	RP5	4	2016	1040	17.73	115	20.39	0.0045
R	RP5	4	2016	1020	17.81	115	20.48	0.0055
R	RP5	4	2016	1000	17.9	115	20.59	0.005
R	RP5	4	2016	980	17.99	115	20.69	0.0065
R	RP5	4	2016	960	18.1	115	20.82	0.005
R	RP5	4	2016	940	18.19	115	20.92	0.0045
R	RP5	4	2016	920	18.27	115	21.01	0.005
R	RP5	4	2016	900	18.36	115	21.11	0.005
R	RP5	4	2016	880	18.44	115	21.21	0.0065
R	RP5	4	2016	860	18.56	115	21.34	0.005
R	RP5	4	2016	840	18.64	115	21.44	0.0045
R	RP5	4	2016	820	18.72	115	21.53	0.005
R	RP5	4	2016	800	18.81	115	21.63	0.0075
R	RP5	4	2016	780	18.94	115	21.78	0.0075
R	RP5	4	2016	760	19.07	115	21.93	0.0075
R	RP5	4	2016	740	19.2	115	22.08	0.0075
R	RP5	4	2016	720	19.33	115	22.23	0.0075
R	RP5	4	2016	700	19.46	115	22.38	0.0075
R	RP5	4	2016	680	19.59	115	22.53	0.007
R	RP5	4	2016	660	19.71	115	22.67	0.0095

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	4	2016	640	19.88	115	22.86	0.0105
R	RP5	4	2016	620	20.06	115	23.07	0.0095
R	RP5	4	2016	600	20.23	115	23.26	0.0105
R	RP5	4	2016	580	20.41	115	23.47	0.0105
R	RP5	4	2016	560	20.59	115	23.68	0.0095
R	RP5	4	2016	540	20.76	115	23.87	0.0105
R	RP5	4	2016	520	20.94	115	24.08	0.0185
R	RP5	4	2016	500	21.26	115	24.45	0.019
R	RP5	4	2016	480	21.59	115	24.83	0.019
R	RP5	4	2016	460	21.92	115	25.21	0.0185
R	RP5	4	2016	440	22.24	115	25.58	0.019
R	RP5	4	2016	420	22.57	115	25.96	0.019
R	RP5	4	2016	400	22.9	115	26.34	0.018
R	RP5	4	2016	380	23.22	115	26.7	0.019
R	RP5	4	2016	360	23.55	115	27.08	0.0195
R	RP5	4	2016	340	23.89	115	27.47	0.0185
R	RP5	4	2016	320	24.21	115	27.84	0.019
R	RP5	4	2016	300	24.54	115	28.22	0.023
R	RP5	4	2016	280	24.94	115	28.68	0.023
R	RP5	4	2016	260	25.34	115	29.14	0.023
R	RP5	4	2016	240	25.74	115	29.6	0.0315
R	RP5	4	2016	220	26.29	115	30.23	0.032
R	RP5	4	2016	200	26.84	115	30.87	0.061
R	RP5	4	2016	180	27.9	115	32.09	0.069
R	RP5	4	2016	160	29.1	115	33.47	0.0685
R	RP5	4	2016	140	30.3	115	34.84	0.121
R	RP5	4	2016	120	32.4	115	37.26	0.1265
R	RP5	4	2016	100	34.6	115	39.79	0
R	RP5	5	2016	99999999	15.35	130	19.96	0
R	RP5	5	2016	5000	15.35	130	19.96	0.00011
R	RP5	5	2016	4000	15.44	130	20.07	0.00012
R	RP5	5	2016	3000	15.53	130	20.19	0.0001
R	RP5	5	2016	2000	15.61	130	20.29	0.0012
R	RP5	5	2016	1900	15.7	130	20.41	0.0012
R	RP5	5	2016	1800	15.79	130	20.53	0.0011
R	RP5	5	2016	1700	15.88	130	20.64	0.0012
R	RP5	5	2016	1600	15.97	130	20.76	0.0011
R	RP5	5	2016	1500	16.05	130	20.87	0.0011
R	RP5	5	2016	1400	16.14	130	20.98	0.006
R	RP5	5	2016	1380	16.23	130	21.1	0.006
R	RP5	5	2016	1360	16.32	130	21.22	0.0055
R	RP5	5	2016	1340	16.41	130	21.33	0.0055
R	RP5	5	2016	1320	16.49	130	21.44	0.0055
R	RP5	5	2016	1300	16.58	130	21.55	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	5	2016	1280	16.67	130	21.67	0.006
R	RP5	5	2016	1260	16.76	130	21.79	0.006
R	RP5	5	2016	1240	16.85	130	21.91	0.005
R	RP5	5	2016	1220	16.93	130	22.01	0.006
R	RP5	5	2016	1200	17.02	130	22.13	0.0055
R	RP5	5	2016	1180	17.11	130	22.24	0.006
R	RP5	5	2016	1160	17.2	130	22.36	0.006
R	RP5	5	2016	1140	17.29	130	22.48	0.005
R	RP5	5	2016	1120	17.37	130	22.58	0.006
R	RP5	5	2016	1100	17.46	130	22.7	0.006
R	RP5	5	2016	1080	17.55	130	22.82	0.0055
R	RP5	5	2016	1060	17.64	130	22.93	0.006
R	RP5	5	2016	1040	17.73	130	23.05	0.005
R	RP5	5	2016	1020	17.81	130	23.15	0.006
R	RP5	5	2016	1000	17.9	130	23.27	0.006
R	RP5	5	2016	980	17.99	130	23.39	0.007
R	RP5	5	2016	960	18.1	130	23.53	0.006
R	RP5	5	2016	940	18.19	130	23.65	0.005
R	RP5	5	2016	920	18.27	130	23.75	0.006
R	RP5	5	2016	900	18.36	130	23.87	0.005
R	RP5	5	2016	880	18.44	130	23.97	0.008
R	RP5	5	2016	860	18.56	130	24.13	0.005
R	RP5	5	2016	840	18.64	130	24.23	0.0055
R	RP5	5	2016	820	18.72	130	24.34	0.0055
R	RP5	5	2016	800	18.81	130	24.45	0.0085
R	RP5	5	2016	780	18.94	130	24.62	0.0085
R	RP5	5	2016	760	19.07	130	24.79	0.0085
R	RP5	5	2016	740	19.2	130	24.96	0.0085
R	RP5	5	2016	720	19.33	130	25.13	0.0085
R	RP5	5	2016	700	19.46	130	25.3	0.0085
R	RP5	5	2016	680	19.59	130	25.47	0.0075
R	RP5	5	2016	660	19.71	130	25.62	0.011
R	RP5	5	2016	640	19.88	130	25.84	0.012
R	RP5	5	2016	620	20.06	130	26.08	0.011
R	RP5	5	2016	600	20.23	130	26.3	0.0115
R	RP5	5	2016	580	20.41	130	26.53	0.012
R	RP5	5	2016	560	20.59	130	26.77	0.011
R	RP5	5	2016	540	20.76	130	26.99	0.0115
R	RP5	5	2016	520	20.94	130	27.22	0.021
R	RP5	5	2016	500	21.26	130	27.64	0.0215
R	RP5	5	2016	480	21.59	130	28.07	0.0215
R	RP5	5	2016	460	21.92	130	28.5	0.0205
R	RP5	5	2016	440	22.24	130	28.91	0.0215
R	RP5	5	2016	420	22.57	130	29.34	0.0215

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	5	2016	400	22.9	130	29.77	0.021
R	RP5	5	2016	380	23.22	130	30.19	0.0215
R	RP5	5	2016	360	23.55	130	30.62	0.022
R	RP5	5	2016	340	23.89	130	31.06	0.0205
R	RP5	5	2016	320	24.21	130	31.47	0.0215
R	RP5	5	2016	300	24.54	130	31.9	0.026
R	RP5	5	2016	280	24.94	130	32.42	0.026
R	RP5	5	2016	260	25.34	130	32.94	0.026
R	RP5	5	2016	240	25.74	130	33.46	0.036
R	RP5	5	2016	220	26.29	130	34.18	0.0355
R	RP5	5	2016	200	26.84	130	34.89	0.069
R	RP5	5	2016	180	27.9	130	36.27	0.078
R	RP5	5	2016	160	29.1	130	37.83	0.078
R	RP5	5	2016	140	30.3	130	39.39	0.1365
R	RP5	5	2016	120	32.4	130	42.12	0.143
R	RP5	5	2016	100	34.6	130	44.98	0
R	RP5	6	2016	99999999	15.35	130	19.96	0
R	RP5	6	2016	5000	15.35	130	19.96	0.00011
R	RP5	6	2016	4000	15.44	130	20.07	0.00012
R	RP5	6	2016	3000	15.53	130	20.19	0.0001
R	RP5	6	2016	2000	15.61	130	20.29	0.0012
R	RP5	6	2016	1900	15.7	130	20.41	0.0012
R	RP5	6	2016	1800	15.79	130	20.53	0.0011
R	RP5	6	2016	1700	15.88	130	20.64	0.0012
R	RP5	6	2016	1600	15.97	130	20.76	0.0011
R	RP5	6	2016	1500	16.05	130	20.87	0.0011
R	RP5	6	2016	1400	16.14	130	20.98	0.006
R	RP5	6	2016	1380	16.23	130	21.1	0.006
R	RP5	6	2016	1360	16.32	130	21.22	0.0055
R	RP5	6	2016	1340	16.41	130	21.33	0.0055
R	RP5	6	2016	1320	16.49	130	21.44	0.0055
R	RP5	6	2016	1300	16.58	130	21.55	0.006
R	RP5	6	2016	1280	16.67	130	21.67	0.006
R	RP5	6	2016	1260	16.76	130	21.79	0.006
R	RP5	6	2016	1240	16.85	130	21.91	0.005
R	RP5	6	2016	1220	16.93	130	22.01	0.006
R	RP5	6	2016	1200	17.02	130	22.13	0.0055
R	RP5	6	2016	1180	17.11	130	22.24	0.006
R	RP5	6	2016	1160	17.2	130	22.36	0.006
R	RP5	6	2016	1140	17.29	130	22.48	0.005
R	RP5	6	2016	1120	17.37	130	22.58	0.006
R	RP5	6	2016	1100	17.46	130	22.7	0.006
R	RP5	6	2016	1080	17.55	130	22.82	0.0055
R	RP5	6	2016	1060	17.64	130	22.93	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	6	2016	1040	17.73	130	23.05	0.005
R	RP5	6	2016	1020	17.81	130	23.15	0.006
R	RP5	6	2016	1000	17.9	130	23.27	0.006
R	RP5	6	2016	980	17.99	130	23.39	0.007
R	RP5	6	2016	960	18.1	130	23.53	0.006
R	RP5	6	2016	940	18.19	130	23.65	0.005
R	RP5	6	2016	920	18.27	130	23.75	0.006
R	RP5	6	2016	900	18.36	130	23.87	0.005
R	RP5	6	2016	880	18.44	130	23.97	0.008
R	RP5	6	2016	860	18.56	130	24.13	0.005
R	RP5	6	2016	840	18.64	130	24.23	0.0055
R	RP5	6	2016	820	18.72	130	24.34	0.0055
R	RP5	6	2016	800	18.81	130	24.45	0.0085
R	RP5	6	2016	780	18.94	130	24.62	0.0085
R	RP5	6	2016	760	19.07	130	24.79	0.0085
R	RP5	6	2016	740	19.2	130	24.96	0.0085
R	RP5	6	2016	720	19.33	130	25.13	0.0085
R	RP5	6	2016	700	19.46	130	25.3	0.0085
R	RP5	6	2016	680	19.59	130	25.47	0.0075
R	RP5	6	2016	660	19.71	130	25.62	0.011
R	RP5	6	2016	640	19.88	130	25.84	0.012
R	RP5	6	2016	620	20.06	130	26.08	0.011
R	RP5	6	2016	600	20.23	130	26.3	0.0115
R	RP5	6	2016	580	20.41	130	26.53	0.012
R	RP5	6	2016	560	20.59	130	26.77	0.011
R	RP5	6	2016	540	20.76	130	26.99	0.0115
R	RP5	6	2016	520	20.94	130	27.22	0.021
R	RP5	6	2016	500	21.26	130	27.64	0.0215
R	RP5	6	2016	480	21.59	130	28.07	0.0215
R	RP5	6	2016	460	21.92	130	28.5	0.0205
R	RP5	6	2016	440	22.24	130	28.91	0.0215
R	RP5	6	2016	420	22.57	130	29.34	0.0215
R	RP5	6	2016	400	22.9	130	29.77	0.021
R	RP5	6	2016	380	23.22	130	30.19	0.0215
R	RP5	6	2016	360	23.55	130	30.62	0.022
R	RP5	6	2016	340	23.89	130	31.06	0.0205
R	RP5	6	2016	320	24.21	130	31.47	0.0215
R	RP5	6	2016	300	24.54	130	31.9	0.026
R	RP5	6	2016	280	24.94	130	32.42	0.026
R	RP5	6	2016	260	25.34	130	32.94	0.026
R	RP5	6	2016	240	25.74	130	33.46	0.036
R	RP5	6	2016	220	26.29	130	34.18	0.0355
R	RP5	6	2016	200	26.84	130	34.89	0.069
R	RP5	6	2016	180	27.9	130	36.27	0.078

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	6	2016	160	29.1	130	37.83	0.078
R	RP5	6	2016	140	30.3	130	39.39	0.1365
R	RP5	6	2016	120	32.4	130	42.12	0.143
R	RP5	6	2016	100	34.6	130	44.98	0
R	RP5	7	2016	99999999	15.35	140	21.49	0
R	RP5	7	2016	5000	15.35	140	21.49	0.00013
R	RP5	7	2016	4000	15.44	140	21.62	0.00012
R	RP5	7	2016	3000	15.53	140	21.74	0.00011
R	RP5	7	2016	2000	15.61	140	21.85	0.0013
R	RP5	7	2016	1900	15.7	140	21.98	0.0013
R	RP5	7	2016	1800	15.79	140	22.11	0.0012
R	RP5	7	2016	1700	15.88	140	22.23	0.0013
R	RP5	7	2016	1600	15.97	140	22.36	0.0011
R	RP5	7	2016	1500	16.05	140	22.47	0.0013
R	RP5	7	2016	1400	16.14	140	22.6	0.006
R	RP5	7	2016	1380	16.23	140	22.72	0.0065
R	RP5	7	2016	1360	16.32	140	22.85	0.006
R	RP5	7	2016	1340	16.41	140	22.97	0.006
R	RP5	7	2016	1320	16.49	140	23.09	0.006
R	RP5	7	2016	1300	16.58	140	23.21	0.0065
R	RP5	7	2016	1280	16.67	140	23.34	0.006
R	RP5	7	2016	1260	16.76	140	23.46	0.0065
R	RP5	7	2016	1240	16.85	140	23.59	0.0055
R	RP5	7	2016	1220	16.93	140	23.7	0.0065
R	RP5	7	2016	1200	17.02	140	23.83	0.006
R	RP5	7	2016	1180	17.11	140	23.95	0.0065
R	RP5	7	2016	1160	17.2	140	24.08	0.0065
R	RP5	7	2016	1140	17.29	140	24.21	0.0055
R	RP5	7	2016	1120	17.37	140	24.32	0.006
R	RP5	7	2016	1100	17.46	140	24.44	0.0065
R	RP5	7	2016	1080	17.55	140	24.57	0.0065
R	RP5	7	2016	1060	17.64	140	24.7	0.006
R	RP5	7	2016	1040	17.73	140	24.82	0.0055
R	RP5	7	2016	1020	17.81	140	24.93	0.0065
R	RP5	7	2016	1000	17.9	140	25.06	0.0065
R	RP5	7	2016	980	17.99	140	25.19	0.0075
R	RP5	7	2016	960	18.1	140	25.34	0.0065
R	RP5	7	2016	940	18.19	140	25.47	0.0055
R	RP5	7	2016	920	18.27	140	25.58	0.006
R	RP5	7	2016	900	18.36	140	25.7	0.006
R	RP5	7	2016	880	18.44	140	25.82	0.008
R	RP5	7	2016	860	18.56	140	25.98	0.006
R	RP5	7	2016	840	18.64	140	26.1	0.0055
R	RP5	7	2016	820	18.72	140	26.21	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	7	2016	800	18.81	140	26.33	0.0095
R	RP5	7	2016	780	18.94	140	26.52	0.009
R	RP5	7	2016	760	19.07	140	26.7	0.009
R	RP5	7	2016	740	19.2	140	26.88	0.009
R	RP5	7	2016	720	19.33	140	27.06	0.009
R	RP5	7	2016	700	19.46	140	27.24	0.0095
R	RP5	7	2016	680	19.59	140	27.43	0.008
R	RP5	7	2016	660	19.71	140	27.59	0.012
R	RP5	7	2016	640	19.88	140	27.83	0.0125
R	RP5	7	2016	620	20.06	140	28.08	0.012
R	RP5	7	2016	600	20.23	140	28.32	0.0125
R	RP5	7	2016	580	20.41	140	28.57	0.013
R	RP5	7	2016	560	20.59	140	28.83	0.0115
R	RP5	7	2016	540	20.76	140	29.06	0.013
R	RP5	7	2016	520	20.94	140	29.32	0.022
R	RP5	7	2016	500	21.26	140	29.76	0.0235
R	RP5	7	2016	480	21.59	140	30.23	0.023
R	RP5	7	2016	460	21.92	140	30.69	0.0225
R	RP5	7	2016	440	22.24	140	31.14	0.023
R	RP5	7	2016	420	22.57	140	31.6	0.023
R	RP5	7	2016	400	22.9	140	32.06	0.0225
R	RP5	7	2016	380	23.22	140	32.51	0.023
R	RP5	7	2016	360	23.55	140	32.97	0.024
R	RP5	7	2016	340	23.89	140	33.45	0.022
R	RP5	7	2016	320	24.21	140	33.89	0.0235
R	RP5	7	2016	300	24.54	140	34.36	0.028
R	RP5	7	2016	280	24.94	140	34.92	0.028
R	RP5	7	2016	260	25.34	140	35.48	0.028
R	RP5	7	2016	240	25.74	140	36.04	0.0385
R	RP5	7	2016	220	26.29	140	36.81	0.0385
R	RP5	7	2016	200	26.84	140	37.58	0.074
R	RP5	7	2016	180	27.9	140	39.06	0.084
R	RP5	7	2016	160	29.1	140	40.74	0.084
R	RP5	7	2016	140	30.3	140	42.42	0.147
R	RP5	7	2016	120	32.4	140	45.36	0.154
R	RP5	7	2016	100	34.6	140	48.44	0
R	RP5	8	2016	99999999	15.35	140	21.49	0
R	RP5	8	2016	5000	15.35	140	21.49	0.00013
R	RP5	8	2016	4000	15.44	140	21.62	0.00012
R	RP5	8	2016	3000	15.53	140	21.74	0.00011
R	RP5	8	2016	2000	15.61	140	21.85	0.0013
R	RP5	8	2016	1900	15.7	140	21.98	0.0013
R	RP5	8	2016	1800	15.79	140	22.11	0.0012
R	RP5	8	2016	1700	15.88	140	22.23	0.0013

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	8	2016	1600	15.97	140	22.36	0.0011
R	RP5	8	2016	1500	16.05	140	22.47	0.0013
R	RP5	8	2016	1400	16.14	140	22.6	0.006
R	RP5	8	2016	1380	16.23	140	22.72	0.0065
R	RP5	8	2016	1360	16.32	140	22.85	0.006
R	RP5	8	2016	1340	16.41	140	22.97	0.006
R	RP5	8	2016	1320	16.49	140	23.09	0.006
R	RP5	8	2016	1300	16.58	140	23.21	0.0065
R	RP5	8	2016	1280	16.67	140	23.34	0.006
R	RP5	8	2016	1260	16.76	140	23.46	0.0065
R	RP5	8	2016	1240	16.85	140	23.59	0.0055
R	RP5	8	2016	1220	16.93	140	23.7	0.0065
R	RP5	8	2016	1200	17.02	140	23.83	0.006
R	RP5	8	2016	1180	17.11	140	23.95	0.0065
R	RP5	8	2016	1160	17.2	140	24.08	0.0065
R	RP5	8	2016	1140	17.29	140	24.21	0.0055
R	RP5	8	2016	1120	17.37	140	24.32	0.006
R	RP5	8	2016	1100	17.46	140	24.44	0.0065
R	RP5	8	2016	1080	17.55	140	24.57	0.0065
R	RP5	8	2016	1060	17.64	140	24.7	0.006
R	RP5	8	2016	1040	17.73	140	24.82	0.0055
R	RP5	8	2016	1020	17.81	140	24.93	0.0065
R	RP5	8	2016	1000	17.9	140	25.06	0.0065
R	RP5	8	2016	980	17.99	140	25.19	0.0075
R	RP5	8	2016	960	18.1	140	25.34	0.0065
R	RP5	8	2016	940	18.19	140	25.47	0.0055
R	RP5	8	2016	920	18.27	140	25.58	0.006
R	RP5	8	2016	900	18.36	140	25.7	0.006
R	RP5	8	2016	880	18.44	140	25.82	0.008
R	RP5	8	2016	860	18.56	140	25.98	0.006
R	RP5	8	2016	840	18.64	140	26.1	0.0055
R	RP5	8	2016	820	18.72	140	26.21	0.006
R	RP5	8	2016	800	18.81	140	26.33	0.0095
R	RP5	8	2016	780	18.94	140	26.52	0.009
R	RP5	8	2016	760	19.07	140	26.7	0.009
R	RP5	8	2016	740	19.2	140	26.88	0.009
R	RP5	8	2016	720	19.33	140	27.06	0.009
R	RP5	8	2016	700	19.46	140	27.24	0.0095
R	RP5	8	2016	680	19.59	140	27.43	0.008
R	RP5	8	2016	660	19.71	140	27.59	0.012
R	RP5	8	2016	640	19.88	140	27.83	0.0125
R	RP5	8	2016	620	20.06	140	28.08	0.012
R	RP5	8	2016	600	20.23	140	28.32	0.0125
R	RP5	8	2016	580	20.41	140	28.57	0.013

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	8	2016	560	20.59	140	28.83	0.0115
R	RP5	8	2016	540	20.76	140	29.06	0.013
R	RP5	8	2016	520	20.94	140	29.32	0.022
R	RP5	8	2016	500	21.26	140	29.76	0.0235
R	RP5	8	2016	480	21.59	140	30.23	0.023
R	RP5	8	2016	460	21.92	140	30.69	0.0225
R	RP5	8	2016	440	22.24	140	31.14	0.023
R	RP5	8	2016	420	22.57	140	31.6	0.023
R	RP5	8	2016	400	22.9	140	32.06	0.0225
R	RP5	8	2016	380	23.22	140	32.51	0.023
R	RP5	8	2016	360	23.55	140	32.97	0.024
R	RP5	8	2016	340	23.89	140	33.45	0.022
R	RP5	8	2016	320	24.21	140	33.89	0.0235
R	RP5	8	2016	300	24.54	140	34.36	0.028
R	RP5	8	2016	280	24.94	140	34.92	0.028
R	RP5	8	2016	260	25.34	140	35.48	0.028
R	RP5	8	2016	240	25.74	140	36.04	0.0385
R	RP5	8	2016	220	26.29	140	36.81	0.0385
R	RP5	8	2016	200	26.84	140	37.58	0.074
R	RP5	8	2016	180	27.9	140	39.06	0.084
R	RP5	8	2016	160	29.1	140	40.74	0.084
R	RP5	8	2016	140	30.3	140	42.42	0.147
R	RP5	8	2016	120	32.4	140	45.36	0.154
R	RP5	8	2016	100	34.6	140	48.44	0
R	RP5	*	2016	99999999	15.35	100	15.35	0
R	RP5	*	2016	5000	15.35	100	15.35	0.00009
R	RP5	*	2016	4000	15.44	100	15.44	0.00009
R	RP5	*	2016	3000	15.53	100	15.53	0.00008
R	RP5	*	2016	2000	15.61	100	15.61	0.0009
R	RP5	*	2016	1900	15.7	100	15.7	0.0009
R	RP5	*	2016	1800	15.79	100	15.79	0.0009
R	RP5	*	2016	1700	15.88	100	15.88	0.0009
R	RP5	*	2016	1600	15.97	100	15.97	0.0008
R	RP5	*	2016	1500	16.05	100	16.05	0.0009
R	RP5	*	2016	1400	16.14	100	16.14	0.0045
R	RP5	*	2016	1380	16.23	100	16.23	0.0045
R	RP5	*	2016	1360	16.32	100	16.32	0.0045
R	RP5	*	2016	1340	16.41	100	16.41	0.004
R	RP5	*	2016	1320	16.49	100	16.49	0.0045
R	RP5	*	2016	1300	16.58	100	16.58	0.0045
R	RP5	*	2016	1280	16.67	100	16.67	0.0045
R	RP5	*	2016	1260	16.76	100	16.76	0.0045
R	RP5	*	2016	1240	16.85	100	16.85	0.004
R	RP5	*	2016	1220	16.93	100	16.93	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	*	2016	1200	17.02	100	17.02	0.0045
R	RP5	*	2016	1180	17.11	100	17.11	0.0045
R	RP5	*	2016	1160	17.2	100	17.2	0.0045
R	RP5	*	2016	1140	17.29	100	17.29	0.004
R	RP5	*	2016	1120	17.37	100	17.37	0.0045
R	RP5	*	2016	1100	17.46	100	17.46	0.0045
R	RP5	*	2016	1080	17.55	100	17.55	0.0045
R	RP5	*	2016	1060	17.64	100	17.64	0.0045
R	RP5	*	2016	1040	17.73	100	17.73	0.004
R	RP5	*	2016	1020	17.81	100	17.81	0.0045
R	RP5	*	2016	1000	17.9	100	17.9	0.0045
R	RP5	*	2016	980	17.99	100	17.99	0.0055
R	RP5	*	2016	960	18.1	100	18.1	0.0045
R	RP5	*	2016	940	18.19	100	18.19	0.004
R	RP5	*	2016	920	18.27	100	18.27	0.0045
R	RP5	*	2016	900	18.36	100	18.36	0.004
R	RP5	*	2016	880	18.44	100	18.44	0.006
R	RP5	*	2016	860	18.56	100	18.56	0.004
R	RP5	*	2016	840	18.64	100	18.64	0.004
R	RP5	*	2016	820	18.72	100	18.72	0.0045
R	RP5	*	2016	800	18.81	100	18.81	0.0065
R	RP5	*	2016	780	18.94	100	18.94	0.0065
R	RP5	*	2016	760	19.07	100	19.07	0.0065
R	RP5	*	2016	740	19.2	100	19.2	0.0065
R	RP5	*	2016	720	19.33	100	19.33	0.0065
R	RP5	*	2016	700	19.46	100	19.46	0.0065
R	RP5	*	2016	680	19.59	100	19.59	0.006
R	RP5	*	2016	660	19.71	100	19.71	0.0085
R	RP5	*	2016	640	19.88	100	19.88	0.009
R	RP5	*	2016	620	20.06	100	20.06	0.0085
R	RP5	*	2016	600	20.23	100	20.23	0.009
R	RP5	*	2016	580	20.41	100	20.41	0.009
R	RP5	*	2016	560	20.59	100	20.59	0.0085
R	RP5	*	2016	540	20.76	100	20.76	0.009
R	RP5	*	2016	520	20.94	100	20.94	0.016
R	RP5	*	2016	500	21.26	100	21.26	0.0165
R	RP5	*	2016	480	21.59	100	21.59	0.0165
R	RP5	*	2016	460	21.92	100	21.92	0.016
R	RP5	*	2016	440	22.24	100	22.24	0.0165
R	RP5	*	2016	420	22.57	100	22.57	0.0165
R	RP5	*	2016	400	22.9	100	22.9	0.016
R	RP5	*	2016	380	23.22	100	23.22	0.0165
R	RP5	*	2016	360	23.55	100	23.55	0.017
R	RP5	*	2016	340	23.89	100	23.89	0.016

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	*	2016	320	24.21	100	24.21	0.0165
R	RP5	*	2016	300	24.54	100	24.54	0.02
R	RP5	*	2016	280	24.94	100	24.94	0.02
R	RP5	*	2016	260	25.34	100	25.34	0.02
R	RP5	*	2016	240	25.74	100	25.74	0.0275
R	RP5	*	2016	220	26.29	100	26.29	0.0275
R	RP5	*	2016	200	26.84	100	26.84	0.053
R	RP5	*	2016	180	27.9	100	27.9	0.06
R	RP5	*	2016	160	29.1	100	29.1	0.06
R	RP5	*	2016	140	30.3	100	30.3	0.105
R	RP5	*	2016	120	32.4	100	32.4	0.11
R	RP5	*	2016	100	34.6	100	34.6	0
R	RP5	1-	2016	99999999	15.35	80	12.28	0
R	RP5	1-	2016	5000	15.35	80	12.28	0.00007
R	RP5	1-	2016	4000	15.44	80	12.35	0.00007
R	RP5	1-	2016	3000	15.53	80	12.42	0.00007
R	RP5	1-	2016	2000	15.61	80	12.49	0.0007
R	RP5	1-	2016	1900	15.7	80	12.56	0.0007
R	RP5	1-	2016	1800	15.79	80	12.63	0.0007
R	RP5	1-	2016	1700	15.88	80	12.7	0.0008
R	RP5	1-	2016	1600	15.97	80	12.78	0.0006
R	RP5	1-	2016	1500	16.05	80	12.84	0.0007
R	RP5	1-	2016	1400	16.14	80	12.91	0.0035
R	RP5	1-	2016	1380	16.23	80	12.98	0.004
R	RP5	1-	2016	1360	16.32	80	13.06	0.0035
R	RP5	1-	2016	1340	16.41	80	13.13	0.003
R	RP5	1-	2016	1320	16.49	80	13.19	0.0035
R	RP5	1-	2016	1300	16.58	80	13.26	0.004
R	RP5	1-	2016	1280	16.67	80	13.34	0.0035
R	RP5	1-	2016	1260	16.76	80	13.41	0.0035
R	RP5	1-	2016	1240	16.85	80	13.48	0.003
R	RP5	1-	2016	1220	16.93	80	13.54	0.004
R	RP5	1-	2016	1200	17.02	80	13.62	0.0035
R	RP5	1-	2016	1180	17.11	80	13.69	0.0035
R	RP5	1-	2016	1160	17.2	80	13.76	0.0035
R	RP5	1-	2016	1140	17.29	80	13.83	0.0035
R	RP5	1-	2016	1120	17.37	80	13.9	0.0035
R	RP5	1-	2016	1100	17.46	80	13.97	0.0035
R	RP5	1-	2016	1080	17.55	80	14.04	0.0035
R	RP5	1-	2016	1060	17.64	80	14.11	0.0035
R	RP5	1-	2016	1040	17.73	80	14.18	0.0035
R	RP5	1-	2016	1020	17.81	80	14.25	0.0035
R	RP5	1-	2016	1000	17.9	80	14.32	0.0035
R	RP5	1-	2016	980	17.99	80	14.39	0.0045

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	1-	2016	960	18.1	80	14.48	0.0035
R	RP5	1-	2016	940	18.19	80	14.55	0.0035
R	RP5	1-	2016	920	18.27	80	14.62	0.0035
R	RP5	1-	2016	900	18.36	80	14.69	0.003
R	RP5	1-	2016	880	18.44	80	14.75	0.005
R	RP5	1-	2016	860	18.56	80	14.85	0.003
R	RP5	1-	2016	840	18.64	80	14.91	0.0035
R	RP5	1-	2016	820	18.72	80	14.98	0.0035
R	RP5	1-	2016	800	18.81	80	15.05	0.005
R	RP5	1-	2016	780	18.94	80	15.15	0.0055
R	RP5	1-	2016	760	19.07	80	15.26	0.005
R	RP5	1-	2016	740	19.2	80	15.36	0.005
R	RP5	1-	2016	720	19.33	80	15.46	0.0055
R	RP5	1-	2016	700	19.46	80	15.57	0.005
R	RP5	1-	2016	680	19.59	80	15.67	0.005
R	RP5	1-	2016	660	19.71	80	15.77	0.0065
R	RP5	1-	2016	640	19.88	80	15.9	0.0075
R	RP5	1-	2016	620	20.06	80	16.05	0.0065
R	RP5	1-	2016	600	20.23	80	16.18	0.0075
R	RP5	1-	2016	580	20.41	80	16.33	0.007
R	RP5	1-	2016	560	20.59	80	16.47	0.007
R	RP5	1-	2016	540	20.76	80	16.61	0.007
R	RP5	1-	2016	520	20.94	80	16.75	0.013
R	RP5	1-	2016	500	21.26	80	17.01	0.013
R	RP5	1-	2016	480	21.59	80	17.27	0.0135
R	RP5	1-	2016	460	21.92	80	17.54	0.0125
R	RP5	1-	2016	440	22.24	80	17.79	0.0135
R	RP5	1-	2016	420	22.57	80	18.06	0.013
R	RP5	1-	2016	400	22.9	80	18.32	0.013
R	RP5	1-	2016	380	23.22	80	18.58	0.013
R	RP5	1-	2016	360	23.55	80	18.84	0.0135
R	RP5	1-	2016	340	23.89	80	19.11	0.013
R	RP5	1-	2016	320	24.21	80	19.37	0.013
R	RP5	1-	2016	300	24.54	80	19.63	0.016
R	RP5	1-	2016	280	24.94	80	19.95	0.016
R	RP5	1-	2016	260	25.34	80	20.27	0.016
R	RP5	1-	2016	240	25.74	80	20.59	0.022
R	RP5	1-	2016	220	26.29	80	21.03	0.022
R	RP5	1-	2016	200	26.84	80	21.47	0.0425
R	RP5	1-	2016	180	27.9	80	22.32	0.048
R	RP5	1-	2016	160	29.1	80	23.28	0.048
R	RP5	1-	2016	140	30.3	80	24.24	0.084
R	RP5	1-	2016	120	32.4	80	25.92	0.088
R	RP5	1-	2016	100	34.6	80	27.68	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	1+	2016	99999999	15.35	80	12.28	0
R	RP5	1+	2016	5000	15.35	80	12.28	0.00007
R	RP5	1+	2016	4000	15.44	80	12.35	0.00007
R	RP5	1+	2016	3000	15.53	80	12.42	0.00007
R	RP5	1+	2016	2000	15.61	80	12.49	0.0007
R	RP5	1+	2016	1900	15.7	80	12.56	0.0007
R	RP5	1+	2016	1800	15.79	80	12.63	0.0007
R	RP5	1+	2016	1700	15.88	80	12.7	0.0008
R	RP5	1+	2016	1600	15.97	80	12.78	0.0006
R	RP5	1+	2016	1500	16.05	80	12.84	0.0007
R	RP5	1+	2016	1400	16.14	80	12.91	0.0035
R	RP5	1+	2016	1380	16.23	80	12.98	0.004
R	RP5	1+	2016	1360	16.32	80	13.06	0.0035
R	RP5	1+	2016	1340	16.41	80	13.13	0.003
R	RP5	1+	2016	1320	16.49	80	13.19	0.0035
R	RP5	1+	2016	1300	16.58	80	13.26	0.004
R	RP5	1+	2016	1280	16.67	80	13.34	0.0035
R	RP5	1+	2016	1260	16.76	80	13.41	0.0035
R	RP5	1+	2016	1240	16.85	80	13.48	0.003
R	RP5	1+	2016	1220	16.93	80	13.54	0.004
R	RP5	1+	2016	1200	17.02	80	13.62	0.0035
R	RP5	1+	2016	1180	17.11	80	13.69	0.0035
R	RP5	1+	2016	1160	17.2	80	13.76	0.0035
R	RP5	1+	2016	1140	17.29	80	13.83	0.0035
R	RP5	1+	2016	1120	17.37	80	13.9	0.0035
R	RP5	1+	2016	1100	17.46	80	13.97	0.0035
R	RP5	1+	2016	1080	17.55	80	14.04	0.0035
R	RP5	1+	2016	1060	17.64	80	14.11	0.0035
R	RP5	1+	2016	1040	17.73	80	14.18	0.0035
R	RP5	1+	2016	1020	17.81	80	14.25	0.0035
R	RP5	1+	2016	1000	17.9	80	14.32	0.0035
R	RP5	1+	2016	980	17.99	80	14.39	0.0045
R	RP5	1+	2016	960	18.1	80	14.48	0.0035
R	RP5	1+	2016	940	18.19	80	14.55	0.0035
R	RP5	1+	2016	920	18.27	80	14.62	0.0035
R	RP5	1+	2016	900	18.36	80	14.69	0.003
R	RP5	1+	2016	880	18.44	80	14.75	0.005
R	RP5	1+	2016	860	18.56	80	14.85	0.003
R	RP5	1+	2016	840	18.64	80	14.91	0.0035
R	RP5	1+	2016	820	18.72	80	14.98	0.0035
R	RP5	1+	2016	800	18.81	80	15.05	0.005
R	RP5	1+	2016	780	18.94	80	15.15	0.0055
R	RP5	1+	2016	760	19.07	80	15.26	0.005
R	RP5	1+	2016	740	19.2	80	15.36	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	1+	2016	720	19.33	80	15.46	0.0055
R	RP5	1+	2016	700	19.46	80	15.57	0.005
R	RP5	1+	2016	680	19.59	80	15.67	0.005
R	RP5	1+	2016	660	19.71	80	15.77	0.0065
R	RP5	1+	2016	640	19.88	80	15.9	0.0075
R	RP5	1+	2016	620	20.06	80	16.05	0.0065
R	RP5	1+	2016	600	20.23	80	16.18	0.0075
R	RP5	1+	2016	580	20.41	80	16.33	0.007
R	RP5	1+	2016	560	20.59	80	16.47	0.007
R	RP5	1+	2016	540	20.76	80	16.61	0.007
R	RP5	1+	2016	520	20.94	80	16.75	0.013
R	RP5	1+	2016	500	21.26	80	17.01	0.013
R	RP5	1+	2016	480	21.59	80	17.27	0.0135
R	RP5	1+	2016	460	21.92	80	17.54	0.0125
R	RP5	1+	2016	440	22.24	80	17.79	0.0135
R	RP5	1+	2016	420	22.57	80	18.06	0.013
R	RP5	1+	2016	400	22.9	80	18.32	0.013
R	RP5	1+	2016	380	23.22	80	18.58	0.013
R	RP5	1+	2016	360	23.55	80	18.84	0.0135
R	RP5	1+	2016	340	23.89	80	19.11	0.013
R	RP5	1+	2016	320	24.21	80	19.37	0.013
R	RP5	1+	2016	300	24.54	80	19.63	0.016
R	RP5	1+	2016	280	24.94	80	19.95	0.016
R	RP5	1+	2016	260	25.34	80	20.27	0.016
R	RP5	1+	2016	240	25.74	80	20.59	0.022
R	RP5	1+	2016	220	26.29	80	21.03	0.022
R	RP5	1+	2016	200	26.84	80	21.47	0.0425
R	RP5	1+	2016	180	27.9	80	22.32	0.048
R	RP5	1+	2016	160	29.1	80	23.28	0.048
R	RP5	1+	2016	140	30.3	80	24.24	0.084
R	RP5	1+	2016	120	32.4	80	25.92	0.088
R	RP5	1+	2016	100	34.6	80	27.68	0
R	RP5	2-	2016	99999999	15.35	80	12.28	0
R	RP5	2-	2016	5000	15.35	80	12.28	0.00007
R	RP5	2-	2016	4000	15.44	80	12.35	0.00007
R	RP5	2-	2016	3000	15.53	80	12.42	0.00007
R	RP5	2-	2016	2000	15.61	80	12.49	0.0007
R	RP5	2-	2016	1900	15.7	80	12.56	0.0007
R	RP5	2-	2016	1800	15.79	80	12.63	0.0007
R	RP5	2-	2016	1700	15.88	80	12.7	0.0008
R	RP5	2-	2016	1600	15.97	80	12.78	0.0006
R	RP5	2-	2016	1500	16.05	80	12.84	0.0007
R	RP5	2-	2016	1400	16.14	80	12.91	0.0035
R	RP5	2-	2016	1380	16.23	80	12.98	0.004

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	2-	2016	1360	16.32	80	13.06	0.0035
R	RP5	2-	2016	1340	16.41	80	13.13	0.003
R	RP5	2-	2016	1320	16.49	80	13.19	0.0035
R	RP5	2-	2016	1300	16.58	80	13.26	0.004
R	RP5	2-	2016	1280	16.67	80	13.34	0.0035
R	RP5	2-	2016	1260	16.76	80	13.41	0.0035
R	RP5	2-	2016	1240	16.85	80	13.48	0.003
R	RP5	2-	2016	1220	16.93	80	13.54	0.004
R	RP5	2-	2016	1200	17.02	80	13.62	0.0035
R	RP5	2-	2016	1180	17.11	80	13.69	0.0035
R	RP5	2-	2016	1160	17.2	80	13.76	0.0035
R	RP5	2-	2016	1140	17.29	80	13.83	0.0035
R	RP5	2-	2016	1120	17.37	80	13.9	0.0035
R	RP5	2-	2016	1100	17.46	80	13.97	0.0035
R	RP5	2-	2016	1080	17.55	80	14.04	0.0035
R	RP5	2-	2016	1060	17.64	80	14.11	0.0035
R	RP5	2-	2016	1040	17.73	80	14.18	0.0035
R	RP5	2-	2016	1020	17.81	80	14.25	0.0035
R	RP5	2-	2016	1000	17.9	80	14.32	0.0035
R	RP5	2-	2016	980	17.99	80	14.39	0.0045
R	RP5	2-	2016	960	18.1	80	14.48	0.0035
R	RP5	2-	2016	940	18.19	80	14.55	0.0035
R	RP5	2-	2016	920	18.27	80	14.62	0.0035
R	RP5	2-	2016	900	18.36	80	14.69	0.003
R	RP5	2-	2016	880	18.44	80	14.75	0.005
R	RP5	2-	2016	860	18.56	80	14.85	0.003
R	RP5	2-	2016	840	18.64	80	14.91	0.0035
R	RP5	2-	2016	820	18.72	80	14.98	0.0035
R	RP5	2-	2016	800	18.81	80	15.05	0.005
R	RP5	2-	2016	780	18.94	80	15.15	0.0055
R	RP5	2-	2016	760	19.07	80	15.26	0.005
R	RP5	2-	2016	740	19.2	80	15.36	0.005
R	RP5	2-	2016	720	19.33	80	15.46	0.0055
R	RP5	2-	2016	700	19.46	80	15.57	0.005
R	RP5	2-	2016	680	19.59	80	15.67	0.005
R	RP5	2-	2016	660	19.71	80	15.77	0.0065
R	RP5	2-	2016	640	19.88	80	15.9	0.0075
R	RP5	2-	2016	620	20.06	80	16.05	0.0065
R	RP5	2-	2016	600	20.23	80	16.18	0.0075
R	RP5	2-	2016	580	20.41	80	16.33	0.007
R	RP5	2-	2016	560	20.59	80	16.47	0.007
R	RP5	2-	2016	540	20.76	80	16.61	0.007
R	RP5	2-	2016	520	20.94	80	16.75	0.013
R	RP5	2-	2016	500	21.26	80	17.01	0.013

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	2-	2016	480	21.59	80	17.27	0.0135
R	RP5	2-	2016	460	21.92	80	17.54	0.0125
R	RP5	2-	2016	440	22.24	80	17.79	0.0135
R	RP5	2-	2016	420	22.57	80	18.06	0.013
R	RP5	2-	2016	400	22.9	80	18.32	0.013
R	RP5	2-	2016	380	23.22	80	18.58	0.013
R	RP5	2-	2016	360	23.55	80	18.84	0.0135
R	RP5	2-	2016	340	23.89	80	19.11	0.013
R	RP5	2-	2016	320	24.21	80	19.37	0.013
R	RP5	2-	2016	300	24.54	80	19.63	0.016
R	RP5	2-	2016	280	24.94	80	19.95	0.016
R	RP5	2-	2016	260	25.34	80	20.27	0.016
R	RP5	2-	2016	240	25.74	80	20.59	0.022
R	RP5	2-	2016	220	26.29	80	21.03	0.022
R	RP5	2-	2016	200	26.84	80	21.47	0.0425
R	RP5	2-	2016	180	27.9	80	22.32	0.048
R	RP5	2-	2016	160	29.1	80	23.28	0.048
R	RP5	2-	2016	140	30.3	80	24.24	0.084
R	RP5	2-	2016	120	32.4	80	25.92	0.088
R	RP5	2-	2016	100	34.6	80	27.68	0
R	RP5	2+	2016	99999999	15.35	80	12.28	0
R	RP5	2+	2016	5000	15.35	80	12.28	0.00007
R	RP5	2+	2016	4000	15.44	80	12.35	0.00007
R	RP5	2+	2016	3000	15.53	80	12.42	0.00007
R	RP5	2+	2016	2000	15.61	80	12.49	0.0007
R	RP5	2+	2016	1900	15.7	80	12.56	0.0007
R	RP5	2+	2016	1800	15.79	80	12.63	0.0007
R	RP5	2+	2016	1700	15.88	80	12.7	0.0008
R	RP5	2+	2016	1600	15.97	80	12.78	0.0006
R	RP5	2+	2016	1500	16.05	80	12.84	0.0007
R	RP5	2+	2016	1400	16.14	80	12.91	0.0035
R	RP5	2+	2016	1380	16.23	80	12.98	0.004
R	RP5	2+	2016	1360	16.32	80	13.06	0.0035
R	RP5	2+	2016	1340	16.41	80	13.13	0.003
R	RP5	2+	2016	1320	16.49	80	13.19	0.0035
R	RP5	2+	2016	1300	16.58	80	13.26	0.004
R	RP5	2+	2016	1280	16.67	80	13.34	0.0035
R	RP5	2+	2016	1260	16.76	80	13.41	0.0035
R	RP5	2+	2016	1240	16.85	80	13.48	0.003
R	RP5	2+	2016	1220	16.93	80	13.54	0.004
R	RP5	2+	2016	1200	17.02	80	13.62	0.0035
R	RP5	2+	2016	1180	17.11	80	13.69	0.0035
R	RP5	2+	2016	1160	17.2	80	13.76	0.0035
R	RP5	2+	2016	1140	17.29	80	13.83	0.0035

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	2+	2016	1120	17.37	80	13.9	0.0035
R	RP5	2+	2016	1100	17.46	80	13.97	0.0035
R	RP5	2+	2016	1080	17.55	80	14.04	0.0035
R	RP5	2+	2016	1060	17.64	80	14.11	0.0035
R	RP5	2+	2016	1040	17.73	80	14.18	0.0035
R	RP5	2+	2016	1020	17.81	80	14.25	0.0035
R	RP5	2+	2016	1000	17.9	80	14.32	0.0035
R	RP5	2+	2016	980	17.99	80	14.39	0.0045
R	RP5	2+	2016	960	18.1	80	14.48	0.0035
R	RP5	2+	2016	940	18.19	80	14.55	0.0035
R	RP5	2+	2016	920	18.27	80	14.62	0.0035
R	RP5	2+	2016	900	18.36	80	14.69	0.003
R	RP5	2+	2016	880	18.44	80	14.75	0.005
R	RP5	2+	2016	860	18.56	80	14.85	0.003
R	RP5	2+	2016	840	18.64	80	14.91	0.0035
R	RP5	2+	2016	820	18.72	80	14.98	0.0035
R	RP5	2+	2016	800	18.81	80	15.05	0.005
R	RP5	2+	2016	780	18.94	80	15.15	0.0055
R	RP5	2+	2016	760	19.07	80	15.26	0.005
R	RP5	2+	2016	740	19.2	80	15.36	0.005
R	RP5	2+	2016	720	19.33	80	15.46	0.0055
R	RP5	2+	2016	700	19.46	80	15.57	0.005
R	RP5	2+	2016	680	19.59	80	15.67	0.005
R	RP5	2+	2016	660	19.71	80	15.77	0.0065
R	RP5	2+	2016	640	19.88	80	15.9	0.0075
R	RP5	2+	2016	620	20.06	80	16.05	0.0065
R	RP5	2+	2016	600	20.23	80	16.18	0.0075
R	RP5	2+	2016	580	20.41	80	16.33	0.007
R	RP5	2+	2016	560	20.59	80	16.47	0.007
R	RP5	2+	2016	540	20.76	80	16.61	0.007
R	RP5	2+	2016	520	20.94	80	16.75	0.013
R	RP5	2+	2016	500	21.26	80	17.01	0.013
R	RP5	2+	2016	480	21.59	80	17.27	0.0135
R	RP5	2+	2016	460	21.92	80	17.54	0.0125
R	RP5	2+	2016	440	22.24	80	17.79	0.0135
R	RP5	2+	2016	420	22.57	80	18.06	0.013
R	RP5	2+	2016	400	22.9	80	18.32	0.013
R	RP5	2+	2016	380	23.22	80	18.58	0.013
R	RP5	2+	2016	360	23.55	80	18.84	0.0135
R	RP5	2+	2016	340	23.89	80	19.11	0.013
R	RP5	2+	2016	320	24.21	80	19.37	0.013
R	RP5	2+	2016	300	24.54	80	19.63	0.016
R	RP5	2+	2016	280	24.94	80	19.95	0.016
R	RP5	2+	2016	260	25.34	80	20.27	0.016

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	2+	2016	240	25.74	80	20.59	0.022
R	RP5	2+	2016	220	26.29	80	21.03	0.022
R	RP5	2+	2016	200	26.84	80	21.47	0.0425
R	RP5	2+	2016	180	27.9	80	22.32	0.048
R	RP5	2+	2016	160	29.1	80	23.28	0.048
R	RP5	2+	2016	140	30.3	80	24.24	0.084
R	RP5	2+	2016	120	32.4	80	25.92	0.088
R	RP5	2+	2016	100	34.6	80	27.68	0
R	RP5	3-	2016	9999999	15.35	80	12.28	0
R	RP5	3-	2016	5000	15.35	80	12.28	0.00007
R	RP5	3-	2016	4000	15.44	80	12.35	0.00007
R	RP5	3-	2016	3000	15.53	80	12.42	0.00007
R	RP5	3-	2016	2000	15.61	80	12.49	0.0007
R	RP5	3-	2016	1900	15.7	80	12.56	0.0007
R	RP5	3-	2016	1800	15.79	80	12.63	0.0007
R	RP5	3-	2016	1700	15.88	80	12.7	0.0008
R	RP5	3-	2016	1600	15.97	80	12.78	0.0006
R	RP5	3-	2016	1500	16.05	80	12.84	0.0007
R	RP5	3-	2016	1400	16.14	80	12.91	0.0035
R	RP5	3-	2016	1380	16.23	80	12.98	0.004
R	RP5	3-	2016	1360	16.32	80	13.06	0.0035
R	RP5	3-	2016	1340	16.41	80	13.13	0.003
R	RP5	3-	2016	1320	16.49	80	13.19	0.0035
R	RP5	3-	2016	1300	16.58	80	13.26	0.004
R	RP5	3-	2016	1280	16.67	80	13.34	0.0035
R	RP5	3-	2016	1260	16.76	80	13.41	0.0035
R	RP5	3-	2016	1240	16.85	80	13.48	0.003
R	RP5	3-	2016	1220	16.93	80	13.54	0.004
R	RP5	3-	2016	1200	17.02	80	13.62	0.0035
R	RP5	3-	2016	1180	17.11	80	13.69	0.0035
R	RP5	3-	2016	1160	17.2	80	13.76	0.0035
R	RP5	3-	2016	1140	17.29	80	13.83	0.0035
R	RP5	3-	2016	1120	17.37	80	13.9	0.0035
R	RP5	3-	2016	1100	17.46	80	13.97	0.0035
R	RP5	3-	2016	1080	17.55	80	14.04	0.0035
R	RP5	3-	2016	1060	17.64	80	14.11	0.0035
R	RP5	3-	2016	1040	17.73	80	14.18	0.0035
R	RP5	3-	2016	1020	17.81	80	14.25	0.0035
R	RP5	3-	2016	1000	17.9	80	14.32	0.0035
R	RP5	3-	2016	980	17.99	80	14.39	0.0045
R	RP5	3-	2016	960	18.1	80	14.48	0.0035
R	RP5	3-	2016	940	18.19	80	14.55	0.0035
R	RP5	3-	2016	920	18.27	80	14.62	0.0035
R	RP5	3-	2016	900	18.36	80	14.69	0.003

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	3-	2016	880	18.44	80	14.75	0.005
R	RP5	3-	2016	860	18.56	80	14.85	0.003
R	RP5	3-	2016	840	18.64	80	14.91	0.0035
R	RP5	3-	2016	820	18.72	80	14.98	0.0035
R	RP5	3-	2016	800	18.81	80	15.05	0.005
R	RP5	3-	2016	780	18.94	80	15.15	0.0055
R	RP5	3-	2016	760	19.07	80	15.26	0.005
R	RP5	3-	2016	740	19.2	80	15.36	0.005
R	RP5	3-	2016	720	19.33	80	15.46	0.0055
R	RP5	3-	2016	700	19.46	80	15.57	0.005
R	RP5	3-	2016	680	19.59	80	15.67	0.005
R	RP5	3-	2016	660	19.71	80	15.77	0.0065
R	RP5	3-	2016	640	19.88	80	15.9	0.0075
R	RP5	3-	2016	620	20.06	80	16.05	0.0065
R	RP5	3-	2016	600	20.23	80	16.18	0.0075
R	RP5	3-	2016	580	20.41	80	16.33	0.007
R	RP5	3-	2016	560	20.59	80	16.47	0.007
R	RP5	3-	2016	540	20.76	80	16.61	0.007
R	RP5	3-	2016	520	20.94	80	16.75	0.013
R	RP5	3-	2016	500	21.26	80	17.01	0.013
R	RP5	3-	2016	480	21.59	80	17.27	0.0135
R	RP5	3-	2016	460	21.92	80	17.54	0.0125
R	RP5	3-	2016	440	22.24	80	17.79	0.0135
R	RP5	3-	2016	420	22.57	80	18.06	0.013
R	RP5	3-	2016	400	22.9	80	18.32	0.013
R	RP5	3-	2016	380	23.22	80	18.58	0.013
R	RP5	3-	2016	360	23.55	80	18.84	0.0135
R	RP5	3-	2016	340	23.89	80	19.11	0.013
R	RP5	3-	2016	320	24.21	80	19.37	0.013
R	RP5	3-	2016	300	24.54	80	19.63	0.016
R	RP5	3-	2016	280	24.94	80	19.95	0.016
R	RP5	3-	2016	260	25.34	80	20.27	0.016
R	RP5	3-	2016	240	25.74	80	20.59	0.022
R	RP5	3-	2016	220	26.29	80	21.03	0.022
R	RP5	3-	2016	200	26.84	80	21.47	0.0425
R	RP5	3-	2016	180	27.9	80	22.32	0.048
R	RP5	3-	2016	160	29.1	80	23.28	0.048
R	RP5	3-	2016	140	30.3	80	24.24	0.084
R	RP5	3-	2016	120	32.4	80	25.92	0.088
R	RP5	3-	2016	100	34.6	80	27.68	0
R	RP5	3+	2016	99999999	15.35	80	12.28	0
R	RP5	3+	2016	5000	15.35	80	12.28	0.00007
R	RP5	3+	2016	4000	15.44	80	12.35	0.00007
R	RP5	3+	2016	3000	15.53	80	12.42	0.00007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	3+	2016	2000	15.61	80	12.49	0.0007
R	RP5	3+	2016	1900	15.7	80	12.56	0.0007
R	RP5	3+	2016	1800	15.79	80	12.63	0.0007
R	RP5	3+	2016	1700	15.88	80	12.7	0.0008
R	RP5	3+	2016	1600	15.97	80	12.78	0.0006
R	RP5	3+	2016	1500	16.05	80	12.84	0.0007
R	RP5	3+	2016	1400	16.14	80	12.91	0.0035
R	RP5	3+	2016	1380	16.23	80	12.98	0.004
R	RP5	3+	2016	1360	16.32	80	13.06	0.0035
R	RP5	3+	2016	1340	16.41	80	13.13	0.003
R	RP5	3+	2016	1320	16.49	80	13.19	0.0035
R	RP5	3+	2016	1300	16.58	80	13.26	0.004
R	RP5	3+	2016	1280	16.67	80	13.34	0.0035
R	RP5	3+	2016	1260	16.76	80	13.41	0.0035
R	RP5	3+	2016	1240	16.85	80	13.48	0.003
R	RP5	3+	2016	1220	16.93	80	13.54	0.004
R	RP5	3+	2016	1200	17.02	80	13.62	0.0035
R	RP5	3+	2016	1180	17.11	80	13.69	0.0035
R	RP5	3+	2016	1160	17.2	80	13.76	0.0035
R	RP5	3+	2016	1140	17.29	80	13.83	0.0035
R	RP5	3+	2016	1120	17.37	80	13.9	0.0035
R	RP5	3+	2016	1100	17.46	80	13.97	0.0035
R	RP5	3+	2016	1080	17.55	80	14.04	0.0035
R	RP5	3+	2016	1060	17.64	80	14.11	0.0035
R	RP5	3+	2016	1040	17.73	80	14.18	0.0035
R	RP5	3+	2016	1020	17.81	80	14.25	0.0035
R	RP5	3+	2016	1000	17.9	80	14.32	0.0035
R	RP5	3+	2016	980	17.99	80	14.39	0.0045
R	RP5	3+	2016	960	18.1	80	14.48	0.0035
R	RP5	3+	2016	940	18.19	80	14.55	0.0035
R	RP5	3+	2016	920	18.27	80	14.62	0.0035
R	RP5	3+	2016	900	18.36	80	14.69	0.003
R	RP5	3+	2016	880	18.44	80	14.75	0.005
R	RP5	3+	2016	860	18.56	80	14.85	0.003
R	RP5	3+	2016	840	18.64	80	14.91	0.0035
R	RP5	3+	2016	820	18.72	80	14.98	0.0035
R	RP5	3+	2016	800	18.81	80	15.05	0.005
R	RP5	3+	2016	780	18.94	80	15.15	0.0055
R	RP5	3+	2016	760	19.07	80	15.26	0.005
R	RP5	3+	2016	740	19.2	80	15.36	0.005
R	RP5	3+	2016	720	19.33	80	15.46	0.0055
R	RP5	3+	2016	700	19.46	80	15.57	0.005
R	RP5	3+	2016	680	19.59	80	15.67	0.005
R	RP5	3+	2016	660	19.71	80	15.77	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	3+	2016	640	19.88	80	15.9	0.0075
R	RP5	3+	2016	620	20.06	80	16.05	0.0065
R	RP5	3+	2016	600	20.23	80	16.18	0.0075
R	RP5	3+	2016	580	20.41	80	16.33	0.007
R	RP5	3+	2016	560	20.59	80	16.47	0.007
R	RP5	3+	2016	540	20.76	80	16.61	0.007
R	RP5	3+	2016	520	20.94	80	16.75	0.013
R	RP5	3+	2016	500	21.26	80	17.01	0.013
R	RP5	3+	2016	480	21.59	80	17.27	0.0135
R	RP5	3+	2016	460	21.92	80	17.54	0.0125
R	RP5	3+	2016	440	22.24	80	17.79	0.0135
R	RP5	3+	2016	420	22.57	80	18.06	0.013
R	RP5	3+	2016	400	22.9	80	18.32	0.013
R	RP5	3+	2016	380	23.22	80	18.58	0.013
R	RP5	3+	2016	360	23.55	80	18.84	0.0135
R	RP5	3+	2016	340	23.89	80	19.11	0.013
R	RP5	3+	2016	320	24.21	80	19.37	0.013
R	RP5	3+	2016	300	24.54	80	19.63	0.016
R	RP5	3+	2016	280	24.94	80	19.95	0.016
R	RP5	3+	2016	260	25.34	80	20.27	0.016
R	RP5	3+	2016	240	25.74	80	20.59	0.022
R	RP5	3+	2016	220	26.29	80	21.03	0.022
R	RP5	3+	2016	200	26.84	80	21.47	0.0425
R	RP5	3+	2016	180	27.9	80	22.32	0.048
R	RP5	3+	2016	160	29.1	80	23.28	0.048
R	RP5	3+	2016	140	30.3	80	24.24	0.084
R	RP5	3+	2016	120	32.4	80	25.92	0.088
R	RP5	3+	2016	100	34.6	80	27.68	0
R	RP5	4-	2016	99999999	15.35	115	17.65	0
R	RP5	4-	2016	5000	15.35	115	17.65	0.00011
R	RP5	4-	2016	4000	15.44	115	17.76	0.0001
R	RP5	4-	2016	3000	15.53	115	17.86	0.00009
R	RP5	4-	2016	2000	15.61	115	17.95	0.0011
R	RP5	4-	2016	1900	15.7	115	18.06	0.001
R	RP5	4-	2016	1800	15.79	115	18.16	0.001
R	RP5	4-	2016	1700	15.88	115	18.26	0.0011
R	RP5	4-	2016	1600	15.97	115	18.37	0.0009
R	RP5	4-	2016	1500	16.05	115	18.46	0.001
R	RP5	4-	2016	1400	16.14	115	18.56	0.005
R	RP5	4-	2016	1380	16.23	115	18.66	0.0055
R	RP5	4-	2016	1360	16.32	115	18.77	0.005
R	RP5	4-	2016	1340	16.41	115	18.87	0.0045
R	RP5	4-	2016	1320	16.49	115	18.96	0.0055
R	RP5	4-	2016	1300	16.58	115	19.07	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	4-	2016	1280	16.67	115	19.17	0.005
R	RP5	4-	2016	1260	16.76	115	19.27	0.0055
R	RP5	4-	2016	1240	16.85	115	19.38	0.0045
R	RP5	4-	2016	1220	16.93	115	19.47	0.005
R	RP5	4-	2016	1200	17.02	115	19.57	0.0055
R	RP5	4-	2016	1180	17.11	115	19.68	0.005
R	RP5	4-	2016	1160	17.2	115	19.78	0.005
R	RP5	4-	2016	1140	17.29	115	19.88	0.005
R	RP5	4-	2016	1120	17.37	115	19.98	0.005
R	RP5	4-	2016	1100	17.46	115	20.08	0.005
R	RP5	4-	2016	1080	17.55	115	20.18	0.0055
R	RP5	4-	2016	1060	17.64	115	20.29	0.005
R	RP5	4-	2016	1040	17.73	115	20.39	0.0045
R	RP5	4-	2016	1020	17.81	115	20.48	0.0055
R	RP5	4-	2016	1000	17.9	115	20.59	0.005
R	RP5	4-	2016	980	17.99	115	20.69	0.0065
R	RP5	4-	2016	960	18.1	115	20.82	0.005
R	RP5	4-	2016	940	18.19	115	20.92	0.0045
R	RP5	4-	2016	920	18.27	115	21.01	0.005
R	RP5	4-	2016	900	18.36	115	21.11	0.005
R	RP5	4-	2016	880	18.44	115	21.21	0.0065
R	RP5	4-	2016	860	18.56	115	21.34	0.005
R	RP5	4-	2016	840	18.64	115	21.44	0.0045
R	RP5	4-	2016	820	18.72	115	21.53	0.005
R	RP5	4-	2016	800	18.81	115	21.63	0.0075
R	RP5	4-	2016	780	18.94	115	21.78	0.0075
R	RP5	4-	2016	760	19.07	115	21.93	0.0075
R	RP5	4-	2016	740	19.2	115	22.08	0.0075
R	RP5	4-	2016	720	19.33	115	22.23	0.0075
R	RP5	4-	2016	700	19.46	115	22.38	0.0075
R	RP5	4-	2016	680	19.59	115	22.53	0.007
R	RP5	4-	2016	660	19.71	115	22.67	0.0095
R	RP5	4-	2016	640	19.88	115	22.86	0.0105
R	RP5	4-	2016	620	20.06	115	23.07	0.0095
R	RP5	4-	2016	600	20.23	115	23.26	0.0105
R	RP5	4-	2016	580	20.41	115	23.47	0.0105
R	RP5	4-	2016	560	20.59	115	23.68	0.0095
R	RP5	4-	2016	540	20.76	115	23.87	0.0105
R	RP5	4-	2016	520	20.94	115	24.08	0.0185
R	RP5	4-	2016	500	21.26	115	24.45	0.019
R	RP5	4-	2016	480	21.59	115	24.83	0.019
R	RP5	4-	2016	460	21.92	115	25.21	0.0185
R	RP5	4-	2016	440	22.24	115	25.58	0.019
R	RP5	4-	2016	420	22.57	115	25.96	0.019

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	4-	2016	400	22.9	115	26.34	0.018
R	RP5	4-	2016	380	23.22	115	26.7	0.019
R	RP5	4-	2016	360	23.55	115	27.08	0.0195
R	RP5	4-	2016	340	23.89	115	27.47	0.0185
R	RP5	4-	2016	320	24.21	115	27.84	0.019
R	RP5	4-	2016	300	24.54	115	28.22	0.023
R	RP5	4-	2016	280	24.94	115	28.68	0.023
R	RP5	4-	2016	260	25.34	115	29.14	0.023
R	RP5	4-	2016	240	25.74	115	29.6	0.0315
R	RP5	4-	2016	220	26.29	115	30.23	0.032
R	RP5	4-	2016	200	26.84	115	30.87	0.061
R	RP5	4-	2016	180	27.9	115	32.09	0.069
R	RP5	4-	2016	160	29.1	115	33.47	0.0685
R	RP5	4-	2016	140	30.3	115	34.84	0.121
R	RP5	4-	2016	120	32.4	115	37.26	0.1265
R	RP5	4-	2016	100	34.6	115	39.79	0
R	RP5	4+	2016	99999999	15.35	115	17.65	0
R	RP5	4+	2016	5000	15.35	115	17.65	0.00011
R	RP5	4+	2016	4000	15.44	115	17.76	0.0001
R	RP5	4+	2016	3000	15.53	115	17.86	0.00009
R	RP5	4+	2016	2000	15.61	115	17.95	0.0011
R	RP5	4+	2016	1900	15.7	115	18.06	0.001
R	RP5	4+	2016	1800	15.79	115	18.16	0.001
R	RP5	4+	2016	1700	15.88	115	18.26	0.0011
R	RP5	4+	2016	1600	15.97	115	18.37	0.0009
R	RP5	4+	2016	1500	16.05	115	18.46	0.001
R	RP5	4+	2016	1400	16.14	115	18.56	0.005
R	RP5	4+	2016	1380	16.23	115	18.66	0.0055
R	RP5	4+	2016	1360	16.32	115	18.77	0.005
R	RP5	4+	2016	1340	16.41	115	18.87	0.0045
R	RP5	4+	2016	1320	16.49	115	18.96	0.0055
R	RP5	4+	2016	1300	16.58	115	19.07	0.005
R	RP5	4+	2016	1280	16.67	115	19.17	0.005
R	RP5	4+	2016	1260	16.76	115	19.27	0.0055
R	RP5	4+	2016	1240	16.85	115	19.38	0.0045
R	RP5	4+	2016	1220	16.93	115	19.47	0.005
R	RP5	4+	2016	1200	17.02	115	19.57	0.0055
R	RP5	4+	2016	1180	17.11	115	19.68	0.005
R	RP5	4+	2016	1160	17.2	115	19.78	0.005
R	RP5	4+	2016	1140	17.29	115	19.88	0.005
R	RP5	4+	2016	1120	17.37	115	19.98	0.005
R	RP5	4+	2016	1100	17.46	115	20.08	0.005
R	RP5	4+	2016	1080	17.55	115	20.18	0.0055
R	RP5	4+	2016	1060	17.64	115	20.29	0.005

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	4+	2016	1040	17.73	115	20.39	0.0045
R	RP5	4+	2016	1020	17.81	115	20.48	0.0055
R	RP5	4+	2016	1000	17.9	115	20.59	0.005
R	RP5	4+	2016	980	17.99	115	20.69	0.0065
R	RP5	4+	2016	960	18.1	115	20.82	0.005
R	RP5	4+	2016	940	18.19	115	20.92	0.0045
R	RP5	4+	2016	920	18.27	115	21.01	0.005
R	RP5	4+	2016	900	18.36	115	21.11	0.005
R	RP5	4+	2016	880	18.44	115	21.21	0.0065
R	RP5	4+	2016	860	18.56	115	21.34	0.005
R	RP5	4+	2016	840	18.64	115	21.44	0.0045
R	RP5	4+	2016	820	18.72	115	21.53	0.005
R	RP5	4+	2016	800	18.81	115	21.63	0.0075
R	RP5	4+	2016	780	18.94	115	21.78	0.0075
R	RP5	4+	2016	760	19.07	115	21.93	0.0075
R	RP5	4+	2016	740	19.2	115	22.08	0.0075
R	RP5	4+	2016	720	19.33	115	22.23	0.0075
R	RP5	4+	2016	700	19.46	115	22.38	0.0075
R	RP5	4+	2016	680	19.59	115	22.53	0.007
R	RP5	4+	2016	660	19.71	115	22.67	0.0095
R	RP5	4+	2016	640	19.88	115	22.86	0.0105
R	RP5	4+	2016	620	20.06	115	23.07	0.0095
R	RP5	4+	2016	600	20.23	115	23.26	0.0105
R	RP5	4+	2016	580	20.41	115	23.47	0.0105
R	RP5	4+	2016	560	20.59	115	23.68	0.0095
R	RP5	4+	2016	540	20.76	115	23.87	0.0105
R	RP5	4+	2016	520	20.94	115	24.08	0.0185
R	RP5	4+	2016	500	21.26	115	24.45	0.019
R	RP5	4+	2016	480	21.59	115	24.83	0.019
R	RP5	4+	2016	460	21.92	115	25.21	0.0185
R	RP5	4+	2016	440	22.24	115	25.58	0.019
R	RP5	4+	2016	420	22.57	115	25.96	0.019
R	RP5	4+	2016	400	22.9	115	26.34	0.018
R	RP5	4+	2016	380	23.22	115	26.7	0.019
R	RP5	4+	2016	360	23.55	115	27.08	0.0195
R	RP5	4+	2016	340	23.89	115	27.47	0.0185
R	RP5	4+	2016	320	24.21	115	27.84	0.019
R	RP5	4+	2016	300	24.54	115	28.22	0.023
R	RP5	4+	2016	280	24.94	115	28.68	0.023
R	RP5	4+	2016	260	25.34	115	29.14	0.023
R	RP5	4+	2016	240	25.74	115	29.6	0.0315
R	RP5	4+	2016	220	26.29	115	30.23	0.032
R	RP5	4+	2016	200	26.84	115	30.87	0.061
R	RP5	4+	2016	180	27.9	115	32.09	0.069

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	4+	2016	160	29.1	115	33.47	0.0685
R	RP5	4+	2016	140	30.3	115	34.84	0.121
R	RP5	4+	2016	120	32.4	115	37.26	0.1265
R	RP5	4+	2016	100	34.6	115	39.79	0
R	RP5	5-	2016	99999999	15.35	130	19.96	0
R	RP5	5-	2016	5000	15.35	130	19.96	0.00011
R	RP5	5-	2016	4000	15.44	130	20.07	0.00012
R	RP5	5-	2016	3000	15.53	130	20.19	0.0001
R	RP5	5-	2016	2000	15.61	130	20.29	0.0012
R	RP5	5-	2016	1900	15.7	130	20.41	0.0012
R	RP5	5-	2016	1800	15.79	130	20.53	0.0011
R	RP5	5-	2016	1700	15.88	130	20.64	0.0012
R	RP5	5-	2016	1600	15.97	130	20.76	0.0011
R	RP5	5-	2016	1500	16.05	130	20.87	0.0011
R	RP5	5-	2016	1400	16.14	130	20.98	0.006
R	RP5	5-	2016	1380	16.23	130	21.1	0.006
R	RP5	5-	2016	1360	16.32	130	21.22	0.0055
R	RP5	5-	2016	1340	16.41	130	21.33	0.0055
R	RP5	5-	2016	1320	16.49	130	21.44	0.0055
R	RP5	5-	2016	1300	16.58	130	21.55	0.006
R	RP5	5-	2016	1280	16.67	130	21.67	0.006
R	RP5	5-	2016	1260	16.76	130	21.79	0.006
R	RP5	5-	2016	1240	16.85	130	21.91	0.005
R	RP5	5-	2016	1220	16.93	130	22.01	0.006
R	RP5	5-	2016	1200	17.02	130	22.13	0.0055
R	RP5	5-	2016	1180	17.11	130	22.24	0.006
R	RP5	5-	2016	1160	17.2	130	22.36	0.006
R	RP5	5-	2016	1140	17.29	130	22.48	0.005
R	RP5	5-	2016	1120	17.37	130	22.58	0.006
R	RP5	5-	2016	1100	17.46	130	22.7	0.006
R	RP5	5-	2016	1080	17.55	130	22.82	0.0055
R	RP5	5-	2016	1060	17.64	130	22.93	0.006
R	RP5	5-	2016	1040	17.73	130	23.05	0.005
R	RP5	5-	2016	1020	17.81	130	23.15	0.006
R	RP5	5-	2016	1000	17.9	130	23.27	0.006
R	RP5	5-	2016	980	17.99	130	23.39	0.007
R	RP5	5-	2016	960	18.1	130	23.53	0.006
R	RP5	5-	2016	940	18.19	130	23.65	0.005
R	RP5	5-	2016	920	18.27	130	23.75	0.006
R	RP5	5-	2016	900	18.36	130	23.87	0.005
R	RP5	5-	2016	880	18.44	130	23.97	0.008
R	RP5	5-	2016	860	18.56	130	24.13	0.005
R	RP5	5-	2016	840	18.64	130	24.23	0.0055
R	RP5	5-	2016	820	18.72	130	24.34	0.0055

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	5-	2016	800	18.81	130	24.45	0.0085
R	RP5	5-	2016	780	18.94	130	24.62	0.0085
R	RP5	5-	2016	760	19.07	130	24.79	0.0085
R	RP5	5-	2016	740	19.2	130	24.96	0.0085
R	RP5	5-	2016	720	19.33	130	25.13	0.0085
R	RP5	5-	2016	700	19.46	130	25.3	0.0085
R	RP5	5-	2016	680	19.59	130	25.47	0.0075
R	RP5	5-	2016	660	19.71	130	25.62	0.011
R	RP5	5-	2016	640	19.88	130	25.84	0.012
R	RP5	5-	2016	620	20.06	130	26.08	0.011
R	RP5	5-	2016	600	20.23	130	26.3	0.0115
R	RP5	5-	2016	580	20.41	130	26.53	0.012
R	RP5	5-	2016	560	20.59	130	26.77	0.011
R	RP5	5-	2016	540	20.76	130	26.99	0.0115
R	RP5	5-	2016	520	20.94	130	27.22	0.021
R	RP5	5-	2016	500	21.26	130	27.64	0.0215
R	RP5	5-	2016	480	21.59	130	28.07	0.0215
R	RP5	5-	2016	460	21.92	130	28.5	0.0205
R	RP5	5-	2016	440	22.24	130	28.91	0.0215
R	RP5	5-	2016	420	22.57	130	29.34	0.0215
R	RP5	5-	2016	400	22.9	130	29.77	0.021
R	RP5	5-	2016	380	23.22	130	30.19	0.0215
R	RP5	5-	2016	360	23.55	130	30.62	0.022
R	RP5	5-	2016	340	23.89	130	31.06	0.0205
R	RP5	5-	2016	320	24.21	130	31.47	0.0215
R	RP5	5-	2016	300	24.54	130	31.9	0.026
R	RP5	5-	2016	280	24.94	130	32.42	0.026
R	RP5	5-	2016	260	25.34	130	32.94	0.026
R	RP5	5-	2016	240	25.74	130	33.46	0.036
R	RP5	5-	2016	220	26.29	130	34.18	0.0355
R	RP5	5-	2016	200	26.84	130	34.89	0.069
R	RP5	5-	2016	180	27.9	130	36.27	0.078
R	RP5	5-	2016	160	29.1	130	37.83	0.078
R	RP5	5-	2016	140	30.3	130	39.39	0.1365
R	RP5	5-	2016	120	32.4	130	42.12	0.143
R	RP5	5-	2016	100	34.6	130	44.98	0
R	RP5	5+	2016	99999999	15.35	130	19.96	0
R	RP5	5+	2016	5000	15.35	130	19.96	0.00011
R	RP5	5+	2016	4000	15.44	130	20.07	0.00012
R	RP5	5+	2016	3000	15.53	130	20.19	0.0001
R	RP5	5+	2016	2000	15.61	130	20.29	0.0012
R	RP5	5+	2016	1900	15.7	130	20.41	0.0012
R	RP5	5+	2016	1800	15.79	130	20.53	0.0011
R	RP5	5+	2016	1700	15.88	130	20.64	0.0012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	5+	2016	1600	15.97	130	20.76	0.0011
R	RP5	5+	2016	1500	16.05	130	20.87	0.0011
R	RP5	5+	2016	1400	16.14	130	20.98	0.006
R	RP5	5+	2016	1380	16.23	130	21.1	0.006
R	RP5	5+	2016	1360	16.32	130	21.22	0.0055
R	RP5	5+	2016	1340	16.41	130	21.33	0.0055
R	RP5	5+	2016	1320	16.49	130	21.44	0.0055
R	RP5	5+	2016	1300	16.58	130	21.55	0.006
R	RP5	5+	2016	1280	16.67	130	21.67	0.006
R	RP5	5+	2016	1260	16.76	130	21.79	0.006
R	RP5	5+	2016	1240	16.85	130	21.91	0.005
R	RP5	5+	2016	1220	16.93	130	22.01	0.006
R	RP5	5+	2016	1200	17.02	130	22.13	0.0055
R	RP5	5+	2016	1180	17.11	130	22.24	0.006
R	RP5	5+	2016	1160	17.2	130	22.36	0.006
R	RP5	5+	2016	1140	17.29	130	22.48	0.005
R	RP5	5+	2016	1120	17.37	130	22.58	0.006
R	RP5	5+	2016	1100	17.46	130	22.7	0.006
R	RP5	5+	2016	1080	17.55	130	22.82	0.0055
R	RP5	5+	2016	1060	17.64	130	22.93	0.006
R	RP5	5+	2016	1040	17.73	130	23.05	0.005
R	RP5	5+	2016	1020	17.81	130	23.15	0.006
R	RP5	5+	2016	1000	17.9	130	23.27	0.006
R	RP5	5+	2016	980	17.99	130	23.39	0.007
R	RP5	5+	2016	960	18.1	130	23.53	0.006
R	RP5	5+	2016	940	18.19	130	23.65	0.005
R	RP5	5+	2016	920	18.27	130	23.75	0.006
R	RP5	5+	2016	900	18.36	130	23.87	0.005
R	RP5	5+	2016	880	18.44	130	23.97	0.008
R	RP5	5+	2016	860	18.56	130	24.13	0.005
R	RP5	5+	2016	840	18.64	130	24.23	0.0055
R	RP5	5+	2016	820	18.72	130	24.34	0.0055
R	RP5	5+	2016	800	18.81	130	24.45	0.0085
R	RP5	5+	2016	780	18.94	130	24.62	0.0085
R	RP5	5+	2016	760	19.07	130	24.79	0.0085
R	RP5	5+	2016	740	19.2	130	24.96	0.0085
R	RP5	5+	2016	720	19.33	130	25.13	0.0085
R	RP5	5+	2016	700	19.46	130	25.3	0.0085
R	RP5	5+	2016	680	19.59	130	25.47	0.0075
R	RP5	5+	2016	660	19.71	130	25.62	0.011
R	RP5	5+	2016	640	19.88	130	25.84	0.012
R	RP5	5+	2016	620	20.06	130	26.08	0.011
R	RP5	5+	2016	600	20.23	130	26.3	0.0115
R	RP5	5+	2016	580	20.41	130	26.53	0.012

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	5+	2016	560	20.59	130	26.77	0.011
R	RP5	5+	2016	540	20.76	130	26.99	0.0115
R	RP5	5+	2016	520	20.94	130	27.22	0.021
R	RP5	5+	2016	500	21.26	130	27.64	0.0215
R	RP5	5+	2016	480	21.59	130	28.07	0.0215
R	RP5	5+	2016	460	21.92	130	28.5	0.0205
R	RP5	5+	2016	440	22.24	130	28.91	0.0215
R	RP5	5+	2016	420	22.57	130	29.34	0.0215
R	RP5	5+	2016	400	22.9	130	29.77	0.021
R	RP5	5+	2016	380	23.22	130	30.19	0.0215
R	RP5	5+	2016	360	23.55	130	30.62	0.022
R	RP5	5+	2016	340	23.89	130	31.06	0.0205
R	RP5	5+	2016	320	24.21	130	31.47	0.0215
R	RP5	5+	2016	300	24.54	130	31.9	0.026
R	RP5	5+	2016	280	24.94	130	32.42	0.026
R	RP5	5+	2016	260	25.34	130	32.94	0.026
R	RP5	5+	2016	240	25.74	130	33.46	0.036
R	RP5	5+	2016	220	26.29	130	34.18	0.0355
R	RP5	5+	2016	200	26.84	130	34.89	0.069
R	RP5	5+	2016	180	27.9	130	36.27	0.078
R	RP5	5+	2016	160	29.1	130	37.83	0.078
R	RP5	5+	2016	140	30.3	130	39.39	0.1365
R	RP5	5+	2016	120	32.4	130	42.12	0.143
R	RP5	5+	2016	100	34.6	130	44.98	0
R	RP5	6-	2016	99999999	15.35	130	19.96	0
R	RP5	6-	2016	5000	15.35	130	19.96	0.00011
R	RP5	6-	2016	4000	15.44	130	20.07	0.00012
R	RP5	6-	2016	3000	15.53	130	20.19	0.0001
R	RP5	6-	2016	2000	15.61	130	20.29	0.0012
R	RP5	6-	2016	1900	15.7	130	20.41	0.0012
R	RP5	6-	2016	1800	15.79	130	20.53	0.0011
R	RP5	6-	2016	1700	15.88	130	20.64	0.0012
R	RP5	6-	2016	1600	15.97	130	20.76	0.0011
R	RP5	6-	2016	1500	16.05	130	20.87	0.0011
R	RP5	6-	2016	1400	16.14	130	20.98	0.006
R	RP5	6-	2016	1380	16.23	130	21.1	0.006
R	RP5	6-	2016	1360	16.32	130	21.22	0.0055
R	RP5	6-	2016	1340	16.41	130	21.33	0.0055
R	RP5	6-	2016	1320	16.49	130	21.44	0.0055
R	RP5	6-	2016	1300	16.58	130	21.55	0.006
R	RP5	6-	2016	1280	16.67	130	21.67	0.006
R	RP5	6-	2016	1260	16.76	130	21.79	0.006
R	RP5	6-	2016	1240	16.85	130	21.91	0.005
R	RP5	6-	2016	1220	16.93	130	22.01	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	6-	2016	1200	17.02	130	22.13	0.0055
R	RP5	6-	2016	1180	17.11	130	22.24	0.006
R	RP5	6-	2016	1160	17.2	130	22.36	0.006
R	RP5	6-	2016	1140	17.29	130	22.48	0.005
R	RP5	6-	2016	1120	17.37	130	22.58	0.006
R	RP5	6-	2016	1100	17.46	130	22.7	0.006
R	RP5	6-	2016	1080	17.55	130	22.82	0.0055
R	RP5	6-	2016	1060	17.64	130	22.93	0.006
R	RP5	6-	2016	1040	17.73	130	23.05	0.005
R	RP5	6-	2016	1020	17.81	130	23.15	0.006
R	RP5	6-	2016	1000	17.9	130	23.27	0.006
R	RP5	6-	2016	980	17.99	130	23.39	0.007
R	RP5	6-	2016	960	18.1	130	23.53	0.006
R	RP5	6-	2016	940	18.19	130	23.65	0.005
R	RP5	6-	2016	920	18.27	130	23.75	0.006
R	RP5	6-	2016	900	18.36	130	23.87	0.005
R	RP5	6-	2016	880	18.44	130	23.97	0.008
R	RP5	6-	2016	860	18.56	130	24.13	0.005
R	RP5	6-	2016	840	18.64	130	24.23	0.0055
R	RP5	6-	2016	820	18.72	130	24.34	0.0055
R	RP5	6-	2016	800	18.81	130	24.45	0.0085
R	RP5	6-	2016	780	18.94	130	24.62	0.0085
R	RP5	6-	2016	760	19.07	130	24.79	0.0085
R	RP5	6-	2016	740	19.2	130	24.96	0.0085
R	RP5	6-	2016	720	19.33	130	25.13	0.0085
R	RP5	6-	2016	700	19.46	130	25.3	0.0085
R	RP5	6-	2016	680	19.59	130	25.47	0.0075
R	RP5	6-	2016	660	19.71	130	25.62	0.011
R	RP5	6-	2016	640	19.88	130	25.84	0.012
R	RP5	6-	2016	620	20.06	130	26.08	0.011
R	RP5	6-	2016	600	20.23	130	26.3	0.0115
R	RP5	6-	2016	580	20.41	130	26.53	0.012
R	RP5	6-	2016	560	20.59	130	26.77	0.011
R	RP5	6-	2016	540	20.76	130	26.99	0.0115
R	RP5	6-	2016	520	20.94	130	27.22	0.021
R	RP5	6-	2016	500	21.26	130	27.64	0.0215
R	RP5	6-	2016	480	21.59	130	28.07	0.0215
R	RP5	6-	2016	460	21.92	130	28.5	0.0205
R	RP5	6-	2016	440	22.24	130	28.91	0.0215
R	RP5	6-	2016	420	22.57	130	29.34	0.0215
R	RP5	6-	2016	400	22.9	130	29.77	0.021
R	RP5	6-	2016	380	23.22	130	30.19	0.0215
R	RP5	6-	2016	360	23.55	130	30.62	0.022
R	RP5	6-	2016	340	23.89	130	31.06	0.0205

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	6-	2016	320	24.21	130	31.47	0.0215
R	RP5	6-	2016	300	24.54	130	31.9	0.026
R	RP5	6-	2016	280	24.94	130	32.42	0.026
R	RP5	6-	2016	260	25.34	130	32.94	0.026
R	RP5	6-	2016	240	25.74	130	33.46	0.036
R	RP5	6-	2016	220	26.29	130	34.18	0.0355
R	RP5	6-	2016	200	26.84	130	34.89	0.069
R	RP5	6-	2016	180	27.9	130	36.27	0.078
R	RP5	6-	2016	160	29.1	130	37.83	0.078
R	RP5	6-	2016	140	30.3	130	39.39	0.1365
R	RP5	6-	2016	120	32.4	130	42.12	0.143
R	RP5	6-	2016	100	34.6	130	44.98	0
R	RP5	6+	2016	99999999	15.35	130	19.96	0
R	RP5	6+	2016	5000	15.35	130	19.96	0.00011
R	RP5	6+	2016	4000	15.44	130	20.07	0.00012
R	RP5	6+	2016	3000	15.53	130	20.19	0.0001
R	RP5	6+	2016	2000	15.61	130	20.29	0.0012
R	RP5	6+	2016	1900	15.7	130	20.41	0.0012
R	RP5	6+	2016	1800	15.79	130	20.53	0.0011
R	RP5	6+	2016	1700	15.88	130	20.64	0.0012
R	RP5	6+	2016	1600	15.97	130	20.76	0.0011
R	RP5	6+	2016	1500	16.05	130	20.87	0.0011
R	RP5	6+	2016	1400	16.14	130	20.98	0.006
R	RP5	6+	2016	1380	16.23	130	21.1	0.006
R	RP5	6+	2016	1360	16.32	130	21.22	0.0055
R	RP5	6+	2016	1340	16.41	130	21.33	0.0055
R	RP5	6+	2016	1320	16.49	130	21.44	0.0055
R	RP5	6+	2016	1300	16.58	130	21.55	0.006
R	RP5	6+	2016	1280	16.67	130	21.67	0.006
R	RP5	6+	2016	1260	16.76	130	21.79	0.006
R	RP5	6+	2016	1240	16.85	130	21.91	0.005
R	RP5	6+	2016	1220	16.93	130	22.01	0.006
R	RP5	6+	2016	1200	17.02	130	22.13	0.0055
R	RP5	6+	2016	1180	17.11	130	22.24	0.006
R	RP5	6+	2016	1160	17.2	130	22.36	0.006
R	RP5	6+	2016	1140	17.29	130	22.48	0.005
R	RP5	6+	2016	1120	17.37	130	22.58	0.006
R	RP5	6+	2016	1100	17.46	130	22.7	0.006
R	RP5	6+	2016	1080	17.55	130	22.82	0.0055
R	RP5	6+	2016	1060	17.64	130	22.93	0.006
R	RP5	6+	2016	1040	17.73	130	23.05	0.005
R	RP5	6+	2016	1020	17.81	130	23.15	0.006
R	RP5	6+	2016	1000	17.9	130	23.27	0.006
R	RP5	6+	2016	980	17.99	130	23.39	0.007

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	6+	2016	960	18.1	130	23.53	0.006
R	RP5	6+	2016	940	18.19	130	23.65	0.005
R	RP5	6+	2016	920	18.27	130	23.75	0.006
R	RP5	6+	2016	900	18.36	130	23.87	0.005
R	RP5	6+	2016	880	18.44	130	23.97	0.008
R	RP5	6+	2016	860	18.56	130	24.13	0.005
R	RP5	6+	2016	840	18.64	130	24.23	0.0055
R	RP5	6+	2016	820	18.72	130	24.34	0.0055
R	RP5	6+	2016	800	18.81	130	24.45	0.0085
R	RP5	6+	2016	780	18.94	130	24.62	0.0085
R	RP5	6+	2016	760	19.07	130	24.79	0.0085
R	RP5	6+	2016	740	19.2	130	24.96	0.0085
R	RP5	6+	2016	720	19.33	130	25.13	0.0085
R	RP5	6+	2016	700	19.46	130	25.3	0.0085
R	RP5	6+	2016	680	19.59	130	25.47	0.0075
R	RP5	6+	2016	660	19.71	130	25.62	0.011
R	RP5	6+	2016	640	19.88	130	25.84	0.012
R	RP5	6+	2016	620	20.06	130	26.08	0.011
R	RP5	6+	2016	600	20.23	130	26.3	0.0115
R	RP5	6+	2016	580	20.41	130	26.53	0.012
R	RP5	6+	2016	560	20.59	130	26.77	0.011
R	RP5	6+	2016	540	20.76	130	26.99	0.0115
R	RP5	6+	2016	520	20.94	130	27.22	0.021
R	RP5	6+	2016	500	21.26	130	27.64	0.0215
R	RP5	6+	2016	480	21.59	130	28.07	0.0215
R	RP5	6+	2016	460	21.92	130	28.5	0.0205
R	RP5	6+	2016	440	22.24	130	28.91	0.0215
R	RP5	6+	2016	420	22.57	130	29.34	0.0215
R	RP5	6+	2016	400	22.9	130	29.77	0.021
R	RP5	6+	2016	380	23.22	130	30.19	0.0215
R	RP5	6+	2016	360	23.55	130	30.62	0.022
R	RP5	6+	2016	340	23.89	130	31.06	0.0205
R	RP5	6+	2016	320	24.21	130	31.47	0.0215
R	RP5	6+	2016	300	24.54	130	31.9	0.026
R	RP5	6+	2016	280	24.94	130	32.42	0.026
R	RP5	6+	2016	260	25.34	130	32.94	0.026
R	RP5	6+	2016	240	25.74	130	33.46	0.036
R	RP5	6+	2016	220	26.29	130	34.18	0.0355
R	RP5	6+	2016	200	26.84	130	34.89	0.069
R	RP5	6+	2016	180	27.9	130	36.27	0.078
R	RP5	6+	2016	160	29.1	130	37.83	0.078
R	RP5	6+	2016	140	30.3	130	39.39	0.1365
R	RP5	6+	2016	120	32.4	130	42.12	0.143
R	RP5	6+	2016	100	34.6	130	44.98	0

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	7-	2016	99999999	15.35	140	21.49	0
R	RP5	7-	2016	5000	15.35	140	21.49	0.00013
R	RP5	7-	2016	4000	15.44	140	21.62	0.00012
R	RP5	7-	2016	3000	15.53	140	21.74	0.00011
R	RP5	7-	2016	2000	15.61	140	21.85	0.0013
R	RP5	7-	2016	1900	15.7	140	21.98	0.0013
R	RP5	7-	2016	1800	15.79	140	22.11	0.0012
R	RP5	7-	2016	1700	15.88	140	22.23	0.0013
R	RP5	7-	2016	1600	15.97	140	22.36	0.0011
R	RP5	7-	2016	1500	16.05	140	22.47	0.0013
R	RP5	7-	2016	1400	16.14	140	22.6	0.006
R	RP5	7-	2016	1380	16.23	140	22.72	0.0065
R	RP5	7-	2016	1360	16.32	140	22.85	0.006
R	RP5	7-	2016	1340	16.41	140	22.97	0.006
R	RP5	7-	2016	1320	16.49	140	23.09	0.006
R	RP5	7-	2016	1300	16.58	140	23.21	0.0065
R	RP5	7-	2016	1280	16.67	140	23.34	0.006
R	RP5	7-	2016	1260	16.76	140	23.46	0.0065
R	RP5	7-	2016	1240	16.85	140	23.59	0.0055
R	RP5	7-	2016	1220	16.93	140	23.7	0.0065
R	RP5	7-	2016	1200	17.02	140	23.83	0.006
R	RP5	7-	2016	1180	17.11	140	23.95	0.0065
R	RP5	7-	2016	1160	17.2	140	24.08	0.0065
R	RP5	7-	2016	1140	17.29	140	24.21	0.0055
R	RP5	7-	2016	1120	17.37	140	24.32	0.006
R	RP5	7-	2016	1100	17.46	140	24.44	0.0065
R	RP5	7-	2016	1080	17.55	140	24.57	0.0065
R	RP5	7-	2016	1060	17.64	140	24.7	0.006
R	RP5	7-	2016	1040	17.73	140	24.82	0.0055
R	RP5	7-	2016	1020	17.81	140	24.93	0.0065
R	RP5	7-	2016	1000	17.9	140	25.06	0.0065
R	RP5	7-	2016	980	17.99	140	25.19	0.0075
R	RP5	7-	2016	960	18.1	140	25.34	0.0065
R	RP5	7-	2016	940	18.19	140	25.47	0.0055
R	RP5	7-	2016	920	18.27	140	25.58	0.006
R	RP5	7-	2016	900	18.36	140	25.7	0.006
R	RP5	7-	2016	880	18.44	140	25.82	0.008
R	RP5	7-	2016	860	18.56	140	25.98	0.006
R	RP5	7-	2016	840	18.64	140	26.1	0.0055
R	RP5	7-	2016	820	18.72	140	26.21	0.006
R	RP5	7-	2016	800	18.81	140	26.33	0.0095
R	RP5	7-	2016	780	18.94	140	26.52	0.009
R	RP5	7-	2016	760	19.07	140	26.7	0.009
R	RP5	7-	2016	740	19.2	140	26.88	0.009

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	7-	2016	720	19.33	140	27.06	0.009
R	RP5	7-	2016	700	19.46	140	27.24	0.0095
R	RP5	7-	2016	680	19.59	140	27.43	0.008
R	RP5	7-	2016	660	19.71	140	27.59	0.012
R	RP5	7-	2016	640	19.88	140	27.83	0.0125
R	RP5	7-	2016	620	20.06	140	28.08	0.012
R	RP5	7-	2016	600	20.23	140	28.32	0.0125
R	RP5	7-	2016	580	20.41	140	28.57	0.013
R	RP5	7-	2016	560	20.59	140	28.83	0.0115
R	RP5	7-	2016	540	20.76	140	29.06	0.013
R	RP5	7-	2016	520	20.94	140	29.32	0.022
R	RP5	7-	2016	500	21.26	140	29.76	0.0235
R	RP5	7-	2016	480	21.59	140	30.23	0.023
R	RP5	7-	2016	460	21.92	140	30.69	0.0225
R	RP5	7-	2016	440	22.24	140	31.14	0.023
R	RP5	7-	2016	420	22.57	140	31.6	0.023
R	RP5	7-	2016	400	22.9	140	32.06	0.0225
R	RP5	7-	2016	380	23.22	140	32.51	0.023
R	RP5	7-	2016	360	23.55	140	32.97	0.024
R	RP5	7-	2016	340	23.89	140	33.45	0.022
R	RP5	7-	2016	320	24.21	140	33.89	0.0235
R	RP5	7-	2016	300	24.54	140	34.36	0.028
R	RP5	7-	2016	280	24.94	140	34.92	0.028
R	RP5	7-	2016	260	25.34	140	35.48	0.028
R	RP5	7-	2016	240	25.74	140	36.04	0.0385
R	RP5	7-	2016	220	26.29	140	36.81	0.0385
R	RP5	7-	2016	200	26.84	140	37.58	0.074
R	RP5	7-	2016	180	27.9	140	39.06	0.084
R	RP5	7-	2016	160	29.1	140	40.74	0.084
R	RP5	7-	2016	140	30.3	140	42.42	0.147
R	RP5	7-	2016	120	32.4	140	45.36	0.154
R	RP5	7-	2016	100	34.6	140	48.44	0
R	RP5	7+	2016	99999999	15.35	140	21.49	0
R	RP5	7+	2016	5000	15.35	140	21.49	0.00013
R	RP5	7+	2016	4000	15.44	140	21.62	0.00012
R	RP5	7+	2016	3000	15.53	140	21.74	0.00011
R	RP5	7+	2016	2000	15.61	140	21.85	0.0013
R	RP5	7+	2016	1900	15.7	140	21.98	0.0013
R	RP5	7+	2016	1800	15.79	140	22.11	0.0012
R	RP5	7+	2016	1700	15.88	140	22.23	0.0013
R	RP5	7+	2016	1600	15.97	140	22.36	0.0011
R	RP5	7+	2016	1500	16.05	140	22.47	0.0013
R	RP5	7+	2016	1400	16.14	140	22.6	0.006
R	RP5	7+	2016	1380	16.23	140	22.72	0.0065

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	7+	2016	1360	16.32	140	22.85	0.006
R	RP5	7+	2016	1340	16.41	140	22.97	0.006
R	RP5	7+	2016	1320	16.49	140	23.09	0.006
R	RP5	7+	2016	1300	16.58	140	23.21	0.0065
R	RP5	7+	2016	1280	16.67	140	23.34	0.006
R	RP5	7+	2016	1260	16.76	140	23.46	0.0065
R	RP5	7+	2016	1240	16.85	140	23.59	0.0055
R	RP5	7+	2016	1220	16.93	140	23.7	0.0065
R	RP5	7+	2016	1200	17.02	140	23.83	0.006
R	RP5	7+	2016	1180	17.11	140	23.95	0.0065
R	RP5	7+	2016	1160	17.2	140	24.08	0.0065
R	RP5	7+	2016	1140	17.29	140	24.21	0.0055
R	RP5	7+	2016	1120	17.37	140	24.32	0.006
R	RP5	7+	2016	1100	17.46	140	24.44	0.0065
R	RP5	7+	2016	1080	17.55	140	24.57	0.0065
R	RP5	7+	2016	1060	17.64	140	24.7	0.006
R	RP5	7+	2016	1040	17.73	140	24.82	0.0055
R	RP5	7+	2016	1020	17.81	140	24.93	0.0065
R	RP5	7+	2016	1000	17.9	140	25.06	0.0065
R	RP5	7+	2016	980	17.99	140	25.19	0.0075
R	RP5	7+	2016	960	18.1	140	25.34	0.0065
R	RP5	7+	2016	940	18.19	140	25.47	0.0055
R	RP5	7+	2016	920	18.27	140	25.58	0.006
R	RP5	7+	2016	900	18.36	140	25.7	0.006
R	RP5	7+	2016	880	18.44	140	25.82	0.008
R	RP5	7+	2016	860	18.56	140	25.98	0.006
R	RP5	7+	2016	840	18.64	140	26.1	0.0055
R	RP5	7+	2016	820	18.72	140	26.21	0.006
R	RP5	7+	2016	800	18.81	140	26.33	0.0095
R	RP5	7+	2016	780	18.94	140	26.52	0.009
R	RP5	7+	2016	760	19.07	140	26.7	0.009
R	RP5	7+	2016	740	19.2	140	26.88	0.009
R	RP5	7+	2016	720	19.33	140	27.06	0.009
R	RP5	7+	2016	700	19.46	140	27.24	0.0095
R	RP5	7+	2016	680	19.59	140	27.43	0.008
R	RP5	7+	2016	660	19.71	140	27.59	0.012
R	RP5	7+	2016	640	19.88	140	27.83	0.0125
R	RP5	7+	2016	620	20.06	140	28.08	0.012
R	RP5	7+	2016	600	20.23	140	28.32	0.0125
R	RP5	7+	2016	580	20.41	140	28.57	0.013
R	RP5	7+	2016	560	20.59	140	28.83	0.0115
R	RP5	7+	2016	540	20.76	140	29.06	0.013
R	RP5	7+	2016	520	20.94	140	29.32	0.022
R	RP5	7+	2016	500	21.26	140	29.76	0.0235

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	7+	2016	480	21.59	140	30.23	0.023
R	RP5	7+	2016	460	21.92	140	30.69	0.0225
R	RP5	7+	2016	440	22.24	140	31.14	0.023
R	RP5	7+	2016	420	22.57	140	31.6	0.023
R	RP5	7+	2016	400	22.9	140	32.06	0.0225
R	RP5	7+	2016	380	23.22	140	32.51	0.023
R	RP5	7+	2016	360	23.55	140	32.97	0.024
R	RP5	7+	2016	340	23.89	140	33.45	0.022
R	RP5	7+	2016	320	24.21	140	33.89	0.0235
R	RP5	7+	2016	300	24.54	140	34.36	0.028
R	RP5	7+	2016	280	24.94	140	34.92	0.028
R	RP5	7+	2016	260	25.34	140	35.48	0.028
R	RP5	7+	2016	240	25.74	140	36.04	0.0385
R	RP5	7+	2016	220	26.29	140	36.81	0.0385
R	RP5	7+	2016	200	26.84	140	37.58	0.074
R	RP5	7+	2016	180	27.9	140	39.06	0.084
R	RP5	7+	2016	160	29.1	140	40.74	0.084
R	RP5	7+	2016	140	30.3	140	42.42	0.147
R	RP5	7+	2016	120	32.4	140	45.36	0.154
R	RP5	7+	2016	100	34.6	140	48.44	0
R	RP5	8-	2016	99999999	15.35	140	21.49	0
R	RP5	8-	2016	5000	15.35	140	21.49	0.00013
R	RP5	8-	2016	4000	15.44	140	21.62	0.00012
R	RP5	8-	2016	3000	15.53	140	21.74	0.00011
R	RP5	8-	2016	2000	15.61	140	21.85	0.0013
R	RP5	8-	2016	1900	15.7	140	21.98	0.0013
R	RP5	8-	2016	1800	15.79	140	22.11	0.0012
R	RP5	8-	2016	1700	15.88	140	22.23	0.0013
R	RP5	8-	2016	1600	15.97	140	22.36	0.0011
R	RP5	8-	2016	1500	16.05	140	22.47	0.0013
R	RP5	8-	2016	1400	16.14	140	22.6	0.006
R	RP5	8-	2016	1380	16.23	140	22.72	0.0065
R	RP5	8-	2016	1360	16.32	140	22.85	0.006
R	RP5	8-	2016	1340	16.41	140	22.97	0.006
R	RP5	8-	2016	1320	16.49	140	23.09	0.006
R	RP5	8-	2016	1300	16.58	140	23.21	0.0065
R	RP5	8-	2016	1280	16.67	140	23.34	0.006
R	RP5	8-	2016	1260	16.76	140	23.46	0.0065
R	RP5	8-	2016	1240	16.85	140	23.59	0.0055
R	RP5	8-	2016	1220	16.93	140	23.7	0.0065
R	RP5	8-	2016	1200	17.02	140	23.83	0.006
R	RP5	8-	2016	1180	17.11	140	23.95	0.0065
R	RP5	8-	2016	1160	17.2	140	24.08	0.0065
R	RP5	8-	2016	1140	17.29	140	24.21	0.0055

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	8-	2016	1120	17.37	140	24.32	0.006
R	RP5	8-	2016	1100	17.46	140	24.44	0.0065
R	RP5	8-	2016	1080	17.55	140	24.57	0.0065
R	RP5	8-	2016	1060	17.64	140	24.7	0.006
R	RP5	8-	2016	1040	17.73	140	24.82	0.0055
R	RP5	8-	2016	1020	17.81	140	24.93	0.0065
R	RP5	8-	2016	1000	17.9	140	25.06	0.0065
R	RP5	8-	2016	980	17.99	140	25.19	0.0075
R	RP5	8-	2016	960	18.1	140	25.34	0.0065
R	RP5	8-	2016	940	18.19	140	25.47	0.0055
R	RP5	8-	2016	920	18.27	140	25.58	0.006
R	RP5	8-	2016	900	18.36	140	25.7	0.006
R	RP5	8-	2016	880	18.44	140	25.82	0.008
R	RP5	8-	2016	860	18.56	140	25.98	0.006
R	RP5	8-	2016	840	18.64	140	26.1	0.0055
R	RP5	8-	2016	820	18.72	140	26.21	0.006
R	RP5	8-	2016	800	18.81	140	26.33	0.0095
R	RP5	8-	2016	780	18.94	140	26.52	0.009
R	RP5	8-	2016	760	19.07	140	26.7	0.009
R	RP5	8-	2016	740	19.2	140	26.88	0.009
R	RP5	8-	2016	720	19.33	140	27.06	0.009
R	RP5	8-	2016	700	19.46	140	27.24	0.0095
R	RP5	8-	2016	680	19.59	140	27.43	0.008
R	RP5	8-	2016	660	19.71	140	27.59	0.012
R	RP5	8-	2016	640	19.88	140	27.83	0.0125
R	RP5	8-	2016	620	20.06	140	28.08	0.012
R	RP5	8-	2016	600	20.23	140	28.32	0.0125
R	RP5	8-	2016	580	20.41	140	28.57	0.013
R	RP5	8-	2016	560	20.59	140	28.83	0.0115
R	RP5	8-	2016	540	20.76	140	29.06	0.013
R	RP5	8-	2016	520	20.94	140	29.32	0.022
R	RP5	8-	2016	500	21.26	140	29.76	0.0235
R	RP5	8-	2016	480	21.59	140	30.23	0.023
R	RP5	8-	2016	460	21.92	140	30.69	0.0225
R	RP5	8-	2016	440	22.24	140	31.14	0.023
R	RP5	8-	2016	420	22.57	140	31.6	0.023
R	RP5	8-	2016	400	22.9	140	32.06	0.0225
R	RP5	8-	2016	380	23.22	140	32.51	0.023
R	RP5	8-	2016	360	23.55	140	32.97	0.024
R	RP5	8-	2016	340	23.89	140	33.45	0.022
R	RP5	8-	2016	320	24.21	140	33.89	0.0235
R	RP5	8-	2016	300	24.54	140	34.36	0.028
R	RP5	8-	2016	280	24.94	140	34.92	0.028
R	RP5	8-	2016	260	25.34	140	35.48	0.028

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLATE
R	RP5	8-	2016	240	25.74	140	36.04	0.0385
R	RP5	8-	2016	220	26.29	140	36.81	0.0385
R	RP5	8-	2016	200	26.84	140	37.58	0.074
R	RP5	8-	2016	180	27.9	140	39.06	0.084
R	RP5	8-	2016	160	29.1	140	40.74	0.084
R	RP5	8-	2016	140	30.3	140	42.42	0.147
R	RP5	8-	2016	120	32.4	140	45.36	0.154
R	RP5	8-	2016	100	34.6	140	48.44	0
R	RP5	8+	2016	9999999	15.35	140	21.49	0
R	RP5	8+	2016	5000	15.35	140	21.49	0.00013
R	RP5	8+	2016	4000	15.44	140	21.62	0.00012
R	RP5	8+	2016	3000	15.53	140	21.74	0.00011
R	RP5	8+	2016	2000	15.61	140	21.85	0.0013
R	RP5	8+	2016	1900	15.7	140	21.98	0.0013
R	RP5	8+	2016	1800	15.79	140	22.11	0.0012
R	RP5	8+	2016	1700	15.88	140	22.23	0.0013
R	RP5	8+	2016	1600	15.97	140	22.36	0.0011
R	RP5	8+	2016	1500	16.05	140	22.47	0.0013
R	RP5	8+	2016	1400	16.14	140	22.6	0.006
R	RP5	8+	2016	1380	16.23	140	22.72	0.0065
R	RP5	8+	2016	1360	16.32	140	22.85	0.006
R	RP5	8+	2016	1340	16.41	140	22.97	0.006
R	RP5	8+	2016	1320	16.49	140	23.09	0.006
R	RP5	8+	2016	1300	16.58	140	23.21	0.0065
R	RP5	8+	2016	1280	16.67	140	23.34	0.006
R	RP5	8+	2016	1260	16.76	140	23.46	0.0065
R	RP5	8+	2016	1240	16.85	140	23.59	0.0055
R	RP5	8+	2016	1220	16.93	140	23.7	0.0065
R	RP5	8+	2016	1200	17.02	140	23.83	0.006
R	RP5	8+	2016	1180	17.11	140	23.95	0.0065
R	RP5	8+	2016	1160	17.2	140	24.08	0.0065
R	RP5	8+	2016	1140	17.29	140	24.21	0.0055
R	RP5	8+	2016	1120	17.37	140	24.32	0.006
R	RP5	8+	2016	1100	17.46	140	24.44	0.0065
R	RP5	8+	2016	1080	17.55	140	24.57	0.0065
R	RP5	8+	2016	1060	17.64	140	24.7	0.006
R	RP5	8+	2016	1040	17.73	140	24.82	0.0055
R	RP5	8+	2016	1020	17.81	140	24.93	0.0065
R	RP5	8+	2016	1000	17.9	140	25.06	0.0065
R	RP5	8+	2016	980	17.99	140	25.19	0.0075
R	RP5	8+	2016	960	18.1	140	25.34	0.0065
R	RP5	8+	2016	940	18.19	140	25.47	0.0055
R	RP5	8+	2016	920	18.27	140	25.58	0.006
R	RP5	8+	2016	900	18.36	140	25.7	0.006

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RP5	8+	2016	880	18.44	140	25.82	0.008
R	RP5	8+	2016	860	18.56	140	25.98	0.006
R	RP5	8+	2016	840	18.64	140	26.1	0.0055
R	RP5	8+	2016	820	18.72	140	26.21	0.006
R	RP5	8+	2016	800	18.81	140	26.33	0.0095
R	RP5	8+	2016	780	18.94	140	26.52	0.009
R	RP5	8+	2016	760	19.07	140	26.7	0.009
R	RP5	8+	2016	740	19.2	140	26.88	0.009
R	RP5	8+	2016	720	19.33	140	27.06	0.009
R	RP5	8+	2016	700	19.46	140	27.24	0.0095
R	RP5	8+	2016	680	19.59	140	27.43	0.008
R	RP5	8+	2016	660	19.71	140	27.59	0.012
R	RP5	8+	2016	640	19.88	140	27.83	0.0125
R	RP5	8+	2016	620	20.06	140	28.08	0.012
R	RP5	8+	2016	600	20.23	140	28.32	0.0125
R	RP5	8+	2016	580	20.41	140	28.57	0.013
R	RP5	8+	2016	560	20.59	140	28.83	0.0115
R	RP5	8+	2016	540	20.76	140	29.06	0.013
R	RP5	8+	2016	520	20.94	140	29.32	0.022
R	RP5	8+	2016	500	21.26	140	29.76	0.0235
R	RP5	8+	2016	480	21.59	140	30.23	0.023
R	RP5	8+	2016	460	21.92	140	30.69	0.0225
R	RP5	8+	2016	440	22.24	140	31.14	0.023
R	RP5	8+	2016	420	22.57	140	31.6	0.023
R	RP5	8+	2016	400	22.9	140	32.06	0.0225
R	RP5	8+	2016	380	23.22	140	32.51	0.023
R	RP5	8+	2016	360	23.55	140	32.97	0.024
R	RP5	8+	2016	340	23.89	140	33.45	0.022
R	RP5	8+	2016	320	24.21	140	33.89	0.0235
R	RP5	8+	2016	300	24.54	140	34.36	0.028
R	RP5	8+	2016	280	24.94	140	34.92	0.028
R	RP5	8+	2016	260	25.34	140	35.48	0.028
R	RP5	8+	2016	240	25.74	140	36.04	0.0385
R	RP5	8+	2016	220	26.29	140	36.81	0.0385
R	RP5	8+	2016	200	26.84	140	37.58	0.074
R	RP5	8+	2016	180	27.9	140	39.06	0.084
R	RP5	8+	2016	160	29.1	140	40.74	0.084
R	RP5	8+	2016	140	30.3	140	42.42	0.147
R	RP5	8+	2016	120	32.4	140	45.36	0.154
R	RP5	8+	2016	100	34.6	140	48.44	0
R	RS1	1	2016	99999999	3.8	80	3.04	
R	RS1	2	2016	99999999	3.8	80	3.04	
R	RS1	3	2016	99999999	3.8	80	3.04	
R	RS1	4	2016	99999999	3.8	100	3.8	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	RS1	5	2016	99999999	3.8	120	4.56	
R	RS1	6	2016	99999999	3.8	120	4.56	
R	RS1	7	2016	99999999	3.8	120	4.56	
R	RS1	8	2016	99999999	3.8	120	4.56	
R	RS1	*	2016	99999999	3.8	100	3.8	
R	RS2	1	2016	99999999	5.7	80	4.56	
R	RS2	2	2016	99999999	5.7	80	4.56	
R	RS2	3	2016	99999999	5.7	80	4.56	
R	RS2	4	2016	99999999	5.7	100	5.7	
R	RS2	5	2016	99999999	5.7	120	6.84	
R	RS2	6	2016	99999999	5.7	120	6.84	
R	RS2	7	2016	99999999	5.7	120	6.84	
R	RS2	8	2016	99999999	5.7	120	6.84	
R	RS2	*	2016	99999999	5.7	100	5.7	
R	RS3	1	2016	99999999	8.5	80	6.8	
R	RS3	2	2016	99999999	8.5	80	6.8	
R	RS3	3	2016	99999999	8.5	80	6.8	
R	RS3	4	2016	99999999	8.5	100	8.5	
R	RS3	5	2016	99999999	8.5	120	10.2	
R	RS3	6	2016	99999999	8.5	120	10.2	
R	RS3	7	2016	99999999	8.5	120	10.2	
R	RS3	8	2016	99999999	8.5	120	10.2	
R	RS3	*	2016	99999999	8.5	100	8.5	
R	SM1	*	2016	1E+12	4.06	100	4.06	
R	SM2	*	2016	1E+12	9.36	100	9.36	
R	SM3	*	2016	1E+12	3.78	100	3.78	
R	SM4	*	2016	1E+12	3.12	100	3.12	
R	SM5	*	2016	1E+12	4.29	100	4.29	
R	SM6	*	2016	1E+12	18.56	100	18.56	
R	SM7	*	2016	1E+12	9.91	100	9.91	
R	SP	1	2016	99999999	4.13	35	1.45	
R	SP	2	2016	99999999	4.13	55	2.27	
R	SP	3	2016	99999999	4.13	78	3.22	
R	SP	4	2016	99999999	4.13	100	4.13	
R	SP	5	2016	99999999	4.13	128	5.29	
R	SP	6	2016	99999999	4.13	168	6.94	
R	SP	7	2016	99999999	4.13	230	9.5	
R	SP	8	2016	99999999	4.13	261	10.78	
R	SP	*	2016	99999999	4.13	100	4.13	
R	SP	1-	2016	99999999	4.13	30	1.24	
R	SP	1+	2016	99999999	4.13	40	1.65	
R	SP	2-	2016	99999999	4.13	47	1.94	
R	SP	2+	2016	99999999	4.13	63	2.6	
R	SP	3-	2016	99999999	4.13	70	2.89	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	SP	3+	2016	99999999	4.13	86	3.55	
R	SP	4-	2016	99999999	4.13	92	3.8	
R	SP	4+	2016	99999999	4.13	107	4.42	
R	SP	5-	2016	99999999	4.13	117	4.83	
R	SP	5+	2016	99999999	4.13	141	5.82	
R	SP	6-	2016	99999999	4.13	152	6.28	
R	SP	6+	2016	99999999	4.13	187	7.72	
R	SP	7-	2016	99999999	4.13	204	8.43	
R	SP	7+	2016	99999999	4.13	259	10.7	
R	SP	8-	2016	99999999	4.13	230	9.5	
R	SP	8+	2016	99999999	4.13	295	12.18	
R	SP1	*	2016	1E+12	332.5	100	332.5	
R	SP2	*	2016	1E+12	133	100	133	
R	SP3	*	2016	1E+12	123.5	100	123.5	
R	TC1	1	2016	1E+12	10263.98	10	1026.4	
R	TC1	2	2016	1E+12	10263.98	10	1026.4	
R	TC1	3	2016	1E+12	10263.98	10	1026.4	
R	TC1	4	2016	1E+12	11404.54	10	1140.45	
R	TC1	5	2016	1E+12	12545.1	100	12545.1	
R	TC1	6	2016	1E+12	12545.1	100	12545.1	
R	TC1	7	2016	1E+12	12545.1	100	12545.1	
R	TC1	8	2016	1E+12	12545.1	100	12545.1	
R	TC2	1	2016	1E+12	12335.22	100	12335.22	
R	TC2	2	2016	1E+12	12335.22	100	12335.22	
R	TC2	3	2016	1E+12	12335.22	100	12335.22	
R	TC2	4	2016	1E+12	13705.8	100	13705.8	
R	TC2	5	2016	1E+12	15076.38	100	15076.38	
R	TC2	6	2016	1E+12	15076.38	100	15076.38	
R	TC2	7	2016	1E+12	15076.38	100	15076.38	
R	TC2	8	2016	1E+12	15076.38	100	15076.38	
R	TC3	1	2016	1E+12	7202.7	100	7202.7	
R	TC3	2	2016	1E+12	7202.7	100	7202.7	
R	TC3	3	2016	1E+12	7202.7	100	7202.7	
R	TC3	4	2016	1E+12	8003	100	8003	
R	TC3	5	2016	1E+12	8803.3	100	8803.3	
R	TC3	6	2016	1E+12	8803.3	100	8803.3	
R	TC3	7	2016	1E+12	8803.3	100	8803.3	
R	TC3	8	2016	1E+12	8803.3	100	8803.3	
R	UB	1	2016	99999999	13.78	35	4.82	
R	UB	2	2016	99999999	13.78	63	8.68	
R	UB	3	2016	99999999	13.78	86	11.85	
R	UB	4	2016	99999999	13.78	100	13.78	
R	UB	5	2016	99999999	13.78	128	17.64	
R	UB	6	2016	99999999	13.78	168	23.15	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	UB	7	2016	99999999	13.78	230	31.69	
R	UB	8	2016	99999999	13.78	261	35.97	
R	UB	*	2016	99999999	13.78	100	13.78	
R	UB	1-	2016	99999999	13.78	30	4.13	
R	UB	1+	2016	99999999	13.78	47	6.48	
R	UB	2-	2016	99999999	13.78	55	7.58	
R	UB	2+	2016	99999999	13.78	70	9.65	
R	UB	3-	2016	99999999	13.78	78	10.75	
R	UB	3+	2016	99999999	13.78	81	11.16	
R	UB	4-	2016	99999999	13.78	92	12.68	
R	UB	4+	2016	99999999	13.78	107	14.74	
R	UB	5-	2016	99999999	13.78	117	16.12	
R	UB	5+	2016	99999999	13.78	141	19.43	
R	UB	6-	2016	99999999	13.78	152	20.95	
R	UB	6+	2016	99999999	13.78	187	25.77	
R	UB	7-	2016	99999999	13.78	204	28.11	
R	UB	7+	2016	99999999	13.78	259	35.69	
R	UB	8-	2016	99999999	13.78	230	31.69	
R	UB	8+	2016	99999999	13.78	295	40.65	
R	WD	1	2016	99999999	4.75	35	1.66	
R	WD	2	2016	99999999	4.75	55	2.61	
R	WD	3	2016	99999999	4.75	78	3.71	
R	WD	4	2016	99999999	4.75	100	4.75	
R	WD	5	2016	99999999	4.75	128	6.08	
R	WD	6	2016	99999999	4.75	168	7.98	
R	WD	7	2016	99999999	4.75	230	10.93	
R	WD	8	2016	99999999	4.75	261	12.4	
R	WD	*	2016	99999999	4.75	100	4.75	
R	WD	1-	2016	99999999	4.75	30	1.43	
R	WD	1+	2016	99999999	4.75	40	1.9	
R	WD	2-	2016	99999999	4.75	47	2.23	
R	WD	2+	2016	99999999	4.75	63	2.99	
R	WD	3-	2016	99999999	4.75	70	3.33	
R	WD	3+	2016	99999999	4.75	86	4.09	
R	WD	4-	2016	99999999	4.75	92	4.37	
R	WD	4+	2016	99999999	4.75	107	5.08	
R	WD	5-	2016	99999999	4.75	117	5.56	
R	WD	5+	2016	99999999	4.75	141	6.7	
R	WD	6-	2016	99999999	4.75	152	7.22	
R	WD	6+	2016	99999999	4.75	187	8.88	
R	WD	7-	2016	99999999	4.75	204	9.69	
R	WD	7+	2016	99999999	4.75	259	12.3	
R	WD	8-	2016	99999999	4.75	230	10.93	
R	WD	8+	2016	99999999	4.75	295	14.01	

METHOD CODE	IMP TYPE	IMP CLASS	IMP YR	RANGE MAX	PRICE	%	ADJ PRICE	INTERPOLAT E
R	WD2	1	2016	99999999	4.75	35	1.66	
R	WD2	2	2016	99999999	4.75	55	2.61	
R	WD2	3	2016	99999999	4.75	78	3.71	
R	WD2	4	2016	99999999	4.75	100	4.75	
R	WD2	5	2016	99999999	4.75	128	6.08	
R	WD2	6	2016	99999999	4.75	168	7.98	
R	WD2	7	2016	99999999	4.75	230	10.93	
R	WD2	8	2016	99999999	4.75	261	12.4	
R	WD2	*	2016	99999999	4.75	100	4.75	
R	WD2	1-	2016	99999999	4.75	30	1.43	
R	WD2	1+	2016	99999999	4.75	40	1.9	
R	WD2	2-	2016	99999999	4.75	47	2.23	
R	WD2	2+	2016	99999999	4.75	63	2.99	
R	WD2	3-	2016	99999999	4.75	70	3.33	
R	WD2	3+	2016	99999999	4.75	86	4.09	
R	WD2	4-	2016	99999999	4.75	92	4.37	
R	WD2	4+	2016	99999999	4.75	107	5.08	
R	WD2	5-	2016	99999999	4.75	117	5.56	
R	WD2	5+	2016	99999999	4.75	141	6.7	
R	WD2	6-	2016	99999999	4.75	152	7.22	
R	WD2	6+	2016	99999999	4.75	187	8.88	
R	WD2	7-	2016	99999999	4.75	204	9.69	
R	WD2	7+	2016	99999999	4.75	259	12.3	
R	WD2	8-	2016	99999999	4.75	230	10.93	
R	WD2	8+	2016	99999999	4.75	295	14.01	

ATT ID	ATT CD	METHOD	TYPE CD	CLASS	BASE UP	ATT UP	BASE INC	ATT INC	ATT PCT
3	R1	R	MA	1					109
3	R1	R	MA	2					109
3	R1	R	MA	3					109
3	R1	R	MA	4					109
3	R1	R	MA	5					109
3	R1	R	MA	6					109
3	R1	R	MA	7					109
3	R1	R	MA	8					109
3	R1	R	MA	1-					109
3	R1	R	MA	1+					109
3	R1	R	MA	2-					109
3	R1	R	MA	2+					109
3	R1	R	MA	3-					109
3	R1	R	MA	3+					109
3	R1	R	MA	4-					109
3	R1	R	MA	4+					109
3	R1	R	MA	5-					109
3	R1	R	MA	5+					109
3	R1	R	MA	6-					109
3	R1	R	MA	6+					109
3	R1	R	MA	7-					109
3	R1	R	MA	7+					109
3	R1	R	MA	8-					109
3	R1	R	MA	8+					109
3	R2	R	MA	1					100
3	R2	R	MA	2					100
3	R2	R	MA	3					100
3	R2	R	MA	4					100
3	R2	R	MA	5					100
3	R2	R	MA	6					100
3	R2	R	MA	7					100
3	R2	R	MA	8					100
3	R2	R	MA	1-					100
3	R2	R	MA	1+					100
3	R2	R	MA	2-					100
3	R2	R	MA	2+					100
3	R2	R	MA	3-					100
3	R2	R	MA	3+					100
3	R2	R	MA	4-					100
3	R2	R	MA	4+					100
3	R2	R	MA	5-					100
3	R2	R	MA	5+					100
3	R2	R	MA	6-					100
3	R2	R	MA	6+					100

3	R2	R	MA	7-					100
3	R2	R	MA	7+					100
3	R2	R	MA	8-					100
3	R2	R	MA	8+					100
3	R3	R	MA	1					112
3	R3	R	MA	2					112
3	R3	R	MA	3					112
3	R3	R	MA	4					112
3	R3	R	MA	5					112
3	R3	R	MA	6					112
3	R3	R	MA	7					112
3	R3	R	MA	8					112
3	R3	R	MA	1-					112
3	R3	R	MA	1+					112
3	R3	R	MA	2-					112
3	R3	R	MA	2+					112
3	R3	R	MA	3-					112
3	R3	R	MA	3+					112
3	R3	R	MA	4-					112
3	R3	R	MA	4+					112
3	R3	R	MA	5-					112
3	R3	R	MA	5+					112
3	R3	R	MA	6-					112
3	R3	R	MA	6+					112
3	R3	R	MA	7-					112
3	R3	R	MA	7+					112
3	R3	R	MA	8-					112
3	R3	R	MA	8+					112
3	R4	R	MA	1					107
3	R4	R	MA	2					107
3	R4	R	MA	3					107
3	R4	R	MA	4					107
3	R4	R	MA	5					107
3	R4	R	MA	6					107
3	R4	R	MA	7					107
3	R4	R	MA	8					107
3	R4	R	MA	1-					107
3	R4	R	MA	1+					107
3	R4	R	MA	2-					107
3	R4	R	MA	2+					107
3	R4	R	MA	3-					107
3	R4	R	MA	3+					107
3	R4	R	MA	4-					107
3	R4	R	MA	4+					107
3	R4	R	MA	5-					107
3	R4	R	MA	5+					107

3	R4	R	MA	6-					107
3	R4	R	MA	6+					107
3	R4	R	MA	7-					107
3	R4	R	MA	7+					107
3	R4	R	MA	8-					107
3	R4	R	MA	8+					107
3	R5	R	MA	1					100
3	R5	R	MA	2					100
3	R5	R	MA	3					100
3	R5	R	MA	4					100
3	R5	R	MA	5					100
3	R5	R	MA	6					100
3	R5	R	MA	7					100
3	R5	R	MA	8					100
3	R5	R	MA	1-					100
3	R5	R	MA	1+					100
3	R5	R	MA	2-					100
3	R5	R	MA	2+					100
3	R5	R	MA	3-					100
3	R5	R	MA	3+					100
3	R5	R	MA	4-					100
3	R5	R	MA	4+					100
3	R5	R	MA	5-					100
3	R5	R	MA	5+					100
3	R5	R	MA	6-					100
3	R5	R	MA	6+					100
3	R5	R	MA	7-					100
3	R5	R	MA	7+					100
3	R5	R	MA	8-					100
3	R5	R	MA	8+					100
3	R6	R	MA	1					100
3	R6	R	MA	2					100
3	R6	R	MA	3					100
3	R6	R	MA	4					100
3	R6	R	MA	5					100
3	R6	R	MA	6					100
3	R6	R	MA	7					100
3	R6	R	MA	8					100
3	R6	R	MA	1-					100
3	R6	R	MA	1+					100
3	R6	R	MA	2-					100
3	R6	R	MA	2+					100
3	R6	R	MA	3-					100
3	R6	R	MA	3+					100
3	R6	R	MA	4-					100
3	R6	R	MA	4+					100

3	R6	R	MA	5-					100
3	R6	R	MA	5+					100
3	R6	R	MA	6-					100
3	R6	R	MA	6+					100
3	R6	R	MA	7-					100
3	R6	R	MA	7+					100
3	R6	R	MA	8-					100
3	R6	R	MA	8+					100
3	R7	R	MA	1					100
3	R7	R	MA	2					100
3	R7	R	MA	3					100
3	R7	R	MA	4					100
3	R7	R	MA	5					100
3	R7	R	MA	6					100
3	R7	R	MA	7					100
3	R7	R	MA	8					100
3	R7	R	MA	1-					100
3	R7	R	MA	1+					100
3	R7	R	MA	2-					100
3	R7	R	MA	2+					100
3	R7	R	MA	3-					100
3	R7	R	MA	3+					100
3	R7	R	MA	4-					100
3	R7	R	MA	4+					100
3	R7	R	MA	5-					100
3	R7	R	MA	5+					100
3	R7	R	MA	6-					100
3	R7	R	MA	6+					100
3	R7	R	MA	7-					100
3	R7	R	MA	7+					100
3	R7	R	MA	8-					100
3	R7	R	MA	8+					100
3	R8	R	MA	1					100
3	R8	R	MA	2					100
3	R8	R	MA	3					100
3	R8	R	MA	4					100
3	R8	R	MA	5					100
3	R8	R	MA	6					100
3	R8	R	MA	7					100
3	R8	R	MA	8					100
3	R8	R	MA	1-					100
3	R8	R	MA	1+					100
3	R8	R	MA	2-					100
3	R8	R	MA	2+					100
3	R8	R	MA	3-					100
3	R8	R	MA	3+					100

3	R8	R	MA	4-					100
3	R8	R	MA	4+					100
3	R8	R	MA	5-					100
3	R8	R	MA	5+					100
3	R8	R	MA	6-					100
3	R8	R	MA	6+					100
3	R8	R	MA	7-					100
3	R8	R	MA	7+					100
3	R8	R	MA	8-					100
3	R8	R	MA	8+					100
3	R9	R	MA	1					107
3	R9	R	MA	2					107
3	R9	R	MA	3					107
3	R9	R	MA	4					107
3	R9	R	MA	5					107
3	R9	R	MA	6					107
3	R9	R	MA	7					107
3	R9	R	MA	8					107
3	R9	R	MA	1-					107
3	R9	R	MA	1+					107
3	R9	R	MA	2-					107
3	R9	R	MA	2+					107
3	R9	R	MA	3-					107
3	R9	R	MA	3+					107
3	R9	R	MA	4-					107
3	R9	R	MA	4+					107
3	R9	R	MA	5-					107
3	R9	R	MA	5+					107
3	R9	R	MA	6-					107
3	R9	R	MA	6+					107
3	R9	R	MA	7-					107
3	R9	R	MA	7+					107
3	R9	R	MA	8-					107
3	R9	R	MA	8+					107
8	0	R	MA	1			0	0	
8	0	R	MA	2			-1660	-1660	
8	0	R	MA	1-			0	0	
8	0	R	MA	1+			0	0	
8	0	R	MA	2-			-1660	-1660	
8	0	R	MA	2+			-1660	-1660	
8	1	R	MA	1			-855	-855	
8	1	R	MA	2			1328	1328	
8	1	R	MA	3			-1520	-1520	
8	1	R	MA	4			-2562	-2562	
8	1	R	MA	5			-3990	-3990	
8	1	R	MA	6			-4948	-4948	

8	1	R	MA	7			-8550	-8550	
8	1	R	MA	8			-8550	-8550	
8	1	R	MA	1-			-855	-855	
8	1	R	MA	1+			-855	-855	
8	1	R	MA	2-			-1328	-1328	
8	1	R	MA	2+			1328	1328	
8	1	R	MA	3-			-1520	-1520	
8	1	R	MA	3+			-1520	-1520	
8	1	R	MA	4-			-2562	-2562	
8	1	R	MA	4+			-3990	-3990	
8	1	R	MA	5-			-2562	-2562	
8	1	R	MA	5+			-3990	-3990	
8	1	R	MA	6-			-4948	-4948	
8	1	R	MA	6+			-4948	-4948	
8	1	R	MA	7-			-8550	-8550	
8	1	R	MA	7+			-8550	-8550	
8	1	R	MA	8-			-8550	-8550	
8	1	R	MA	8+			-8550	-8550	
8	2	R	MA	1			-570	-570	
8	2	R	MA	2			-996	-996	
8	2	R	MA	3			-1140	-1140	
8	2	R	MA	4			-2135	-2135	
8	2	R	MA	5			-3420	-3420	
8	2	R	MA	6			-4272	-4272	
8	2	R	MA	7			-7695	-7695	
8	2	R	MA	8			-7695	-7695	
8	2	R	MA	1-			-570	-570	
8	2	R	MA	1+			-570	-570	
8	2	R	MA	2-			-996	-996	
8	2	R	MA	2+			-996	-996	
8	2	R	MA	3-			-1140	-1140	
8	2	R	MA	3+			-1140	-1140	
8	2	R	MA	4-			-2135	-2135	
8	2	R	MA	4+			-3420	-3420	
8	2	R	MA	5-			-2135	-2135	
8	2	R	MA	5+			-3420	-3420	
8	2	R	MA	6-			-4272	-4272	
8	2	R	MA	6+			-4272	-4272	
8	2	R	MA	7-			-7695	-7695	
8	2	R	MA	7+			-7695	-7695	
8	2	R	MA	8-			-7695	-7695	
8	2	R	MA	8+			-7695	-7695	
8	3	R	MA	1			-284	-284	
8	3	R	MA	2			-664	-664	
8	3	R	MA	3			-760	-760	
8	3	R	MA	4			-1708	-1708	

8	3	R	MA	5			-2850	-2850	
8	3	R	MA	6			-3560	-3560	
8	3	R	MA	7			-6840	-6840	
8	3	R	MA	8			-6840	-6840	
8	3	R	MA	1-			-284	-284	
8	3	R	MA	1+			-284	-284	
8	3	R	MA	2-			-664	-664	
8	3	R	MA	2+			-664	-664	
8	3	R	MA	3-			-760	-760	
8	3	R	MA	3+			-760	-760	
8	3	R	MA	4-			-1708	-1708	
8	3	R	MA	4+			-2850	-2850	
8	3	R	MA	5-			-1708	-1708	
8	3	R	MA	5+			-2850	-2850	
8	3	R	MA	6-			-3560	-3560	
8	3	R	MA	6+			-3560	-3560	
8	3	R	MA	7-			-6840	-6840	
8	3	R	MA	7+			-6840	-6840	
8	3	R	MA	8-			-6840	-6840	
8	3	R	MA	8+			-6840	-6840	
8	4	R	MA	1			0	0	
8	4	R	MA	2			-332	-332	
8	4	R	MA	3			-380	-380	
8	4	R	MA	4			-1281	-1281	
8	4	R	MA	5			-2280	-2280	
8	4	R	MA	6			-2848	-2848	
8	4	R	MA	7			-5985	-5985	
8	4	R	MA	8			-5985	-5985	
8	4	R	MA	1-			0	0	
8	4	R	MA	1+			0	0	
8	4	R	MA	2-			-332	-332	
8	4	R	MA	2+			-332	-332	
8	4	R	MA	3-			-380	-380	
8	4	R	MA	3+			-380	-380	
8	4	R	MA	4-			-1281	-1281	
8	4	R	MA	4+			-2280	-2280	
8	4	R	MA	5-			-1281	-1281	
8	4	R	MA	5+			-2280	-2280	
8	4	R	MA	6-			-2848	-2848	
8	4	R	MA	6+			-2848	-2848	
8	4	R	MA	7-			-5985	-5985	
8	4	R	MA	7+			-5985	-5985	
8	4	R	MA	8-			-5985	-5985	
8	4	R	MA	8+			-5985	-5985	
8	5	R	MA	1			285	285	
8	5	R	MA	2			0	0	

8	5	R	MA	3			-190	-190	
8	5	R	MA	4			-854	-854	
8	5	R	MA	5			-1710	-1710	
8	5	R	MA	6			-2136	-2136	
8	5	R	MA	7			-5130	-5130	
8	5	R	MA	8			-5130	-5130	
8	5	R	MA	1-			285	285	
8	5	R	MA	1+			285	285	
8	5	R	MA	2-			0	0	
8	5	R	MA	2+			0	0	
8	5	R	MA	3-			-190	-190	
8	5	R	MA	3+			-190	-190	
8	5	R	MA	4-			-854	-854	
8	5	R	MA	4+			-1710	-1710	
8	5	R	MA	5-			-854	-854	
8	5	R	MA	5+			-1710	-1710	
8	5	R	MA	6-			-2136	-2136	
8	5	R	MA	6+			-2136	-2136	
8	5	R	MA	7-			-5130	-5130	
8	5	R	MA	7+			-5130	-5130	
8	5	R	MA	8-			-5130	-5130	
8	5	R	MA	8+			-5130	-5130	
8	6	R	MA	1			570	570	
8	6	R	MA	2			332	332	
8	6	R	MA	3			0	0	
8	6	R	MA	4			-427	-427	
8	6	R	MA	5			-1140	-1140	
8	6	R	MA	6			-1424	-1424	
8	6	R	MA	7			-4275	-4275	
8	6	R	MA	8			-4275	-4275	
8	6	R	MA	1-			570	570	
8	6	R	MA	1+			570	570	
8	6	R	MA	2-			332	332	
8	6	R	MA	2+			332	332	
8	6	R	MA	3-			0	0	
8	6	R	MA	3+			0	0	
8	6	R	MA	4-			-427	-427	
8	6	R	MA	4+			-1140	-1140	
8	6	R	MA	5-			-427	-427	
8	6	R	MA	5+			-1140	-1140	
8	6	R	MA	6-			-1424	-1424	
8	6	R	MA	6+			-1424	-1424	
8	6	R	MA	7-			-4275	-4275	
8	6	R	MA	7+			-4275	-4275	
8	6	R	MA	8-			-4275	-4275	
8	6	R	MA	8+			-4275	-4275	

8	7	R	MA	1			855	855	
8	7	R	MA	2			664	664	
8	7	R	MA	3			190	190	
8	7	R	MA	4			-213	-213	
8	7	R	MA	5			-570	-570	
8	7	R	MA	6			-712	-712	
8	7	R	MA	7			-3420	-3420	
8	7	R	MA	8			-3420	-3420	
8	7	R	MA	1-			855	855	
8	7	R	MA	1+			855	855	
8	7	R	MA	2-			664	664	
8	7	R	MA	2+			664	664	
8	7	R	MA	3-			190	190	
8	7	R	MA	3+			190	190	
8	7	R	MA	4-			-213	-213	
8	7	R	MA	4+			-570	-570	
8	7	R	MA	5-			-213	-213	
8	7	R	MA	5+			-570	-570	
8	7	R	MA	6-			-712	-712	
8	7	R	MA	6+			-712	-712	
8	7	R	MA	7-			-3420	-3420	
8	7	R	MA	7+			-3420	-3420	
8	7	R	MA	8-			-3420	-3420	
8	7	R	MA	8+			-3420	-3420	
8	8	R	MA	1			1140	1140	
8	8	R	MA	2			996	996	
8	8	R	MA	3			380	380	
8	8	R	MA	4			0	0	
8	8	R	MA	5			-380	-380	
8	8	R	MA	6			0	0	
8	8	R	MA	7			-2565	-2565	
8	8	R	MA	8			-2565	-2565	
8	8	R	MA	1-			1140	1140	
8	8	R	MA	1+			1140	1140	
8	8	R	MA	2-			996	996	
8	8	R	MA	2+			996	996	
8	8	R	MA	3-			380	380	
8	8	R	MA	3+			380	380	
8	8	R	MA	4-			0	0	
8	8	R	MA	4+			-380	-380	
8	8	R	MA	5-			0	0	
8	8	R	MA	5+			-380	-380	
8	8	R	MA	6-			0	0	
8	8	R	MA	6+			0	0	
8	8	R	MA	7-			-2565	-2565	
8	8	R	MA	7+			-2565	-2565	

8	8	R	MA	8-			-2565	-2565	
8	8	R	MA	8+			-2565	-2565	
8	9	R	MA	1			1425	1425	
8	9	R	MA	2			1328	1328	
8	9	R	MA	3			760	760	
8	9	R	MA	4			427	427	
8	9	R	MA	5			-190	-190	
8	9	R	MA	6			0	0	
8	9	R	MA	7			-1710	-1710	
8	9	R	MA	8			-1710	-1710	
8	9	R	MA	1-			1425	1425	
8	9	R	MA	1+			1425	1425	
8	9	R	MA	2-			1328	1328	
8	9	R	MA	2+			1328	1328	
8	9	R	MA	3-			760	760	
8	9	R	MA	3+			760	760	
8	9	R	MA	4-			427	427	
8	9	R	MA	4+			-190	-190	
8	9	R	MA	5-			427	427	
8	9	R	MA	5+			-190	-190	
8	9	R	MA	6-			0	0	
8	9	R	MA	6+			0	0	
8	9	R	MA	7-			-1710	-1710	
8	9	R	MA	7+			-1710	-1710	
8	9	R	MA	8-			-1710	-1710	
8	9	R	MA	8+			-1710	-1710	
8	10	R	MA	1			1710	1710	
8	10	R	MA	2			1660	1660	
8	10	R	MA	3			1140	1140	
8	10	R	MA	4			854	854	
8	10	R	MA	5			0	0	
8	10	R	MA	6			0	0	
8	10	R	MA	7			-855	-855	
8	10	R	MA	8			-855	-855	
8	10	R	MA	1-			1710	1710	
8	10	R	MA	1+			1710	1710	
8	10	R	MA	2-			1660	1660	
8	10	R	MA	2+			1660	1660	
8	10	R	MA	3-			1140	1140	
8	10	R	MA	3+			1140	1140	
8	10	R	MA	4-			854	854	
8	10	R	MA	4+			0	0	
8	10	R	MA	5-			854	854	
8	10	R	MA	5+			0	0	
8	10	R	MA	6-			0	0	
8	10	R	MA	6+			0	0	

8	10	R	MA	7-			-855	-855	
8	10	R	MA	7+			-855	-855	
8	10	R	MA	8-			-855	-855	
8	10	R	MA	8+			-855	-855	
8	11	R	MA	1			1995	1995	
8	11	R	MA	2			1992	1992	
8	11	R	MA	3			1520	1520	
8	11	R	MA	4			1281	1281	
8	11	R	MA	5			570	570	
8	11	R	MA	6			0	0	
8	11	R	MA	7			0	0	
8	11	R	MA	8			0	0	
8	11	R	MA	1-			1995	1995	
8	11	R	MA	1+			1995	1995	
8	11	R	MA	2-			1992	1992	
8	11	R	MA	2+			1992	1992	
8	11	R	MA	3-			1520	1520	
8	11	R	MA	3+			1520	1520	
8	11	R	MA	4-			1281	1281	
8	11	R	MA	4+			570	570	
8	11	R	MA	5-			1281	1281	
8	11	R	MA	5+			570	570	
8	11	R	MA	6-			0	0	
8	11	R	MA	6+			0	0	
8	11	R	MA	7-			0	0	
8	11	R	MA	7+			0	0	
8	11	R	MA	8-			0	0	
8	11	R	MA	8+			0	0	
8	12	R	MA	1			2280	2280	
8	12	R	MA	2			2324	2324	
8	12	R	MA	3			1900	1900	
8	12	R	MA	4			1708	1708	
8	12	R	MA	5			1140	1140	
8	12	R	MA	6			712	712	
8	12	R	MA	7			0	0	
8	12	R	MA	8			0	0	
8	12	R	MA	1-			2280	2280	
8	12	R	MA	1+			2280	2280	
8	12	R	MA	2-			2324	2324	
8	12	R	MA	2+			2324	2324	
8	12	R	MA	3-			1900	1900	
8	12	R	MA	3+			1900	1900	
8	12	R	MA	4-			1708	1708	
8	12	R	MA	4+			1140	1140	
8	12	R	MA	5-			1708	1708	
8	12	R	MA	5+			1140	1140	

8	12	R	MA	6-			712	712	
8	12	R	MA	6+			712	712	
8	12	R	MA	7-			0	0	
8	12	R	MA	7+			0	0	
8	12	R	MA	8-			0	0	
8	12	R	MA	8+			0	0	
8	13	R	MA	1			2565	2565	
8	13	R	MA	2			2656	2656	
8	13	R	MA	3			2280	2280	
8	13	R	MA	4			2135	2135	
8	13	R	MA	5			1710	1710	
8	13	R	MA	6			1424	1424	
8	13	R	MA	7			0	0	
8	13	R	MA	8			0	0	
8	13	R	MA	1-			2565	2565	
8	13	R	MA	1+			2565	2565	
8	13	R	MA	2-			2656	2656	
8	13	R	MA	2+			2656	2656	
8	13	R	MA	3-			2280	2280	
8	13	R	MA	3+			2280	2280	
8	13	R	MA	4-			2135	2135	
8	13	R	MA	4+			1710	1710	
8	13	R	MA	5-			2135	2135	
8	13	R	MA	5+			1710	1710	
8	13	R	MA	6-			1424	1424	
8	13	R	MA	6+			1424	1424	
8	13	R	MA	7-			0	0	
8	13	R	MA	7+			0	0	
8	13	R	MA	8-			0	0	
8	13	R	MA	8+			0	0	
8	14	R	MA	1			2850	2850	
8	14	R	MA	2			2988	2988	
8	14	R	MA	3			2660	2660	
8	14	R	MA	4			2562	2562	
8	14	R	MA	5			2280	2280	
8	14	R	MA	6			2136	2136	
8	14	R	MA	7			0	0	
8	14	R	MA	8			0	0	
8	14	R	MA	1-			2850	2850	
8	14	R	MA	1+			2850	2850	
8	14	R	MA	2-			2988	2988	
8	14	R	MA	2+			2988	2988	
8	14	R	MA	3-			2660	2660	
8	14	R	MA	3+			2660	2660	
8	14	R	MA	4-			2562	2562	
8	14	R	MA	4+			2280	2280	

8	14	R	MA	5-			2562	2562	
8	14	R	MA	5+			2280	2280	
8	14	R	MA	6-			2136	2136	
8	14	R	MA	6+			2136	2136	
8	14	R	MA	7-			0	0	
8	14	R	MA	7+			0	0	
8	14	R	MA	8-			0	0	
8	14	R	MA	8+			0	0	
8	15	R	MA	1			3135	3135	
8	15	R	MA	2			3320	3320	
8	15	R	MA	3			3040	3040	
8	15	R	MA	4			2989	2989	
8	15	R	MA	5			2850	2850	
8	15	R	MA	6			2880	2880	
8	15	R	MA	7			855	855	
8	15	R	MA	8			855	855	
8	15	R	MA	1-			3135	3135	
8	15	R	MA	1+			3135	3135	
8	15	R	MA	2-			3320	3320	
8	15	R	MA	2+			3320	3320	
8	15	R	MA	3-			3040	3040	
8	15	R	MA	3+			3040	3040	
8	15	R	MA	4-			2989	2989	
8	15	R	MA	4+			2850	2850	
8	15	R	MA	5-			2989	2989	
8	15	R	MA	5+			2850	2850	
8	15	R	MA	6-			2880	2880	
8	15	R	MA	6+			2880	2880	
8	15	R	MA	7-			855	855	
8	15	R	MA	7+			855	855	
8	15	R	MA	8-			855	855	
8	15	R	MA	8+			855	855	
8	16	R	MA	1			3420	3420	
8	16	R	MA	2			3652	3652	
8	16	R	MA	3			3420	3420	
8	16	R	MA	4			3416	3416	
8	16	R	MA	5			3420	3420	
8	16	R	MA	6			3560	3560	
8	16	R	MA	7			1710	1710	
8	16	R	MA	8			1710	1710	
8	16	R	MA	1-			3420	3420	
8	16	R	MA	1+			3420	3420	
8	16	R	MA	2-			3652	3652	
8	16	R	MA	2+			3652	3652	
8	16	R	MA	3-			3420	3420	
8	16	R	MA	3+			3420	3420	

8	16	R	MA	4-			3416	3416	
8	16	R	MA	4+			3420	3420	
8	16	R	MA	5-			3416	3416	
8	16	R	MA	5+			3420	3420	
8	16	R	MA	6-			3560	3560	
8	16	R	MA	6+			3560	3560	
8	16	R	MA	7-			1710	1710	
8	16	R	MA	7+			1710	1710	
8	16	R	MA	8-			1710	1710	
8	16	R	MA	8+			1710	1710	
8	17	R	MA	1			3705	3705	
8	17	R	MA	2			3984	3984	
8	17	R	MA	3			3800	3800	
8	17	R	MA	4			3843	3843	
8	17	R	MA	5			3990	3990	
8	17	R	MA	6			4272	4272	
8	17	R	MA	7			2565	2565	
8	17	R	MA	8			2565	2565	
8	17	R	MA	1-			3705	3705	
8	17	R	MA	1+			3705	3705	
8	17	R	MA	2-			3984	3984	
8	17	R	MA	2+			3984	3984	
8	17	R	MA	3-			3800	3800	
8	17	R	MA	3+			3800	3800	
8	17	R	MA	4-			3843	3843	
8	17	R	MA	4+			3990	3990	
8	17	R	MA	5-			3843	3843	
8	17	R	MA	5+			3990	3990	
8	17	R	MA	6-			4272	4272	
8	17	R	MA	6+			4272	4272	
8	17	R	MA	7-			2565	2565	
8	17	R	MA	7+			2565	2565	
8	17	R	MA	8-			2565	2565	
8	17	R	MA	8+			2565	2565	
8	18	R	MA	1			3990	3990	
8	18	R	MA	2			4316	4316	
8	18	R	MA	3			4180	4180	
8	18	R	MA	4			4270	4270	
8	18	R	MA	5			4560	4560	
8	18	R	MA	6			4984	4984	
8	18	R	MA	7			3420	3420	
8	18	R	MA	8			3420	3420	
8	18	R	MA	1-			3990	3990	
8	18	R	MA	1+			3990	3990	
8	18	R	MA	2-			4316	4316	
8	18	R	MA	2+			4316	4316	

8	18	R	MA	3-			4180	4180	
8	18	R	MA	3+			4180	4180	
8	18	R	MA	4-			4270	4270	
8	18	R	MA	4+			4560	4560	
8	18	R	MA	5-			4270	4270	
8	18	R	MA	5+			4560	4560	
8	18	R	MA	6-			4984	4984	
8	18	R	MA	6+			4984	4984	
8	18	R	MA	7-			3420	3420	
8	18	R	MA	7+			3420	3420	
8	18	R	MA	8-			3420	3420	
8	18	R	MA	8+			3420	3420	
8	19	R	MA	1			4275	4275	
8	19	R	MA	2			4648	4648	
8	19	R	MA	3			4560	4560	
8	19	R	MA	4			4697	4697	
8	19	R	MA	5			5130	5130	
8	19	R	MA	6			5696	5696	
8	19	R	MA	7			4275	4275	
8	19	R	MA	8			4275	4275	
8	19	R	MA	1-			4275	4275	
8	19	R	MA	1+			4275	4275	
8	19	R	MA	2-			4648	4648	
8	19	R	MA	2+			4648	4648	
8	19	R	MA	3-			4560	4560	
8	19	R	MA	3+			4560	4560	
8	19	R	MA	4-			4697	4697	
8	19	R	MA	4+			5130	5130	
8	19	R	MA	5-			4697	4697	
8	19	R	MA	5+			5130	5130	
8	19	R	MA	6-			5696	5696	
8	19	R	MA	6+			5696	5696	
8	19	R	MA	7-			4275	4275	
8	19	R	MA	7+			4275	4275	
8	19	R	MA	8-			4275	4275	
8	19	R	MA	8+			4275	4275	
8	20	R	MA	1			4560	4560	
8	20	R	MA	2			4980	4980	
8	20	R	MA	3			4940	4940	
8	20	R	MA	4			5124	5124	
8	20	R	MA	5			5700	5700	
8	20	R	MA	6			6408	6408	
8	20	R	MA	7			5130	5130	
8	20	R	MA	8			5130	5130	
8	20	R	MA	1-			4560	4560	
8	20	R	MA	1+			4560	4560	

8	20	R	MA	2-			4980	4980	
8	20	R	MA	2+			4980	4980	
8	20	R	MA	3-			4940	4940	
8	20	R	MA	3+			4940	4940	
8	20	R	MA	4-			5124	5124	
8	20	R	MA	4+			5700	5700	
8	20	R	MA	5-			5124	5124	
8	20	R	MA	5+			5700	5700	
8	20	R	MA	6-			6408	6408	
8	20	R	MA	6+			6408	6408	
8	20	R	MA	7-			5130	5130	
8	20	R	MA	7+			5130	5130	
8	20	R	MA	8-			5130	5130	
8	20	R	MA	8+			5130	5130	
8	21	R	MA	4			5551	5551	
8	21	R	MA	5			6270	6270	
8	21	R	MA	6			7120	7120	
8	21	R	MA	7			5985	5985	
8	21	R	MA	8			5985	5985	
8	21	R	MA	4-			5551	5551	
8	21	R	MA	4+			6270	6270	
8	21	R	MA	5-			5551	5551	
8	21	R	MA	5+			6270	6270	
8	21	R	MA	6-			7120	7120	
8	21	R	MA	6+			7120	7120	
8	21	R	MA	7-			5985	5985	
8	21	R	MA	7+			5985	5985	
8	21	R	MA	8-			5985	5985	
8	21	R	MA	8+			5985	5985	
8	22	R	MA	4			5978	5978	
8	22	R	MA	5			6840	6840	
8	22	R	MA	6			7832	7832	
8	22	R	MA	7			6840	6840	
8	22	R	MA	8			6840	6840	
8	22	R	MA	4-	5978	5978			
8	22	R	MA	4+			6840	6840	
8	22	R	MA	5-			5978	5978	
8	22	R	MA	5+			6840	6840	
8	22	R	MA	6-			7832	7832	
8	22	R	MA	6+			7832	7832	
8	22	R	MA	7-			6840	6840	
8	22	R	MA	7+			6840	6840	
8	22	R	MA	8-			6840	6840	
8	22	R	MA	8+			6840	6840	
8	23	R	MA	4			6405	6405	
8	23	R	MA	5			7410	7410	

8	23	R	MA	6			8544	8544	
8	23	R	MA	7			7695	7695	
8	23	R	MA	8			7695	7695	
8	23	R	MA	4-			6405	6405	
8	23	R	MA	4+			7410	7410	
8	23	R	MA	5-			6405	6405	
8	23	R	MA	5+			7410	7410	
8	23	R	MA	6-			8544	8544	
8	23	R	MA	6+			8544	8544	
8	23	R	MA	7-			7695	7695	
8	23	R	MA	7+			7695	7695	
8	23	R	MA	8-			7695	7695	
8	23	R	MA	8+			7695	7695	
8	24	R	MA	4			6832	6832	
8	24	R	MA	5			7980	7980	
8	24	R	MA	6			9256	9256	
8	24	R	MA	7			8550	8550	
8	24	R	MA	8			8550	8550	
8	24	R	MA	4-			6832	6832	
8	24	R	MA	4+			7980	7980	
8	24	R	MA	5-			6832	6832	
8	24	R	MA	5+			7980	7980	
8	24	R	MA	6-			9256	9256	
8	24	R	MA	6+			9256	9256	
8	24	R	MA	7-			8550	8550	
8	24	R	MA	7+			8550	8550	
8	24	R	MA	8-			8550	8550	
8	24	R	MA	8+			8550	8550	
8	25	R	MA	4			7259	7259	
8	25	R	MA	5			8550	8550	
8	25	R	MA	6			9968	9968	
8	25	R	MA	7			9405	9405	
8	25	R	MA	8			9405	9405	
8	25	R	MA	4-			7259	7259	
8	25	R	MA	4+			8550	8550	
8	25	R	MA	5-			7259	7259	
8	25	R	MA	5+			8550	8550	
8	25	R	MA	6-			9968	9968	
8	25	R	MA	6+			9968	9968	
8	25	R	MA	7-			9405	9405	
8	25	R	MA	7+			9405	9405	
8	25	R	MA	8-			9405	9405	
8	25	R	MA	8+			9405	9405	
8	26	R	MA	4			7686	7686	
8	26	R	MA	5			9120	9120	
8	26	R	MA	6			10680	10680	

8	26	R	MA	7			10260	10260	
8	26	R	MA	8			10260	10260	
8	26	R	MA	4-			7686	7686	
8	26	R	MA	4+			9120	9120	
8	26	R	MA	5-			7686	7686	
8	26	R	MA	5+			9120	9120	
8	26	R	MA	6-			10680	10680	
8	26	R	MA	6+			10680	10680	
8	26	R	MA	7-			10260	10260	
8	26	R	MA	7+			10260	10260	
8	26	R	MA	8-			10260	10260	
8	26	R	MA	8+			10260	10260	
8	27	R	MA	4			8113	8113	
8	27	R	MA	5			9690	9690	
8	27	R	MA	6			11392	11392	
8	27	R	MA	7			11115	11115	
8	27	R	MA	8			11115	11115	
8	27	R	MA	4-			8113	8113	
8	27	R	MA	4+			9690	9690	
8	27	R	MA	5-			8113	8113	
8	27	R	MA	5+			9690	9690	
8	27	R	MA	6-			11392	11392	
8	27	R	MA	6+			11392	11392	
8	27	R	MA	7-			11115	11115	
8	27	R	MA	7+			11115	11115	
8	27	R	MA	8-			11115	11115	
8	27	R	MA	8+			11115	11115	
8	28	R	MA	4			8540	8540	
8	28	R	MA	5			10260	10260	
8	28	R	MA	6			12104	12104	
8	28	R	MA	7			11970	11970	
8	28	R	MA	8			11970	11970	
8	28	R	MA	4-			8540	8540	
8	28	R	MA	4+			10260	10260	
8	28	R	MA	5-			8540	8540	
8	28	R	MA	5+			10260	10260	
8	28	R	MA	6-			12104	12104	
8	28	R	MA	6+			12104	12104	
8	28	R	MA	7-			11970	11970	
8	28	R	MA	7+			11970	11970	
8	28	R	MA	8-			11970	11970	
8	28	R	MA	8+			11970	11970	
8	29	R	MA	4			8967	8967	
8	29	R	MA	5			10830	10830	
8	29	R	MA	6			12816	12816	
8	29	R	MA	7			12825	12825	

8	29	R	MA	8			12825	12825	
8	29	R	MA	4-			8967	8967	
8	29	R	MA	4+			10830	10830	
8	29	R	MA	5-			8967	8967	
8	29	R	MA	5+			10830	10830	
8	29	R	MA	6-			12816	12816	
8	29	R	MA	6+			12816	12816	
8	29	R	MA	7-			12825	12825	
8	29	R	MA	7+			12825	12825	
8	29	R	MA	8-			12825	12825	
8	29	R	MA	8+			12825	12825	
8	30	R	MA	4			9394	9394	
8	30	R	MA	5			11400	11400	
8	30	R	MA	6			13528	13528	
8	30	R	MA	7			13680	13680	
8	30	R	MA	8			13680	13680	
8	30	R	MA	4-			9394	9394	
8	30	R	MA	4+			11400	11400	
8	30	R	MA	5-			9394	9394	
8	30	R	MA	5+			11400	11400	
8	30	R	MA	6-			13528	13528	
8	30	R	MA	6+			13528	13528	
8	30	R	MA	7-			13680	13680	
8	30	R	MA	7+			13680	13680	
8	30	R	MA	8-			13680	13680	
8	30	R	MA	8+			13680	13680	
9	RC0	R	MA	1	0	0			
9	RC0	R	MA	2	0	0			
9	RC0	R	MA	3	-1.15	-1.15			
9	RC0	R	MA	4	-1.4	-1.4			
9	RC0	R	MA	5	-1.68	-1.68			
9	RC0	R	MA	6	-2.1	-2.1			
9	RC0	R	MA	7	-2.5	-2.5			
9	RC0	R	MA	8	-2.5	-2.5			
9	RC0	R	MA	1-	0	0			
9	RC0	R	MA	1+	0	0			
9	RC0	R	MA	2-	0	0			
9	RC0	R	MA	2+	0	0			
9	RC0	R	MA	3-	-1.15	-1.15			
9	RC0	R	MA	3+	-1.15	-1.15			
9	RC0	R	MA	4-	-1.4	-1.4			
9	RC0	R	MA	4+	-1.68	-1.68			
9	RC0	R	MA	5-	-1.4	-1.4			
9	RC0	R	MA	5+	-1.68	-1.68			
9	RC0	R	MA	6-	-2.1	-2.1			
9	RC0	R	MA	6+	-2.1	-2.1			

9	RC0	R	MA	7-	-2.5	-2.5			
9	RC0	R	MA	7+	-2.5	-2.5			
9	RC0	R	MA	8-	-2.5	-2.5			
9	RC0	R	MA	8+	-2.5	-2.5			
9	RC1	R	MA	1	0.94	0.94			
9	RC1	R	MA	2	1.19	1.19			
9	RC1	R	MA	3	0	0			
9	RC1	R	MA	4	0	0			
9	RC1	R	MA	5	0	0			
9	RC1	R	MA	6	0	0			
9	RC1	R	MA	7	0	0			
9	RC1	R	MA	8	0	0			
9	RC1	R	MA	1-	0.94	0.94			
9	RC1	R	MA	1+	0.94	0.94			
9	RC1	R	MA	2-	1.19	1.19			
9	RC1	R	MA	2+	1.19	1.19			
9	RC1	R	MA	3-	0	0			
9	RC1	R	MA	3+	0	0			
9	RC1	R	MA	4-	0	0			
9	RC1	R	MA	4+	0	0			
9	RC1	R	MA	5-	0	0			
9	RC1	R	MA	5+	0	0			
9	RC1	R	MA	6-	0	0			
9	RC1	R	MA	6+	0	0			
9	RC1	R	MA	7-	0	0			
9	RC1	R	MA	7+	0	0			
9	RC1	R	MA	8-	0	0			
9	RC1	R	MA	8+	0	0			
9	RC2	R	MA	1	0.94	0.94			
9	RC2	R	MA	2	1.19	1.19			
9	RC2	R	MA	3	0	0			
9	RC2	R	MA	4	0	0			
9	RC2	R	MA	5	0	0			
9	RC2	R	MA	6	0	0			
9	RC2	R	MA	7	0	0			
9	RC2	R	MA	8	0	0			
9	RC2	R	MA	1-	0.94	0.94			
9	RC2	R	MA	1+	0.94	0.94			
9	RC2	R	MA	2-	1.19	1.19			
9	RC2	R	MA	2+	1.19	1.19			
9	RC2	R	MA	3-	0	0			
9	RC2	R	MA	3+	0	0			
9	RC2	R	MA	4-	0	0			
9	RC2	R	MA	4+	0	0			
9	RC2	R	MA	5-	0	0			
9	RC2	R	MA	5+	0	0			

9	RC2	R	MA	6-	0	0			
9	RC2	R	MA	6+	0	0			
9	RC2	R	MA	7-	0	0			
9	RC2	R	MA	7+	0	0			
9	RC2	R	MA	8-	0	0			
9	RC2	R	MA	8+	0	0			
9	RH0	R	MA	1	0	0			
9	RH0	R	MA	2	0	0			
9	RH0	R	MA	3	0	0			
9	RH0	R	MA	4	-1.4	-1.4			
9	RH0	R	MA	5	-1.68	-1.68			
9	RH0	R	MA	6	-2.1	-2.1			
9	RH0	R	MA	7	-2.5	-2.5			
9	RH0	R	MA	8	-2.5	-2.5			
9	RH0	R	MA	1-	0	0			
9	RH0	R	MA	1+	0	0			
9	RH0	R	MA	2-	0	0			
9	RH0	R	MA	2+	0	0			
9	RH0	R	MA	3-	0	0			
9	RH0	R	MA	3+	0	0			
9	RH0	R	MA	4-	-1.4	-1.4			
9	RH0	R	MA	4+	-1.68	-1.68			
9	RH0	R	MA	5-	-1.4	-1.4			
9	RH0	R	MA	5+	-1.68	-1.68			
9	RH0	R	MA	6-	-2.1	-2.1			
9	RH0	R	MA	6+	-2.1	-2.1			
9	RH0	R	MA	7-	-2.5	-2.5			
9	RH0	R	MA	7+	-2.5	-2.5			
9	RH0	R	MA	8-	-2.5	-2.5			
9	RH0	R	MA	8+	-2.5	-2.5			
9	RH1	R	MA	1	1.3	1.3			
9	RH1	R	MA	2	1.23	1.23			
9	RH1	R	MA	3	1.23	1.23			
9	RH1	R	MA	4	0	0			
9	RH1	R	MA	5	0	0			
9	RH1	R	MA	6	0	0			
9	RH1	R	MA	7	0	0			
9	RH1	R	MA	8	0	0			
9	RH1	R	MA	1-	1.3	1.3			
9	RH1	R	MA	1+	1.3	1.3			
9	RH1	R	MA	2-	1.23	1.23			
9	RH1	R	MA	2+	1.23	1.23			
9	RH1	R	MA	3-	1.23	1.23			
9	RH1	R	MA	3+	1.23	1.23			
9	RH1	R	MA	4-	0	0			
9	RH1	R	MA	4+	0	0			

9	RH1	R	MA	5-	0	0			
9	RH1	R	MA	5+	0	0			
9	RH1	R	MA	6-	0	0			
9	RH1	R	MA	6+	0	0			
9	RH1	R	MA	7-	0	0			
9	RH1	R	MA	7+	0	0			
9	RH1	R	MA	8-	0	0			
9	RH1	R	MA	8+	0	0			
9	RH2	R	MA	1	1.3	1.3			
9	RH2	R	MA	2	1.23	1.23			
9	RH2	R	MA	3	1.23	1.23			
9	RH2	R	MA	4	0	0			
9	RH2	R	MA	5	0	0			
9	RH2	R	MA	6	0	0			
9	RH2	R	MA	7	0	0			
9	RH2	R	MA	8	0	0			
9	RH2	R	MA	1-	1.3	1.3			
9	RH2	R	MA	1+	1.3	1.3			
9	RH2	R	MA	2-	1.23	1.23			
9	RH2	R	MA	2+	1.23	1.23			
9	RH2	R	MA	3-	1.23	1.23			
9	RH2	R	MA	3+	1.23	1.23			
9	RH2	R	MA	4-	0	0			
9	RH2	R	MA	4+	0	0			
9	RH2	R	MA	5-	0	0			
9	RH2	R	MA	5+	0	0			
9	RH2	R	MA	6-	0	0			
9	RH2	R	MA	6+	0	0			
9	RH2	R	MA	7-	0	0			
9	RH2	R	MA	7+	0	0			
9	RH2	R	MA	8-	0	0			
9	RH2	R	MA	8+	0	0			
9	RH3	R	MA	1	0	0			
9	RH3	R	MA	2	0	0			
9	RH3	R	MA	3	0	0			
9	RH3	R	MA	4	-1.4	-1.4			
9	RH3	R	MA	5	-1.68	-1.68			
9	RH3	R	MA	6	-2.1	-2.1			
9	RH3	R	MA	7	-2.5	-2.5			
9	RH3	R	MA	8	-2.5	-2.5			
9	RH3	R	MA	1-	0	0			
9	RH3	R	MA	1+	0	0			
9	RH3	R	MA	2-	0	0			
9	RH3	R	MA	2+	0	0			
9	RH3	R	MA	3-	0	0			
9	RH3	R	MA	3+	0	0			

9	RH3	R	MA	4-	-1.4	-1.4			
9	RH3	R	MA	4+	-1.68	-1.68			
9	RH3	R	MA	5-	-1.4	-1.4			
9	RH3	R	MA	5+	-1.68	-1.68			
9	RH3	R	MA	6-	-2.1	-2.1			
9	RH3	R	MA	6+	-2.1	-2.1			
9	RH3	R	MA	7-	-2.5	-2.5			
9	RH3	R	MA	7+	-2.5	-2.5			
9	RH3	R	MA	8-	-2.5	-2.5			
9	RH3	R	MA	8+	-2.5	-2.5			
9	RH4	R	MA	1	0	0			
9	RH4	R	MA	2	0	0			
9	RH4	R	MA	3	0	0			
9	RH4	R	MA	4	-1.4	-1.4			
9	RH4	R	MA	5	-1.68	-1.68			
9	RH4	R	MA	6	-2.1	-2.1			
9	RH4	R	MA	7	-2.5	-2.5			
9	RH4	R	MA	8	-2.5	-2.5			
9	RH4	R	MA	1-	0	0			
9	RH4	R	MA	1+	0	0			
9	RH4	R	MA	2-	0	0			
9	RH4	R	MA	2+	0	0			
9	RH4	R	MA	3-	0	0			
9	RH4	R	MA	3+	0	0			
9	RH4	R	MA	4-	-1.4	-1.4			
9	RH4	R	MA	4+	-1.68	-1.68			
9	RH4	R	MA	5-	-1.4	-1.4			
9	RH4	R	MA	5+	-1.68	-1.68			
9	RH4	R	MA	6-	-2.1	-2.1			
9	RH4	R	MA	6+	-2.1	-2.1			
9	RH4	R	MA	7-	-2.5	-2.5			
9	RH4	R	MA	7+	-2.5	-2.5			
9	RH4	R	MA	8-	-2.5	-2.5			
9	RH4	R	MA	8+	-2.5	-2.5			
9	RH5	R	MA	1	0	0			
9	RH5	R	MA	2	0	0			
9	RH5	R	MA	3	0	0			
9	RH5	R	MA	4	0	0			
9	RH5	R	MA	5	0	0			
9	RH5	R	MA	6	0	0			
9	RH5	R	MA	7	0	0			
9	RH5	R	MA	8	0	0			
9	RH5	R	MA	1-	0	0			
9	RH5	R	MA	1+	0	0			
9	RH5	R	MA	2-	0	0			
9	RH5	R	MA	2+	0	0			

9	RH5	R	MA	3-	0	0			
9	RH5	R	MA	3+	0	0			
9	RH5	R	MA	4-	0	0			
9	RH5	R	MA	4+	0	0			
9	RH5	R	MA	5-	0	0			
9	RH5	R	MA	5+	0	0			
9	RH5	R	MA	6-	0	0			
9	RH5	R	MA	6+	0	0			
9	RH5	R	MA	7-	0	0			
9	RH5	R	MA	7+	0	0			
9	RH5	R	MA	8-	0	0			
9	RH5	R	MA	8+	0	0			
10	1M1	R	MA	1			760	760	
10	1M1	R	MA	2			950	950	
10	1M1	R	MA	3			1520	1520	
10	1M1	R	MA	4			1900	1900	
10	1M1	R	MA	5			2090	2090	
10	1M1	R	MA	6			2570	2570	
10	1M1	R	MA	7			3140	3140	
10	1M1	R	MA	8			3140	3140	
10	1M1	R	MA	1-			760	760	
10	1M1	R	MA	1+			760	760	
10	1M1	R	MA	2-			950	950	
10	1M1	R	MA	2+			950	950	
10	1M1	R	MA	3-			1520	1520	
10	1M1	R	MA	3+			1520	1520	
10	1M1	R	MA	4-			1900	1900	
10	1M1	R	MA	4+			2090	2090	
10	1M1	R	MA	5-			1900	1900	
10	1M1	R	MA	5+			2090	2090	
10	1M1	R	MA	6-			2570	2570	
10	1M1	R	MA	6+			2570	2570	
10	1M1	R	MA	7-			3140	3140	
10	1M1	R	MA	7+			3140	3140	
10	1M1	R	MA	8-			3140	3140	
10	1M1	R	MA	8+			3140	3140	
10	1M2	R	MA	1			990	990	
10	1M2	R	MA	2			1240	1240	
10	1M2	R	MA	3			1980	1980	
10	1M2	R	MA	4			2470	2470	
10	1M2	R	MA	5			2720	2720	
10	1M2	R	MA	6			3330	3330	
10	1M2	R	MA	7			4090	4090	
10	1M2	R	MA	8			4090	4090	
10	1M2	R	MA	1-			990	990	
10	1M2	R	MA	1+			990	990	

10	1M2	R	MA	2-			1240	1240	
10	1M2	R	MA	2+			1240	1240	
10	1M2	R	MA	3-			1980	1980	
10	1M2	R	MA	3+			1980	1980	
10	1M2	R	MA	4-			2470	2470	
10	1M2	R	MA	4+			2720	2720	
10	1M2	R	MA	5-			2470	2470	
10	1M2	R	MA	5+			2720	2720	
10	1M2	R	MA	6-			3330	3330	
10	1M2	R	MA	6+			3330	3330	
10	1M2	R	MA	7-			4090	4090	
10	1M2	R	MA	7+			4090	4090	
10	1M2	R	MA	8-			4090	4090	
10	1M2	R	MA	8+			4090	4090	
10	1M3	R	MA	1			990	990	
10	1M3	R	MA	2			1240	1240	
10	1M3	R	MA	3			1980	1980	
10	1M3	R	MA	4			2470	2470	
10	1M3	R	MA	5			2720	2720	
10	1M3	R	MA	6			3330	3330	
10	1M3	R	MA	7			4090	4090	
10	1M3	R	MA	8			4090	4090	
10	1M3	R	MA	1-			990	990	
10	1M3	R	MA	1+			990	990	
10	1M3	R	MA	2-			1240	1240	
10	1M3	R	MA	2+			1240	1240	
10	1M3	R	MA	3-			1980	1980	
10	1M3	R	MA	3+			1980	1980	
10	1M3	R	MA	4-			2470	2470	
10	1M3	R	MA	4+			2720	2720	
10	1M3	R	MA	5-			2470	2470	
10	1M3	R	MA	5+			2720	2720	
10	1M3	R	MA	6-			3330	3330	
10	1M3	R	MA	6+			3330	3330	
10	1M3	R	MA	7-			4090	4090	
10	1M3	R	MA	7+			4090	4090	
10	1M3	R	MA	8-			4090	4090	
10	1M3	R	MA	8+			4090	4090	
10	1M4	R	MA	1			990	990	
10	1M4	R	MA	2			1240	1240	
10	1M4	R	MA	3			1980	1980	
10	1M4	R	MA	4			2470	2470	
10	1M4	R	MA	5			2720	2720	
10	1M4	R	MA	6			3330	3330	
10	1M4	R	MA	7			4090	4090	
10	1M4	R	MA	8			4090	4090	

10	1M4	R	MA	1-			990	990	
10	1M4	R	MA	1+			990	990	
10	1M4	R	MA	2-			1240	1240	
10	1M4	R	MA	2+			1240	1240	
10	1M4	R	MA	3-			1980	1980	
10	1M4	R	MA	3+			1980	1980	
10	1M4	R	MA	4-			2470	2470	
10	1M4	R	MA	4+			2720	2720	
10	1M4	R	MA	5-			2470	2470	
10	1M4	R	MA	5+			2720	2720	
10	1M4	R	MA	6-			3330	3330	
10	1M4	R	MA	6+			3330	3330	
10	1M4	R	MA	7-			4090	4090	
10	1M4	R	MA	7+			4090	4090	
10	1M4	R	MA	8-			4090	4090	
10	1M4	R	MA	8+			4090	4090	
10	1P1	R	MA	1			480	480	
10	1P1	R	MA	2			620	620	
10	1P1	R	MA	3			990	990	
10	1P1	R	MA	4			1240	1240	
10	1P1	R	MA	5			1360	1360	
10	1P1	R	MA	6			1660	1660	
10	1P1	R	MA	7			2030	2030	
10	1P1	R	MA	8			2030	2030	
10	1P1	R	MA	1-			480	480	
10	1P1	R	MA	1+			480	480	
10	1P1	R	MA	2-			620	620	
10	1P1	R	MA	2+			620	620	
10	1P1	R	MA	3-			990	990	
10	1P1	R	MA	3+			990	990	
10	1P1	R	MA	4-			1240	1240	
10	1P1	R	MA	4+			1360	1360	
10	1P1	R	MA	5-			1240	1240	
10	1P1	R	MA	5+			1360	1360	
10	1P1	R	MA	6-			1660	1660	
10	1P1	R	MA	6+			1660	1660	
10	1P1	R	MA	7-			2030	2030	
10	1P1	R	MA	7+			2030	2030	
10	1P1	R	MA	8-			2030	2030	
10	1P1	R	MA	8+			2030	2030	
10	1P2	R	MA	1			620	620	
10	1P2	R	MA	2			810	810	
10	1P2	R	MA	3			1280	1280	
10	1P2	R	MA	4			1610	1610	
10	1P2	R	MA	5			1770	1770	
10	1P2	R	MA	6			2160	2160	

10	1P2	R	MA	7			2640	2640	
10	1P2	R	MA	8			2640	2640	
10	1P2	R	MA	1-			620	620	
10	1P2	R	MA	1+			620	620	
10	1P2	R	MA	2-			810	810	
10	1P2	R	MA	2+			810	810	
10	1P2	R	MA	3-			1280	1280	
10	1P2	R	MA	3+			1280	1280	
10	1P2	R	MA	4-			1610	1610	
10	1P2	R	MA	4+			1770	1770	
10	1P2	R	MA	5-			1610	1610	
10	1P2	R	MA	5+			1770	1770	
10	1P2	R	MA	6-			2160	2160	
10	1P2	R	MA	6+			2160	2160	
10	1P2	R	MA	7-			2640	2640	
10	1P2	R	MA	7+			2640	2640	
10	1P2	R	MA	8-			2640	2640	
10	1P2	R	MA	8+			2640	2640	
10	1P3	R	MA	1			620	620	
10	1P3	R	MA	2			810	810	
10	1P3	R	MA	3			1280	1280	
10	1P3	R	MA	4			1610	1610	
10	1P3	R	MA	5			1770	1770	
10	1P3	R	MA	6			2160	2160	
10	1P3	R	MA	7			2640	2640	
10	1P3	R	MA	8			2640	2640	
10	1P3	R	MA	1-			620	620	
10	1P3	R	MA	1+			620	620	
10	1P3	R	MA	2-			810	810	
10	1P3	R	MA	2+			810	810	
10	1P3	R	MA	3-			1280	1280	
10	1P3	R	MA	3+			1280	1280	
10	1P3	R	MA	4-			1610	1610	
10	1P3	R	MA	4+			1770	1770	
10	1P3	R	MA	5-			1610	1610	
10	1P3	R	MA	5+			1770	1770	
10	1P3	R	MA	6-			2160	2160	
10	1P3	R	MA	6+			2160	2160	
10	1P3	R	MA	7-			2640	2640	
10	1P3	R	MA	7+			2640	2640	
10	1P3	R	MA	8-			2640	2640	
10	1P3	R	MA	8+			2640	2640	
10	1P4	R	MA	1			620	620	
10	1P4	R	MA	2			810	810	
10	1P4	R	MA	3			1280	1280	
10	1P4	R	MA	4			1610	1610	

10	1P4	R	MA	5			1770	1770	
10	1P4	R	MA	6			2160	2160	
10	1P4	R	MA	7			2640	2640	
10	1P4	R	MA	8			2640	2640	
10	1P4	R	MA	1-			620	620	
10	1P4	R	MA	1+			620	620	
10	1P4	R	MA	2-			810	810	
10	1P4	R	MA	2+			810	810	
10	1P4	R	MA	3-			1280	1280	
10	1P4	R	MA	3+			1280	1280	
10	1P4	R	MA	4-			1610	1610	
10	1P4	R	MA	4+			1770	1770	
10	1P4	R	MA	5-			1610	1610	
10	1P4	R	MA	5+			1770	1770	
10	1P4	R	MA	6-			2160	2160	
10	1P4	R	MA	6+			2160	2160	
10	1P4	R	MA	7-			2640	2640	
10	1P4	R	MA	7+			2640	2640	
10	1P4	R	MA	8-			2640	2640	
10	1P4	R	MA	8+			2640	2640	
10	2M1	R	MA	1			1520	1520	
10	2M1	R	MA	2			1900	1900	
10	2M1	R	MA	3			3040	3040	
10	2M1	R	MA	4			3800	3800	
10	2M1	R	MA	5			4180	4180	
10	2M1	R	MA	6			5140	5140	
10	2M1	R	MA	7			6280	6280	
10	2M1	R	MA	8			6280	6280	
10	2M1	R	MA	1-			1520	1520	
10	2M1	R	MA	1+			1520	1520	
10	2M1	R	MA	2-			1900	1900	
10	2M1	R	MA	2+			1900	1900	
10	2M1	R	MA	3-			3040	3040	
10	2M1	R	MA	3+			3040	3040	
10	2M1	R	MA	4-			3800	3800	
10	2M1	R	MA	4+			4180	4180	
10	2M1	R	MA	5-			3800	3800	
10	2M1	R	MA	5+			4180	4180	
10	2M1	R	MA	6-			5140	5140	
10	2M1	R	MA	6+			5140	5140	
10	2M1	R	MA	7-			6280	6280	
10	2M1	R	MA	7+			6280	6280	
10	2M1	R	MA	8-			6280	6280	
10	2M1	R	MA	8+			6280	6280	
10	2M2	R	MA	1			1980	1980	
10	2M2	R	MA	2			2480	2480	

10	2M2	R	MA	3			3960	3960	
10	2M2	R	MA	4			4940	4940	
10	2M2	R	MA	5			5440	5440	
10	2M2	R	MA	6			6660	6660	
10	2M2	R	MA	7			8180	8180	
10	2M2	R	MA	8			8180	8180	
10	2M2	R	MA	1-			1980	1980	
10	2M2	R	MA	1+			1980	1980	
10	2M2	R	MA	2-			2480	2480	
10	2M2	R	MA	2+			2480	2480	
10	2M2	R	MA	3-			3960	3960	
10	2M2	R	MA	3+			3960	3960	
10	2M2	R	MA	4-			4940	4940	
10	2M2	R	MA	4+			5440	5440	
10	2M2	R	MA	5-			4940	4940	
10	2M2	R	MA	5+			5440	5440	
10	2M2	R	MA	6-			6660	6660	
10	2M2	R	MA	6+			6660	6660	
10	2M2	R	MA	7-			8180	8180	
10	2M2	R	MA	7+			8180	8180	
10	2M2	R	MA	8-			8180	8180	
10	2M2	R	MA	8+			8180	8180	
10	2M3	R	MA	1			1980	1980	
10	2M3	R	MA	2			2480	2480	
10	2M3	R	MA	3			3960	3960	
10	2M3	R	MA	4			4940	4940	
10	2M3	R	MA	5			5440	5440	
10	2M3	R	MA	6			6660	6660	
10	2M3	R	MA	7			8180	8180	
10	2M3	R	MA	8			8180	8180	
10	2M3	R	MA	1-			1980	1980	
10	2M3	R	MA	1+			1980	1980	
10	2M3	R	MA	2-			2480	2480	
10	2M3	R	MA	2+			2480	2480	
10	2M3	R	MA	3-			3960	3960	
10	2M3	R	MA	3+			3960	3960	
10	2M3	R	MA	4-			4940	4940	
10	2M3	R	MA	4+			5440	5440	
10	2M3	R	MA	5-			4940	4940	
10	2M3	R	MA	5+			5440	5440	
10	2M3	R	MA	6-			6660	6660	
10	2M3	R	MA	6+			6660	6660	
10	2M3	R	MA	7-			8180	8180	
10	2M3	R	MA	7+			8180	8180	
10	2M3	R	MA	8-			8180	8180	
10	2M3	R	MA	8+			8180	8180	

10	2P1	R	MA	1			960	960	
10	2P1	R	MA	2			1240	1240	
10	2P1	R	MA	3			1980	1980	
10	2P1	R	MA	4			2480	2480	
10	2P1	R	MA	5			2720	2720	
10	2P1	R	MA	6			3320	3320	
10	2P1	R	MA	7			4060	4060	
10	2P1	R	MA	8			4060	4060	
10	2P1	R	MA	1-			960	960	
10	2P1	R	MA	1+			960	960	
10	2P1	R	MA	2-			1240	1240	
10	2P1	R	MA	2+			1240	1240	
10	2P1	R	MA	3-			1980	1980	
10	2P1	R	MA	3+			1980	1980	
10	2P1	R	MA	4-			2480	2480	
10	2P1	R	MA	4+			2720	2720	
10	2P1	R	MA	5-			2480	2480	
10	2P1	R	MA	5+			2720	2720	
10	2P1	R	MA	6-			3320	3320	
10	2P1	R	MA	6+			3320	3320	
10	2P1	R	MA	7-			4060	4060	
10	2P1	R	MA	7+			4060	4060	
10	2P1	R	MA	8-			4060	4060	
10	2P1	R	MA	8+			4060	4060	
10	2P2	R	MA	1			1240	1240	
10	2P2	R	MA	2			1620	1620	
10	2P2	R	MA	3			2560	2560	
10	2P2	R	MA	4			3220	3220	
10	2P2	R	MA	5			3540	3540	
10	2P2	R	MA	6			4320	4320	
10	2P2	R	MA	7			5280	5280	
10	2P2	R	MA	8			5280	5280	
10	2P2	R	MA	1-			1240	1240	
10	2P2	R	MA	1+			1240	1240	
10	2P2	R	MA	2-			1620	1620	
10	2P2	R	MA	2+			1620	1620	
10	2P2	R	MA	3-			2560	2560	
10	2P2	R	MA	3+			2560	2560	
10	2P2	R	MA	4-			3220	3220	
10	2P2	R	MA	4+			3540	3540	
10	2P2	R	MA	5-			3220	3220	
10	2P2	R	MA	5+			3540	3540	
10	2P2	R	MA	6-			4320	4320	
10	2P2	R	MA	6+			4320	4320	
10	2P2	R	MA	7-			5280	5280	
10	2P2	R	MA	7+			5280	5280	

10	2P2	R	MA	8-			5280	5280	
10	2P2	R	MA	8+			5280	5280	
10	2P3	R	MA	1			1240	1240	
10	2P3	R	MA	2			1620	1620	
10	2P3	R	MA	3			2560	2560	
10	2P3	R	MA	4			3220	3220	
10	2P3	R	MA	5			3540	3540	
10	2P3	R	MA	6			4320	4320	
10	2P3	R	MA	7			5280	5280	
10	2P3	R	MA	8			5280	5280	
10	2P3	R	MA	1-			1240	1240	
10	2P3	R	MA	1+			1240	1240	
10	2P3	R	MA	2-			1620	1620	
10	2P3	R	MA	2+			1620	1620	
10	2P3	R	MA	3-			2560	2560	
10	2P3	R	MA	3+			2560	2560	
10	2P3	R	MA	4-			3220	3220	
10	2P3	R	MA	4+			3540	3540	
10	2P3	R	MA	5-			3220	3220	
10	2P3	R	MA	5+			3540	3540	
10	2P3	R	MA	6-			4320	4320	
10	2P3	R	MA	6+			4320	4320	
10	2P3	R	MA	7-			5280	5280	
10	2P3	R	MA	7+			5280	5280	
10	2P3	R	MA	8-			5280	5280	
10	2P3	R	MA	8+			5280	5280	
10	3M1	R	MA	1			2280	2280	
10	3M1	R	MA	2			2850	2850	
10	3M1	R	MA	3			4560	4560	
10	3M1	R	MA	4			5700	5700	
10	3M1	R	MA	5			6270	6270	
10	3M1	R	MA	6			7710	7710	
10	3M1	R	MA	7			9420	9420	
10	3M1	R	MA	8			9420	9420	
10	3M1	R	MA	1-			2280	2280	
10	3M1	R	MA	1+			2280	2280	
10	3M1	R	MA	2-			2850	2850	
10	3M1	R	MA	2+			2850	2850	
10	3M1	R	MA	3-			4560	4560	
10	3M1	R	MA	3+			4560	4560	
10	3M1	R	MA	4-			5700	5700	
10	3M1	R	MA	4+			6270	6270	
10	3M1	R	MA	5-			5700	5700	
10	3M1	R	MA	5+			6270	6270	
10	3M1	R	MA	6-			7710	7710	
10	3M1	R	MA	6+			7710	7710	

10	3M1	R	MA	7-			9420	9420	
10	3M1	R	MA	7+			9420	9420	
10	3M1	R	MA	8-			9420	9420	
10	3M1	R	MA	8+			9420	9420	
10	3M2	R	MA	1			2970	2970	
10	3M2	R	MA	2			3720	3720	
10	3M2	R	MA	3			5940	5940	
10	3M2	R	MA	4			7410	7410	
10	3M2	R	MA	5			8160	8160	
10	3M2	R	MA	6			9990	9990	
10	3M2	R	MA	7			12270	12270	
10	3M2	R	MA	8			12270	12270	
10	3M2	R	MA	1-			2970	2970	
10	3M2	R	MA	1+			2970	2970	
10	3M2	R	MA	2-			3720	3720	
10	3M2	R	MA	2+			3720	3720	
10	3M2	R	MA	3-			5940	5940	
10	3M2	R	MA	3+			5940	5940	
10	3M2	R	MA	4-			7410	7410	
10	3M2	R	MA	4+			8160	8160	
10	3M2	R	MA	5-			7410	7410	
10	3M2	R	MA	5+			8160	8160	
10	3M2	R	MA	6-			9990	9990	
10	3M2	R	MA	6+			9990	9990	
10	3M2	R	MA	7-			12270	12270	
10	3M2	R	MA	7+			12270	12270	
10	3M2	R	MA	8-			12270	12270	
10	3M2	R	MA	8+			12270	12270	
10	3M3	R	MA	1			2970	2970	
10	3M3	R	MA	2			3720	3720	
10	3M3	R	MA	3			5940	5940	
10	3M3	R	MA	4			7410	7410	
10	3M3	R	MA	5			8160	8160	
10	3M3	R	MA	6			999	999	
10	3M3	R	MA	7			12270	12270	
10	3M3	R	MA	8			12270	12270	
10	3M3	R	MA	1-			2970	2970	
10	3M3	R	MA	1+			2970	2970	
10	3M3	R	MA	2-			3720	3720	
10	3M3	R	MA	2+			3720	3720	
10	3M3	R	MA	3-			5940	5940	
10	3M3	R	MA	3+			5940	5940	
10	3M3	R	MA	4-			7410	7410	
10	3M3	R	MA	4+			8160	8160	
10	3M3	R	MA	5-			7410	7410	
10	3M3	R	MA	5+			8160	8160	

10	3M3	R	MA	6-			999	999	
10	3M3	R	MA	6+			999	999	
10	3M3	R	MA	7-			12270	12270	
10	3M3	R	MA	7+			12270	12270	
10	3M3	R	MA	8-			12270	12270	
10	3M3	R	MA	8+			12270	12270	
10	3P1	R	MA	1			1440	1440	
10	3P1	R	MA	2			1860	1860	
10	3P1	R	MA	3			2970	2970	
10	3P1	R	MA	4			3720	3720	
10	3P1	R	MA	5			4080	4080	
10	3P1	R	MA	6			4980	4980	
10	3P1	R	MA	7			6090	6090	
10	3P1	R	MA	8			6090	6090	
10	3P1	R	MA	1-			1440	1440	
10	3P1	R	MA	1+			1440	1440	
10	3P1	R	MA	2-			1860	1860	
10	3P1	R	MA	2+			1860	1860	
10	3P1	R	MA	3-			2970	2970	
10	3P1	R	MA	3+			2970	2970	
10	3P1	R	MA	4-			3720	3720	
10	3P1	R	MA	4+			4080	4080	
10	3P1	R	MA	5-			3720	3720	
10	3P1	R	MA	5+			4080	4080	
10	3P1	R	MA	6-			4980	4980	
10	3P1	R	MA	6+			4980	4980	
10	3P1	R	MA	7-			6090	6090	
10	3P1	R	MA	7+			6090	6090	
10	3P1	R	MA	8-			6090	6090	
10	3P1	R	MA	8+			6090	6090	
10	3P2	R	MA	1			1860	1860	
10	3P2	R	MA	2			2430	2430	
10	3P2	R	MA	3			3840	3840	
10	3P2	R	MA	4			4830	4830	
10	3P2	R	MA	5			5310	5310	
10	3P2	R	MA	6			64860	64860	
10	3P2	R	MA	7			7920	7920	
10	3P2	R	MA	8			7920	7920	
10	3P2	R	MA	1-			1860	1860	
10	3P2	R	MA	1+			1860	1860	
10	3P2	R	MA	2-			2430	2430	
10	3P2	R	MA	2+			2430	2430	
10	3P2	R	MA	3-			3840	3840	
10	3P2	R	MA	3+			3840	3840	
10	3P2	R	MA	4-			4830	4830	
10	3P2	R	MA	4+			5310	5310	

10	3P2	R	MA	5-			4830	4830	
10	3P2	R	MA	5+			5310	5310	
10	3P2	R	MA	6-			64860	64860	
10	3P2	R	MA	6+			64860	64860	
10	3P2	R	MA	7-			7920	7920	
10	3P2	R	MA	7+			7920	7920	
10	3P2	R	MA	8-			7920	7920	
10	3P2	R	MA	8+			7920	7920	
10	3P3	R	MA	1			1860	1860	
10	3P3	R	MA	2			2430	2430	
10	3P3	R	MA	3			3840	3840	
10	3P3	R	MA	4			4830	4830	
10	3P3	R	MA	5			5310	5310	
10	3P3	R	MA	6			6480	6480	
10	3P3	R	MA	7			7920	7920	
10	3P3	R	MA	8			7920	7920	
10	3P3	R	MA	1-			1860	1860	
10	3P3	R	MA	1+			1860	1860	
10	3P3	R	MA	2-			2430	2430	
10	3P3	R	MA	2+			2430	2430	
10	3P3	R	MA	3-			3840	3840	
10	3P3	R	MA	3+			3840	3840	
10	3P3	R	MA	4-			4830	4830	
10	3P3	R	MA	4+			5310	5310	
10	3P3	R	MA	5-			4830	4830	
10	3P3	R	MA	5+			5310	5310	
10	3P3	R	MA	6-			6480	6480	
10	3P3	R	MA	6+			6480	6480	
10	3P3	R	MA	7-			7920	7920	
10	3P3	R	MA	7+			7920	7920	
10	3P3	R	MA	8-			7920	7920	
10	3P3	R	MA	8+			7920	7920	
10	4M1	R	MA	1			3040	3040	
10	4M1	R	MA	2			3800	3800	
10	4M1	R	MA	3			6080	6080	
10	4M1	R	MA	4			7600	7600	
10	4M1	R	MA	5			8360	8360	
10	4M1	R	MA	6			10280	10280	
10	4M1	R	MA	7			12560	12560	
10	4M1	R	MA	8			12560	12560	
10	4M1	R	MA	1-			3040	3040	
10	4M1	R	MA	1+			3040	3040	
10	4M1	R	MA	2-			3800	3800	
10	4M1	R	MA	2+			3800	3800	
10	4M1	R	MA	3-			6080	6080	
10	4M1	R	MA	3+			6080	6080	

10	4M1	R	MA	4-			7600	7600	
10	4M1	R	MA	4+			8360	8360	
10	4M1	R	MA	5-			7600	7600	
10	4M1	R	MA	5+			8360	8360	
10	4M1	R	MA	6-			10280	10280	
10	4M1	R	MA	6+			10280	10280	
10	4M1	R	MA	7-			12560	12560	
10	4M1	R	MA	7+			12560	12560	
10	4M1	R	MA	8-			12560	12560	
10	4M1	R	MA	8+			12560	12560	
10	4M2	R	MA	1			3960	3960	
10	4M2	R	MA	2			4960	4960	
10	4M2	R	MA	3			7920	7920	
10	4M2	R	MA	4			9880	9880	
10	4M2	R	MA	5			10880	10880	
10	4M2	R	MA	6			13320	13320	
10	4M2	R	MA	7			16360	16360	
10	4M2	R	MA	8			16360	16360	
10	4M2	R	MA	1-			3960	3960	
10	4M2	R	MA	1+			3960	3960	
10	4M2	R	MA	2-			4960	4960	
10	4M2	R	MA	2+			4960	4960	
10	4M2	R	MA	3-			7920	7920	
10	4M2	R	MA	3+			7920	7920	
10	4M2	R	MA	4-			9880	9880	
10	4M2	R	MA	4+			10880	10880	
10	4M2	R	MA	5-			9880	9880	
10	4M2	R	MA	5+			10880	10880	
10	4M2	R	MA	6-			13320	13320	
10	4M2	R	MA	6+			13320	13320	
10	4M2	R	MA	7-			16360	16360	
10	4M2	R	MA	7+			16360	16360	
10	4M2	R	MA	8-			16360	16360	
10	4M2	R	MA	8+			16360	16360	
10	4M3	R	MA	1			3960	3960	
10	4M3	R	MA	2			4960	4960	
10	4M3	R	MA	3			7920	7920	
10	4M3	R	MA	4			9880	9880	
10	4M3	R	MA	5			10880	10880	
10	4M3	R	MA	6			13320	13320	
10	4M3	R	MA	7			16360	16360	
10	4M3	R	MA	8			16360	16360	
10	4M3	R	MA	1-			3960	3960	
10	4M3	R	MA	1+			3960	3960	
10	4M3	R	MA	2-			4960	4960	
10	4M3	R	MA	2+			4960	4960	

10	4M3	R	MA	3-			7920	7920	
10	4M3	R	MA	3+			7920	7920	
10	4M3	R	MA	4-			9880	9880	
10	4M3	R	MA	4+			10880	10880	
10	4M3	R	MA	5-			9880	9880	
10	4M3	R	MA	5+			10880	10880	
10	4M3	R	MA	6-			13320	13320	
10	4M3	R	MA	6+			13320	13320	
10	4M3	R	MA	7-			16360	16360	
10	4M3	R	MA	7+			16360	16360	
10	4M3	R	MA	8-			16360	16360	
10	4M3	R	MA	8+			16360	16360	
10	4P1	R	MA	1			1920	1920	
10	4P1	R	MA	2			2480	2480	
10	4P1	R	MA	3			3960	3960	
10	4P1	R	MA	4			4960	4960	
10	4P1	R	MA	5			5440	5440	
10	4P1	R	MA	6			6640	6640	
10	4P1	R	MA	7			8120	8120	
10	4P1	R	MA	8			8120	8120	
10	4P1	R	MA	1-			1920	1920	
10	4P1	R	MA	1+			1920	1920	
10	4P1	R	MA	2-			2480	2480	
10	4P1	R	MA	2+			2480	2480	
10	4P1	R	MA	3-			3960	3960	
10	4P1	R	MA	3+			3960	3960	
10	4P1	R	MA	4-			4960	4960	
10	4P1	R	MA	4+			5440	5440	
10	4P1	R	MA	5-			4960	4960	
10	4P1	R	MA	5+			5440	5440	
10	4P1	R	MA	6-			6640	6640	
10	4P1	R	MA	6+			6640	6640	
10	4P1	R	MA	7-			8120	8120	
10	4P1	R	MA	7+			8120	8120	
10	4P1	R	MA	8-			8120	8120	
10	4P1	R	MA	8+			8120	8120	
10	4P2	R	MA	1			2480	2480	
10	4P2	R	MA	2			3240	3240	
10	4P2	R	MA	3			5120	5120	
10	4P2	R	MA	4			6440	6440	
10	4P2	R	MA	5			7080	7080	
10	4P2	R	MA	6			8640	8640	
10	4P2	R	MA	7			10560	10560	
10	4P2	R	MA	8			10560	10560	
10	4P2	R	MA	1-			2480	2480	
10	4P2	R	MA	1+			2480	2480	

10	4P2	R	MA	2-			3240	3240	
10	4P2	R	MA	2+			3240	3240	
10	4P2	R	MA	3-			5120	5120	
10	4P2	R	MA	3+			5120	5120	
10	4P2	R	MA	4-			6440	6440	
10	4P2	R	MA	4+			7080	7080	
10	4P2	R	MA	5-			6440	6440	
10	4P2	R	MA	5+			7080	7080	
10	4P2	R	MA	6-			8640	8640	
10	4P2	R	MA	6+			8640	8640	
10	4P2	R	MA	7-			10560	10560	
10	4P2	R	MA	7+			10560	10560	
10	4P2	R	MA	8-			10560	10560	
10	4P2	R	MA	8+			10560	10560	
10	4P3	R	MA	1			2480	2480	
10	4P3	R	MA	2			3240	3240	
10	4P3	R	MA	3			5120	5120	
10	4P3	R	MA	4			6440	6440	
10	4P3	R	MA	5			7080	7080	
10	4P3	R	MA	6			8640	8640	
10	4P3	R	MA	7			10560	10560	
10	4P3	R	MA	8			10560	10560	
10	4P3	R	MA	1-			2480	2480	
10	4P3	R	MA	1+			2480	2480	
10	4P3	R	MA	2-			3240	3240	
10	4P3	R	MA	2+			3240	3240	
10	4P3	R	MA	3-			5120	5120	
10	4P3	R	MA	3+			5120	5120	
10	4P3	R	MA	4-			6440	6440	
10	4P3	R	MA	4+			7080	7080	
10	4P3	R	MA	5-			6440	6440	
10	4P3	R	MA	5+			7080	7080	
10	4P3	R	MA	6-			8640	8640	
10	4P3	R	MA	6+			8640	8640	
10	4P3	R	MA	7-			10560	10560	
10	4P3	R	MA	7+			10560	10560	
10	4P3	R	MA	8-			10560	10560	
10	4P3	R	MA	8+			10560	10560	
18	1	R	AB2	1	0.35	0.35			
18	1	R	AB2	2	0.35	0.35			
18	1	R	AB2	3	0.35	0.35			
18	1	R	AB2	4	0.35	0.35			
18	1	R	AB2	5	0.35	0.35			
18	1	R	AB2	6	0.35	0.35			
18	1	R	AB2	7	0.35	0.35			
18	2	R	AB2	1	1.25	1.25			

18	2	R	AB2	2	1.25	1.25			
18	2	R	AB2	3	1.25	1.25			
18	2	R	AB2	4	1.25	1.25			
18	2	R	AB2	5	1.25	1.25			
18	2	R	AB2	6	1.25	1.25			
18	2	R	AB2	7	1.25	1.25			
18	1	R	AP1	1	0.35	0.35			
18	1	R	AP1	2	0.35	0.35			
18	1	R	AP1	3	0.35	0.35			
18	1	R	AP1	4	0.35	0.35			
18	1	R	AP1	5	0.35	0.35			
18	1	R	AP1	6	0.35	0.35			
18	1	R	AP1	7	0.35	0.35			
18	1	R	AP1	*	0.35	0.35			
18	2	R	AP1	1	1.25	1.25			
18	2	R	AP1	2	1.25	1.25			
18	2	R	AP1	3	1.25	1.25			
18	2	R	AP1	4	1.25	1.25			
18	2	R	AP1	5	1.25	1.25			
18	2	R	AP1	6	1.25	1.25			
18	2	R	AP1	7	1.25	1.25			
18	2	R	AP1	*	1.25	1.25			
18	1	R	AP2	1	0.35	0.35			
18	1	R	AP2	2	0.35	0.35			
18	1	R	AP2	3	0.35	0.35			
18	1	R	AP2	4	0.35	0.35			
18	1	R	AP2	5	0.35	0.35			
18	1	R	AP2	6	0.35	0.35			
18	1	R	AP2	7	0.35	0.35			
18	1	R	AP2	*	0.35	0.35			
18	2	R	AP2	1	1.25	1.25			
18	2	R	AP2	2	1.25	1.25			
18	2	R	AP2	3	1.25	1.25			
18	2	R	AP2	4	1.25	1.25			
18	2	R	AP2	5	1.25	1.25			
18	2	R	AP2	6	1.25	1.25			
18	2	R	AP2	7	1.25	1.25			
18	2	R	AP2	*	1.25	1.25			
18	1	R	AP3	1	0.35	0.35			
18	1	R	AP3	2	0.35	0.35			
18	1	R	AP3	3	0.35	0.35			
18	1	R	AP3	4	0.35	0.35			
18	1	R	AP3	5	0.35	0.35			
18	1	R	AP3	6	0.35	0.35			
18	1	R	AP3	7	0.35	0.35			
18	1	R	AP3	*	0.35	0.35			

18	2	R	AP3	1	1.25	1.25			
18	2	R	AP3	2	1.25	1.25			
18	2	R	AP3	3	1.25	1.25			
18	2	R	AP3	4	1.25	1.25			
18	2	R	AP3	5	1.25	1.25			
18	2	R	AP3	6	1.25	1.25			
18	2	R	AP3	7	1.25	1.25			
18	2	R	AP3	*	1.25	1.25			
18	1	R	AP4	1	0.35	0.35			
18	1	R	AP4	2	0.35	0.35			
18	1	R	AP4	3	0.35	0.35			
18	1	R	AP4	4	0.35	0.35			
18	1	R	AP4	5	0.35	0.35			
18	1	R	AP4	6	0.35	0.35			
18	1	R	AP4	7	0.35	0.35			
18	1	R	AP4	*	0.35	0.35			
18	2	R	AP4	1	1.25	1.25			
18	2	R	AP4	2	1.25	1.25			
18	2	R	AP4	3	1.25	1.25			
18	2	R	AP4	4	1.25	1.25			
18	2	R	AP4	5	1.25	1.25			
18	2	R	AP4	6	1.25	1.25			
18	2	R	AP4	7	1.25	1.25			
18	2	R	AP4	*	1.25	1.25			
18	1	R	AP5	1	0.35	0.35			
18	1	R	AP5	2	0.35	0.35			
18	1	R	AP5	3	0.35	0.35			
18	1	R	AP5	4	0.35	0.35			
18	1	R	AP5	5	0.35	0.35			
18	1	R	AP5	6	0.35	0.35			
18	1	R	AP5	7	0.35	0.35			
18	1	R	AP5	*	0.35	0.35			
18	2	R	AP5	1	1.25	1.25			
18	2	R	AP5	2	1.25	1.25			
18	2	R	AP5	3	1.25	1.25			
18	2	R	AP5	4	1.25	1.25			
18	2	R	AP5	5	1.25	1.25			
18	2	R	AP5	6	1.25	1.25			
18	2	R	AP5	7	1.25	1.25			
18	2	R	AP5	*	1.25	1.25			
18	1	R	AP6	1	0.35	0.35			
18	1	R	AP6	2	0.35	0.35			
18	1	R	AP6	3	0.35	0.35			
18	1	R	AP6	4	0.35	0.35			
18	1	R	AP6	5	0.35	0.35			
18	1	R	AP6	6	0.35	0.35			

18	1	R	AP6	7	0.35	0.35			
18	1	R	AP6	*	0.35	0.35			
18	2	R	AP6	1	1.25	1.25			
18	2	R	AP6	2	1.25	1.25			
18	2	R	AP6	3	1.25	1.25			
18	2	R	AP6	4	1.25	1.25			
18	2	R	AP6	5	1.25	1.25			
18	2	R	AP6	6	1.25	1.25			
18	2	R	AP6	7	1.25	1.25			
18	2	R	AP6	*	1.25	1.25			
18	1	R	AQ1	1	0.35	0.35			
18	1	R	AQ1	2	0.35	0.35			
18	1	R	AQ1	3	0.35	0.35			
18	1	R	AQ1	4	0.35	0.35			
18	1	R	AQ1	5	0.35	0.35			
18	1	R	AQ1	6	0.35	0.35			
18	1	R	AQ1	7	0.35	0.35			
18	1	R	AQ1	*	0.35	0.35			
18	2	R	AQ1	1	1.25	1.25			
18	2	R	AQ1	2	1.25	1.25			
18	2	R	AQ1	3	1.25	1.25			
18	2	R	AQ1	4	1.25	1.25			
18	2	R	AQ1	5	1.25	1.25			
18	2	R	AQ1	6	1.25	1.25			
18	2	R	AQ1	7	1.25	1.25			
18	2	R	AQ1	*	1.25	1.25			
18	1	R	AX	1					100
18	1	R	AX	2					100
18	1	R	AX	3					100
18	1	R	AX	4					100
18	1	R	AX	5					100
18	1	R	AX	6					100
18	1	R	AX	7					100
18	1	R	AX	*					100
18	2	R	AX	1					64.5
18	2	R	AX	2					64.5
18	2	R	AX	3					64.5
18	2	R	AX	4					64.5
18	2	R	AX	5					64.5
18	2	R	AX	6					64.5
18	2	R	AX	7					64.5
18	2	R	AX	*					64.5
18	3	R	AX	1					96.4
18	3	R	AX	2					96.4
18	3	R	AX	3					96.4
18	3	R	AX	4					96.4

18	3	R	AX	5					96.4
18	3	R	AX	6					96.4
18	3	R	AX	7					96.4
18	3	R	AX	*					96.4
18	4	R	AX	1					64.5
18	4	R	AX	2					64.5
18	4	R	AX	3					64.5
18	4	R	AX	4					64.5
18	4	R	AX	5					64.5
18	4	R	AX	6					64.5
18	4	R	AX	7					64.5
18	4	R	AX	*					64.5
18	1	R	AX1	1	0.35	0.35			
18	1	R	AX1	2	0.35	0.35			
18	1	R	AX1	3	0.35	0.35			
18	1	R	AX1	4	0.35	0.35			
18	1	R	AX1	5	0.35	0.35			
18	1	R	AX1	6	0.35	0.35			
18	1	R	AX1	7	0.35	0.35			
18	1	R	AX1	*	0.35	0.35			
18	2	R	AX1	1	1.25	1.25			
18	2	R	AX1	2	1.25	1.25			
18	2	R	AX1	3	1.25	1.25			
18	2	R	AX1	4	1.25	1.25			
18	2	R	AX1	5	1.25	1.25			
18	2	R	AX1	6	1.25	1.25			
18	2	R	AX1	7	1.25	1.25			
18	2	R	AX1	*	1.25	1.25			
18	1.5	R	MA	1					92
18	1.5	R	MA	2					92
18	1.5	R	MA	3					92
18	1.5	R	MA	4					92
18	1.5	R	MA	5					92
18	1.5	R	MA	6					92
18	1.5	R	MA	7					92
18	1.5	R	MA	8					92
18	1.5	R	MA	1-					92
18	1.5	R	MA	1+					92
18	1.5	R	MA	2-					92
18	1.5	R	MA	2+					92
18	1.5	R	MA	3-					92
18	1.5	R	MA	3+					92
18	1.5	R	MA	4-					92
18	1.5	R	MA	4+					92
18	1.5	R	MA	5-					92
18	1.5	R	MA	5+					92

18	1.5	R	MA	6-					92
18	1.5	R	MA	6+					92
18	1.5	R	MA	7-					92
18	1.5	R	MA	7+					92
18	1.5	R	MA	8-					92
18	1.5	R	MA	8+					92
18	2	R	MA	1					95
18	2	R	MA	2					95
18	2	R	MA	3					95
18	2	R	MA	4					95
18	2	R	MA	5					95
18	2	R	MA	6					95
18	2	R	MA	7					95
18	2	R	MA	8					95
18	2	R	MA	1-					95
18	2	R	MA	1+					95
18	2	R	MA	2-					95
18	2	R	MA	2+					95
18	2	R	MA	3-					95
18	2	R	MA	3+					95
18	2	R	MA	4-					95
18	2	R	MA	4+					95
18	2	R	MA	5-					95
18	2	R	MA	5+					95
18	2	R	MA	6-					95
18	2	R	MA	6+					95
18	2	R	MA	7-					95
18	2	R	MA	7+					95
18	2	R	MA	8-					95
18	2	R	MA	8+					95
18	2.5	R	MA	1					92
18	2.5	R	MA	2					92
18	2.5	R	MA	3					92
18	2.5	R	MA	4					92
18	2.5	R	MA	5					92
18	2.5	R	MA	6					92
18	2.5	R	MA	7					92
18	2.5	R	MA	8					92
18	2.5	R	MA	1-					92
18	2.5	R	MA	1+					92
18	2.5	R	MA	2-					92
18	2.5	R	MA	2+					92
18	2.5	R	MA	3-					92
18	2.5	R	MA	3+					92
18	2.5	R	MA	4-					92
18	2.5	R	MA	4+					92

18	2.5	R	MA	5-					92
18	2.5	R	MA	5+					92
18	2.5	R	MA	6-					92
18	2.5	R	MA	6+					92
18	2.5	R	MA	7-					92
18	2.5	R	MA	7+					92
18	2.5	R	MA	8-					92
18	2.5	R	MA	8+					92
18	3	R	MA	1					100
18	3	R	MA	2					100
18	3	R	MA	3					100
18	3	R	MA	4					100
18	3	R	MA	5					100
18	3	R	MA	6					100
18	3	R	MA	7					100
18	3	R	MA	8					100
18	3	R	MA	1-					100
18	3	R	MA	1+					100
18	3	R	MA	2-					100
18	3	R	MA	2+					100
18	3	R	MA	3-					100
18	3	R	MA	3+					100
18	3	R	MA	4-					100
18	3	R	MA	4+					100
18	3	R	MA	5-					100
18	3	R	MA	5+					100
18	3	R	MA	6-					100
18	3	R	MA	6+					100
18	3	R	MA	7-					100
18	3	R	MA	7+					100
18	3	R	MA	8-					100
18	3	R	MA	8+					100
18	1	M	MAMH1	2			943	943	
18	1	M	MAMH1	3			943	943	
18	1	M	MAMH1	4			1210	1210	
18	1	M	MAMH1	5			1524	1524	
18	1	M	MAMH1	6			2105	2105	
18	1	M	MAMH1	7			2901	2901	
18	2	M	MAMH1	2			608	608	
18	2	M	MAMH1	3			608	608	
18	2	M	MAMH1	4			780	780	
18	2	M	MAMH1	5			983	983	
18	2	M	MAMH1	6			1357	1357	
18	2	M	MAMH1	7			1870	1870	
18	3	M	MAMH1	2			913	913	
18	3	M	MAMH1	3			913	913	

18	3	M	MAMH1	4			1170	1170	
18	3	M	MAMH1	5			1474	1474	
18	3	M	MAMH1	6			1474	1474	
18	3	M	MAMH1	7			1524	1524	
18	4	M	MAMH1	2			608	608	
18	4	M	MAMH1	3			608	608	
18	4	M	MAMH1	4			780	780	
18	4	M	MAMH1	5			983	983	
18	4	M	MAMH1	6			983	983	
18	4	M	MAMH1	7			1210	1210	
18	1	M	MAMH2	1			943	943	
18	1	M	MAMH2	2			943	943	
18	1	M	MAMH2	3			943	943	
18	1	M	MAMH2	4			1210	1210	
18	1	M	MAMH2	5			1524	1524	
18	1	M	MAMH2	6			2105	2105	
18	1	M	MAMH2	7			2901	2901	
18	2	M	MAMH2	1			608	608	
18	2	M	MAMH2	2			608	608	
18	2	M	MAMH2	3			608	608	
18	2	M	MAMH2	4			780	780	
18	2	M	MAMH2	5			983	983	
18	2	M	MAMH2	6			1357	1357	
18	2	M	MAMH2	7			1870	1870	
18	3	M	MAMH2	1			913	913	
18	3	M	MAMH2	2			913	913	
18	3	M	MAMH2	3			913	913	
18	3	M	MAMH2	4			1170	1170	
18	3	M	MAMH2	5			1474	1474	
18	3	M	MAMH2	6			1474	1474	
18	3	M	MAMH2	7			1524	1524	
18	4	M	MAMH2	1			608	608	
18	4	M	MAMH2	2			608	608	
18	4	M	MAMH2	3			608	608	
18	4	M	MAMH2	4			780	780	
18	4	M	MAMH2	5			983	983	
18	4	M	MAMH2	6			983	983	
18	4	M	MAMH2	7			1210	1210	
18	1	R	RP1	1			1500	1500	
18	1	R	RP1	2			1500	1500	
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18	1	R	RP1	5			1500	1500	
18	1	R	RP1	6			1500	1500	
18	1	R	RP1	7			1500	1500	
18	1	R	RP1	8			1500	1500	

18	1	R	RP1	*			1500	1500	
18	1	R	RP1	1-			1500	1500	
18	1	R	RP1	1+			1500	1500	
18	1	R	RP1	2-			1500	1500	
18	1	R	RP1	2+			1500	1500	
18	1	R	RP1	3-			1500	1500	
18	1	R	RP1	3+			1500	1500	
18	1	R	RP1	4-			1500	1500	
18	1	R	RP1	4+			1500	1500	
18	1	R	RP1	5-			1500	1500	
18	1	R	RP1	5+			1500	1500	
18	1	R	RP1	6-			1500	1500	
18	1	R	RP1	6+			1500	1500	
18	1	R	RP1	7-			1500	1500	
18	1	R	RP1	7+			1500	1500	
18	1	R	RP1	8-			1500	1500	
18	1	R	RP1	8+			1500	1500	
18	2	R	RP1	1			798	798	
18	2	R	RP1	2			798	798	
18	2	R	RP1	3			798	798	
18	2	R	RP1	4			798	798	
18	2	R	RP1	5			798	798	
18	2	R	RP1	6			798	798	
18	2	R	RP1	7			798	798	
18	2	R	RP1	8			798	798	
18	2	R	RP1	*			798	798	
18	2	R	RP1	1-			798	798	
18	2	R	RP1	1+			798	798	
18	2	R	RP1	2-			798	798	
18	2	R	RP1	2+			798	798	
18	2	R	RP1	3-			798	798	
18	2	R	RP1	3+			798	798	
18	2	R	RP1	4-			798	798	
18	2	R	RP1	4+			798	798	
18	2	R	RP1	5-			798	798	
18	2	R	RP1	5+			798	798	
18	2	R	RP1	6-			798	798	
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18	2	R	RP1	7-			798	798	
18	2	R	RP1	7+			798	798	
18	2	R	RP1	8-			798	798	
18	2	R	RP1	8+			798	798	
18	3	R	RP1	1			1729	1729	
18	3	R	RP1	2			1729	1729	
18	3	R	RP1	3			1729	1729	
18	3	R	RP1	4			1729	1729	

18	3	R	RP1	5			1729	1729	
18	3	R	RP1	6			1729	1729	
18	3	R	RP1	7			1729	1729	
18	3	R	RP1	8			1729	1729	
18	3	R	RP1	*			1729	1729	
18	3	R	RP1	1-			1729	1729	
18	3	R	RP1	1+			1729	1729	
18	3	R	RP1	2-			1729	1729	
18	3	R	RP1	2+			1729	1729	
18	3	R	RP1	3-			1729	1729	
18	3	R	RP1	3+			1729	1729	
18	3	R	RP1	4-			1729	1729	
18	3	R	RP1	4+			1729	1729	
18	3	R	RP1	5-			1729	1729	
18	3	R	RP1	5+			1729	1729	
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18	3	R	RP1	6+			1729	1729	
18	3	R	RP1	7-			1729	1729	
18	3	R	RP1	7+			1729	1729	
18	3	R	RP1	8-			1729	1729	
18	3	R	RP1	8+			1729	1729	
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18	1	R	RP2	4			1500	1500	
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18	1	R	RP2	6			1500	1500	
18	1	R	RP2	7			1500	1500	
18	1	R	RP2	8			1500	1500	
18	1	R	RP2	*			1500	1500	
18	1	R	RP2	1-			1500	1500	
18	1	R	RP2	1+			1500	1500	
18	1	R	RP2	2-			1500	1500	
18	1	R	RP2	2+			1500	1500	
18	1	R	RP2	3-			1500	1500	
18	1	R	RP2	3+			1500	1500	
18	1	R	RP2	4-			1500	1500	
18	1	R	RP2	4+			1500	1500	
18	1	R	RP2	5-			1500	1500	
18	1	R	RP2	5+			1500	1500	
18	1	R	RP2	6-			1500	1500	
18	1	R	RP2	6+			1500	1500	
18	1	R	RP2	7-			1500	1500	
18	1	R	RP2	7+			1500	1500	
18	1	R	RP2	8-			1500	1500	
18	1	R	RP2	8+			1500	1500	

18	2	R	RP2	1			798	798	
18	2	R	RP2	2			798	798	
18	2	R	RP2	3			798	798	
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18	2	R	RP2	5			798	798	
18	2	R	RP2	6			798	798	
18	2	R	RP2	7			798	798	
18	2	R	RP2	8			798	798	
18	2	R	RP2	*			798	798	
18	2	R	RP2	1-			798	798	
18	2	R	RP2	1+			798	798	
18	2	R	RP2	2-			798	798	
18	2	R	RP2	2+			798	798	
18	2	R	RP2	3-			798	798	
18	2	R	RP2	3+			798	798	
18	2	R	RP2	4-			798	798	
18	2	R	RP2	4+			798	798	
18	2	R	RP2	5-			798	798	
18	2	R	RP2	5+			798	798	
18	2	R	RP2	6-			798	798	
18	2	R	RP2	6+			798	798	
18	2	R	RP2	7-			798	798	
18	2	R	RP2	7+			798	798	
18	2	R	RP2	8-			798	798	
18	2	R	RP2	8+			798	798	
18	3	R	RP2	1			1729	1729	
18	3	R	RP2	2			1729	1729	
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18	3	R	RP2	*			1729	1729	
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18	3	R	RP2	2+			1729	1729	
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18	3	R	RP2	3+			1729	1729	
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18	3	R	RP2	5-			1729	1729	
18	3	R	RP2	5+			1729	1729	
18	3	R	RP2	6-			1729	1729	
18	3	R	RP2	6+			1729	1729	

18	3	R	RP2	7-			1729	1729	
18	3	R	RP2	7+			1729	1729	
18	3	R	RP2	8-			1729	1729	
18	3	R	RP2	8+			1729	1729	
18	1	R	RP3	1			1500	1500	
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18	1	R	RP3	*			1500	1500	
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18	1	R	RP3	2-			1500	1500	
18	1	R	RP3	2+			1500	1500	
18	1	R	RP3	3-			1500	1500	
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18	1	R	RP3	7-			1500	1500	
18	1	R	RP3	7+			1500	1500	
18	1	R	RP3	8-			1500	1500	
18	1	R	RP3	8+			1500	1500	
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18	2	R	RP3	6			798	798	
18	2	R	RP3	7			798	798	
18	2	R	RP3	8			798	798	
18	2	R	RP3	*			798	798	
18	2	R	RP3	1-			798	798	
18	2	R	RP3	1+			798	798	
18	2	R	RP3	2-			798	798	
18	2	R	RP3	2+			798	798	
18	2	R	RP3	3-			798	798	
18	2	R	RP3	3+			798	798	
18	2	R	RP3	4-			798	798	
18	2	R	RP3	4+			798	798	

18	2	R	RP3	5-			798	798	
18	2	R	RP3	5+			798	798	
18	2	R	RP3	6-			798	798	
18	2	R	RP3	6+			798	798	
18	2	R	RP3	7-			798	798	
18	2	R	RP3	7+			798	798	
18	2	R	RP3	8-			798	798	
18	2	R	RP3	8+			798	798	
18	3	R	RP3	1			1729	1729	
18	3	R	RP3	2			1729	1729	
18	3	R	RP3	3			1729	1729	
18	3	R	RP3	4			1729	1729	
18	3	R	RP3	5			1729	1729	
18	3	R	RP3	6			1729	1729	
18	3	R	RP3	7			1729	1729	
18	3	R	RP3	8			1729	1729	
18	3	R	RP3	*			1729	1729	
18	3	R	RP3	1-			1729	1729	
18	3	R	RP3	1+			1729	1729	
18	3	R	RP3	2-			1729	1729	
18	3	R	RP3	2+			1729	1729	
18	3	R	RP3	3-			1729	1729	
18	3	R	RP3	3+			1729	1729	
18	3	R	RP3	4-			1729	1729	
18	3	R	RP3	4+			1729	1729	
18	3	R	RP3	5-			1729	1729	
18	3	R	RP3	5+			1729	1729	
18	3	R	RP3	6-			1729	1729	
18	3	R	RP3	6+			1729	1729	
18	3	R	RP3	7-			1729	1729	
18	3	R	RP3	7+			1729	1729	
18	3	R	RP3	8-			1729	1729	
18	3	R	RP3	8+			1729	1729	
18	1	R	RP4	1			1500	1500	
18	1	R	RP4	2			1500	1500	
18	1	R	RP4	3			1500	1500	
18	1	R	RP4	4			1500	1500	
18	1	R	RP4	5			1500	1500	
18	1	R	RP4	6			1500	1500	
18	1	R	RP4	7			1500	1500	
18	1	R	RP4	8			1500	1500	
18	1	R	RP4	*			1500	1500	
18	1	R	RP4	1-			1500	1500	
18	1	R	RP4	1+			1500	1500	
18	1	R	RP4	2-			1500	1500	
18	1	R	RP4	2+			1500	1500	

18	1	R	RP4	3-			1500	1500	
18	1	R	RP4	3+			1500	1500	
18	1	R	RP4	4-			1500	1500	
18	1	R	RP4	4+			1500	1500	
18	1	R	RP4	5-			1500	1500	
18	1	R	RP4	5+			1500	1500	
18	1	R	RP4	6-			1500	1500	
18	1	R	RP4	6+			1500	1500	
18	1	R	RP4	7-			1500	1500	
18	1	R	RP4	7+			1500	1500	
18	1	R	RP4	8-			1500	1500	
18	1	R	RP4	8+			1500	1500	
18	2	R	RP4	1			798	798	
18	2	R	RP4	2			798	798	
18	2	R	RP4	3			798	798	
18	2	R	RP4	4			798	798	
18	2	R	RP4	5			798	798	
18	2	R	RP4	6			798	798	
18	2	R	RP4	7			798	798	
18	2	R	RP4	8			798	798	
18	2	R	RP4	*			798	798	
18	2	R	RP4	1-			798	798	
18	2	R	RP4	1+			798	798	
18	2	R	RP4	2-			798	798	
18	2	R	RP4	2+			798	798	
18	2	R	RP4	3-			798	798	
18	2	R	RP4	3+			798	798	
18	2	R	RP4	4-			798	798	
18	2	R	RP4	4+			798	798	
18	2	R	RP4	5-			798	798	
18	2	R	RP4	5+			798	798	
18	2	R	RP4	6-			798	798	
18	2	R	RP4	6+			798	798	
18	2	R	RP4	7-			798	798	
18	2	R	RP4	7+			798	798	
18	2	R	RP4	8-			798	798	
18	2	R	RP4	8+			798	798	
18	3	R	RP4	1			1729	1729	
18	3	R	RP4	2			1729	1729	
18	3	R	RP4	3			1729	1729	
18	3	R	RP4	4			1729	1729	
18	3	R	RP4	5			1729	1729	
18	3	R	RP4	6			1729	1729	
18	3	R	RP4	7			1729	1729	
18	3	R	RP4	8			1729	1729	
18	3	R	RP4	*			1729	1729	

18	3	R	RP4	1-			1729	1729	
18	3	R	RP4	1+			1729	1729	
18	3	R	RP4	2-			1729	1729	
18	3	R	RP4	2+			1729	1729	
18	3	R	RP4	3-			1729	1729	
18	3	R	RP4	3+			1729	1729	
18	3	R	RP4	4-			1729	1729	
18	3	R	RP4	4+			1729	1729	
18	3	R	RP4	5-			1729	1729	
18	3	R	RP4	5+			1729	1729	
18	3	R	RP4	6-			1729	1729	
18	3	R	RP4	6+			1729	1729	
18	3	R	RP4	7-			1729	1729	
18	3	R	RP4	7+			1729	1729	
18	3	R	RP4	8-			1729	1729	
18	3	R	RP4	8+			1729	1729	
18	1	R	RP5	1			1500	1500	
18	1	R	RP5	2			1500	1500	
18	1	R	RP5	3			1500	1500	
18	1	R	RP5	4			1500	1500	
18	1	R	RP5	5			1500	1500	
18	1	R	RP5	6			1500	1500	
18	1	R	RP5	7			1500	1500	
18	1	R	RP5	8			1500	1500	
18	1	R	RP5	*			1500	1500	
18	1	R	RP5	1-			1500	1500	
18	1	R	RP5	1+			1500	1500	
18	1	R	RP5	2-			1500	1500	
18	1	R	RP5	2+			1500	1500	
18	1	R	RP5	3-			1500	1500	
18	1	R	RP5	3+			1500	1500	
18	1	R	RP5	4-			1500	1500	
18	1	R	RP5	4+			1500	1500	
18	1	R	RP5	5-			1500	1500	
18	1	R	RP5	5+			1500	1500	
18	1	R	RP5	6-			1500	1500	
18	1	R	RP5	6+			1500	1500	
18	1	R	RP5	7-			1500	1500	
18	1	R	RP5	7+			1500	1500	
18	1	R	RP5	8-			1500	1500	
18	1	R	RP5	8+			1500	1500	
18	2	R	RP5	1			798	798	
18	2	R	RP5	2			798	798	
18	2	R	RP5	3			798	798	
18	2	R	RP5	4			798	798	
18	2	R	RP5	5			798	798	

18	2	R	RP5	6			798	798	
18	2	R	RP5	7			798	798	
18	2	R	RP5	8			798	798	
18	2	R	RP5	*			798	798	
18	2	R	RP5	1-			798	798	
18	2	R	RP5	1+			798	798	
18	2	R	RP5	2-			798	798	
18	2	R	RP5	2+			798	798	
18	2	R	RP5	3-			798	798	
18	2	R	RP5	3+			798	798	
18	2	R	RP5	4-			798	798	
18	2	R	RP5	4+			798	798	
18	2	R	RP5	5-			798	798	
18	2	R	RP5	5+			798	798	
18	2	R	RP5	6-			798	798	
18	2	R	RP5	6+			798	798	
18	2	R	RP5	7-			798	798	
18	2	R	RP5	7+			798	798	
18	2	R	RP5	8-			798	798	
18	2	R	RP5	8+			798	798	
18	3	R	RP5	1			1729	1729	
18	3	R	RP5	2			1729	1729	
18	3	R	RP5	3			1729	1729	
18	3	R	RP5	4			1729	1729	
18	3	R	RP5	5			1729	1729	
18	3	R	RP5	6			1729	1729	
18	3	R	RP5	7			1729	1729	
18	3	R	RP5	8			1729	1729	
18	3	R	RP5	*			1729	1729	
18	3	R	RP5	1-			1729	1729	
18	3	R	RP5	1+			1729	1729	
18	3	R	RP5	2-			1729	1729	
18	3	R	RP5	2+			1729	1729	
18	3	R	RP5	3-			1729	1729	
18	3	R	RP5	3+			1729	1729	
18	3	R	RP5	4-			1729	1729	
18	3	R	RP5	4+			1729	1729	
18	3	R	RP5	5-			1729	1729	
18	3	R	RP5	5+			1729	1729	
18	3	R	RP5	6-			1729	1729	
18	3	R	RP5	6+			1729	1729	
18	3	R	RP5	7-			1729	1729	
18	3	R	RP5	7+			1729	1729	
18	3	R	RP5	8-			1729	1729	
18	3	R	RP5	8+			1729	1729	
26	-7	R	AF	1			4326.89	4326.89	

26	-7	R	AF	2			4326.89	4326.89	
26	-7	R	AF	3			4326.89	4326.89	
26	-7	R	AF	4			4326.89	4326.89	
26	-7	R	AF	5			4326.89	4326.89	
26	-7	R	AF	6			4326.89	4326.89	
26	-7	R	AF	7			4326.89	4326.89	
26	-7	R	AF	8			4326.89	4326.89	
26	-7	R	AF	*			4326.89	4326.89	
26	-7	R	AF	1-			4326.89	4326.89	
26	-7	R	AF	1+			4326.89	4326.89	
26	-7	R	AF	2-			4326.89	4326.89	
26	-7	R	AF	2+			4326.89	4326.89	
26	-7	R	AF	3-			4326.89	4326.89	
26	-7	R	AF	3+			4326.89	4326.89	
26	-7	R	AF	4-			4326.89	4326.89	
26	-7	R	AF	4+			4326.89	4326.89	
26	-7	R	AF	5-			4326.89	4326.89	
26	-7	R	AF	5+			4326.89	4326.89	
26	-7	R	AF	6-			4326.89	4326.89	
26	-7	R	AF	6+			4326.89	4326.89	
26	-7	R	AF	7-			4326.89	4326.89	
26	-7	R	AF	7+			4326.89	4326.89	
26	-7	R	AF	8-			4326.89	4326.89	
26	-7	R	AF	8+			4326.89	4326.89	
26	-6	R	AF	1			3405.42	3405.42	
26	-6	R	AF	2			3405.42	3405.42	
26	-6	R	AF	3			3405.42	3405.42	
26	-6	R	AF	4			3405.42	3405.42	
26	-6	R	AF	5			3405.42	3405.42	
26	-6	R	AF	6			3405.42	3405.42	
26	-6	R	AF	7			3405.42	3405.42	
26	-6	R	AF	8			3405.42	3405.42	
26	-6	R	AF	*			3405.42	3405.42	
26	-6	R	AF	1-			3405.42	3405.42	
26	-6	R	AF	1+			3405.42	3405.42	
26	-6	R	AF	2-			3405.42	3405.42	
26	-6	R	AF	2+			3405.42	3405.42	
26	-6	R	AF	3-			3405.42	3405.42	
26	-6	R	AF	3+			3405.42	3405.42	
26	-6	R	AF	4-			3405.42	3405.42	
26	-6	R	AF	4+			3405.42	3405.42	
26	-6	R	AF	5-			3405.42	3405.42	
26	-6	R	AF	5+			3405.42	3405.42	
26	-6	R	AF	6-			3405.42	3405.42	
26	-6	R	AF	6+			3405.42	3405.42	
26	-6	R	AF	7-			3405.42	3405.42	

26	-6	R	AF	7+			3405.42	3405.42	
26	-6	R	AF	8-			3405.42	3405.42	
26	-6	R	AF	8+			3405.42	3405.42	
26	-5	R	AF	1			2363.76	2363.76	
26	-5	R	AF	2			2363.76	2363.76	
26	-5	R	AF	3			2363.76	2363.76	
26	-5	R	AF	4			2363.76	2363.76	
26	-5	R	AF	5			2363.76	2363.76	
26	-5	R	AF	6			2363.76	2363.76	
26	-5	R	AF	7			2363.76	2363.76	
26	-5	R	AF	8			2363.76	2363.76	
26	-5	R	AF	*			2363.76	2363.76	
26	-5	R	AF	1-			2363.76	2363.76	
26	-5	R	AF	1+			2363.76	2363.76	
26	-5	R	AF	2-			2363.76	2363.76	
26	-5	R	AF	2+			2363.76	2363.76	
26	-5	R	AF	3-			2363.76	2363.76	
26	-5	R	AF	3+			2363.76	2363.76	
26	-5	R	AF	4-			2363.76	2363.76	
26	-5	R	AF	4+			2363.76	2363.76	
26	-5	R	AF	5-			2363.76	2363.76	
26	-5	R	AF	5+			2363.76	2363.76	
26	-5	R	AF	6-			2363.76	2363.76	
26	-5	R	AF	6+			2363.76	2363.76	
26	-5	R	AF	7-			2363.76	2363.76	
26	-5	R	AF	7+			2363.76	2363.76	
26	-5	R	AF	8-			2363.76	2363.76	
26	-5	R	AF	8+			2363.76	2363.76	
26	-4	R	AF	1			1802.87	1802.87	
26	-4	R	AF	2			1802.87	1802.87	
26	-4	R	AF	3			1802.87	1802.87	
26	-4	R	AF	4			1802.87	1802.87	
26	-4	R	AF	5			1802.87	1802.87	
26	-4	R	AF	6			1802.87	1802.87	
26	-4	R	AF	7			1802.87	1802.87	
26	-4	R	AF	8			1802.87	1802.87	
26	-4	R	AF	*			1802.87	1802.87	
26	-4	R	AF	1-			1802.87	1802.87	
26	-4	R	AF	1+			1802.87	1802.87	
26	-4	R	AF	2-			1802.87	1802.87	
26	-4	R	AF	2+			1802.87	1802.87	
26	-4	R	AF	3-			1802.87	1802.87	
26	-4	R	AF	3+			1802.87	1802.87	
26	-4	R	AF	4-			1802.87	1802.87	
26	-4	R	AF	4+			1802.87	1802.87	
26	-4	R	AF	5-			1802.87	1802.87	

26	-4	R	AF	5+			1802.87	1802.87	
26	-4	R	AF	6-			1802.87	1802.87	
26	-4	R	AF	6+			1802.87	1802.87	
26	-4	R	AF	7-			1802.87	1802.87	
26	-4	R	AF	7+			1802.87	1802.87	
26	-4	R	AF	8-			1802.87	1802.87	
26	-4	R	AF	8+			1802.87	1802.87	
26	-3	R	AF	1			1482.36	1482.36	
26	-3	R	AF	2			1482.36	1482.36	
26	-3	R	AF	3			1482.36	1482.36	
26	-3	R	AF	4			1482.36	1482.36	
26	-3	R	AF	5			1482.36	1482.36	
26	-3	R	AF	6			1482.36	1482.36	
26	-3	R	AF	7			1482.36	1482.36	
26	-3	R	AF	8			1482.36	1482.36	
26	-3	R	AF	*			1482.36	1482.36	
26	-3	R	AF	1-			1482.36	1482.36	
26	-3	R	AF	1+			1482.36	1482.36	
26	-3	R	AF	2-			1482.36	1482.36	
26	-3	R	AF	2+			1482.36	1482.36	
26	-3	R	AF	3-			1482.36	1482.36	
26	-3	R	AF	3+			1482.36	1482.36	
26	-3	R	AF	4-			1482.36	1482.36	
26	-3	R	AF	4+			1482.36	1482.36	
26	-3	R	AF	5-			1482.36	1482.36	
26	-3	R	AF	5+			1482.36	1482.36	
26	-3	R	AF	6-			1482.36	1482.36	
26	-3	R	AF	6+			1482.36	1482.36	
26	-3	R	AF	7-			1482.36	1482.36	
26	-3	R	AF	7+			1482.36	1482.36	
26	-3	R	AF	8-			1482.36	1482.36	
26	-3	R	AF	8+			1482.36	1482.36	
26	-2	R	AF	1			1001.59	1001.59	
26	-2	R	AF	2			1001.59	1001.59	
26	-2	R	AF	3			1001.59	1001.59	
26	-2	R	AF	4			1001.59	1001.59	
26	-2	R	AF	5			1001.59	1001.59	
26	-2	R	AF	6			1001.59	1001.59	
26	-2	R	AF	7			1001.59	1001.59	
26	-2	R	AF	8			1001.59	1001.59	
26	-2	R	AF	*			1001.59	1001.59	
26	-2	R	AF	1-			1001.59	1001.59	
26	-2	R	AF	1+			1001.59	1001.59	
26	-2	R	AF	2-			1001.59	1001.59	
26	-2	R	AF	2+			1001.59	1001.59	
26	-2	R	AF	3-			1001.59	1001.59	

26	-2	R	AF	3+			1001.59	1001.59	
26	-2	R	AF	4-			1001.59	1001.59	
26	-2	R	AF	4+			1001.59	1001.59	
26	-2	R	AF	5-			1001.59	1001.59	
26	-2	R	AF	5+			1001.59	1001.59	
26	-2	R	AF	6-			1001.59	1001.59	
26	-2	R	AF	6+			1001.59	1001.59	
26	-2	R	AF	7-			1001.59	1001.59	
26	-2	R	AF	7+			1001.59	1001.59	
26	-2	R	AF	8-			1001.59	1001.59	
26	-2	R	AF	8+			1001.59	1001.59	
26	-1	R	AF	1			601.07	601.07	
26	-1	R	AF	2			601.07	601.07	
26	-1	R	AF	3			601.07	601.07	
26	-1	R	AF	4			601.07	601.07	
26	-1	R	AF	5			601.07	601.07	
26	-1	R	AF	6			601.07	601.07	
26	-1	R	AF	7			601.07	601.07	
26	-1	R	AF	8			601.07	601.07	
26	-1	R	AF	*			601.07	601.07	
26	-1	R	AF	1-			601.07	601.07	
26	-1	R	AF	1+			601.07	601.07	
26	-1	R	AF	2-			601.07	601.07	
26	-1	R	AF	2+			601.07	601.07	
26	-1	R	AF	3-			601.07	601.07	
26	-1	R	AF	3+			601.07	601.07	
26	-1	R	AF	4-			601.07	601.07	
26	-1	R	AF	4+			601.07	601.07	
26	-1	R	AF	5-			601.07	601.07	
26	-1	R	AF	5+			601.07	601.07	
26	-1	R	AF	6-			601.07	601.07	
26	-1	R	AF	6+			601.07	601.07	
26	-1	R	AF	7-			601.07	601.07	
26	-1	R	AF	7+			601.07	601.07	
26	-1	R	AF	8-			601.07	601.07	
26	-1	R	AF	8+			601.07	601.07	
26	1	R	AF	1			701.12	701.12	
26	1	R	AF	2			701.12	701.12	
26	1	R	AF	3			701.12	701.12	
26	1	R	AF	4			701.12	701.12	
26	1	R	AF	5			701.12	701.12	
26	1	R	AF	6			701.12	701.12	
26	1	R	AF	7			701.12	701.12	
26	1	R	AF	8			701.12	701.12	
26	1	R	AF	*			701.12	701.12	
26	1	R	AF	1-			701.12	701.12	

26	1	R	AF	1+			701.12	701.12	
26	1	R	AF	2-			701.12	701.12	
26	1	R	AF	2+			701.12	701.12	
26	1	R	AF	3-			701.12	701.12	
26	1	R	AF	3+			701.12	701.12	
26	1	R	AF	4-			701.12	701.12	
26	1	R	AF	4+			701.12	701.12	
26	1	R	AF	5-			701.12	701.12	
26	1	R	AF	5+			701.12	701.12	
26	1	R	AF	6-			701.12	701.12	
26	1	R	AF	6+			701.12	701.12	
26	1	R	AF	7-			701.12	701.12	
26	1	R	AF	7+			701.12	701.12	
26	1	R	AF	8-			701.12	701.12	
26	1	R	AF	8+			701.12	701.12	
26	2	R	AF	1			1181.88	1181.88	
26	2	R	AF	2			1181.88	1181.88	
26	2	R	AF	3			1181.88	1181.88	
26	2	R	AF	4			1181.88	1181.88	
26	2	R	AF	5			1181.88	1181.88	
26	2	R	AF	6			1181.88	1181.88	
26	2	R	AF	7			1181.88	1181.88	
26	2	R	AF	8			1181.88	1181.88	
26	2	R	AF	*			1181.88	1181.88	
26	2	R	AF	1-			1181.88	1181.88	
26	2	R	AF	1+			1181.88	1181.88	
26	2	R	AF	2-			1181.88	1181.88	
26	2	R	AF	2+			1181.88	1181.88	
26	2	R	AF	3-			1181.88	1181.88	
26	2	R	AF	3+			1181.88	1181.88	
26	2	R	AF	4-			1181.88	1181.88	
26	2	R	AF	4+			1181.88	1181.88	
26	2	R	AF	5-			1181.88	1181.88	
26	2	R	AF	5+			1181.88	1181.88	
26	2	R	AF	6-			1181.88	1181.88	
26	2	R	AF	6+			1181.88	1181.88	
26	2	R	AF	7-			1181.88	1181.88	
26	2	R	AF	7+			1181.88	1181.88	
26	2	R	AF	8-			1181.88	1181.88	
26	2	R	AF	8+			1181.88	1181.88	
26	3	R	AF	1			1662.65	1662.65	
26	3	R	AF	2			1662.65	1662.65	
26	3	R	AF	3			1662.65	1662.65	
26	3	R	AF	4			1662.65	1662.65	
26	3	R	AF	5			1662.65	1662.65	
26	3	R	AF	6			1662.65	1662.65	

26	3	R	AF	7			1662.65	1662.65	
26	3	R	AF	8			1662.65	1662.65	
26	3	R	AF	*			1662.65	1662.65	
26	3	R	AF	1-			1662.65	1662.65	
26	3	R	AF	1+			1662.65	1662.65	
26	3	R	AF	2-			1662.65	1662.65	
26	3	R	AF	2+			1662.65	1662.65	
26	3	R	AF	3-			1662.65	1662.65	
26	3	R	AF	3+			1662.65	1662.65	
26	3	R	AF	4-			1662.65	1662.65	
26	3	R	AF	4+			1662.65	1662.65	
26	3	R	AF	5-			1662.65	1662.65	
26	3	R	AF	5+			1662.65	1662.65	
26	3	R	AF	6-			1662.65	1662.65	
26	3	R	AF	6+			1662.65	1662.65	
26	3	R	AF	7-			1662.65	1662.65	
26	3	R	AF	7+			1662.65	1662.65	
26	3	R	AF	8-			1662.65	1662.65	
26	3	R	AF	8+			1662.65	1662.65	
26	4	R	AF	1			2003.19	2003.19	
26	4	R	AF	2			2003.19	2003.19	
26	4	R	AF	3			2003.19	2003.19	
26	4	R	AF	4			2003.19	2003.19	
26	4	R	AF	5			2003.19	2003.19	
26	4	R	AF	6			2003.19	2003.19	
26	4	R	AF	7			2003.19	2003.19	
26	4	R	AF	8			2003.19	2003.19	
26	4	R	AF	*			2003.19	2003.19	
26	4	R	AF	1-			2003.19	2003.19	
26	4	R	AF	1+			2003.19	2003.19	
26	4	R	AF	2-			2003.19	2003.19	
26	4	R	AF	2+			2003.19	2003.19	
26	4	R	AF	3-			2003.19	2003.19	
26	4	R	AF	3+			2003.19	2003.19	
26	4	R	AF	4-			2003.19	2003.19	
26	4	R	AF	4+			2003.19	2003.19	
26	4	R	AF	5-			2003.19	2003.19	
26	4	R	AF	5+			2003.19	2003.19	
26	4	R	AF	6-			2003.19	2003.19	
26	4	R	AF	6+			2003.19	2003.19	
26	4	R	AF	7-			2003.19	2003.19	
26	4	R	AF	7+			2003.19	2003.19	
26	4	R	AF	8-			2003.19	2003.19	
26	4	R	AF	8+			2003.19	2003.19	
26	5	R	AF	1			2804.46	2804.46	
26	5	R	AF	2			2804.46	2804.46	

26	5	R	AF	3			2804.46	2804.46	
26	5	R	AF	4			2804.46	2804.46	
26	5	R	AF	5			2804.46	2804.46	
26	5	R	AF	6			2804.46	2804.46	
26	5	R	AF	7			2804.46	2804.46	
26	5	R	AF	8			2804.46	2804.46	
26	5	R	AF	*			2804.46	2804.46	
26	5	R	AF	1-			2804.46	2804.46	
26	5	R	AF	1+			2804.46	2804.46	
26	5	R	AF	2-			2804.46	2804.46	
26	5	R	AF	2+			2804.46	2804.46	
26	5	R	AF	3-			2804.46	2804.46	
26	5	R	AF	3+			2804.46	2804.46	
26	5	R	AF	4-			2804.46	2804.46	
26	5	R	AF	4+			2804.46	2804.46	
26	5	R	AF	5-			2804.46	2804.46	
26	5	R	AF	5+			2804.46	2804.46	
26	5	R	AF	6-			2804.46	2804.46	
26	5	R	AF	6+			2804.46	2804.46	
26	5	R	AF	7-			2804.46	2804.46	
26	5	R	AF	7+			2804.46	2804.46	
26	5	R	AF	8-			2804.46	2804.46	
26	5	R	AF	8+			2804.46	2804.46	
26	6	R	AF	1			3866.15	3866.15	
26	6	R	AF	2			3866.15	3866.15	
26	6	R	AF	3			3866.15	3866.15	
26	6	R	AF	4			3866.15	3866.15	
26	6	R	AF	5			3866.15	3866.15	
26	6	R	AF	6			3866.15	3866.15	
26	6	R	AF	7			3866.15	3866.15	
26	6	R	AF	8			3866.15	3866.15	
26	6	R	AF	*			3866.15	3866.15	
26	6	R	AF	1-			3866.15	3866.15	
26	6	R	AF	1+			3866.15	3866.15	
26	6	R	AF	2-			3866.15	3866.15	
26	6	R	AF	2+			3866.15	3866.15	
26	6	R	AF	3-			3866.15	3866.15	
26	6	R	AF	3+			3866.15	3866.15	
26	6	R	AF	4-			3866.15	3866.15	
26	6	R	AF	4+			3866.15	3866.15	
26	6	R	AF	5-			3866.15	3866.15	
26	6	R	AF	5+			3866.15	3866.15	
26	6	R	AF	6-			3866.15	3866.15	
26	6	R	AF	6+			3866.15	3866.15	
26	6	R	AF	7-			3866.15	3866.15	
26	6	R	AF	7+			3866.15	3866.15	

26	6	R	AF	8-			3866.15	3866.15	
26	6	R	AF	8+			3866.15	3866.15	
26	7	R	AF	1			4967.91	4967.91	
26	7	R	AF	2			4967.91	4967.91	
26	7	R	AF	3			4967.91	4967.91	
26	7	R	AF	4			4967.91	4967.91	
26	7	R	AF	5			4967.91	4967.91	
26	7	R	AF	6			4967.91	4967.91	
26	7	R	AF	7			4967.91	4967.91	
26	7	R	AF	8			4967.91	4967.91	
26	7	R	AF	*			4967.91	4967.91	
26	7	R	AF	1-			4967.91	4967.91	
26	7	R	AF	1+			4967.91	4967.91	
26	7	R	AF	2-			4967.91	4967.91	
26	7	R	AF	2+			4967.91	4967.91	
26	7	R	AF	3-			4967.91	4967.91	
26	7	R	AF	3+			4967.91	4967.91	
26	7	R	AF	4-			4967.91	4967.91	
26	7	R	AF	4+			4967.91	4967.91	
26	7	R	AF	5-			4967.91	4967.91	
26	7	R	AF	5+			4967.91	4967.91	
26	7	R	AF	6-			4967.91	4967.91	
26	7	R	AF	6+			4967.91	4967.91	
26	7	R	AF	7-			4967.91	4967.91	
26	7	R	AF	7+			4967.91	4967.91	
26	7	R	AF	8-			4967.91	4967.91	
26	7	R	AF	8+			4967.91	4967.91	
26	1+	R	AF	1			801.26	801.26	
26	1+	R	AF	2			801.26	801.26	
26	1+	R	AF	3			801.26	801.26	
26	1+	R	AF	4			801.26	801.26	
26	1+	R	AF	5			801.26	801.26	
26	1+	R	AF	6			801.26	801.26	
26	1+	R	AF	7			801.26	801.26	
26	1+	R	AF	8			801.26	801.26	
26	1+	R	AF	*			801.26	801.26	
26	1+	R	AF	1-			801.26	801.26	
26	1+	R	AF	1+			801.26	801.26	
26	1+	R	AF	2-			801.26	801.26	
26	1+	R	AF	2+			801.26	801.26	
26	1+	R	AF	3-			801.26	801.26	
26	1+	R	AF	3+			801.26	801.26	
26	1+	R	AF	4-			801.26	801.26	
26	1+	R	AF	4+			801.26	801.26	
26	1+	R	AF	5-			801.26	801.26	
26	1+	R	AF	5+			801.26	801.26	

26	1+	R	AF	6-			801.26	801.26	
26	1+	R	AF	6+			801.26	801.26	
26	1+	R	AF	7-			801.26	801.26	
26	1+	R	AF	7+			801.26	801.26	
26	1+	R	AF	8-			801.26	801.26	
26	1+	R	AF	8+			801.26	801.26	
26	2+	R	AF	1			1402.23	1402.23	
26	2+	R	AF	2			1402.23	1402.23	
26	2+	R	AF	3			1402.23	1402.23	
26	2+	R	AF	4			1402.23	1402.23	
26	2+	R	AF	5			1402.23	1402.23	
26	2+	R	AF	6			1402.23	1402.23	
26	2+	R	AF	7			1402.23	1402.23	
26	2+	R	AF	8			1402.23	1402.23	
26	2+	R	AF	*			1402.23	1402.23	
26	2+	R	AF	1-			1402.23	1402.23	
26	2+	R	AF	1+			1402.23	1402.23	
26	2+	R	AF	2-			1402.23	1402.23	
26	2+	R	AF	2+			1402.23	1402.23	
26	2+	R	AF	3-			1402.23	1402.23	
26	2+	R	AF	3+			1402.23	1402.23	
26	2+	R	AF	4-			1402.23	1402.23	
26	2+	R	AF	4+			1402.23	1402.23	
26	2+	R	AF	5-			1402.23	1402.23	
26	2+	R	AF	5+			1402.23	1402.23	
26	2+	R	AF	6-			1402.23	1402.23	
26	2+	R	AF	6+			1402.23	1402.23	
26	2+	R	AF	7-			1402.23	1402.23	
26	2+	R	AF	7+			1402.23	1402.23	
26	2+	R	AF	8-			1402.23	1402.23	
26	2+	R	AF	8+			1402.23	1402.23	
26	3+	R	AF	1			1782.84	1782.84	
26	3+	R	AF	2			1782.84	1782.84	
26	3+	R	AF	3			1782.84	1782.84	
26	3+	R	AF	4			1782.84	1782.84	
26	3+	R	AF	5			1782.84	1782.84	
26	3+	R	AF	6			1782.84	1782.84	
26	3+	R	AF	7			1782.84	1782.84	
26	3+	R	AF	8			1782.84	1782.84	
26	3+	R	AF	*			1782.84	1782.84	
26	3+	R	AF	1-			1782.84	1782.84	
26	3+	R	AF	1+			1782.84	1782.84	
26	3+	R	AF	2-			1782.84	1782.84	
26	3+	R	AF	2+			1782.84	1782.84	
26	3+	R	AF	3-			1782.84	1782.84	
26	3+	R	AF	3+			1782.84	1782.84	

26	3+	R	AF	4-			1782.84	1782.84	
26	3+	R	AF	4+			1782.84	1782.84	
26	3+	R	AF	5-			1782.84	1782.84	
26	3+	R	AF	5+			1782.84	1782.84	
26	3+	R	AF	6-			1782.84	1782.84	
26	3+	R	AF	6+			1782.84	1782.84	
26	3+	R	AF	7-			1782.84	1782.84	
26	3+	R	AF	7+			1782.84	1782.84	
26	3+	R	AF	8-			1782.84	1782.84	
26	3+	R	AF	8+			1782.84	1782.84	
26	4+	R	AF	1			2183.48	2183.48	
26	4+	R	AF	2			2183.48	2183.48	
26	4+	R	AF	3			2183.48	2183.48	
26	4+	R	AF	4			2183.48	2183.48	
26	4+	R	AF	5			2183.48	2183.48	
26	4+	R	AF	6			2183.48	2183.48	
26	4+	R	AF	7			2183.48	2183.48	
26	4+	R	AF	8			2183.48	2183.48	
26	4+	R	AF	*			2183.48	2183.48	
26	4+	R	AF	1-			2183.48	2183.48	
26	4+	R	AF	1+			2183.48	2183.48	
26	4+	R	AF	2-			2183.48	2183.48	
26	4+	R	AF	2+			2183.48	2183.48	
26	4+	R	AF	3-			2183.48	2183.48	
26	4+	R	AF	3+			2183.48	2183.48	
26	4+	R	AF	4-			2183.48	2183.48	
26	4+	R	AF	4+			2183.48	2183.48	
26	4+	R	AF	5-			2183.48	2183.48	
26	4+	R	AF	5+			2183.48	2183.48	
26	4+	R	AF	6-			2183.48	2183.48	
26	4+	R	AF	6+			2183.48	2183.48	
26	4+	R	AF	7-			2183.48	2183.48	
26	4+	R	AF	7+			2183.48	2183.48	
26	4+	R	AF	8-			2183.48	2183.48	
26	4+	R	AF	8+			2183.48	2183.48	
26	5+	R	AF	1			3104.94	3104.94	
26	5+	R	AF	2			3104.94	3104.94	
26	5+	R	AF	3			3104.94	3104.94	
26	5+	R	AF	4			3104.94	3104.94	
26	5+	R	AF	5			3104.94	3104.94	
26	5+	R	AF	6			3104.94	3104.94	
26	5+	R	AF	7			3104.94	3104.94	
26	5+	R	AF	8			3104.94	3104.94	
26	5+	R	AF	*			3104.94	3104.94	
26	5+	R	AF	1-			3104.94	3104.94	
26	5+	R	AF	1+			3104.94	3104.94	

26	5+	R	AF	2-			3104.94	3104.94	
26	5+	R	AF	2+			3104.94	3104.94	
26	5+	R	AF	3-			3104.94	3104.94	
26	5+	R	AF	3+			3104.94	3104.94	
26	5+	R	AF	4-			3104.94	3104.94	
26	5+	R	AF	4+			3104.94	3104.94	
26	5+	R	AF	5-			3104.94	3104.94	
26	5+	R	AF	5+			3104.94	3104.94	
26	5+	R	AF	6-			3104.94	3104.94	
26	5+	R	AF	6+			3104.94	3104.94	
26	5+	R	AF	7-			3104.94	3104.94	
26	5+	R	AF	7+			3104.94	3104.94	
26	5+	R	AF	8-			3104.94	3104.94	
26	5+	R	AF	8+			3104.94	3104.94	
26	6+	R	AF	1			4106.54	4106.54	
26	6+	R	AF	2			4106.54	4106.54	
26	6+	R	AF	3			4106.54	4106.54	
26	6+	R	AF	4			4106.54	4106.54	
26	6+	R	AF	5			4106.54	4106.54	
26	6+	R	AF	6			4106.54	4106.54	
26	6+	R	AF	7			4106.54	4106.54	
26	6+	R	AF	8			4106.54	4106.54	
26	6+	R	AF	*			4106.54	4106.54	
26	6+	R	AF	1-			4106.54	4106.54	
26	6+	R	AF	1+			4106.54	4106.54	
26	6+	R	AF	2-			4106.54	4106.54	
26	6+	R	AF	2+			4106.54	4106.54	
26	6+	R	AF	3-			4106.54	4106.54	
26	6+	R	AF	3+			4106.54	4106.54	
26	6+	R	AF	4-			4106.54	4106.54	
26	6+	R	AF	4+			4106.54	4106.54	
26	6+	R	AF	5-			4106.54	4106.54	
26	6+	R	AF	5+			4106.54	4106.54	
26	6+	R	AF	6-			4106.54	4106.54	
26	6+	R	AF	6+			4106.54	4106.54	
26	6+	R	AF	7-			4106.54	4106.54	
26	6+	R	AF	7+			4106.54	4106.54	
26	6+	R	AF	8-			4106.54	4106.54	
26	6+	R	AF	8+			4106.54	4106.54	
26	7+	R	AF	1			5348.51	5348.51	
26	7+	R	AF	2			5348.51	5348.51	
26	7+	R	AF	3			5348.51	5348.51	
26	7+	R	AF	4			5348.51	5348.51	
26	7+	R	AF	5			5348.51	5348.51	
26	7+	R	AF	6			5348.51	5348.51	
26	7+	R	AF	7			5348.51	5348.51	

26	7+	R	AF	8			5348.51	5348.51	
26	7+	R	AF	*			5348.51	5348.51	
26	7+	R	AF	1-			5348.51	5348.51	
26	7+	R	AF	1+			5348.51	5348.51	
26	7+	R	AF	2-			5348.51	5348.51	
26	7+	R	AF	2+			5348.51	5348.51	
26	7+	R	AF	3-			5348.51	5348.51	
26	7+	R	AF	3+			5348.51	5348.51	
26	7+	R	AF	4-			5348.51	5348.51	
26	7+	R	AF	4+			5348.51	5348.51	
26	7+	R	AF	5-			5348.51	5348.51	
26	7+	R	AF	5+			5348.51	5348.51	
26	7+	R	AF	6-			5348.51	5348.51	
26	7+	R	AF	6+			5348.51	5348.51	
26	7+	R	AF	7-			5348.51	5348.51	
26	7+	R	AF	7+			5348.51	5348.51	
26	7+	R	AF	8-			5348.51	5348.51	
26	7+	R	AF	8+			5348.51	5348.51	
27	20-Nov	C	MHPK	A	858	858			
27	20-Nov	C	MHPK	C	307.8	307.8			
27	20-Nov	C	MHPK	E	1770	1770			
27	20-Nov	C	MHPK	G	1316.25	1316.25			
27	20-Nov	C	MHPK	L	605	605			
27	10 OR LESS	C	MHPK	A	858	858			
27	10 OR LESS	C	MHPK	C	319.2	319.2			
27	10 OR LESS	C	MHPK	E	1770	1770			
27	10 OR LESS	C	MHPK	G	1316.25	1316.25			
27	10 OR LESS	C	MHPK	L	605	605			
27	101-120	C	MHPK	A	756.6	756.6			
27	101-120	C	MHPK	C	259.35	259.35			
27	101-120	C	MHPK	E	1620	1620			
27	101-120	C	MHPK	G	1181.25	1181.25			
27	101-120	C	MHPK	L	522.5	522.5			
27	121-140	C	MHPK	A	748.8	748.8			
27	121-140	C	MHPK	C	259.35	259.35			
27	121-140	C	MHPK	E	1590	1590			
27	121-140	C	MHPK	G	1158.75	1158.75			
27	121-140	C	MHPK	L	511.5	511.5			
27	141-160	C	MHPK	A	741	741			
27	141-160	C	MHPK	C	259.35	259.35			
27	141-160	C	MHPK	E	1560	1560			
27	141-160	C	MHPK	G	1147.5	1147.5			

27	141-160	C	MHPK	L	500.5	500.5			
27	161-180	C	MHPK	A	725.4	725.4			
27	161-180	C	MHPK	C	259.35	259.35			
27	161-180	C	MHPK	E	1530	1530			
27	161-180	C	MHPK	G	1125	1125			
27	161-180	C	MHPK	L	500.5	500.5			
27	176-200	C	MHPK	C	0	0			
27	181-200	C	MHPK	A	709.8	709.8			
27	181-200	C	MHPK	C	259.35	259.35			
27	181-200	C	MHPK	E	1500	1500			
27	181-200	C	MHPK	G	1102.5	1102.5			
27	181-200	C	MHPK	L	500.5	500.5			
27	201-250	C	MHPK	A	694.2	694.2			
27	201-250	C	MHPK	C	259.35	259.35			
27	201-250	C	MHPK	E	1470	1470			
27	201-250	C	MHPK	G	1080	1080			
27	201-250	C	MHPK	L	500.5	500.5			
27	21-30	C	MHPK	A	858	858			
27	21-30	C	MHPK	C	299.25	299.25			
27	21-30	C	MHPK	E	1770	1770			
27	21-30	C	MHPK	G	1316.25	1316.25			
27	21-30	C	MHPK	L	605	605			
27	251-300	C	MHPK	A	694.2	694.2			
27	251-300	C	MHPK	C	259.35	259.35			
27	251-300	C	MHPK	E	1455	1455			
27	251-300	C	MHPK	G	1068.75	1068.75			
27	251-300	C	MHPK	L	500.5	500.5			
27	301-350	C	MHPK	A	694.2	694.2			
27	301-350	C	MHPK	C	259.35	259.35			
27	301-350	C	MHPK	E	1455	1455			
27	301-350	C	MHPK	G	1068.75	1068.75			
27	301-350	C	MHPK	L	500.5	500.5			
27	31-40	C	MHPK	A	858	858			
27	31-40	C	MHPK	C	290.7	290.7			
27	31-40	C	MHPK	E	1770	1770			
27	31-40	C	MHPK	G	1316.25	1316.25			
27	31-40	C	MHPK	L	588.5	588.5			
27	41-50	C	MHPK	A	842.4	842.4			
27	41-50	C	MHPK	C	285	285			
27	41-50	C	MHPK	E	1770	1770			
27	41-50	C	MHPK	G	1316.25	1316.25			
27	41-50	C	MHPK	L	577.5	577.5			
27	41-60	C	MHPK	E	0	0			
27	51-60	C	MHPK	A	826.8	826.8			
27	51-60	C	MHPK	C	285	285			
27	51-60	C	MHPK	E	1740	1740			

27	51-60	C	MHPK	G	1282.5	1282.5			
27	51-60	C	MHPK	L	566.5	566.5			
27	61-80	C	MHPK	A	803.4	803.4			
27	61-80	C	MHPK	C	270.75	270.75			
27	61-80	C	MHPK	E	1695	1695			
27	61-80	C	MHPK	G	1260	1260			
27	61-80	C	MHPK	L	550	550			
27	81-100	C	MHPK	A	780	780			
27	81-100	C	MHPK	C	265.05	265.05			
27	81-100	C	MHPK	E	1650	1650			
27	81-100	C	MHPK	G	1215	1215			
27	81-100	C	MHPK	L	533.5	533.5			
27	20-Nov	C	RVPK	A	858	858			
27	20-Nov	C	RVPK	C	307.8	307.8			
27	20-Nov	C	RVPK	E	1770	1770			
27	20-Nov	C	RVPK	G	1316.25	1316.25			
27	20-Nov	C	RVPK	L	605	605			
27	10 OR LESS	C	RVPK	A	858	858			
27	10 OR LESS	C	RVPK	C	319.2	319.2			
27	10 OR LESS	C	RVPK	E	1770	1770			
27	10 OR LESS	C	RVPK	G	1316.25	1316.25			
27	10 OR LESS	C	RVPK	L	605	605			
27	101-120	C	RVPK	A	756.6	756.6			
27	101-120	C	RVPK	C	259.35	259.35			
27	101-120	C	RVPK	E	1620	1620			
27	101-120	C	RVPK	G	1181.25	1181.25			
27	101-120	C	RVPK	L	522.5	522.5			
27	121-140	C	RVPK	A	748.8	748.8			
27	121-140	C	RVPK	C	259.35	259.35			
27	121-140	C	RVPK	E	1590	1590			
27	121-140	C	RVPK	G	1158.75	1158.75			
27	121-140	C	RVPK	L	511.5	511.5			
27	141-160	C	RVPK	A	741	741			
27	141-160	C	RVPK	C	259.35	259.35			
27	141-160	C	RVPK	E	1560	1560			
27	141-160	C	RVPK	G	1147.5	1147.5			
27	141-160	C	RVPK	L	500.5	500.5			
27	161-180	C	RVPK	A	725.4	725.4			
27	161-180	C	RVPK	C	259.35	259.35			
27	161-180	C	RVPK	E	1530	1530			
27	161-180	C	RVPK	G	1125	1125			
27	161-180	C	RVPK	L	500.5	500.5			

27	176-200	C	RVPK	C	0	0			
27	181-200	C	RVPK	A	709.8	709.8			
27	181-200	C	RVPK	C	259.35	259.35			
27	181-200	C	RVPK	E	1500	1500			
27	181-200	C	RVPK	G	1102.5	1102.5			
27	181-200	C	RVPK	L	500.5	500.5			
27	201-250	C	RVPK	A	694.2	694.2			
27	201-250	C	RVPK	C	259.35	259.35			
27	201-250	C	RVPK	E	1470	1470			
27	201-250	C	RVPK	G	1080	1080			
27	201-250	C	RVPK	L	500.5	500.5			
27	21-30	C	RVPK	A	858	858			
27	21-30	C	RVPK	C	299.25	299.25			
27	21-30	C	RVPK	E	1770	1770			
27	21-30	C	RVPK	G	1316.25	1316.25			
27	21-30	C	RVPK	L	605	605			
27	251-300	C	RVPK	A	694.2	694.2			
27	251-300	C	RVPK	C	259.35	259.35			
27	251-300	C	RVPK	E	1455	1455			
27	251-300	C	RVPK	G	1068.75	1068.75			
27	251-300	C	RVPK	L	500.5	500.5			
27	301-350	C	RVPK	A	694.2	694.2			
27	301-350	C	RVPK	C	259.35	259.35			
27	301-350	C	RVPK	E	1455	1455			
27	301-350	C	RVPK	G	1068.75	1068.75			
27	301-350	C	RVPK	L	500.5	500.5			
27	31-40	C	RVPK	A	858	858			
27	31-40	C	RVPK	C	290.7	290.7			
27	31-40	C	RVPK	E	1770	1770			
27	31-40	C	RVPK	G	1316.25	1316.25			
27	31-40	C	RVPK	L	588.5	588.5			
27	41-50	C	RVPK	A	842.4	842.4			
27	41-50	C	RVPK	C	285	285			
27	41-50	C	RVPK	E	1770	1770			
27	41-50	C	RVPK	G	1316.25	1316.25			
27	41-50	C	RVPK	L	577.5	577.5			
27	41-60	C	RVPK	E	0	0			
27	51-60	C	RVPK	A	826.8	826.8			
27	51-60	C	RVPK	C	285	285			
27	51-60	C	RVPK	E	1740	1740			
27	51-60	C	RVPK	G	1282.5	1282.5			
27	51-60	C	RVPK	L	566.5	566.5			
27	61-80	C	RVPK	A	803.4	803.4			
27	61-80	C	RVPK	C	270.75	270.75			
27	61-80	C	RVPK	E	1695	1695			
27	61-80	C	RVPK	G	1260	1260			

27	61-80	C	RVPK	L	550	550			
27	81-100	C	RVPK	A	780	780			
27	81-100	C	RVPK	C	265.05	265.05			
27	81-100	C	RVPK	E	1650	1650			
27	81-100	C	RVPK	G	1215	1215			
27	81-100	C	RVPK	L	533.5	533.5			
33	20-Nov	C	MHPK	A	737	737			
33	20-Nov	C	MHPK	C	259.2	259.2			
33	20-Nov	C	MHPK	E	1681.5	1681.5			
33	20-Nov	C	MHPK	G	1199.25	1199.25			
33	20-Nov	C	MHPK	L	489.5	489.5			
33	10 OR LESS	C	MHPK	A	737	737			
33	10 OR LESS	C	MHPK	C	268.8	268.8			
33	10 OR LESS	C	MHPK	E	1681.5	1681.5			
33	10 OR LESS	C	MHPK	G	1199.25	1199.25			
33	10 OR LESS	C	MHPK	L	489.5	489.5			
33	101-120	C	MHPK	A	649.9	649.9			
33	101-120	C	MHPK	C	218.4	218.4			
33	101-120	C	MHPK	E	1539	1539			
33	101-120	C	MHPK	G	1076.25	1076.25			
33	101-120	C	MHPK	L	422.75	422.75			
33	121-140	C	MHPK	A	643.2	643.2			
33	121-140	C	MHPK	C	218.4	218.4			
33	121-140	C	MHPK	E	1510.5	1510.5			
33	121-140	C	MHPK	G	1055.75	1055.75			
33	121-140	C	MHPK	L	413.85	413.85			
33	141-160	C	MHPK	A	636.5	636.5			
33	141-160	C	MHPK	C	218.4	218.4			
33	141-160	C	MHPK	E	1482	1482			
33	141-160	C	MHPK	G	1045.5	1045.5			
33	141-160	C	MHPK	L	404.95	404.95			
33	161-180	C	MHPK	A	623.1	623.1			
33	161-180	C	MHPK	C	218.4	218.4			
33	161-180	C	MHPK	E	1453.5	1453.5			
33	161-180	C	MHPK	G	1025	1025			
33	161-180	C	MHPK	L	404.95	404.95			
33	181-200	C	MHPK	A	609.7	609.7			
33	181-200	C	MHPK	C	218.4	218.4			
33	181-200	C	MHPK	E	1425	1425			
33	181-200	C	MHPK	G	1004.5	1004.5			
33	181-200	C	MHPK	L	404.95	404.95			
33	201-250	C	MHPK	A	596.3	596.3			

33	201-250	C	MHPK	C	218.4	218.4			
33	201-250	C	MHPK	E	1396.5	1396.5			
33	201-250	C	MHPK	G	984	984			
33	201-250	C	MHPK	L	404.95	404.95			
33	21-30	C	MHPK	A	737	737			
33	21-30	C	MHPK	C	252	252			
33	21-30	C	MHPK	E	1681.5	1681.5			
33	21-30	C	MHPK	G	1199.25	1199.25			
33	21-30	C	MHPK	L	489.5	489.5			
33	251-300	C	MHPK	A	596.3	596.3			
33	251-300	C	MHPK	C	218.4	218.4			
33	251-300	C	MHPK	E	1382.25	1382.25			
33	251-300	C	MHPK	G	973.75	973.75			
33	251-300	C	MHPK	L	404.95	404.95			
33	301-350	C	MHPK	A	596.3	596.3			
33	301-350	C	MHPK	C	218.4	218.4			
33	301-350	C	MHPK	E	1382.25	1382.25			
33	301-350	C	MHPK	G	973.75	973.75			
33	301-350	C	MHPK	L	404.95	404.95			
33	31-40	C	MHPK	A	737	737			
33	31-40	C	MHPK	C	244.8	244.8			
33	31-40	C	MHPK	E	1681.5	1681.5			
33	31-40	C	MHPK	G	1199.25	1199.25			
33	31-40	C	MHPK	L	476.15	476.15			
33	41-50	C	MHPK	A	723.6	723.6			
33	41-50	C	MHPK	C	240	240			
33	41-50	C	MHPK	E	1681.5	1681.5			
33	41-50	C	MHPK	G	1199.25	1199.25			
33	41-50	C	MHPK	L	467.25	467.25			
33	51-60	C	MHPK	A	710.2	710.2			
33	51-60	C	MHPK	C	240	240			
33	51-60	C	MHPK	E	1653	1653			
33	51-60	C	MHPK	G	1168.5	1168.5			
33	51-60	C	MHPK	L	458.35	458.35			
33	61-80	C	MHPK	A	690.1	690.1			
33	61-80	C	MHPK	C	228	228			
33	61-80	C	MHPK	E	1610.25	1610.25			
33	61-80	C	MHPK	G	1148	1148			
33	61-80	C	MHPK	L	445	445			
33	81-100	C	MHPK	A	670	670			
33	81-100	C	MHPK	C	223.2	223.2			
33	81-100	C	MHPK	E	1567.5	1567.5			
33	81-100	C	MHPK	G	1107	1107			
33	81-100	C	MHPK	L	431.65	431.65			
33	20-Nov	C	RVPK	A	737	737			
33	20-Nov	C	RVPK	C	259.2	259.2			

33	20-Nov	C	RVPK	E	1681.5	1681.5			
33	20-Nov	C	RVPK	G	1199.25	1199.25			
33	20-Nov	C	RVPK	L	489.5	489.5			
33	10 OR LESS	C	RVPK	A	737	737			
33	10 OR LESS	C	RVPK	C	268.8	268.8			
33	10 OR LESS	C	RVPK	E	1681.5	1681.5			
33	10 OR LESS	C	RVPK	G	1199.25	1199.25			
33	10 OR LESS	C	RVPK	L	489.5	489.5			
33	101-120	C	RVPK	A	649.9	649.9			
33	101-120	C	RVPK	C	218.4	218.4			
33	101-120	C	RVPK	E	1539	1539			
33	101-120	C	RVPK	G	1076.25	1076.25			
33	101-120	C	RVPK	L	422.75	422.75			
33	121-140	C	RVPK	A	643.2	643.2			
33	121-140	C	RVPK	C	218.4	218.4			
33	121-140	C	RVPK	E	1510.5	1510.5			
33	121-140	C	RVPK	G	1055.75	1055.75			
33	121-140	C	RVPK	L	413.85	413.85			
33	141-160	C	RVPK	A	636.5	636.5			
33	141-160	C	RVPK	C	218.4	218.4			
33	141-160	C	RVPK	E	1482	1482			
33	141-160	C	RVPK	G	1045.5	1045.5			
33	141-160	C	RVPK	L	404.95	404.95			
33	161-180	C	RVPK	A	623.1	623.1			
33	161-180	C	RVPK	C	218.4	218.4			
33	161-180	C	RVPK	E	1453.5	1453.5			
33	161-180	C	RVPK	G	1025	1025			
33	161-180	C	RVPK	L	404.95	404.95			
33	181-200	C	RVPK	A	609.7	609.7			
33	181-200	C	RVPK	C	218.4	218.4			
33	181-200	C	RVPK	E	1425	1425			
33	181-200	C	RVPK	G	1004.5	1004.5			
33	181-200	C	RVPK	L	404.95	404.95			
33	201-250	C	RVPK	A	596.3	596.3			
33	201-250	C	RVPK	C	218.4	218.4			
33	201-250	C	RVPK	E	1396.5	1396.5			
33	201-250	C	RVPK	G	984	984			
33	201-250	C	RVPK	L	404.95	404.95			
33	21-30	C	RVPK	A	737	737			
33	21-30	C	RVPK	C	252	252			
33	21-30	C	RVPK	E	1681.5	1681.5			
33	21-30	C	RVPK	G	1199.25	1199.25			

33	21-30	C	RVPK	L	489.5	489.5			
33	251-300	C	RVPK	A	596.3	596.3			
33	251-300	C	RVPK	C	218.4	218.4			
33	251-300	C	RVPK	E	1382.25	1382.25			
33	251-300	C	RVPK	G	973.75	973.75			
33	251-300	C	RVPK	L	404.95	404.95			
33	301-350	C	RVPK	A	596.3	596.3			
33	301-350	C	RVPK	C	218.4	218.4			
33	301-350	C	RVPK	E	1382.25	1382.25			
33	301-350	C	RVPK	G	973.75	973.75			
33	301-350	C	RVPK	L	404.95	404.95			
33	31-40	C	RVPK	A	737	737			
33	31-40	C	RVPK	C	244.8	244.8			
33	31-40	C	RVPK	E	1681.5	1681.5			
33	31-40	C	RVPK	G	1199.25	1199.25			
33	31-40	C	RVPK	L	476.15	476.15			
33	41-50	C	RVPK	A	723.6	723.6			
33	41-50	C	RVPK	C	240	240			
33	41-50	C	RVPK	E	1681.5	1681.5			
33	41-50	C	RVPK	G	1199.25	1199.25			
33	41-50	C	RVPK	L	467.25	467.25			
33	51-60	C	RVPK	A	710.2	710.2			
33	51-60	C	RVPK	C	240	240			
33	51-60	C	RVPK	E	1653	1653			
33	51-60	C	RVPK	G	1168.5	1168.5			
33	51-60	C	RVPK	L	458.35	458.35			
33	61-80	C	RVPK	A	690.1	690.1			
33	61-80	C	RVPK	C	228	228			
33	61-80	C	RVPK	E	1610.25	1610.25			
33	61-80	C	RVPK	G	1148	1148			
33	61-80	C	RVPK	L	445	445			
33	81-100	C	RVPK	A	670	670			
33	81-100	C	RVPK	C	223.2	223.2			
33	81-100	C	RVPK	E	1567.5	1567.5			
33	81-100	C	RVPK	G	1107	1107			
33	81-100	C	RVPK	L	431.65	431.65			
34	20-Nov	C	MHPK	A	1265	1265			
34	20-Nov	C	MHPK	C	615.6	615.6			
34	20-Nov	C	MHPK	E	2537	2537			
34	20-Nov	C	MHPK	G	1901.25	1901.25			
34	20-Nov	C	MHPK	L	973.5	973.5			
34	10 OR LESS	C	MHPK	A	1265	1265			
34	10 OR LESS	C	MHPK	C	638.4	638.4			
34	10 OR LESS	C	MHPK	E	2537	2537			

34	10 OR LESS	C	MHPK	G	1901.25	1901.25			
34	10 OR LESS	C	MHPK	L	973.5	973.5			
34	101-120	C	MHPK	A	1115.5	1115.5			
34	101-120	C	MHPK	C	518.7	518.7			
34	101-120	C	MHPK	E	2322	2322			
34	101-120	C	MHPK	G	1706.25	1706.25			
34	101-120	C	MHPK	L	840.75	840.75			
34	121-140	C	MHPK	A	1104	1104			
34	121-140	C	MHPK	C	518.7	518.7			
34	121-140	C	MHPK	E	2279	2279			
34	121-140	C	MHPK	G	1673.75	1673.75			
34	121-140	C	MHPK	L	823.05	823.05			
34	141-160	C	MHPK	A	1092.5	1092.5			
34	141-160	C	MHPK	C	518.7	518.7			
34	141-160	C	MHPK	E	2236	2236			
34	141-160	C	MHPK	G	1657.5	1657.5			
34	141-160	C	MHPK	L	805.35	805.35			
34	161-180	C	MHPK	A	1069.5	1069.5			
34	161-180	C	MHPK	C	518.7	518.7			
34	161-180	C	MHPK	E	2193	2193			
34	161-180	C	MHPK	G	1625	1625			
34	161-180	C	MHPK	L	805.35	805.35			
34	181-200	C	MHPK	A	1046.5	1046.5			
34	181-200	C	MHPK	C	518.7	518.7			
34	181-200	C	MHPK	E	2150	2150			
34	181-200	C	MHPK	G	1592.5	1592.5			
34	181-200	C	MHPK	L	805.35	805.35			
34	201-250	C	MHPK	A	1023.5	1023.5			
34	201-250	C	MHPK	C	518.7	518.7			
34	201-250	C	MHPK	E	2107	2107			
34	201-250	C	MHPK	G	1560	1560			
34	201-250	C	MHPK	L	805.35	805.35			
34	21-30	C	MHPK	A	1265	1265			
34	21-30	C	MHPK	C	598.5	598.5			
34	21-30	C	MHPK	E	2537	2537			
34	21-30	C	MHPK	G	1901.25	1901.25			
34	21-30	C	MHPK	L	973.5	973.5			
34	251-300	C	MHPK	A	1023.5	1023.5			
34	251-300	C	MHPK	C	518.7	518.7			
34	251-300	C	MHPK	E	2085.5	2085.5			
34	251-300	C	MHPK	G	1543.75	1543.75			
34	251-300	C	MHPK	L	805.35	805.35			
34	301-350	C	MHPK	A	1023.5	1023.5			
34	301-350	C	MHPK	C	518.7	518.7			

34	301-350	C	MHPK	E	2085.5	2085.5			
34	301-350	C	MHPK	G	1543.75	1543.75			
34	301-350	C	MHPK	L	805.35	805.35			
34	31-40	C	MHPK	A	1265	1265			
34	31-40	C	MHPK	C	581.4	581.4			
34	31-40	C	MHPK	E	1681.5	1681.5			
34	31-40	C	MHPK	G	1901.25	1901.25			
34	31-40	C	MHPK	L	946.95	946.95			
34	41-50	C	MHPK	A	1242	1242			
34	41-50	C	MHPK	C	570	570			
34	41-50	C	MHPK	E	1681.5	1681.5			
34	41-50	C	MHPK	G	1901.25	1901.25			
34	41-50	C	MHPK	L	929.25	929.25			
34	51-60	C	MHPK	A	1219	1219			
34	51-60	C	MHPK	C	570	570			
34	51-60	C	MHPK	E	1653	1653			
34	51-60	C	MHPK	G	1852.5	1852.5			
34	51-60	C	MHPK	L	911.55	911.55			
34	61-80	C	MHPK	A	1184.5	1184.5			
34	61-80	C	MHPK	C	541.5	541.5			
34	61-80	C	MHPK	E	1610.25	1610.25			
34	61-80	C	MHPK	G	1820	1820			
34	61-80	C	MHPK	L	885	885			
34	81-100	C	MHPK	A	1150	1150			
34	81-100	C	MHPK	C	530.1	530.1			
34	81-100	C	MHPK	E	1567.5	1567.5			
34	81-100	C	MHPK	G	1755	1755			
34	81-100	C	MHPK	L	858.45	858.45			
34	20-Nov	C	RVPK	A	1265	1265			
34	20-Nov	C	RVPK	C	615.6	615.6			
34	20-Nov	C	RVPK	E	2537	2537			
34	20-Nov	C	RVPK	G	1901.25	1901.25			
34	20-Nov	C	RVPK	L	973.5	973.5			
34	10 OR LESS	C	RVPK	A	1265	1265			
34	10 OR LESS	C	RVPK	C	638.4	638.4			
34	10 OR LESS	C	RVPK	E	2537	2537			
34	10 OR LESS	C	RVPK	G	1901.25	1901.25			
34	10 OR LESS	C	RVPK	L	973.5	973.5			
34	101-120	C	RVPK	A	1115.5	1115.5			
34	101-120	C	RVPK	C	518.7	518.7			
34	101-120	C	RVPK	E	2322	2322			
34	101-120	C	RVPK	G	1706.25	1706.25			

34	101-120	C	RVPK	L	840.75	840.75			
34	121-140	C	RVPK	A	1104	1104			
34	121-140	C	RVPK	C	518.7	518.7			
34	121-140	C	RVPK	E	2279	2279			
34	121-140	C	RVPK	G	1673.75	1673.75			
34	121-140	C	RVPK	L	823.05	823.05			
34	141-160	C	RVPK	A	1092.5	1092.5			
34	141-160	C	RVPK	C	518.7	518.7			
34	141-160	C	RVPK	E	2236	2236			
34	141-160	C	RVPK	G	1657.5	1657.5			
34	141-160	C	RVPK	L	805.35	805.35			
34	161-180	C	RVPK	A	1069.5	1069.5			
34	161-180	C	RVPK	C	518.7	518.7			
34	161-180	C	RVPK	E	2193	2193			
34	161-180	C	RVPK	G	1625	1625			
34	161-180	C	RVPK	L	805.35	805.35			
34	181-200	C	RVPK	A	1046.5	1046.5			
34	181-200	C	RVPK	C	518.7	518.7			
34	181-200	C	RVPK	E	2150	2150			
34	181-200	C	RVPK	G	1592.5	1592.5			
34	181-200	C	RVPK	L	805.35	805.35			
34	201-250	C	RVPK	A	1023.5	1023.5			
34	201-250	C	RVPK	C	518.7	518.7			
34	201-250	C	RVPK	E	2107	2107			
34	201-250	C	RVPK	G	1560	1560			
34	201-250	C	RVPK	L	805.35	805.35			
34	21-30	C	RVPK	A	1265	1265			
34	21-30	C	RVPK	C	598.5	598.5			
34	21-30	C	RVPK	E	2537	2537			
34	21-30	C	RVPK	G	1901.25	1901.25			
34	21-30	C	RVPK	L	973.5	973.5			
34	251-300	C	RVPK	A	1023.5	1023.5			
34	251-300	C	RVPK	C	518.7	518.7			
34	251-300	C	RVPK	E	2085.5	2085.5			
34	251-300	C	RVPK	G	1543.75	1543.75			
34	251-300	C	RVPK	L	805.35	805.35			
34	301-350	C	RVPK	A	1023.5	1023.5			
34	301-350	C	RVPK	C	518.7	518.7			
34	301-350	C	RVPK	E	2085.5	2085.5			
34	301-350	C	RVPK	G	1543.75	1543.75			
34	301-350	C	RVPK	L	805.35	805.35			
34	31-40	C	RVPK	A	1265	1265			
34	31-40	C	RVPK	C	581.4	581.4			
34	31-40	C	RVPK	E	1681.5	1681.5			
34	31-40	C	RVPK	G	1901.25	1901.25			
34	31-40	C	RVPK	L	946.95	946.95			

34	41-50	C	RVPK	A	1242	1242			
34	41-50	C	RVPK	C	570	570			
34	41-50	C	RVPK	E	1681.5	1681.5			
34	41-50	C	RVPK	G	1901.25	1901.25			
34	41-50	C	RVPK	L	929.25	929.25			
34	51-60	C	RVPK	A	1219	1219			
34	51-60	C	RVPK	C	570	570			
34	51-60	C	RVPK	E	1653	1653			
34	51-60	C	RVPK	G	1852.5	1852.5			
34	51-60	C	RVPK	L	911.55	911.55			
34	61-80	C	RVPK	A	1184.5	1184.5			
34	61-80	C	RVPK	C	541.5	541.5			
34	61-80	C	RVPK	E	1610.25	1610.25			
34	61-80	C	RVPK	G	1820	1820			
34	61-80	C	RVPK	L	885	885			
34	81-100	C	RVPK	A	1150	1150			
34	81-100	C	RVPK	C	530.1	530.1			
34	81-100	C	RVPK	E	1567.5	1567.5			
34	81-100	C	RVPK	G	1755	1755			
34	81-100	C	RVPK	L	858.45	858.45			
35	20-Nov	C	MHPK	A	940.5	940.5			
35	20-Nov	C	MHPK	C	351	351			
35	20-Nov	C	MHPK	E	2212.5	2212.5			
35	20-Nov	C	MHPK	G	1491.75	1491.75			
35	20-Nov	C	MHPK	L	632.5	632.5			
35	10 OR LESS	C	MHPK	A	940.5	940.5			
35	10 OR LESS	C	MHPK	C	364	364			
35	10 OR LESS	C	MHPK	E	2212.5	2212.5			
35	10 OR LESS	C	MHPK	G	1491.75	1491.75			
35	10 OR LESS	C	MHPK	L	632.5	632.5			
35	101-120	C	MHPK	A	829.35	829.35			
35	101-120	C	MHPK	C	295.75	295.75			
35	101-120	C	MHPK	E	2025	2025			
35	101-120	C	MHPK	G	1338.75	1338.75			
35	101-120	C	MHPK	L	546.25	546.25			
35	121-140	C	MHPK	A	820.8	820.8			
35	121-140	C	MHPK	C	295.75	295.75			
35	121-140	C	MHPK	E	1987.5	1987.5			
35	121-140	C	MHPK	G	1313.25	1313.25			
35	121-140	C	MHPK	L	534.75	534.75			
35	141-160	C	MHPK	A	812.25	812.25			
35	141-160	C	MHPK	C	295.75	295.75			

35	141-160	C	MHPK	E	1950	1950			
35	141-160	C	MHPK	G	1300.5	1300.5			
35	141-160	C	MHPK	L	523.25	523.25			
35	161-180	C	MHPK	A	795.15	795.15			
35	161-180	C	MHPK	C	295.75	295.75			
35	161-180	C	MHPK	E	1912.5	1912.5			
35	161-180	C	MHPK	G	1275	1275			
35	161-180	C	MHPK	L	523.25	523.25			
35	181-200	C	MHPK	A	778.05	778.05			
35	181-200	C	MHPK	C	295.75	295.75			
35	181-200	C	MHPK	E	1875	1875			
35	181-200	C	MHPK	G	1249.5	1249.5			
35	181-200	C	MHPK	L	523.25	523.25			
35	201-250	C	MHPK	A	760.95	760.95			
35	201-250	C	MHPK	C	295.75	295.75			
35	201-250	C	MHPK	E	1837.5	1837.5			
35	201-250	C	MHPK	G	1224	1224			
35	201-250	C	MHPK	L	523.25	523.25			
35	21-30	C	MHPK	A	940.5	940.5			
35	21-30	C	MHPK	C	341.25	341.25			
35	21-30	C	MHPK	E	2212.5	2212.5			
35	21-30	C	MHPK	G	1491.75	1491.75			
35	21-30	C	MHPK	L	632.5	632.5			
35	251-300	C	MHPK	A	760.95	760.95			
35	251-300	C	MHPK	C	295.75	295.75			
35	251-300	C	MHPK	E	1818.75	1818.75			
35	251-300	C	MHPK	G	1211.25	1211.25			
35	251-300	C	MHPK	L	523.25	523.25			
35	301-350	C	MHPK	A	760.95	760.95			
35	301-350	C	MHPK	C	295.75	295.75			
35	301-350	C	MHPK	E	1818.75	1818.75			
35	301-350	C	MHPK	G	1211.25	1211.25			
35	301-350	C	MHPK	L	523.25	523.25			
35	31-40	C	MHPK	A	940.5	940.5			
35	31-40	C	MHPK	C	331.5	331.5			
35	31-40	C	MHPK	E	2212.5	2212.5			
35	31-40	C	MHPK	G	1491.75	1491.75			
35	31-40	C	MHPK	L	615.25	615.25			
35	41-50	C	MHPK	A	923.4	923.4			
35	41-50	C	MHPK	C	325	325			
35	41-50	C	MHPK	E	2212.5	2212.5			
35	41-50	C	MHPK	G	1491.75	1491.75			
35	41-50	C	MHPK	L	603.75	603.75			
35	51-60	C	MHPK	A	906.3	906.3			
35	51-60	C	MHPK	C	325	325			
35	51-60	C	MHPK	E	2175	2175			

35	51-60	C	MHPK	G	1453.5	1453.5			
35	51-60	C	MHPK	L	592.25	592.25			
35	61-80	C	MHPK	A	880.65	880.65			
35	61-80	C	MHPK	C	308.75	308.75			
35	61-80	C	MHPK	E	2118.75	2118.75			
35	61-80	C	MHPK	G	1428	1428			
35	61-80	C	MHPK	L	575	575			
35	81-100	C	MHPK	A	855	855			
35	81-100	C	MHPK	C	302.25	302.25			
35	81-100	C	MHPK	E	2062.5	2062.5			
35	81-100	C	MHPK	G	1377	1377			
35	81-100	C	MHPK	L	557.75	557.75			
35	20-Nov	C	RVPK	A	940.5	940.5			
35	20-Nov	C	RVPK	C	351	351			
35	20-Nov	C	RVPK	E	2212.5	2212.5			
35	20-Nov	C	RVPK	G	1491.75	1491.75			
35	20-Nov	C	RVPK	L	632.5	632.5			
35	10 OR LESS	C	RVPK	A	940.5	940.5			
35	10 OR LESS	C	RVPK	C	364	364			
35	10 OR LESS	C	RVPK	E	2212.5	2212.5			
35	10 OR LESS	C	RVPK	G	1491.75	1491.75			
35	10 OR LESS	C	RVPK	L	632.5	632.5			
35	101-120	C	RVPK	A	829.35	829.35			
35	101-120	C	RVPK	C	295.75	295.75			
35	101-120	C	RVPK	E	2025	2025			
35	101-120	C	RVPK	G	1338.75	1338.75			
35	101-120	C	RVPK	L	546.25	546.25			
35	121-140	C	RVPK	A	820.8	820.8			
35	121-140	C	RVPK	C	295.75	295.75			
35	121-140	C	RVPK	E	1987.5	1987.5			
35	121-140	C	RVPK	G	1313.25	1313.25			
35	121-140	C	RVPK	L	534.75	534.75			
35	141-160	C	RVPK	A	812.25	812.25			
35	141-160	C	RVPK	C	295.75	295.75			
35	141-160	C	RVPK	E	1950	1950			
35	141-160	C	RVPK	G	1300.5	1300.5			
35	141-160	C	RVPK	L	523.25	523.25			
35	161-180	C	RVPK	A	795.15	795.15			
35	161-180	C	RVPK	C	295.75	295.75			
35	161-180	C	RVPK	E	1912.5	1912.5			
35	161-180	C	RVPK	G	1275	1275			
35	161-180	C	RVPK	L	523.25	523.25			

35	181-200	C	RVPK	A	778.05	778.05			
35	181-200	C	RVPK	C	295.75	295.75			
35	181-200	C	RVPK	E	1875	1875			
35	181-200	C	RVPK	G	1249.5	1249.5			
35	181-200	C	RVPK	L	523.25	523.25			
35	201-250	C	RVPK	A	760.95	760.95			
35	201-250	C	RVPK	C	295.75	295.75			
35	201-250	C	RVPK	E	1837.5	1837.5			
35	201-250	C	RVPK	G	1224	1224			
35	201-250	C	RVPK	L	523.25	523.25			
35	21-30	C	RVPK	A	940.5	940.5			
35	21-30	C	RVPK	C	341.25	341.25			
35	21-30	C	RVPK	E	2212.5	2212.5			
35	21-30	C	RVPK	G	1491.75	1491.75			
35	21-30	C	RVPK	L	632.5	632.5			
35	251-300	C	RVPK	A	760.95	760.95			
35	251-300	C	RVPK	C	295.75	295.75			
35	251-300	C	RVPK	E	1818.75	1818.75			
35	251-300	C	RVPK	G	1211.25	1211.25			
35	251-300	C	RVPK	L	523.25	523.25			
35	301-350	C	RVPK	A	760.95	760.95			
35	301-350	C	RVPK	C	295.75	295.75			
35	301-350	C	RVPK	E	1818.75	1818.75			
35	301-350	C	RVPK	G	1211.25	1211.25			
35	301-350	C	RVPK	L	523.25	523.25			
35	31-40	C	RVPK	A	940.5	940.5			
35	31-40	C	RVPK	C	331.5	331.5			
35	31-40	C	RVPK	E	2212.5	2212.5			
35	31-40	C	RVPK	G	1491.75	1491.75			
35	31-40	C	RVPK	L	615.25	615.25			
35	41-50	C	RVPK	A	923.4	923.4			
35	41-50	C	RVPK	C	325	325			
35	41-50	C	RVPK	E	2212.5	2212.5			
35	41-50	C	RVPK	G	1491.75	1491.75			
35	41-50	C	RVPK	L	603.75	603.75			
35	51-60	C	RVPK	A	906.3	906.3			
35	51-60	C	RVPK	C	325	325			
35	51-60	C	RVPK	E	2175	2175			
35	51-60	C	RVPK	G	1453.5	1453.5			
35	51-60	C	RVPK	L	592.25	592.25			
35	61-80	C	RVPK	A	880.65	880.65			
35	61-80	C	RVPK	C	308.75	308.75			
35	61-80	C	RVPK	E	2118.75	2118.75			
35	61-80	C	RVPK	G	1428	1428			
35	61-80	C	RVPK	L	575	575			
35	81-100	C	RVPK	A	855	855			

35	81-100	C	RVPK	C	302.25	302.25			
35	81-100	C	RVPK	E	2062.5	2062.5			
35	81-100	C	RVPK	G	1377	1377			
35	81-100	C	RVPK	L	557.75	557.75			
36	20-Nov	C	MHPK	A	1028.5	1028.5			
36	20-Nov	C	MHPK	C	475.2	475.2			
36	20-Nov	C	MHPK	E	1681.5	1681.5			
36	20-Nov	C	MHPK	G	1404	1404			
36	20-Nov	C	MHPK	L	704	704			
36	10 OR LESS	C	MHPK	A	1028.5	1028.5			
36	10 OR LESS	C	MHPK	C	492.8	492.8			
36	10 OR LESS	C	MHPK	E	1681.5	1681.5			
36	10 OR LESS	C	MHPK	G	1404	1404			
36	10 OR LESS	C	MHPK	L	704	704			
36	101-120	C	MHPK	A	906.95	906.95			
36	101-120	C	MHPK	C	400.4	400.4			
36	101-120	C	MHPK	E	1539	1539			
36	101-120	C	MHPK	G	1260	1260			
36	101-120	C	MHPK	L	608	608			
36	121-140	C	MHPK	A	897.6	897.6			
36	121-140	C	MHPK	C	400.4	400.4			
36	121-140	C	MHPK	E	1510.5	1510.5			
36	121-140	C	MHPK	G	1236	1236			
36	121-140	C	MHPK	L	595.2	595.2			
36	141-160	C	MHPK	A	888.25	888.25			
36	141-160	C	MHPK	C	400.4	400.4			
36	141-160	C	MHPK	E	1482	1482			
36	141-160	C	MHPK	G	1224	1224			
36	141-160	C	MHPK	L	582.4	582.4			
36	161-180	C	MHPK	A	869.55	869.55			
36	161-180	C	MHPK	C	400.4	400.4			
36	161-180	C	MHPK	E	1453.5	1453.5			
36	161-180	C	MHPK	G	1200	1200			
36	161-180	C	MHPK	L	582.4	582.4			
36	181-200	C	MHPK	A	850.85	850.85			
36	181-200	C	MHPK	C	400.4	400.4			
36	181-200	C	MHPK	E	1425	1425			
36	181-200	C	MHPK	G	1176	1176			
36	181-200	C	MHPK	L	582.4	582.4			
36	201-250	C	MHPK	A	832.15	832.15			
36	201-250	C	MHPK	C	400.4	400.4			
36	201-250	C	MHPK	E	1396.5	1396.5			

36	201-250	C	MHPK	G	1152	1152			
36	201-250	C	MHPK	L	582.4	582.4			
36	21-30	C	MHPK	A	1028.5	1028.5			
36	21-30	C	MHPK	C	462	462			
36	21-30	C	MHPK	E	1681.5	1681.5			
36	21-30	C	MHPK	G	1404	1404			
36	21-30	C	MHPK	L	704	704			
36	251-300	C	MHPK	A	832.15	832.15			
36	251-300	C	MHPK	C	400.4	400.4			
36	251-300	C	MHPK	E	1382.25	1382.25			
36	251-300	C	MHPK	G	1140	1140			
36	251-300	C	MHPK	L	582.4	582.4			
36	301-350	C	MHPK	A	832.15	832.15			
36	301-350	C	MHPK	C	400.4	400.4			
36	301-350	C	MHPK	E	1382.25	1382.25			
36	301-350	C	MHPK	G	1140	1140			
36	301-350	C	MHPK	L	582.4	582.4			
36	31-40	C	MHPK	A	1028.5	1028.5			
36	31-40	C	MHPK	C	448.8	448.8			
36	31-40	C	MHPK	E	1681.5	1681.5			
36	31-40	C	MHPK	G	1404	1404			
36	31-40	C	MHPK	L	684.8	684.8			
36	41-50	C	MHPK	A	1009.8	1009.8			
36	41-50	C	MHPK	C	440	440			
36	41-50	C	MHPK	E	1681.5	1681.5			
36	41-50	C	MHPK	G	1404	1404			
36	41-50	C	MHPK	L	672	672			
36	51-60	C	MHPK	A	991.1	991.1			
36	51-60	C	MHPK	C	440	440			
36	51-60	C	MHPK	E	1653	1653			
36	51-60	C	MHPK	G	1368	1368			
36	51-60	C	MHPK	L	659.2	659.2			
36	61-80	C	MHPK	A	963.05	963.05			
36	61-80	C	MHPK	C	418	418			
36	61-80	C	MHPK	E	1610.25	1610.25			
36	61-80	C	MHPK	G	1344	1344			
36	61-80	C	MHPK	L	640	640			
36	81-100	C	MHPK	A	935	935			
36	81-100	C	MHPK	C	409.2	409.2			
36	81-100	C	MHPK	E	1567.5	1567.5			
36	81-100	C	MHPK	G	1296	1296			
36	81-100	C	MHPK	L	620.8	620.8			
36	20-Nov	C	RVPK	A	1028.5	1028.5			
36	20-Nov	C	RVPK	C	475.2	475.2			
36	20-Nov	C	RVPK	E	1681.5	1681.5			
36	20-Nov	C	RVPK	G	1404	1404			

36	20-Nov	C	RVPK	L	704	704			
36	10 OR LESS	C	RVPK	A	1028.5	1028.5			
36	10 OR LESS	C	RVPK	C	492.8	492.8			
36	10 OR LESS	C	RVPK	E	1681.5	1681.5			
36	10 OR LESS	C	RVPK	G	1404	1404			
36	10 OR LESS	C	RVPK	L	704	704			
36	101-120	C	RVPK	A	906.95	906.95			
36	101-120	C	RVPK	C	400.4	400.4			
36	101-120	C	RVPK	E	1539	1539			
36	101-120	C	RVPK	G	1260	1260			
36	101-120	C	RVPK	L	608	608			
36	121-140	C	RVPK	A	897.6	897.6			
36	121-140	C	RVPK	C	400.4	400.4			
36	121-140	C	RVPK	E	1510.5	1510.5			
36	121-140	C	RVPK	G	1236	1236			
36	121-140	C	RVPK	L	595.2	595.2			
36	141-160	C	RVPK	A	888.25	888.25			
36	141-160	C	RVPK	C	400.4	400.4			
36	141-160	C	RVPK	E	1482	1482			
36	141-160	C	RVPK	G	1224	1224			
36	141-160	C	RVPK	L	582.4	582.4			
36	161-180	C	RVPK	A	869.55	869.55			
36	161-180	C	RVPK	C	400.4	400.4			
36	161-180	C	RVPK	E	1453.5	1453.5			
36	161-180	C	RVPK	G	1200	1200			
36	161-180	C	RVPK	L	582.4	582.4			
36	181-200	C	RVPK	A	850.85	850.85			
36	181-200	C	RVPK	C	400.4	400.4			
36	181-200	C	RVPK	E	1425	1425			
36	181-200	C	RVPK	G	1176	1176			
36	181-200	C	RVPK	L	582.4	582.4			
36	201-250	C	RVPK	A	832.15	832.15			
36	201-250	C	RVPK	C	400.4	400.4			
36	201-250	C	RVPK	E	1396.5	1396.5			
36	201-250	C	RVPK	G	1152	1152			
36	201-250	C	RVPK	L	582.4	582.4			
36	21-30	C	RVPK	A	1028.5	1028.5			
36	21-30	C	RVPK	C	462	462			
36	21-30	C	RVPK	E	1681.5	1681.5			
36	21-30	C	RVPK	G	1404	1404			
36	21-30	C	RVPK	L	704	704			
36	251-300	C	RVPK	A	832.15	832.15			

36	251-300	C	RVPK	C	400.4	400.4			
36	251-300	C	RVPK	E	1382.25	1382.25			
36	251-300	C	RVPK	G	1140	1140			
36	251-300	C	RVPK	L	582.4	582.4			
36	301-350	C	RVPK	A	832.15	832.15			
36	301-350	C	RVPK	C	400.4	400.4			
36	301-350	C	RVPK	E	1382.25	1382.25			
36	301-350	C	RVPK	G	1140	1140			
36	301-350	C	RVPK	L	582.4	582.4			
36	31-40	C	RVPK	A	1028.5	1028.5			
36	31-40	C	RVPK	C	448.8	448.8			
36	31-40	C	RVPK	E	1681.5	1681.5			
36	31-40	C	RVPK	G	1404	1404			
36	31-40	C	RVPK	L	684.8	684.8			
36	41-50	C	RVPK	A	1009.8	1009.8			
36	41-50	C	RVPK	C	440	440			
36	41-50	C	RVPK	E	1681.5	1681.5			
36	41-50	C	RVPK	G	1404	1404			
36	41-50	C	RVPK	L	672	672			
36	51-60	C	RVPK	A	991.1	991.1			
36	51-60	C	RVPK	C	440	440			
36	51-60	C	RVPK	E	1653	1653			
36	51-60	C	RVPK	G	1368	1368			
36	51-60	C	RVPK	L	659.2	659.2			
36	61-80	C	RVPK	A	963.05	963.05			
36	61-80	C	RVPK	C	418	418			
36	61-80	C	RVPK	E	1610.25	1610.25			
36	61-80	C	RVPK	G	1344	1344			
36	61-80	C	RVPK	L	640	640			
36	81-100	C	RVPK	A	935	935			
36	81-100	C	RVPK	C	409.2	409.2			
36	81-100	C	RVPK	E	1567.5	1567.5			
36	81-100	C	RVPK	G	1296	1296			
36	81-100	C	RVPK	L	620.8	620.8			
37	20-Nov	C	MHPK	A	847	847			
37	20-Nov	C	MHPK	C	378	378			
37	20-Nov	C	MHPK	E	1652	1652			
37	20-Nov	C	MHPK	G	1257.75	1257.75			
37	20-Nov	C	MHPK	L	632.5	632.5			
37	10 OR LESS	C	MHPK	A	847	847			
37	10 OR LESS	C	MHPK	C	392	392			
37	10 OR LESS	C	MHPK	E	1652	1652			
37	10 OR LESS	C	MHPK	G	1257.75	1257.75			

37	10 OR LESS	C	MHPK	L	632.5	632.5			
37	101-120	C	MHPK	A	746.9	746.9			
37	101-120	C	MHPK	C	318.5	318.5			
37	101-120	C	MHPK	E	1512	1512			
37	101-120	C	MHPK	G	1128.75	1128.75			
37	101-120	C	MHPK	L	546.25	546.25			
37	121-140	C	MHPK	A	739.2	739.2			
37	121-140	C	MHPK	C	318.5	318.5			
37	121-140	C	MHPK	E	1484	1484			
37	121-140	C	MHPK	G	1107.25	1107.25			
37	121-140	C	MHPK	L	534.75	534.75			
37	141-160	C	MHPK	A	731.5	731.5			
37	141-160	C	MHPK	C	318.5	318.5			
37	141-160	C	MHPK	E	1456	1456			
37	141-160	C	MHPK	G	1096.5	1096.5			
37	141-160	C	MHPK	L	523.25	523.25			
37	161-180	C	MHPK	A	716.1	716.1			
37	161-180	C	MHPK	C	318.5	318.5			
37	161-180	C	MHPK	E	1428	1428			
37	161-180	C	MHPK	G	1075	1075			
37	161-180	C	MHPK	L	523.25	523.25			
37	181-200	C	MHPK	A	700.7	700.7			
37	181-200	C	MHPK	C	318.5	318.5			
37	181-200	C	MHPK	E	1400	1400			
37	181-200	C	MHPK	G	1053.5	1053.5			
37	181-200	C	MHPK	L	523.25	523.25			
37	201-250	C	MHPK	A	685.3	685.3			
37	201-250	C	MHPK	C	318.5	318.5			
37	201-250	C	MHPK	E	1372	1372			
37	201-250	C	MHPK	G	1032	1032			
37	201-250	C	MHPK	L	523.25	523.25			
37	21-30	C	MHPK	A	847	847			
37	21-30	C	MHPK	C	367.5	367.5			
37	21-30	C	MHPK	E	1652	1652			
37	21-30	C	MHPK	G	1257.75	1257.75			
37	21-30	C	MHPK	L	632.5	632.5			
37	251-300	C	MHPK	A	685.3	685.3			
37	251-300	C	MHPK	C	318.5	318.5			
37	251-300	C	MHPK	E	1358	1358			
37	251-300	C	MHPK	G	1021.25	1021.25			
37	251-300	C	MHPK	L	523.25	523.25			
37	301-350	C	MHPK	A	685.3	685.3			
37	301-350	C	MHPK	C	318.5	318.5			
37	301-350	C	MHPK	E	1358	1358			
37	301-350	C	MHPK	G	1021.25	1021.25			

37	301-350	C	MHPK	L	523.25	523.25			
37	31-40	C	MHPK	A	847	847			
37	31-40	C	MHPK	C	357	357			
37	31-40	C	MHPK	E	1652	1652			
37	31-40	C	MHPK	G	1257.75	1257.75			
37	31-40	C	MHPK	L	615.25	615.25			
37	41-50	C	MHPK	A	831.6	831.6			
37	41-50	C	MHPK	C	350	350			
37	41-50	C	MHPK	E	1652	1652			
37	41-50	C	MHPK	G	1257.75	1257.75			
37	41-50	C	MHPK	L	603.75	603.75			
37	51-60	C	MHPK	A	816.2	816.2			
37	51-60	C	MHPK	C	350	350			
37	51-60	C	MHPK	E	1624	1624			
37	51-60	C	MHPK	G	1225.5	1225.5			
37	51-60	C	MHPK	L	592.25	592.25			
37	61-80	C	MHPK	A	793.1	793.1			
37	61-80	C	MHPK	C	332.5	332.5			
37	61-80	C	MHPK	E	1582	1582			
37	61-80	C	MHPK	G	1204	1204			
37	61-80	C	MHPK	L	575	575			
37	81-100	C	MHPK	A	770	770			
37	81-100	C	MHPK	C	325.5	325.5			
37	81-100	C	MHPK	E	1540	1540			
37	81-100	C	MHPK	G	1161	1161			
37	81-100	C	MHPK	L	557.75	557.75			
37	20-Nov	C	RVPK	A	847	847			
37	20-Nov	C	RVPK	C	378	378			
37	20-Nov	C	RVPK	E	1652	1652			
37	20-Nov	C	RVPK	G	1257.75	1257.75			
37	20-Nov	C	RVPK	L	632.5	632.5			
37	10 OR LESS	C	RVPK	A	847	847			
37	10 OR LESS	C	RVPK	C	392	392			
37	10 OR LESS	C	RVPK	E	1652	1652			
37	10 OR LESS	C	RVPK	G	1257.75	1257.75			
37	10 OR LESS	C	RVPK	L	632.5	632.5			
37	101-120	C	RVPK	A	746.9	746.9			
37	101-120	C	RVPK	C	318.5	318.5			
37	101-120	C	RVPK	E	1512	1512			
37	101-120	C	RVPK	G	1128.75	1128.75			
37	101-120	C	RVPK	L	546.25	546.25			
37	121-140	C	RVPK	A	739.2	739.2			

37	121-140	C	RVPK	C	318.5	318.5			
37	121-140	C	RVPK	E	1484	1484			
37	121-140	C	RVPK	G	1107.25	1107.25			
37	121-140	C	RVPK	L	534.75	534.75			
37	141-160	C	RVPK	A	731.5	731.5			
37	141-160	C	RVPK	C	318.5	318.5			
37	141-160	C	RVPK	E	1456	1456			
37	141-160	C	RVPK	G	1096.5	1096.5			
37	141-160	C	RVPK	L	523.25	523.25			
37	161-180	C	RVPK	A	716.1	716.1			
37	161-180	C	RVPK	C	318.5	318.5			
37	161-180	C	RVPK	E	1428	1428			
37	161-180	C	RVPK	G	1075	1075			
37	161-180	C	RVPK	L	523.25	523.25			
37	181-200	C	RVPK	A	700.7	700.7			
37	181-200	C	RVPK	C	318.5	318.5			
37	181-200	C	RVPK	E	1400	1400			
37	181-200	C	RVPK	G	1053.5	1053.5			
37	181-200	C	RVPK	L	523.25	523.25			
37	201-250	C	RVPK	A	685.3	685.3			
37	201-250	C	RVPK	C	318.5	318.5			
37	201-250	C	RVPK	E	1372	1372			
37	201-250	C	RVPK	G	1032	1032			
37	201-250	C	RVPK	L	523.25	523.25			
37	21-30	C	RVPK	A	847	847			
37	21-30	C	RVPK	C	367.5	367.5			
37	21-30	C	RVPK	E	1652	1652			
37	21-30	C	RVPK	G	1257.75	1257.75			
37	21-30	C	RVPK	L	632.5	632.5			
37	251-300	C	RVPK	A	685.3	685.3			
37	251-300	C	RVPK	C	318.5	318.5			
37	251-300	C	RVPK	E	1358	1358			
37	251-300	C	RVPK	G	1021.25	1021.25			
37	251-300	C	RVPK	L	523.25	523.25			
37	301-350	C	RVPK	A	685.3	685.3			
37	301-350	C	RVPK	C	318.5	318.5			
37	301-350	C	RVPK	E	1358	1358			
37	301-350	C	RVPK	G	1021.25	1021.25			
37	301-350	C	RVPK	L	523.25	523.25			
37	31-40	C	RVPK	A	847	847			
37	31-40	C	RVPK	C	357	357			
37	31-40	C	RVPK	E	1652	1652			
37	31-40	C	RVPK	G	1257.75	1257.75			
37	31-40	C	RVPK	L	615.25	615.25			
37	41-50	C	RVPK	A	831.6	831.6			
37	41-50	C	RVPK	C	350	350			

37	41-50	C	RVPK	E	1652	1652			
37	41-50	C	RVPK	G	1257.75	1257.75			
37	41-50	C	RVPK	L	603.75	603.75			
37	51-60	C	RVPK	A	816.2	816.2			
37	51-60	C	RVPK	C	350	350			
37	51-60	C	RVPK	E	1624	1624			
37	51-60	C	RVPK	G	1225.5	1225.5			
37	51-60	C	RVPK	L	592.25	592.25			
37	61-80	C	RVPK	A	793.1	793.1			
37	61-80	C	RVPK	C	332.5	332.5			
37	61-80	C	RVPK	E	1582	1582			
37	61-80	C	RVPK	G	1204	1204			
37	61-80	C	RVPK	L	575	575			
37	81-100	C	RVPK	A	770	770			
37	81-100	C	RVPK	C	325.5	325.5			
37	81-100	C	RVPK	E	1540	1540			
37	81-100	C	RVPK	G	1161	1161			
37	81-100	C	RVPK	L	557.75	557.75			
38	20-Nov	C	MHPK	A	451	451			
38	20-Nov	C	MHPK	E	1062	1062			
38	20-Nov	C	MHPK	G	766.35	766.35			
38	20-Nov	C	MHPK	L	297	297			
38	10 OR LESS	C	MHPK	A	451	451			
38	10 OR LESS	C	MHPK	E	1062	1062			
38	10 OR LESS	C	MHPK	G	766.35	766.35			
38	10 OR LESS	C	MHPK	L	297	297			
38	101-120	C	MHPK	A	397.7	397.7			
38	101-120	C	MHPK	E	972	972			
38	101-120	C	MHPK	G	687.75	687.75			
38	101-120	C	MHPK	L	256.5	256.5			
38	121-140	C	MHPK	A	393.6	393.6			
38	121-140	C	MHPK	E	954	954			
38	121-140	C	MHPK	G	674.65	674.65			
38	121-140	C	MHPK	L	251.1	251.1			
38	141-160	C	MHPK	A	389.5	389.5			
38	141-160	C	MHPK	E	936	936			
38	141-160	C	MHPK	G	668.1	668.1			
38	141-160	C	MHPK	L	245.7	245.7			
38	161-180	C	MHPK	A	381.3	381.3			
38	161-180	C	MHPK	E	918	918			
38	161-180	C	MHPK	G	655	655			
38	161-180	C	MHPK	L	245.7	245.7			
38	181-200	C	MHPK	A	373.1	373.1			

38	181-200	C	MHPK	E	900	900			
38	181-200	C	MHPK	G	641.9	641.9			
38	181-200	C	MHPK	L	245.7	245.7			
38	201-250	C	MHPK	A	364.9	364.9			
38	201-250	C	MHPK	E	882	882			
38	201-250	C	MHPK	G	628.8	628.8			
38	201-250	C	MHPK	L	245.7	245.7			
38	21-30	C	MHPK	A	451	451			
38	21-30	C	MHPK	E	1062	1062			
38	21-30	C	MHPK	G	766.35	766.35			
38	21-30	C	MHPK	L	297	297			
38	251-300	C	MHPK	A	364.9	364.9			
38	251-300	C	MHPK	E	873	873			
38	251-300	C	MHPK	G	622.25	622.25			
38	251-300	C	MHPK	L	245.7	245.7			
38	301-350	C	MHPK	A	364.9	364.9			
38	301-350	C	MHPK	E	873	873			
38	301-350	C	MHPK	G	622.25	622.25			
38	301-350	C	MHPK	L	245.7	245.7			
38	31-40	C	MHPK	A	451	451			
38	31-40	C	MHPK	E	1062	1062			
38	31-40	C	MHPK	G	766.35	766.35			
38	31-40	C	MHPK	L	288.9	288.9			
38	41-50	C	MHPK	A	442.8	442.8			
38	41-50	C	MHPK	E	1062	1062			
38	41-50	C	MHPK	G	766.35	766.35			
38	41-50	C	MHPK	L	283.5	283.5			
38	51-60	C	MHPK	A	434.6	434.6			
38	51-60	C	MHPK	E	1044	1044			
38	51-60	C	MHPK	G	746.7	746.7			
38	51-60	C	MHPK	L	278.1	278.1			
38	61-80	C	MHPK	A	422.3	422.3			
38	61-80	C	MHPK	E	1017	1017			
38	61-80	C	MHPK	G	733.6	733.6			
38	61-80	C	MHPK	L	270	270			
38	81-100	C	MHPK	A	410	410			
38	81-100	C	MHPK	E	990	990			
38	81-100	C	MHPK	G	707.4	707.4			
38	81-100	C	MHPK	L	261.9	261.9			
38	20-Nov	C	RVPK	A	451	451			
38	20-Nov	C	RVPK	E	1062	1062			
38	20-Nov	C	RVPK	G	766.35	766.35			
38	20-Nov	C	RVPK	L	297	297			
38	10 OR LESS	C	RVPK	A	451	451			
38	10 OR	C	RVPK	E	1062	1062			

	LESS								
38	10 OR LESS	C	RVPK	G	766.35	766.35			
38	10 OR LESS	C	RVPK	L	297	297			
38	101-120	C	RVPK	A	397.7	397.7			
38	101-120	C	RVPK	E	972	972			
38	101-120	C	RVPK	G	687.75	687.75			
38	101-120	C	RVPK	L	256.5	256.5			
38	121-140	C	RVPK	A	393.6	393.6			
38	121-140	C	RVPK	E	954	954			
38	121-140	C	RVPK	G	674.65	674.65			
38	121-140	C	RVPK	L	251.1	251.1			
38	141-160	C	RVPK	A	389.5	389.5			
38	141-160	C	RVPK	E	936	936			
38	141-160	C	RVPK	G	668.1	668.1			
38	141-160	C	RVPK	L	245.7	245.7			
38	161-180	C	RVPK	A	381.3	381.3			
38	161-180	C	RVPK	E	918	918			
38	161-180	C	RVPK	G	655	655			
38	161-180	C	RVPK	L	245.7	245.7			
38	181-200	C	RVPK	A	373.1	373.1			
38	181-200	C	RVPK	E	900	900			
38	181-200	C	RVPK	G	641.9	641.9			
38	181-200	C	RVPK	L	245.7	245.7			
38	201-250	C	RVPK	A	364.9	364.9			
38	201-250	C	RVPK	E	882	882			
38	201-250	C	RVPK	G	628.8	628.8			
38	201-250	C	RVPK	L	245.7	245.7			
38	21-30	C	RVPK	A	451	451			
38	21-30	C	RVPK	E	1062	1062			
38	21-30	C	RVPK	G	766.35	766.35			
38	21-30	C	RVPK	L	297	297			
38	251-300	C	RVPK	A	364.9	364.9			
38	251-300	C	RVPK	E	873	873			
38	251-300	C	RVPK	G	622.25	622.25			
38	251-300	C	RVPK	L	245.7	245.7			
38	301-350	C	RVPK	A	364.9	364.9			
38	301-350	C	RVPK	E	873	873			
38	301-350	C	RVPK	G	622.25	622.25			
38	301-350	C	RVPK	L	245.7	245.7			
38	31-40	C	RVPK	A	451	451			
38	31-40	C	RVPK	E	1062	1062			
38	31-40	C	RVPK	G	766.35	766.35			
38	31-40	C	RVPK	L	288.9	288.9			
38	41-50	C	RVPK	A	442.8	442.8			

38	41-50	C	RVPK	E	1062	1062			
38	41-50	C	RVPK	G	766.35	766.35			
38	41-50	C	RVPK	L	283.5	283.5			
38	51-60	C	RVPK	A	434.6	434.6			
38	51-60	C	RVPK	E	1044	1044			
38	51-60	C	RVPK	G	746.7	746.7			
38	51-60	C	RVPK	L	278.1	278.1			
38	61-80	C	RVPK	A	422.3	422.3			
38	61-80	C	RVPK	E	1017	1017			
38	61-80	C	RVPK	G	733.6	733.6			
38	61-80	C	RVPK	L	270	270			
38	81-100	C	RVPK	A	410	410			
38	81-100	C	RVPK	E	990	990			
38	81-100	C	RVPK	G	707.4	707.4			
38	81-100	C	RVPK	L	261.9	261.9			
39	20-Nov	C	MHPK	A	1347.5	1347.5			
39	20-Nov	C	MHPK	C	513	513			
39	20-Nov	C	MHPK	E	2802.5	2802.5			
39	20-Nov	C	MHPK	G	2076.75	2076.75			
39	20-Nov	C	MHPK	L	946	946			
39	10 OR LESS	C	MHPK	A	1347.5	1347.5			
39	10 OR LESS	C	MHPK	C	532	532			
39	10 OR LESS	C	MHPK	E	2802.5	2802.5			
39	10 OR LESS	C	MHPK	G	2076.75	2076.75			
39	10 OR LESS	C	MHPK	L	946	946			
39	101-120	C	MHPK	A	1188.25	1188.25			
39	101-120	C	MHPK	C	432.25	432.25			
39	101-120	C	MHPK	E	2565	2565			
39	101-120	C	MHPK	G	1863.75	1863.75			
39	101-120	C	MHPK	L	817	817			
39	121-140	C	MHPK	A	1176	1176			
39	121-140	C	MHPK	C	432.25	432.25			
39	121-140	C	MHPK	E	2517.5	2517.5			
39	121-140	C	MHPK	G	1828.25	1828.25			
39	121-140	C	MHPK	L	799.8	799.8			
39	141-160	C	MHPK	A	1163.75	1163.75			
39	141-160	C	MHPK	C	432.25	432.25			
39	141-160	C	MHPK	E	2470	2470			
39	141-160	C	MHPK	G	1810.5	1810.5			
39	141-160	C	MHPK	L	782.6	782.6			
39	161-180	C	MHPK	A	1139.25	1139.25			
39	161-180	C	MHPK	C	432.25	432.25			

39	161-180	C	MHPK	E	2422.5	2422.5			
39	161-180	C	MHPK	G	1775	1775			
39	161-180	C	MHPK	L	782.6	782.6			
39	181-200	C	MHPK	A	1114.75	1114.75			
39	181-200	C	MHPK	C	432.25	432.25			
39	181-200	C	MHPK	E	2375	2375			
39	181-200	C	MHPK	G	1739.5	1739.5			
39	181-200	C	MHPK	L	782.6	782.6			
39	201-250	C	MHPK	A	1090.25	1090.25			
39	201-250	C	MHPK	C	432.25	432.25			
39	201-250	C	MHPK	E	2327.5	2327.5			
39	201-250	C	MHPK	G	1704	1704			
39	201-250	C	MHPK	L	782.6	782.6			
39	21-30	C	MHPK	A	1347.5	1347.5			
39	21-30	C	MHPK	C	498.75	498.75			
39	21-30	C	MHPK	E	2802.5	2802.5			
39	21-30	C	MHPK	G	2076.75	2076.75			
39	21-30	C	MHPK	L	946	946			
39	251-300	C	MHPK	A	1090.25	1090.25			
39	251-300	C	MHPK	C	432.25	432.25			
39	251-300	C	MHPK	E	2303.75	2303.75			
39	251-300	C	MHPK	G	1686.25	1686.25			
39	251-300	C	MHPK	L	782.6	782.6			
39	301-350	C	MHPK	A	1090.25	1090.25			
39	301-350	C	MHPK	C	432.25	432.25			
39	301-350	C	MHPK	E	2303.75	2303.75			
39	301-350	C	MHPK	G	1686.25	1686.25			
39	301-350	C	MHPK	L	782.6	782.6			
39	31-40	C	MHPK	A	1347.5	1347.5			
39	31-40	C	MHPK	C	484.5	484.5			
39	31-40	C	MHPK	E	2802.5	2802.5			
39	31-40	C	MHPK	G	2076.75	2076.75			
39	31-40	C	MHPK	L	920.2	920.2			
39	41-50	C	MHPK	A	1323	1323			
39	41-50	C	MHPK	C	475	475			
39	41-50	C	MHPK	E	2802.5	2802.5			
39	41-50	C	MHPK	G	2076.75	2076.75			
39	41-50	C	MHPK	L	903	903			
39	51-60	C	MHPK	A	1298.5	1298.5			
39	51-60	C	MHPK	C	475	475			
39	51-60	C	MHPK	E	2755	2755			
39	51-60	C	MHPK	G	2023.5	2023.5			
39	51-60	C	MHPK	L	885.8	885.8			
39	61-80	C	MHPK	A	1261.75	1261.75			
39	61-80	C	MHPK	C	451.25	451.25			
39	61-80	C	MHPK	E	2683.75	2683.75			

39	61-80	C	MHPK	G	1988	1988			
39	61-80	C	MHPK	L	860	860			
39	81-100	C	MHPK	A	1225	1225			
39	81-100	C	MHPK	C	441.75	441.75			
39	81-100	C	MHPK	E	2612.5	2612.5			
39	81-100	C	MHPK	G	1917	1917			
39	81-100	C	MHPK	L	834.2	834.2			
39	20-Nov	C	RVPK	A	1347.5	1347.5			
39	20-Nov	C	RVPK	C	513	513			
39	20-Nov	C	RVPK	E	2802.5	2802.5			
39	20-Nov	C	RVPK	G	2076.75	2076.75			
39	20-Nov	C	RVPK	L	946	946			
39	10 OR LESS	C	RVPK	A	1347.5	1347.5			
39	10 OR LESS	C	RVPK	C	532	532			
39	10 OR LESS	C	RVPK	E	2802.5	2802.5			
39	10 OR LESS	C	RVPK	G	2076.75	2076.75			
39	10 OR LESS	C	RVPK	L	946	946			
39	101-120	C	RVPK	A	1188.25	1188.25			
39	101-120	C	RVPK	C	432.25	432.25			
39	101-120	C	RVPK	E	2565	2565			
39	101-120	C	RVPK	G	1863.75	1863.75			
39	101-120	C	RVPK	L	817	817			
39	121-140	C	RVPK	A	1176	1176			
39	121-140	C	RVPK	C	432.25	432.25			
39	121-140	C	RVPK	E	2517.5	2517.5			
39	121-140	C	RVPK	G	1828.25	1828.25			
39	121-140	C	RVPK	L	799.8	799.8			
39	141-160	C	RVPK	A	1163.75	1163.75			
39	141-160	C	RVPK	C	432.25	432.25			
39	141-160	C	RVPK	E	2470	2470			
39	141-160	C	RVPK	G	1810.5	1810.5			
39	141-160	C	RVPK	L	782.6	782.6			
39	161-180	C	RVPK	A	1139.25	1139.25			
39	161-180	C	RVPK	C	432.25	432.25			
39	161-180	C	RVPK	E	2422.5	2422.5			
39	161-180	C	RVPK	G	1775	1775			
39	161-180	C	RVPK	L	782.6	782.6			
39	181-200	C	RVPK	A	1114.75	1114.75			
39	181-200	C	RVPK	C	432.25	432.25			
39	181-200	C	RVPK	E	2375	2375			
39	181-200	C	RVPK	G	1739.5	1739.5			
39	181-200	C	RVPK	L	782.6	782.6			

39	201-250	C	RVPK	A	1090.25	1090.25			
39	201-250	C	RVPK	C	432.25	432.25			
39	201-250	C	RVPK	E	2327.5	2327.5			
39	201-250	C	RVPK	G	1704	1704			
39	201-250	C	RVPK	L	782.6	782.6			
39	21-30	C	RVPK	A	1347.5	1347.5			
39	21-30	C	RVPK	C	498.75	498.75			
39	21-30	C	RVPK	E	2802.5	2802.5			
39	21-30	C	RVPK	G	2076.75	2076.75			
39	21-30	C	RVPK	L	946	946			
39	251-300	C	RVPK	A	1090.25	1090.25			
39	251-300	C	RVPK	C	432.25	432.25			
39	251-300	C	RVPK	E	2303.75	2303.75			
39	251-300	C	RVPK	G	1686.25	1686.25			
39	251-300	C	RVPK	L	782.6	782.6			
39	301-350	C	RVPK	A	1090.25	1090.25			
39	301-350	C	RVPK	C	432.25	432.25			
39	301-350	C	RVPK	E	2303.75	2303.75			
39	301-350	C	RVPK	G	1686.25	1686.25			
39	301-350	C	RVPK	L	782.6	782.6			
39	31-40	C	RVPK	A	1347.5	1347.5			
39	31-40	C	RVPK	C	484.5	484.5			
39	31-40	C	RVPK	E	2802.5	2802.5			
39	31-40	C	RVPK	G	2076.75	2076.75			
39	31-40	C	RVPK	L	920.2	920.2			
39	41-50	C	RVPK	A	1323	1323			
39	41-50	C	RVPK	C	475	475			
39	41-50	C	RVPK	E	2802.5	2802.5			
39	41-50	C	RVPK	G	2076.75	2076.75			
39	41-50	C	RVPK	L	903	903			
39	51-60	C	RVPK	A	1298.5	1298.5			
39	51-60	C	RVPK	C	475	475			
39	51-60	C	RVPK	E	2755	2755			
39	51-60	C	RVPK	G	2023.5	2023.5			
39	51-60	C	RVPK	L	885.8	885.8			
39	61-80	C	RVPK	A	1261.75	1261.75			
39	61-80	C	RVPK	C	451.25	451.25			
39	61-80	C	RVPK	E	2683.75	2683.75			
39	61-80	C	RVPK	G	1988	1988			
39	61-80	C	RVPK	L	860	860			
39	81-100	C	RVPK	A	1225	1225			
39	81-100	C	RVPK	C	441.75	441.75			
39	81-100	C	RVPK	E	2612.5	2612.5			
39	81-100	C	RVPK	G	1917	1917			
39	81-100	C	RVPK	L	834.2	834.2			
40	20-Nov	C	MHPK	A	2392.5	2392.5			

40	20-Nov	C	MHPK	C	1382.4	1382.4			
40	20-Nov	C	MHPK	E	3687.5	3687.5			
40	20-Nov	C	MHPK	G	3246.75	3246.75			
40	20-Nov	C	MHPK	L	1870	1870			
40	10 OR LESS	C	MHPK	A	2392.5	2392.5			
40	10 OR LESS	C	MHPK	C	1433.6	1433.6			
40	10 OR LESS	C	MHPK	E	3687.5	3687.5			
40	10 OR LESS	C	MHPK	G	3246.75	3246.75			
40	10 OR LESS	C	MHPK	L	1870	1870			
40	101-120	C	MHPK	A	2109.75	2109.75			
40	101-120	C	MHPK	C	1164.8	1164.8			
40	101-120	C	MHPK	E	3375	3375			
40	101-120	C	MHPK	G	2913.75	2913.75			
40	101-120	C	MHPK	L	1615	1615			
40	121-140	C	MHPK	A	2088	2088			
40	121-140	C	MHPK	C	1164.8	1164.8			
40	121-140	C	MHPK	E	3312.5	3312.5			
40	121-140	C	MHPK	G	2858.25	2858.25			
40	121-140	C	MHPK	L	1581	1581			
40	141-160	C	MHPK	A	2066.25	2066.25			
40	141-160	C	MHPK	C	1164.8	1164.8			
40	141-160	C	MHPK	E	3250	3250			
40	141-160	C	MHPK	G	2830.5	2830.5			
40	141-160	C	MHPK	L	1547	1547			
40	161-180	C	MHPK	A	2022.75	2022.75			
40	161-180	C	MHPK	C	1164.8	1164.8			
40	161-180	C	MHPK	E	3187.5	3187.5			
40	161-180	C	MHPK	G	2775	2775			
40	161-180	C	MHPK	L	1547	1547			
40	181-200	C	MHPK	A	1979.25	1979.25			
40	181-200	C	MHPK	C	1164.8	1164.8			
40	181-200	C	MHPK	E	3125	3125			
40	181-200	C	MHPK	G	2719.5	2719.5			
40	181-200	C	MHPK	L	1547	1547			
40	201-250	C	MHPK	A	1935.75	1935.75			
40	201-250	C	MHPK	C	1164.8	1164.8			
40	201-250	C	MHPK	E	3062.5	3062.5			
40	201-250	C	MHPK	G	2664	2664			
40	201-250	C	MHPK	L	1547	1547			
40	21-30	C	MHPK	A	2392.5	2392.5			
40	21-30	C	MHPK	C	1344	1344			
40	21-30	C	MHPK	E	3687.5	3687.5			

40	21-30	C	MHPK	G	3246.75	3246.75			
40	21-30	C	MHPK	L	1870	1870			
40	251-300	C	MHPK	A	1935.75	1935.75			
40	251-300	C	MHPK	C	1164.8	1164.8			
40	251-300	C	MHPK	E	3031.25	3031.25			
40	251-300	C	MHPK	G	2636.25	2636.25			
40	251-300	C	MHPK	L	1547	1547			
40	301-350	C	MHPK	A	1935.75	1935.75			
40	301-350	C	MHPK	C	1164.8	1164.8			
40	301-350	C	MHPK	E	3031.25	3031.25			
40	301-350	C	MHPK	G	2636.25	2636.25			
40	301-350	C	MHPK	L	1547	1547			
40	31-40	C	MHPK	A	2392.5	2392.5			
40	31-40	C	MHPK	C	1305.6	1305.6			
40	31-40	C	MHPK	E	3687.5	3687.5			
40	31-40	C	MHPK	G	3246.75	3246.75			
40	31-40	C	MHPK	L	1819	1819			
40	41-50	C	MHPK	A	2349	2349			
40	41-50	C	MHPK	C	1280	1280			
40	41-50	C	MHPK	E	3687.5	3687.5			
40	41-50	C	MHPK	G	3246.75	3246.75			
40	41-50	C	MHPK	L	1785	1785			
40	51-60	C	MHPK	A	2305.5	2305.5			
40	51-60	C	MHPK	C	1280	1280			
40	51-60	C	MHPK	E	3625	3625			
40	51-60	C	MHPK	G	3163.5	3163.5			
40	51-60	C	MHPK	L	1751	1751			
40	61-80	C	MHPK	A	2240.25	2240.25			
40	61-80	C	MHPK	C	1216	1216			
40	61-80	C	MHPK	E	3531.25	3531.25			
40	61-80	C	MHPK	G	3108	3108			
40	61-80	C	MHPK	L	1700	1700			
40	81-100	C	MHPK	A	2175	2175			
40	81-100	C	MHPK	C	1190.4	1190.4			
40	81-100	C	MHPK	E	3437.5	3437.5			
40	81-100	C	MHPK	G	2997	2997			
40	81-100	C	MHPK	L	1649	1649			
40	20-Nov	C	RVPK	A	2392.5	2392.5			
40	20-Nov	C	RVPK	C	1382.4	1382.4			
40	20-Nov	C	RVPK	E	3687.5	3687.5			
40	20-Nov	C	RVPK	G	3246.75	3246.75			
40	20-Nov	C	RVPK	L	1870	1870			
40	10 OR LESS	C	RVPK	A	2392.5	2392.5			
40	10 OR LESS	C	RVPK	C	1433.6	1433.6			

40	10 OR LESS	C	RVPK	E	3687.5	3687.5			
40	10 OR LESS	C	RVPK	G	3246.75	3246.75			
40	10 OR LESS	C	RVPK	L	1870	1870			
40	101-120	C	RVPK	A	2109.75	2109.75			
40	101-120	C	RVPK	C	1164.8	1164.8			
40	101-120	C	RVPK	E	3375	3375			
40	101-120	C	RVPK	G	2913.75	2913.75			
40	101-120	C	RVPK	L	1615	1615			
40	121-140	C	RVPK	A	2088	2088			
40	121-140	C	RVPK	C	1164.8	1164.8			
40	121-140	C	RVPK	E	3312.5	3312.5			
40	121-140	C	RVPK	G	2858.25	2858.25			
40	121-140	C	RVPK	L	1581	1581			
40	141-160	C	RVPK	A	2066.25	2066.25			
40	141-160	C	RVPK	C	1164.8	1164.8			
40	141-160	C	RVPK	E	3250	3250			
40	141-160	C	RVPK	G	2830.5	2830.5			
40	141-160	C	RVPK	L	1547	1547			
40	161-180	C	RVPK	A	2022.75	2022.75			
40	161-180	C	RVPK	C	1164.8	1164.8			
40	161-180	C	RVPK	E	3187.5	3187.5			
40	161-180	C	RVPK	G	2775	2775			
40	161-180	C	RVPK	L	1547	1547			
40	181-200	C	RVPK	A	1979.25	1979.25			
40	181-200	C	RVPK	C	1164.8	1164.8			
40	181-200	C	RVPK	E	3125	3125			
40	181-200	C	RVPK	G	2719.5	2719.5			
40	181-200	C	RVPK	L	1547	1547			
40	201-250	C	RVPK	A	1935.75	1935.75			
40	201-250	C	RVPK	C	1164.8	1164.8			
40	201-250	C	RVPK	E	3062.5	3062.5			
40	201-250	C	RVPK	G	2664	2664			
40	201-250	C	RVPK	L	1547	1547			
40	21-30	C	RVPK	A	2392.5	2392.5			
40	21-30	C	RVPK	C	1344	1344			
40	21-30	C	RVPK	E	3687.5	3687.5			
40	21-30	C	RVPK	G	3246.75	3246.75			
40	21-30	C	RVPK	L	1870	1870			
40	251-300	C	RVPK	A	1935.75	1935.75			
40	251-300	C	RVPK	C	1164.8	1164.8			
40	251-300	C	RVPK	E	3031.25	3031.25			
40	251-300	C	RVPK	G	2636.25	2636.25			
40	251-300	C	RVPK	L	1547	1547			
40	301-350	C	RVPK	A	1935.75	1935.75			

40	301-350	C	RVPK	C	1164.8	1164.8			
40	301-350	C	RVPK	E	3031.25	3031.25			
40	301-350	C	RVPK	G	2636.25	2636.25			
40	301-350	C	RVPK	L	1547	1547			
40	31-40	C	RVPK	A	2392.5	2392.5			
40	31-40	C	RVPK	C	1305.6	1305.6			
40	31-40	C	RVPK	E	3687.5	3687.5			
40	31-40	C	RVPK	G	3246.75	3246.75			
40	31-40	C	RVPK	L	1819	1819			
40	41-50	C	RVPK	A	2349	2349			
40	41-50	C	RVPK	C	1280	1280			
40	41-50	C	RVPK	E	3687.5	3687.5			
40	41-50	C	RVPK	G	3246.75	3246.75			
40	41-50	C	RVPK	L	1785	1785			
40	51-60	C	RVPK	A	2305.5	2305.5			
40	51-60	C	RVPK	C	1280	1280			
40	51-60	C	RVPK	E	3625	3625			
40	51-60	C	RVPK	G	3163.5	3163.5			
40	51-60	C	RVPK	L	1751	1751			
40	61-80	C	RVPK	A	2240.25	2240.25			
40	61-80	C	RVPK	C	1216	1216			
40	61-80	C	RVPK	E	3531.25	3531.25			
40	61-80	C	RVPK	G	3108	3108			
40	61-80	C	RVPK	L	1700	1700			
40	81-100	C	RVPK	A	2175	2175			
40	81-100	C	RVPK	C	1190.4	1190.4			
40	81-100	C	RVPK	E	3437.5	3437.5			
40	81-100	C	RVPK	G	2997	2997			
40	81-100	C	RVPK	L	1649	1649			
41	20-Nov	C	MHPK	A	819.5	819.5			
41	20-Nov	C	MHPK	C	205.2	205.2			
41	20-Nov	C	MHPK	E	2242	2242			
41	20-Nov	C	MHPK	G	1550.25	1550.25			
41	20-Nov	C	MHPK	L	500.5	500.5			
41	10 OR LESS	C	MHPK	A	819.5	819.5			
41	10 OR LESS	C	MHPK	C	212.8	212.8			
41	10 OR LESS	C	MHPK	E	2242	2242			
41	10 OR LESS	C	MHPK	G	1550.25	1550.25			
41	10 OR LESS	C	MHPK	L	500.5	500.5			
41	101-120	C	MHPK	A	722.65	722.65			
41	101-120	C	MHPK	C	172.9	172.9			
41	101-120	C	MHPK	E	2052	2052			

41	101-120	C	MHPK	G	1391.25	1391.25			
41	101-120	C	MHPK	L	432.25	432.25			
41	121-140	C	MHPK	A	715.2	715.2			
41	121-140	C	MHPK	C	172.9	172.9			
41	121-140	C	MHPK	E	2014	2014			
41	121-140	C	MHPK	G	1364.75	1364.75			
41	121-140	C	MHPK	L	423.15	423.15			
41	141-160	C	MHPK	A	707.75	707.75			
41	141-160	C	MHPK	C	172.9	172.9			
41	141-160	C	MHPK	E	1976	1976			
41	141-160	C	MHPK	G	1351.5	1351.5			
41	141-160	C	MHPK	L	414.05	414.05			
41	161-180	C	MHPK	A	692.85	692.85			
41	161-180	C	MHPK	C	172.9	172.9			
41	161-180	C	MHPK	E	1938	1938			
41	161-180	C	MHPK	G	1325	1325			
41	161-180	C	MHPK	L	414.05	414.05			
41	181-200	C	MHPK	A	677.95	677.95			
41	181-200	C	MHPK	C	172.9	172.9			
41	181-200	C	MHPK	E	1900	1900			
41	181-200	C	MHPK	G	1298.5	1298.5			
41	181-200	C	MHPK	L	414.05	414.05			
41	201-250	C	MHPK	A	663.05	663.05			
41	201-250	C	MHPK	C	172.9	172.9			
41	201-250	C	MHPK	E	1862	1862			
41	201-250	C	MHPK	G	1272	1272			
41	201-250	C	MHPK	L	414.05	414.05			
41	21-30	C	MHPK	A	819.5	819.5			
41	21-30	C	MHPK	C	199.5	199.5			
41	21-30	C	MHPK	E	2242	2242			
41	21-30	C	MHPK	G	1550.25	1550.25			
41	21-30	C	MHPK	L	500.5	500.5			
41	251-300	C	MHPK	A	663.05	663.05			
41	251-300	C	MHPK	C	172.9	172.9			
41	251-300	C	MHPK	E	1843	1843			
41	251-300	C	MHPK	G	1258.75	1258.75			
41	251-300	C	MHPK	L	414.05	414.05			
41	301-350	C	MHPK	A	663.05	663.05			
41	301-350	C	MHPK	C	172.9	172.9			
41	301-350	C	MHPK	E	1843	1843			
41	301-350	C	MHPK	G	1258.75	1258.75			
41	301-350	C	MHPK	L	414.05	414.05			
41	31-40	C	MHPK	A	819.5	819.5			
41	31-40	C	MHPK	C	193.8	193.8			
41	31-40	C	MHPK	E	2242	2242			
41	31-40	C	MHPK	G	1550.25	1550.25			

41	31-40	C	MHPK	L	486.85	486.85			
41	41-50	C	MHPK	A	804.6	804.6			
41	41-50	C	MHPK	C	190	190			
41	41-50	C	MHPK	E	2242	2242			
41	41-50	C	MHPK	G	1550.25	1550.25			
41	41-50	C	MHPK	L	477.75	477.75			
41	51-60	C	MHPK	A	789.7	789.7			
41	51-60	C	MHPK	C	190	190			
41	51-60	C	MHPK	E	2204	2204			
41	51-60	C	MHPK	G	1510.5	1510.5			
41	51-60	C	MHPK	L	468.65	468.65			
41	61-80	C	MHPK	A	767.35	767.35			
41	61-80	C	MHPK	C	180.5	180.5			
41	61-80	C	MHPK	E	2147	2147			
41	61-80	C	MHPK	G	1484	1484			
41	61-80	C	MHPK	L	455	455			
41	81-100	C	MHPK	A	745	745			
41	81-100	C	MHPK	C	176.7	176.7			
41	81-100	C	MHPK	E	2090	2090			
41	81-100	C	MHPK	G	1431	1431			
41	81-100	C	MHPK	L	441.35	441.35			
41	20-Nov	C	RVPK	A	819.5	819.5			
41	20-Nov	C	RVPK	C	205.2	205.2			
41	20-Nov	C	RVPK	E	2242	2242			
41	20-Nov	C	RVPK	G	1550.25	1550.25			
41	20-Nov	C	RVPK	L	500.5	500.5			
41	10 OR LESS	C	RVPK	A	819.5	819.5			
41	10 OR LESS	C	RVPK	C	212.8	212.8			
41	10 OR LESS	C	RVPK	E	2242	2242			
41	10 OR LESS	C	RVPK	G	1550.25	1550.25			
41	10 OR LESS	C	RVPK	L	500.5	500.5			
41	101-120	C	RVPK	A	722.65	722.65			
41	101-120	C	RVPK	C	172.9	172.9			
41	101-120	C	RVPK	E	2052	2052			
41	101-120	C	RVPK	G	1391.25	1391.25			
41	101-120	C	RVPK	L	432.25	432.25			
41	121-140	C	RVPK	A	715.2	715.2			
41	121-140	C	RVPK	C	172.9	172.9			
41	121-140	C	RVPK	E	2014	2014			
41	121-140	C	RVPK	G	1364.75	1364.75			
41	121-140	C	RVPK	L	423.15	423.15			
41	141-160	C	RVPK	A	707.75	707.75			

41	141-160	C	RVPK	C	172.9	172.9			
41	141-160	C	RVPK	E	1976	1976			
41	141-160	C	RVPK	G	1351.5	1351.5			
41	141-160	C	RVPK	L	414.05	414.05			
41	161-180	C	RVPK	A	692.85	692.85			
41	161-180	C	RVPK	C	172.9	172.9			
41	161-180	C	RVPK	E	1938	1938			
41	161-180	C	RVPK	G	1325	1325			
41	161-180	C	RVPK	L	414.05	414.05			
41	181-200	C	RVPK	A	677.95	677.95			
41	181-200	C	RVPK	C	172.9	172.9			
41	181-200	C	RVPK	E	1900	1900			
41	181-200	C	RVPK	G	1298.5	1298.5			
41	181-200	C	RVPK	L	414.05	414.05			
41	201-250	C	RVPK	A	663.05	663.05			
41	201-250	C	RVPK	C	172.9	172.9			
41	201-250	C	RVPK	E	1862	1862			
41	201-250	C	RVPK	G	1272	1272			
41	201-250	C	RVPK	L	414.05	414.05			
41	21-30	C	RVPK	A	819.5	819.5			
41	21-30	C	RVPK	C	199.5	199.5			
41	21-30	C	RVPK	E	2242	2242			
41	21-30	C	RVPK	G	1550.25	1550.25			
41	21-30	C	RVPK	L	500.5	500.5			
41	251-300	C	RVPK	A	663.05	663.05			
41	251-300	C	RVPK	C	172.9	172.9			
41	251-300	C	RVPK	E	1843	1843			
41	251-300	C	RVPK	G	1258.75	1258.75			
41	251-300	C	RVPK	L	414.05	414.05			
41	301-350	C	RVPK	A	663.05	663.05			
41	301-350	C	RVPK	C	172.9	172.9			
41	301-350	C	RVPK	E	1843	1843			
41	301-350	C	RVPK	G	1258.75	1258.75			
41	301-350	C	RVPK	L	414.05	414.05			
41	31-40	C	RVPK	A	819.5	819.5			
41	31-40	C	RVPK	C	193.8	193.8			
41	31-40	C	RVPK	E	2242	2242			
41	31-40	C	RVPK	G	1550.25	1550.25			
41	31-40	C	RVPK	L	486.85	486.85			
41	41-50	C	RVPK	A	804.6	804.6			
41	41-50	C	RVPK	C	190	190			
41	41-50	C	RVPK	E	2242	2242			
41	41-50	C	RVPK	G	1550.25	1550.25			
41	41-50	C	RVPK	L	477.75	477.75			
41	51-60	C	RVPK	A	789.7	789.7			
41	51-60	C	RVPK	C	190	190			

41	51-60	C	RVPK	E	2204	2204			
41	51-60	C	RVPK	G	1510.5	1510.5			
41	51-60	C	RVPK	L	468.65	468.65			
41	61-80	C	RVPK	A	767.35	767.35			
41	61-80	C	RVPK	C	180.5	180.5			
41	61-80	C	RVPK	E	2147	2147			
41	61-80	C	RVPK	G	1484	1484			
41	61-80	C	RVPK	L	455	455			
41	81-100	C	RVPK	A	745	745			
41	81-100	C	RVPK	C	176.7	176.7			
41	81-100	C	RVPK	E	2090	2090			
41	81-100	C	RVPK	G	1431	1431			
41	81-100	C	RVPK	L	441.35	441.35			
42	G1	R	MA	1			3000	3000	
42	G1	R	MA	2			3000	3000	
42	G1	R	MA	3			3000	3000	
42	G1	R	MA	4			3000	3000	
42	G1	R	MA	5			3000	3000	
42	G1	R	MA	6			3000	3000	
42	G1	R	MA	7			3000	3000	
42	G1	R	MA	8			3000	3000	
42	G1	R	MA	1-			3000	3000	
42	G1	R	MA	1+			3000	3000	
42	G1	R	MA	2-			3000	3000	
42	G1	R	MA	2+			3000	3000	
42	G1	R	MA	3-			3000	3000	
42	G1	R	MA	3+			3000	3000	
42	G1	R	MA	4-			3000	3000	
42	G1	R	MA	4+			3000	3000	
42	G1	R	MA	5-			3000	3000	
42	G1	R	MA	5+			3000	3000	
42	G1	R	MA	6-			3000	3000	
42	G1	R	MA	6+			3000	3000	
42	G1	R	MA	7-			3000	3000	
42	G1	R	MA	7+			3000	3000	
42	G1	R	MA	8-			3000	3000	
42	G1	R	MA	8+			3000	3000	
42	G2	R	MA	1			5000	5000	
42	G2	R	MA	2			5000	5000	
42	G2	R	MA	3			5000	5000	
42	G2	R	MA	4			5000	5000	
42	G2	R	MA	5			5000	5000	
42	G2	R	MA	6			5000	5000	
42	G2	R	MA	7			5000	5000	
42	G2	R	MA	8			5000	5000	
42	G2	R	MA	1-			5000	5000	

42	G2	R	MA	1+			5000	5000	
42	G2	R	MA	2-			5000	5000	
42	G2	R	MA	2+			5000	5000	
42	G2	R	MA	3-			5000	5000	
42	G2	R	MA	3+			5000	5000	
42	G2	R	MA	4-			5000	5000	
42	G2	R	MA	4+			5000	5000	
42	G2	R	MA	5-			5000	5000	
42	G2	R	MA	5+			5000	5000	
42	G2	R	MA	6-			5000	5000	
42	G2	R	MA	6+			5000	5000	
42	G2	R	MA	7-			5000	5000	
42	G2	R	MA	7+			5000	5000	
42	G2	R	MA	8-			5000	5000	
42	G2	R	MA	8+			5000	5000	
43	RC0	R	MA	1	0	0			
43	RC0	R	MA	2	0	0			
43	RC0	R	MA	3	-1.15	-1.15			
43	RC0	R	MA	4	-1.4	-1.4			
43	RC0	R	MA	5	-1.4	-1.4			
43	RC0	R	MA	6	-1.68	-1.68			
43	RC0	R	MA	7	-2.1	-2.1			
43	RC0	R	MA	8	-2.5	-2.5			
43	RC0	R	MA	1-	0	0			
43	RC0	R	MA	1+	0	0			
43	RC0	R	MA	2-	0	0			
43	RC0	R	MA	2+	0	0			
43	RC0	R	MA	3-	-1.15	-1.15			
43	RC0	R	MA	3+	-1.15	-1.15			
43	RC0	R	MA	4-	-1.4	-1.4			
43	RC0	R	MA	4+	-1.68	-1.68			
43	RC0	R	MA	5-	-1.4	-1.4			
43	RC0	R	MA	5+	-1.68	-1.68			
43	RC0	R	MA	6-	-1.4	-1.4			
43	RC0	R	MA	6+	-1.68	-1.68			
43	RC0	R	MA	7-	-2.1	-2.1			
43	RC0	R	MA	7+	-2.1	-2.1			
43	RC0	R	MA	8-	-2.5	-2.5			
43	RC0	R	MA	8+	-2.5	-2.5			
43	RC1	R	MA	1	0.94	0.94			
43	RC1	R	MA	2	1.19	1.19			
43	RC1	R	MA	3	0	0			
43	RC1	R	MA	4	0	0			
43	RC1	R	MA	5	0	0			
43	RC1	R	MA	6	0	0			
43	RC1	R	MA	7	0	0			

43	RC1	R	MA	8	0	0			
43	RC1	R	MA	1-	0.94	0.94			
43	RC1	R	MA	1+	0.94	0.94			
43	RC1	R	MA	2-	1.19	1.19			
43	RC1	R	MA	2+	1.19	1.19			
43	RC1	R	MA	3-	0	0			
43	RC1	R	MA	3+	0	0			
43	RC1	R	MA	4-	0	0			
43	RC1	R	MA	4+	0	0			
43	RC1	R	MA	5-	0	0			
43	RC1	R	MA	5+	0	0			
43	RC1	R	MA	6-	0	0			
43	RC1	R	MA	6+	0	0			
43	RC1	R	MA	7-	0	0			
43	RC1	R	MA	7+	0	0			
43	RC1	R	MA	8-	0	0			
43	RC1	R	MA	8+	0	0			
43	RC2	R	MA	1	0.94	0.94			
43	RC2	R	MA	2	1.19	1.19			
43	RC2	R	MA	3	0	0			
43	RC2	R	MA	4	0	0			
43	RC2	R	MA	5	0	0			
43	RC2	R	MA	6	0	0			
43	RC2	R	MA	7	0	0			
43	RC2	R	MA	8	0	0			
43	RC2	R	MA	1-	0.94	0.94			
43	RC2	R	MA	1+	0.94	0.94			
43	RC2	R	MA	2-	1.19	1.19			
43	RC2	R	MA	2+	1.19	1.19			
43	RC2	R	MA	3-	0	0			
43	RC2	R	MA	3+	0	0			
43	RC2	R	MA	4-	0	0			
43	RC2	R	MA	4+	0	0			
43	RC2	R	MA	5-	0	0			
43	RC2	R	MA	5+	0	0			
43	RC2	R	MA	6-	0	0			
43	RC2	R	MA	6+	0	0			
43	RC2	R	MA	7-	0	0			
43	RC2	R	MA	7+	0	0			
43	RC2	R	MA	8-	0	0			
43	RC2	R	MA	8+	0	0			

Appendix 4 – Residential Depreciation Schedules

Class 1 & 2 Depreciation Schedule

1 & 2	EX	VG	GD	AV	FR	PR	VP	UN
1	100	100	99	98	91	79	69	49
2	99	99	98	97	90	78	68	48
3	99	98	97	96	89	77	67	47
4	98	98	96	95	88	76	66	46
5	97	97	95	94	87	75	65	45
6	97	96	95	93	86	74	64	44
7	96	95	94	92	85	73	63	43
8	95	94	93	91	84	72	62	42
9	94	94	92	90	83	71	61	41
10	94	93	91	89	82	70	60	40
11	93	92	90	88	81	69	59	39
12	92	91	89	87	80	68	58	38
13	92	90	88	86	79	67	57	37
14	91	90	88	86	79	67	57	37
15	90	89	87	85	78	66	56	36
16	90	88	86	84	77	65	55	35
17	89	87	85	83	76	64	54	34
18	88	86	84	82	75	63	53	33
19	87	86	83	81	74	62	52	32
20	87	85	82	80	73	61	51	31
21	86	84	81	79	72	60	50	30
22	85	83	81	78	71	59	49	29
23	85	82	80	77	70	58	48	28
24	84	82	79	76	69	57	47	27
25	83	81	78	75	68	56	46	26
26	83	80	77	74	67	55	45	25
27	82	79	76	73	66	54	44	24
28	81	78	75	72	65	53	43	23
29	80	78	74	71	64	52	42	22
30	80	77	73	70	63	51	41	21
31	79	76	73	69	62	50	40	20
32	78	75	72	68	61	49	39	19
33	78	74	71	67	60	48	38	18
34	77	74	70	66	59	47	37	17
35	76	73	69	65	58	46	36	16
36	75	72	68	64	57	45	35	15
37	75	71	67	63	56	44	34	14
38	74	70	66	62	55	43	33	13
39	73	70	66	62	55	43	33	13
40	73	69	65	61	54	42	32	12
41	72	68	64	60	53	41	31	11
42	71	67	63	59	52	40	30	10
43	71	66	62	58	51	39	29	9
44	70	66	61	57	50	38	28	8
45	69	65	60	56	49	37	27	7
46	68	64	59	55	48	36	26	6
47	68	63	59	54	47	35	25	5
48	67	62	58	53	46	34	24	4
49	66	62	57	52	45	33	23	3
50	66	61	56	51	44	32	22	2
51	65	60	55	50	43	31	21	1

Class 3 Depreciation Schedule

3	EX	VG	GD	AV	FR	PR	VP	UN
1	100	100	99	98	91	79	69	49
2	99	99	98	97	90	78	68	48
3	99	99	97	96	89	77	67	47
4	98	98	97	95	88	76	66	46
5	97	97	96	95	88	76	66	46
6	97	96	95	94	87	75	65	45
7	96	96	94	93	86	74	64	44
8	96	95	93	92	85	73	63	43
9	95	94	93	91	84	72	62	42
10	94	93	92	90	83	71	61	41
11	94	93	91	89	82	70	60	40
12	93	92	90	88	81	69	59	39
13	92	91	89	88	81	69	59	39
14	92	91	89	87	80	68	58	38
15	91	90	88	86	79	67	57	37
16	90	89	87	85	78	66	56	36
17	90	88	86	84	77	65	55	35
18	89	88	85	83	76	64	54	34
19	89	87	85	82	75	63	53	33
20	88	86	84	81	74	62	52	32
21	87	85	83	81	74	62	52	32
22	87	85	82	80	73	61	51	31
23	86	84	81	79	72	60	50	30
24	85	83	81	78	71	59	49	29
25	85	83	80	77	70	58	48	28
26	84	82	79	76	69	57	47	27
27	83	81	78	75	68	56	46	26
28	83	80	77	74	67	55	45	25
29	82	80	77	74	67	55	45	25
30	82	79	76	73	66	54	44	24
31	81	78	75	72	65	53	43	23
32	80	77	74	71	64	52	42	22
33	80	77	73	70	63	51	41	21
34	79	76	73	69	62	50	40	20
35	78	75	72	68	61	49	39	19
36	78	75	71	67	60	48	38	18
37	77	74	70	67	60	48	38	18
38	76	73	69	66	59	47	37	17
39	76	72	69	65	58	46	36	16
40	75	72	68	64	57	45	35	15
41	75	71	67	63	56	44	34	14
42	74	70	66	62	55	43	33	13
43	73	69	65	61	54	42	32	12
44	73	69	65	60	53	41	31	11
45	72	68	64	60	53	41	31	11
46	71	67	63	59	52	40	30	10
47	71	67	62	58	51	39	29	9
48	70	66	61	57	50	38	28	8
49	69	65	61	56	49	37	27	7
50	69	64	60	55	48	36	26	6
51	68	64	59	54	47	35	25	5
52	68	63	58	53	46	34	24	4
53	67	62	57	53	46	34	24	4
54	66	61	57	52	45	33	23	3
55	66	61	56	51	44	32	22	2
56	65	60	55	50	43	31	21	1

Class 4 Depreciation Schedule

4	EX	VG	GD	AV	FR	PR	VP	UN
1	100	100	99	98	91	79	69	49
2	99	99	98	97	90	78	68	48
3	99	99	98	96	89	77	67	47
4	98	98	97	96	89	77	67	47
5	98	97	96	95	88	76	66	46
6	97	97	95	94	87	75	65	45
7	97	96	95	93	86	74	64	44
8	96	95	94	92	85	73	63	43
9	95	95	93	92	85	73	63	43
10	95	94	92	91	84	72	62	42
11	94	93	92	90	83	71	61	41
12	94	93	91	89	82	70	60	40
13	93	92	90	88	81	69	59	39
14	92	91	89	88	81	69	59	39
15	92	91	89	87	80	68	58	38
16	91	90	88	86	79	67	57	37
17	91	89	87	85	78	66	56	36
18	90	89	87	84	77	65	55	35
19	90	88	86	84	77	65	55	35
20	89	87	85	83	76	64	54	34
21	88	87	84	82	75	63	53	33
22	88	86	84	81	74	62	52	32
23	87	85	83	80	73	61	51	31
24	87	85	82	80	73	61	51	31
25	86	84	81	79	72	60	50	30
26	85	83	81	78	71	59	49	29
27	85	83	80	77	70	58	48	28
28	84	82	79	76	69	57	47	27
29	84	81	78	76	69	57	47	27
30	83	81	78	75	68	56	46	26
31	83	80	77	74	67	55	45	25
32	82	79	76	73	66	54	44	24
33	81	79	76	72	65	53	43	23
34	81	78	75	72	65	53	43	23
35	80	77	74	71	64	52	42	22
36	80	77	73	70	63	51	41	21
37	79	76	73	69	62	50	40	20
38	78	75	72	68	61	49	39	19
39	78	75	71	68	61	49	39	19
40	77	74	70	67	60	48	38	18
41	77	73	70	66	59	47	37	17
42	76	73	69	65	58	46	36	16
43	76	72	68	64	57	45	35	15
44	75	71	67	64	57	45	35	15
45	74	71	67	63	56	44	34	14
46	74	70	66	62	55	43	33	13
47	73	69	65	61	54	42	32	12
48	73	69	65	60	53	41	31	11
49	72	68	64	60	53	41	31	11
50	71	67	63	59	52	40	30	10
51	71	67	62	58	51	39	29	9
52	70	66	62	57	50	38	28	8
53	70	65	61	56	49	37	27	7
54	69	65	60	56	49	37	27	7
55	69	64	59	55	48	36	26	6
56	68	63	59	54	47	35	25	5
57	67	63	58	53	46	34	24	4
58	67	62	57	52	45	33	23	3
59	66	61	56	52	45	33	23	3
60	66	61	56	51	44	32	22	2
61	65	60	55	50	43	31	21	1

Class 5 Depreciation Schedule

5	EX	VG	GD	AV	FR	PR	VP	UN
1	100	100	99	98	91	79	68	49
2	99	99	98	97	90	78	68	48
3	99	99	98	97	90	78	68	48
4	98	98	97	96	89	77	67	47
5	98	98	96	95	88	76	66	46
6	97	97	96	94	87	75	65	45
7	97	96	95	94	87	75	65	45
8	96	96	94	93	86	74	64	44
9	96	95	94	92	85	73	63	43
10	95	94	93	91	84	72	62	42
11	95	94	92	91	84	72	62	42
12	94	93	92	90	83	71	61	41
13	94	93	91	89	82	70	60	40
14	93	92	90	88	81	69	59	39
15	92	91	90	88	81	69	59	39
16	92	91	89	87	80	68	58	38
17	91	90	88	86	79	67	57	37
18	91	90	87	85	78	66	56	36
19	90	89	87	85	78	66	56	36
20	90	88	86	84	77	65	55	35
21	89	88	85	83	76	64	54	34
22	89	87	85	82	75	63	53	33
23	88	86	84	82	75	63	53	33
24	88	86	83	81	74	62	52	32
25	87	85	83	80	73	61	51	31
26	87	85	82	80	73	61	51	31
27	86	84	81	79	72	60	50	30
28	85	83	81	78	71	59	49	29
29	85	83	80	77	70	58	48	28
30	84	82	79	77	70	58	48	28
31	84	82	79	76	69	57	47	27
32	83	81	78	75	68	56	46	26
33	83	80	77	74	67	55	45	25
34	82	80	77	74	67	55	45	25
35	82	79	76	73	66	54	44	24
36	81	78	75	72	65	53	43	23
37	81	78	75	71	64	52	42	22
38	80	77	74	71	64	52	42	22
39	80	77	73	70	63	51	41	21
40	79	76	73	69	62	50	40	20
41	78	75	72	68	61	49	39	19
42	78	75	71	68	61	49	39	19
43	77	74	71	67	60	48	38	18
44	77	74	70	66	59	47	37	17
45	76	73	69	66	59	47	37	17
46	76	72	69	65	58	46	36	16
47	75	72	68	64	57	45	35	15
48	75	71	67	63	56	44	34	14
49	74	70	67	63	56	44	34	14
50	74	70	66	62	55	43	33	13
51	73	69	65	61	54	42	32	12
52	73	69	64	60	53	41	31	11
53	72	68	64	60	53	41	31	11
54	71	67	63	59	52	40	30	10
55	71	67	62	58	51	39	29	9
56	70	66	62	57	50	38	28	8
57	70	66	61	57	50	38	28	8
58	69	65	60	56	49	37	27	7
59	69	64	60	55	48	36	26	6
60	68	64	59	54	47	35	25	5
61	68	63	58	54	47	35	25	5
62	67	62	58	53	46	34	24	4
63	67	62	57	52	45	33	23	3
64	66	61	56	51	44	32	22	2
65	66	61	56	51	44	32	22	2
66	65	60	55	50	43	31	21	1

Class 6 & 7 Depreciation Schedule

6 & 7	EX	VG	GD	AV	FR	PR	VP	UN
1	100	100	99	98	91	79	69	48
2	100	99	98	97	90	78	68	48
3	99	99	98	97	90	78	68	48
4	99	98	97	96	89	77	67	47
5	98	98	96	95	88	76	66	46
6	98	97	96	95	88	76	66	46
7	97	97	95	94	87	75	65	45
8	97	96	95	93	86	74	64	44
9	96	95	94	93	86	74	64	44
10	96	95	93	92	85	73	63	43
11	95	94	93	91	84	72	62	42
12	95	94	92	90	83	71	61	41
13	94	93	91	90	83	71	61	41
14	94	93	91	89	82	70	60	40
15	93	92	90	88	81	69	59	39
16	93	91	90	88	81	69	59	39
17	92	91	89	87	80	68	58	38
18	92	90	88	86	79	67	57	37
19	91	90	88	86	79	67	57	37
20	91	89	87	85	78	66	56	36
21	90	89	86	84	77	65	55	35
22	90	88	86	84	77	65	55	35
23	89	87	85	83	76	64	54	34
24	89	87	85	82	75	63	53	33
25	88	86	84	82	75	63	53	33
26	88	86	83	81	74	62	52	32
27	87	85	83	80	73	61	51	31
28	87	85	82	79	72	60	50	30
29	86	84	81	79	72	60	50	30
30	86	83	81	78	71	59	49	29
31	85	83	80	77	70	58	48	28
32	85	82	80	77	70	58	48	28
33	84	82	79	76	69	57	47	27
34	84	81	78	75	68	56	46	26
35	83	81	78	75	68	56	46	26
36	83	80	77	74	67	55	45	25
37	82	79	76	73	66	54	44	24
38	82	79	76	73	66	54	44	24
39	81	78	75	72	65	53	43	23
40	81	78	74	71	64	52	42	22
41	80	77	74	71	64	52	42	22
42	80	77	73	70	63	51	41	21
43	79	76	73	69	62	50	40	20
44	79	75	72	69	62	50	40	20
45	78	75	71	68	61	49	39	19
46	78	74	71	67	60	48	38	18
47	77	74	70	66	59	47	37	17
48	77	73	69	66	59	47	37	17
49	76	73	69	65	58	46	36	16
50	76	72	68	64	57	45	35	15
51	75	71	68	64	57	45	35	15
52	75	71	67	63	56	44	34	14
53	74	70	69	62	55	43	33	13
54	74	70	66	62	55	43	33	13
55	73	69	65	61	54	42	32	12
56	73	69	64	60	53	41	31	11
57	72	68	64	60	53	41	31	11
58	72	67	63	59	52	40	30	10
59	71	67	63	58	51	39	29	9
60	71	66	62	58	51	39	29	9
61	70	66	61	57	50	38	28	8
62	70	65	61	56	49	37	27	7
63	69	65	60	55	48	36	26	6
64	69	64	59	55	48	36	26	6
65	68	63	59	54	47	35	25	5
66	68	63	58	53	46	34	24	4
67	67	62	58	53	46	34	24	4
68	67	62	57	52	45	33	23	3
69	66	61	56	51	44	32	22	2
70	66	61	56	51	44	32	22	2
71	65	60	55	50	43	31	21	1

Appendix 5 – Neighborhood Codes

NBHD CODE	IMP %	LAND %
0001.N	90	100
0001.O	100	100
0011.N	95	100
0011.O	102	100
72	109	100
0072.MH	140	100
100	95	100
124.N	98	100
124.O	98	100
181.AREA	98	100
2700.84	113	100
2760.ALL	103	100
2877.66	104	100
2877.66	93	100
2901.N5	98	100
2901.O4	98	100
2901.O6	98	100
2983.84	108	100
411.N	98	100
411.O	98	100
4411.01	108	100
4411.01	98	100
474.AREA.N	98	100
474.AREA.O	92	100
547 GARCIA	88	100
56.57SCB	120	100
56.57SSW	98	100
6569.71	98	100
6820.45	98	100
6820.4520N	98	100
7983.AREA	98	100
8175	98	100
A0004.ARE0	115	100
A0012.13.M	104	100
A0012.13.N	112	100
A0012.13.O	103	100
A0013.AREA	106	100
A0017.SUBS	97	100
A0037.AREA	100	100
A0040.D11	91	100
A0045.7545	98	100
A0046.SUBS	98	100
A0058.AREA	110	100
A0059.AREA	98	100
A0059.RIVR	148	100

NBHD CODE	IMP %	LAND %
A0094.O	90	100
A0100.N	90	100
A0100.O	90	100
A0102.AREA	90	100
A0104.ARE0	98	100
A0104.ARE1	98	100
A0118.SUBS	96	100
A0122.N	88	100
A0125	86	100
A0129.ARE0	106	100
A0131.SUBS	88	100
A0134.N	84	100
A0134.O	84	100
A0136.AREA	81	100
A0138.AREA	101	100
A0144.AREA	102	100
A0147	94	100
A0192.AREA	101	100
A0192.SUBS	108	100
A0227	86	100
A0234.N	95	100
A0234.O	98	100
A0237.0554	90	100
A0237.544	90	100
A0238.ARE0	90	100
A0243.ARE0	90	100
A0243.ARE1	90	100
A0254.AREA	86	100
A0293.MH	88	100
A0318.380	94	100
A0328	94	100
A0332	110	100
A0332.W	110	100
A0366.ARE0	110	100
A0366.ARE1	103	100
A0412.ARE0	124	100
A0412.ARE1	112	100
A0412.AREA	90	100
A0420.AREA	86	100
A0421.AREA	97	100
A0440.AREA	90	100
A0487.N	90	100
A0509.ARE0	110	100
A0509.ARE1	106	100
A0543	98	100

A0066.SUBS	103	100
A0081	73	100
A0088.AREA	96	100
A0094.N	90	100

NBHD CODE	IMP %	LAND %
A0549.ARE1	90.5	100
A0588	90.5	100
A0622.AREA	90.5	100
A70.M	90.5	100
A70.N	90.5	100
A70.O	90.5	100
A70.ORI	90.5	100
A70.ORI.5	90.5	100
ABNER JACK	100	100
ALENA.AREA	90.5	100
ALV.1MH	145	100
ALV.DUP	112	100
ALV.TS	112	100
ALV.TS.2	102	100
ALV.TS1	112	100
ALVIN.TS	112	100
ALVIN.TS.1	100	100
ALVIN.TS.2	102	100
ALVIN.TS.3	112	100
ALVIN.TS.O	102	100
ANG.1	88	100
ANG.2	88	100
ANG.TS.N	83	100
ANG.TS.O	92	100
ASTLVNG	100	100
ATS.WILK.N	106	100
ATS.WILK.O	102	100
AUTO DLRL	100	100
AUTO DLRS	100	100
AUTO RPR	100	100
BARX	111.5	100
BAYOU.HS	98	100
BCAMP	110.75	100
BCAMP.ARE0	110.75	100
BCAMP.ARE1	110.75	100
BCAMP.ARE2	110.75	100
BCAMP.ARE3	110.75	100
BCAMP.N	110.75	100
BCIC.1O	98	100
BELLWOOD	91.75	100

A0545	81	100
A0545.MH	90	100
A0548.CR89	90.5	100
A0549.ARE0	90.5	100

NBHD CODE	IMP %	LAND %
BOOTH.AREA	97	100
BRIARGLEN.	97	100
BRUNER	97	100
BW.HW	97	100
CAL	112	100
CALL.M	95	100
CALL.N	92	100
CALL.O	103	100
CAN.W	93	100
CANNAN	93	100
CANNAN.380	95	100
CBR.N	98	100
CBR.O	110	100
CC.AREA.N	84	100
CC.AREA.O	106	100
CC.WW.5	98	100
CC.WW.O	98	100
CCL.ORIG	110	100
CFP	78	100
CFP.1	68	100
CFP.M	68	100
CFP.M.3	68	100
CFP.M.4	68	100
CFP.N	68	100
CFP.O	68	100
CFP.O.4	68	100
CHEVY	105	100
CHV.AREA	107	100
CHV.AREA.N	98	100
CL.1	98	100
CL.A66	98	100
CL.N	106	100
CL.NE.R	98	100
CL.NW	84	100
CL.O	93	100
CL.S	98	100
CL.TH	85	100
CLUTE.NW	98	100
CMV.2	98	100
CMV.3	98	100

BELLWOOD.A	93	100
BETHAL.AR0	98	100
BETHAL.AR1	98	100
BH.CONDOS	125	100
BH.HOMES	130	100
BLACKSTONE	98	100
BLUEWATER	155	100
BLUEWATER.	190	100
BOOTH	97	100

NBHD CODE	IMP %	LAND %
COMM	100	100
CP.6	97	100
CQU	97	100
CR 31 AREA	97	100
CR.45	97	100
CR166.ARE0	100	100
CR166.ARE1	107	100
CR28.N	98	100
CR31.AREA	98	100
CR400 SBR	98	100
CR45.46	103	100
CR698	87	100
CSS.N	137	100
CSW.N	103	100
CSW.O	100	100
DAVIS	98	100
DEMI.1	108	100
DEMI.2	78	100
DENT	98	100
DISNEY.ARE	98	100
DIV.17	115	100
DIV.17.2	98	100
DIV.18	98	100
DIV.18.2	98	100
DIV.18.2.N	98	100
DIV9.N	90	100
DIV9.O	108	100
DJ	98	100
DTS	121	100
DTS.M	121	100
DTS.N	110	100
DTS.O	98	100
EARNIE.AC0	98	100
EASTON.AR0	98	100
EASTON.AR1	80	100

CMV.4	98	100
CMV.5	98	100
CMV.6	98	100
CMV.M	111	100
CMV.N	107	100
CMV.O	103	100
COC	97	100
COC.O	97	100
COLONY SQ.	97	100

NBHD CODE	IMP %	LAND %
GLENWOOD	98	100
GREEN.MEAD	98	100
GULF.TERR1	98	100
HIGHLAND P	98	100
HIGHLAND.P	106	100
HINKLE	82	100
HL.ALL	95	100
HL.AREA	95	100
HOTEL	95	100
HP.AREA.N	102	100
IKE	97	100
JC.AREA.N	97	100
JC.AREA.O	97	100
JCR	97	100
JCR.1	97	100
JCR.2	97	100
JCR.3	97	100
JCR.4	97	100
JCR.5	97	100
JCR.6	97	100
JCR.7	97	100
JCR.8	97	100
KRAUSE	97	100
LAS.PLAYAS	97	100
LEEDY.GAT0	117	100
LEEDY.GAT1	110	100
LF.AREA	98	100
LH.N	88	100
LH.O	88	100
LINWOOD	102	100
LJ.1	90	100
LJ.1N	99	100
LJ.2	98	100
LJ.3	96	100
LJ.4	105	100

EASTON.AR2	80	100
ERNIE	97	100
FIGLAND.AR	97	100
FLORA	97	100
FLORA.ARE0	97	100
FLORA.ARE1	97	100
FLORA.ARE2	97	100
FM.521.OLD	97	100
FOX.AREA	83	100
FOX.AREA.A	111	100
FREEPORT.0	98	100
FREEPORT.1	98	100
FREEPORT.N	98	100
GAYLE	102	100

NBHD CODE	IMP %	LAND %
M5.N	105	100
M5.O	97	100
MANV.N	97	100
MANV.O	97	100
MEADOR	100	100
MHP	100	100
MUD	95	100
N0037	101	100
N0037.M	97	100
N0037.N	97	100
N0037.O	97	100
N2750	97	100
N2760	97	100
N3465	97	100
N4480	117	100
N4480.N	93	100
N7680.81	103	100
N8267.8276	119	100
NA0415	98	100
NHD3253.71	95	100
NHD8175	95	100
NORTHRIDGE	92	100
NROTHRIDGE	92	100
OAKBROOK	92	100
OAKBROOK.N	95	100
OAKBROOK.O	95	100
OAKF.AREA0	87.75	100
OAKF.AREA1	87.75	100
OAKWOOD	96	100
OAKWOOD.A0	96	100

LJ.FARMS	97	100
LJF	97	100
LJF.AREA.0	97	100
LJF.AREA.1	97	100
LJF.AREA.2	97	100
LJF.AREA.3	97	100
LOGGINS	97	100
LP	83	100
LP.AREA.N	80	100
LP.AREA.O	82	100
LP.MH	80	100
M.03	95	100
M18	100	100
M21	90	100

NBHD CODE	IMP %	LAND %
QB.N	95	100
RICH.RAY	98	100
RICHLAND	98	100
ROSHARON.N	70	100
ROSHARON.O	70	100
ROY.ACRES	93	100
RPALMS	85	100
RUSTIC MEA	92	100
RW	80	100
S1100	98	100
S1160.61.6	98	100
S1170	98	100
S1170.N	98	100
S1180	98	100
S1190	98	100
S1191	98	100
S1191.1194	98	100
S1193.AREA	95	100
S1194	98	100
S1194.5	98	100
S1194.O	98	100
S1195	98	100
S1235	112	100
S1262	81	100
S1263	94	100
S1280	88	100
S1305	88	100
S1307	88	100
S1330	105	100
S1332	108	100

OAKWOOD.A1	96	100
OAKWOOD.A2	96	100
OLD.OCEAN	96	100
OWENS.ARE0	104	100
OWENS.ARE1	104	100
OWENS.ARE2	97	100
PARKVIEW	100	100
PEARLAND.N	97	100
PEARLAND.O	97	100
PECAN.OAKS	105	100
PINEHOLLOW	83	100
PLD-ABST	97	100
PP	97	100
PRA	70	100
PRA.N	70	100
PTS.M	110	100
PTS.N	100	100
PTS.O	115	100
QB	95	100

S1333	98	100
S1335	93	100
S1335.4020	102	100
S1345	90	100
S1345.3490	95	100
S1362	98	100
S1370	98	100
S1415	98	100
S1417	90	100
S1420	107	100
S1422	114	100
S1425.03.5	98	100
S1427	86	100
S1427.03	97	100
S1427.03.5	97	100
S1427.03.6	97	100
S1427.1	97	100
S1427.2	97	100
S1427.3	97	100

NBHD CODE	IMP %	LAND %
S1427.5	97	100
S1427.6	97	100
S1430	97	100
S1440	97	100
S1460.6830	90	100
S1529	95	100
S1530	95	100
S1534	88	100
S1560	63	100
S1570	96	100
S1590	96	100
S1595	96	100
S1600	96	100
S1610	96	100
S1620	96	100
S1621	96	100
S1640	96	100
S1640.AREA	96	100
S1655	103	100
S1660	97	100
S1667	97	100
S1668	97	100
S1670	97	100
S1670.6616	97	100
S1671	97	100

NBHD CODE	IMP %	LAND %
S1901	94	100
S1902	94	100
S1903	94	100
S1940	94	100
S1980	94	100
S2010	94	100
S2020	94	100
S2050	94	100
S2051	94	100
S2052	94	100
S2060	94	100
S2065	94	100
S2066	111	100
S2067	73	100
S2070	95	100
S2070.71	95	100
S2071	95	100
S2080	95	100
S2090	87	100
S2101	95	100
S2113	95	100
S2140	111	100
S2140.N	84	100
S2141	100	100
S2145	118	100

S1690	97	100
S1695	88	100
S1700	102	100
S1710	98	100
S1745	86	100
S1760	97	100
S1765	97	100
S1765.A.N	101	100
S1765.A.O	102	100
S1769	97	100
S1770	97	100
S1775	97	100
S1776	97	100
S1780	97	100
S1800	105	100
S1804	95	100
S1850.AREA	102	100
S1880	95	100
S1883	95	100
S1890	95	100
S1890.MH	90	100
S1890.R	94	100
S1895	94	100
S1900	94	100

S2148	94	100
S2148.7285	94	100
S2149	94	100
S2150	100	100
S2151.2978	102	100
S2155	98	100
S2155.56.A	102.5	100
S2155.56.N	106	100
S2155.H	94	100
S2155.P	94	100
S2156	94	100
S2158	94	100
S2170	94	100
S2180	94	100
S2180.4145	94	100
S2190	94	100
S2190.C	94	100
S2192	94	100
S2194.N	109	100
S2194.O	91	100
S2196.8090	98	100
S2196.N	98	100
S2210	94	100
S2215	104	100

NBHD CODE	IMP %	LAND %
S2217	88	100
S2217.18	95	100
S2220	97	100
S2240	97	100
S2250	97	100
S2255	97	100
S2260	97	100
S2265	97	100
S2267	97	100
S2270	97	100
S2280	97	100
S2325	97	100
S2337	97	100
S2340	97	100
S2345	97	100
S2345.AREA	97	100
S2348	97	100
S2355	97	100
S2355.2356	97	100
S2356	97	100

NBHD CODE	IMP %	LAND %
S2580.2901	81.5	100
S2583	81.5	100
S2590	97	100
S2590.N	97	100
S2590.O	97	100
S2618	97	100
S2620	97	100
S2670	97	100
S2671	97	100
S2672	97	100
S2675	97	100
S2675.8320	97	100
S2700	108	100
S2719	97	100
S2750	97	100
S2750.51	97	100
S2751	97	100
S2765	97	100
S2775	101	100
S2802	92	100

S2370	91	100
S2372	97	100
S2380	97	100
S2380.N	97	100
S2380.O	97	100
S2381	97	100
S2390	97	100
S2400	97	100
S2415	95	100
S2415.03	91	100
S2416	91	100
S2417	91	100
S2420	91	100
S2430	98	100
S2440	98	100
S2445.0380	98	100
S2450.N	98	100
S2450.O	98	100
S2450.O4	98	100
S2450.O5	98	100
S2451	80	100
S2500	97	100
S2511	97	100
S2540	97	100
S2550	97	100
S2570	97	100
S2575	97	100
S2580	81.5	100
S2580.2900	81.5	100

NBHD CODE	IMP %	LAND %
S2900	103	100
S2901	98	100
S2901.N	98	100
S2901.N4	98	100
S2901.N5	98	100
S2901.N6	98	100
S2901.O	98	100
S2901.O4	98	100
S2901.O5	98	100
S2901.TH	98	100
S2901.THS	98	100
S2910	98	100
S2950.0622	98	100
S2960	98	100
S2965	98	100

S2802]	92	100
S2810	97	100
S2810.2811	97	100
S2811	97	100
S2820	62	100
S2835	97	100
S2840	97	100
S2843	105	100
S2843.1	103	100
S2843.2	103	100
S2843.N	103	100
S2843.O	103	100
S2845	97	100
S2845.N	102	100
S2845.O	115	100
S2850	97	100
S2850.AREA	100	100
S2860	98	100
S2867	98	100
S2869	98	100
S2870	98	100
S2871	98	100
S2871.72	98	100
S2872	98	100
S2873	98	100
S2873.286	98	100
S2877	98	100
S2877.6600	98	100
S2879	98	100

NBHD CODE	IMP %	LAND %
S2988.5	102.5	100
S2988.6	97	100
S2988.7	102.5	100
S2988.8	102.5	100
S2988.9	102.5	100
S2989	97	100
S2990	97	100
S2993	97	100
S2995	97	100
S3000	97	100
S3000.N	97	100
S3000.O	97	100
S3010	97	100
S3015	97	100
S3016	95	100

S2970	108	100
S2971	102	100
S2972	97	100
S2974	97	100
S2975	97	100
S2976	97	100
S2977	97	100
S2977.ARE0	104	100
S2977.ARE1	97	100
S2977.ARE2	97	100
S2978	97	100
S2980	97	100
S2981.A017	97	100
S2982.0411	97	100
S2983	97	100
S2984	97	100
S2984.03	97	100
S2984.04	97	100
S2984.05	97	100
S2984.L	97	100
S2985	97	100
S2985.N	97	100
S2985.O	97	100
S2986	97	100
S2987	97	100
S2988	102.5	100
S2988.1	102.5	100
S2988.10	102.5	100
S2988.11	102.5	100
S2988.12	102.5	100
S2988.13	102.5	100
S2988.2	102.5	100
S2988.3	102.5	100
S2988.4	102.5	100

NBHD CODE	IMP %	LAND %
S3140.D	97	100
S3140.E	97	100
S3140.N	97	100
S3140.N3	97	100
S3140.N4	97	100
S3140.N5	97	100
S3140.N6	97	100
S3140.O	97	100
S3140.O3	97	100
S3140.O4	97	100

S3030	97	100
S3033	92	100
S3035	97	100
S3035.N	97	100
S3035.O	97	100
S3040	97	100
S3049	97	100
S3050	97	100
S3050.51	112	100
S3051	97	100
S3055	95	100
S3070.AREA	107	100
S3070.N	97	100
S3070.O	97	100
S3075	97	100
S3080	97	100
S3094	97	100
S3096	91	100
S3097	97	100
S3098	83	100
S3099.1	93	100
S3099.INT	91.5	100
S3099.L	96	100
S3100.AREA	84	100
S3104.05	97	100
S3140	97	100
S3140.1	97	100
S3140.2	97	100
S3140.3	97	100
S3140.4	97	100
S3140.5	97	100
S3140.A	97	100
S3140.B	97	100
S3140.C	97	100

NBHD CODE	IMP %	LAND %
S3651	98	100
S3690	98	100
S3710	98	100
S3710.11	98	100
S3711	98	100
S3730	98	100
S3740	98	100
S3741	98	100
S3760	98	100
S3770	117	100

S3140.O5	97	100
S3142	97	100
S3145	110	100
S3145.N	97	100
S3150	93	100
S3190	101	100
S3200	97	100
S3200.4360	97	100
S3210	97	100
S3211	97	100
S3253	97	100
S3260	97	100
S3270	108	100
S3270.N	98	100
S3270.O	98	100
S3290	98	100
S3340	98	100
S3350	98	100
S3351	98	100
S3410	98	100
S3420	98	100
S3440	98	100
S3450.51	98	100
S3451	98	100
S3460	98	100
S3460.N	98	100
S3460.O	98	100
S3465	93	100
S3465.8424	98	100
S3467	91	100
S3470	98	100
S3485	98	100
S3490	98	100
S3540	98	100
S3560	98	100
S3560.4730	83	100
S3570	98	100
S3590	98	100
S3620	98	100

NBHD CODE	IMP %	LAND %
S4115	97	100
S4115.05	107	100
S4115.06	107	100
S4115.06.L	107	100
S4115.06.N	107	100

S3790.91	97	100
S3795	94	100
S3940	98	100
S3948	98	100
S3949	98	100
S3949.AREA	98	100
S3951	91	100
S3952	98	100
S3954	98	100
S3956	98	100
S3960	98	100
S3970.71	104	100
S3971	98	100
S3991	98	100
S4000	98	100
S4010	98	100
S4012	98	100
S4020	98	100
S4020.1335	98	100
S4025	98	100
S4025.27	97	100
S4025.27.N	98	100
S4025.27.O	98	100
S4027	98	100
S4030	98	100
S4030.5	103	100
S4030.6	92	100
S4050	98	100
S4052	98	100
S4075	98	100
S4080	98	100
S4090	93	100
S4100	97	100
S4105	97	100
S4105.N	97	100
S4105.O	97	100
S4110	107	100
S4110.11	97	100
S4111	97	100

NBHD CODE	IMP %	LAND %
S4364	97	100
S4390	97	100
S4392	97	100
S4395	97	100
S4430	97	100

S4115.06.P	107	100
S4115.1	106	100
S4115.2	97	100
S4115.3	92.5	100
S4118	97	100
S4118.4	108	100
S4118.5	97	100
S4118.8429	115	100
S4126	97	100
S4127.0497	102	100
S4132	97	100
S4132.33	90	100
S4133	97	100
S4140	97	100
S4141	97	100
S4143	86	100
S4150	97	100
S4160	97	100
S4161	97	100
S4163	96	100
S4187.88.N	114	100
S4187.88.O	110	100
S4188	107	100
S4190	96	100
S4192	96	100
S4200	96	100
S4201	96	100
S4217	96	100
S4220	96	100
S4250	80	100
S4270	95	100
S4271.AREA	95	100
S4290	96	100
S4330	96	100
S4332	96	100
S4340	96	100
S4340.N	96	100
S4340.O	96	100
S4341.N	96	100
S4341.O	96	100
S4345	96	100
S4350	94	100
S4360	97	100
S4361	97	100

NBHD CODE	IMP %	LAND %

S4440	120	100
S4443	95	100
S4446.AREA	102	100
S4447	120	100
S4448	97	100
S4448.AREA	105	100
S4450	100	100
S4455	100	100
S4461	96	100
S4465	96	100
S4466	96	100
S4480	96	100
S4500	96	100
S4501	96	100
S4503	96	100
S4520	96	100
S4550	96	100
S4555	96	100
S4560	96	100
S4590	88	100
S4600	96	100
S4610	117	100
S4620	96.5	100
S4628	96.5	100
S4630	96.5	100
S4660	96.5	100
S4670	96.5	100
S4670.7695	96.5	100
S4695	96.5	100
S4700	96.5	100
S4710.6490	96.5	100
S4710.6491	96.5	100
S4710.6492	96.5	100
S4720	96.5	100
S4725.26	96.5	100
S4730	96.5	100
S4740	93	100
S4740.1100	93	100
S4740.WF	93	100
S4760.62	83	100
S4761	96	100
S4763	96	100
S4775	96	100
S4780.7745	96	100

NBHD CODE	IMP %	LAND %

S4803	96	100
S4803.AREA	96	100
S4805	100	100
S4806	97	100
S4808	97	100
S4808.09	97	100
S4809	119	100
S4810	97	100
S4811	97	100
S4818	97	100
S4820	103	100
S4821	112	100
S4823	115	100
S4825	97	100
S4840	97	100
S4840.41	97	100
S4860	97	100
S4860.N	97	100
S4860.O	97	100
S4861	97	100
S4870	125	100
S4870.N	95	100
S4870.O	95	100
S4875	95	100
S4880	95	100
S4885	78	100
S4887	97	100
S4900	97	100
S4901	97	100
S4901.02	97	100
S4902	97	100
S4940	97	100
S4980	97	100
S4990	97	100
S4990.N	97	100
S5000	97	100
S5010	96	100
S5010.AREA	97	100
S5031	97	100
S5035	97	100
S5035.7870	97	100
S5042	97	100
S5140	97	100
S5140.R	97	100
S5150	97	100
S5152	97	100
S5155	97	100

S5170	103	100
S5171	97	100
S5175	97	100
S5190	97	100
S5210	97	100
S5212	60	100
S5230	95	100
S5240	83	100
S5270	95	100
S5286	95	100
S5310	95	100
S5311	95	100
S5313	75	100
S5320	97	100
S5321.22	97	100
S5330	97	100
S5334	103	100
S5335	104	100
S5340	95	100
S5340.B	95	100
S5340.N	95	100
S5340.TH	95	100
S5340.THS	95	100
S5384	95	100
S5385	95	100
S5410	95	100
S5410.N	95	100
S5410.O	95	100
S5433	95	100
S5450	95	100
S5455	95	100
S5460	87	100
S5460.M	87	100
S5460.R	87	100
S5465	87	100
S5470	93	100
S5530	90	100
S5539.40	90	100
S5580	80	100
S5638	95	100
S5640	95	100
S5640.ARE0	95	100
S5640.ARE1	95	100
S5642	95	100
S5650	95	100
S5690	78	100
S5695	97	100

S5157	97	100
S5160	97	100

NBHD CODE	IMP %	LAND %
S5726	97	100
S5742	76	100
S5750.6930	97	100
S5750.6931	97	100
S5750.N	97	100
S5750.O	97	100
S5763	108	100
S5770	97	100
S5790	97	100
S5792	97	100
S5793	97	100
S5796	102	100
S5850.A	110	100
S5850.A3	97	100
S5850.A4	97	100
S5850.A5	97	100
S5850.B	108	100
S5850.C	108	100
S5850.D	108	100
S5850.E	108	100
S5850.E3	95	100
S5850.E4	95	100
S5850.F	95	100
S5850.NEW	95	100
S6000.4764	95	100
S6010	95	100
S6030	95	100
S6035.G	91	100
S6035.G.GT	91	100
S6035.GC	91	100
S6035.INT	91	100
S6035.INT.	91	100
S6035.L	91	100
S6035.L.GT	97	100
S6050	97	100
S6060	105	100
S6065	105	100
S6070.R	123	100
S6071.C	100	100
S6071.I	100	100
S6077	110	100
S6080	100	100

S5700	92	100
S5725	97	100

NBHD CODE	IMP %	LAND %
S6120.0366	97	100
S6131	97	100
S6140	97	100
S6140.1	97	100
S6140.LEED	97	100
S6140.N	97	100
S6140.O	97	100
S6140.O5	97	100
S6141.LEED	97	100
S6142.LEED	97	100
S6150	97	100
S6165	97	100
S6200	97	100
S6210	97	100
S6215	97	100
S6220	97	100
S6220.7260	58	100
S6220.N	97	100
S6220.O	97	100
S6230	97	100
S6260	97	100
S6261	97	100
S6263	97	100
S6270	97	100
S6275	97	100
S6291	97	100
S6292	97	100
S6300	97	100
S6315	97	100
S6322	97	100
S6325	97	100
S6325.AREA	97	100
S6327	97	100
S6360	97	100
S6370	94	100
S6375	97	100
S6375.N	97	100
S6375.O	97	100
S6384	103	100
S6384.7131	103	100
S6388	97	100
S6398	97	100

S6090	100	100
S6100	125	100
S6105	86	100
S6109	97	100
S6110	97	100
S6111	97	100
S6120	97	100

NBHD CODE	IMP %	LAND %
S6410	97	100
S6414	97	100
S6415	97	100
S6425	97	100
S6430	97	100
S6432	97	100
S6435	97	100
S6436.37	97	100
S6438	82	100
S6465	95	100
S6480.MH	95	100
S6485	95	100
S6490	95	100
S6495	95	100
S6495.1	103	100
S6495.2	103	100
S6498	93	100
S6500	95	100
S6505	95	100
S6506	95	100
S6512	95	100
S6515	95	100
S6515.8340	95	100
S6515.8341	95	100
S6520	95	100
S6525	95	100
S6530	95	100
S6531	95	100
S6545	95	100
S6546	95	100
S6550	95	100
S6552	105	100
S6552.1	105	100
S6552.2	105	100
S6552.CLOV	105	100
S6552.GNVW	105	100
S6552.N	105	100

S6398.1	97	100
S6398.LOVE	97	100
S6398.M	97	100
S6399	97	100
S6405	97	100
S6405.N	97	100
S6405.O	97	100

NBHD CODE	IMP %	LAND %
S6569.7130	97	100
S6569.7131	97	100
S6580	103	100
S6580.1	97	100
S6580.2	97	100
S6580.3	97	100
S6585	97	100
S6587	92	100
S6590	97	100
S6600	97	100
S6600.4	97	100
S6600.5	97	100
S6613	110	100
S6613.N	106	100
S6613.O	106	100
S6615	97	100
S6616	97	100
S6624	97	100
S6635.36	93	100
S6648	88	100
S6649	92	100
S6649.8309	83	100
S6650.N	97	100
S6675	97	100
S6682	97	100
S6685	100	100
S6710	97	100
S6720	97	100
S6726	84	100
S6727	97	100
S6728	97	100
S6730	97	100
S6741	93	100
S6745	97	100
S6751	97	100
S6757	97	100
S6760	100	100

S6552.NEW	100	100
S6552.O	106	100
S6553	97	100
S6553.02	97	100
S6553.MH	97	100
S6555	113	100
S6555.N	97	100
S6558	97	100
S6560	97	100
S6562	97	100
S6565.ALL	97	100
S6569	108	100

S6767	91	100
S6775.76	80	100
S6776	93	100
S6777	80	100
S6780	107	100
S6785	97	100
S6802.1180	75	100
S6804	97	100
S6808	97	100
S6809	97	100
S6810	97	100
S6811	97	100

NBHD CODE	IMP %	LAND %
S6813	97	100
S6813.N	97	100
S6813.O	97	100
S6814	91	100
S6815.0319	97	100
S6819	97	100
S6820	97	100
S6820.4520	97	100
S6824	97	100
S6825	97	100
S6825.N	97	100
S6825.O	97	100
S6827	97	100
S6828	68	100
S6833	95	100
S6834	97	100
S6835	97	100
S6837	97	100
S6838	97	100
S6838.39	97	100
S6839	97	100
S6840	97	100
S6840.41.N	97	100
S6840.41.O	97	100
S6841	97	100
S6842	93	100
S6843	106	100
S6848	97	100
S6851	97	100
S6853	97	100
S6855	97	100
S6865	97	100

NBHD CODE	IMP %	LAND %
S6938	97	100
S6940	94	100
S6943	95	100
S6944	94	100
S6945	97	100
S6946	97	100
S6950	97	100
S6950.51.5	97	100
S6951	97	100
S6952	97	100
S6955	97	100
S6955.35	103	100
S6985	97	100
S6990	91.5	100
S6993	93	100
S6995	97	100
S7004	97	100
S7004.05.0	97	100
S7004.RG	97	100
S7005	97	100
S7005.1	97	100
S7006	97	100
S7007	88	100
S7010	97	100
S7010.11	97	100
S7011	97	100
S7015	103	100
S7016	87	100
S7020	89	100
S7025	97	100
S7031	96	100
S7035	97	100

S6872	97	100
S6874	122	100
S6895	97	100
S6895.96	97	100
S6896	97	100
S6900	97	100
S6905	97	100
S6905.AREA	97	100
S6907	103	100
S6910	97	100
S6920	97	100
S6923	97	100
S6926	97	100
S6933	111	100
S6935	97	100
S6936	97	100
S6937	97	100

S7036	97	100
S7038	97	100
S7039	97	100
S7040	97	100
S7041	97	100
S7041.42.4	97	100
S7041.A	97	100
S7042	97	100
S7043	97	100
S7050.0421	97	100
S7052	70	100
S7060	103	100
S7065	97	100
S7067	97	100
S7075	97	100
S7081	97	100
S7095	97	100

NBHD CODE	IMP %	LAND %
S7121	97	100
S7122	97	100
S7123	97	100
S7124.MH	140	100
S7125	97	100
S7126	105	100
S7126.AREA	105	100
S7127	105	100
S7127.5N	105	100
S7127.5O	105	100
S7127.6	105	100
S7128	97	100
S7128.1	97	100
S7128.2	97	100
S7128.4	97	100
S7128.5	97	100
S7128.N	100	100
S7128.O	101	100
S7129	103	100
S7129.L	97	100
S7129.U	97	100
S7130	97	100
S7131	97	100
S7133	102	100
S7133.03	97	100
S7133.03.O	97	100
S7133.09	97	100

NBHD CODE	IMP %	LAND %
S7167.6985	104	100
S7174	98	100
S7176	98	100
S7176.N	98	100
S7177	98	100
S7177.1	98	100
S7177.2	98	100
S7177.3	98	100
S7177.N	101.5	100
S7177.O	105	100
S7178	97	100
S7180	97	100
S7182	97	100
S7182.5796	85	100
S7183	97	100
S7186	97	100
S7188	93	100
S7190	98	100
S7190.ARE0	98	100
S7190.ARE1	98	100
S7194	98	100
S7195	98	100
S7198	98	100
S7200.7039	93	100
S7237	98	100
S7240	98	100
S7240.N	98	100

S7133.19	97	100
S7133.21	97	100
S7134	97	100
S7134.N	97	100
S7134.O	97	100
S7136	97	100
S7138	97	100
S7139	97	100
S7140	97	100
S7142	97	100
S7142.AREA	97	100
S7143	97	100
S7146	97	100
S7148	97	100
S7150	97	100
S7151	105	100
S7157	98	100
S7158	98	100
S7160	98	100
S7161	98	100
S7162	98	100
S7165	98	100

S7245	98	100
S7250	98	100
S7250.1	98	100
S7250.2	98	100
S7250.5-	98	100
S7250.5	98	100
S7252	98	100
S7255	98	100
S7256	98	100
S7265	88	100
S7270	123	100
S7272	97	100
S7274	97	100
S7280	97	100
S7285	92	100
S7290	97	100
S7292	97	100
S7294	97	100
S7294.95	97	100
S7296	97	100
S7300	97	100
S7301	97	100

NBHD CODE	IMP %	LAND %
S7303	111	100
S7304	62	100
S7305	73	100
S7306	93	100
S7306.1	93	100
S7307	115	100
S7308	97	100
S7308.R	97	100
S7310	68	100
S7311	105	100
S7311.N	108	100
S7311.O	108	100
S7315	97	100
S7328	97	100
S7331	97	100
S7333	94	100
S7333.34	87	100
S7334	93	100
S7341	97	100
S7343	97	100
S7344	108	100
S7345	97	100

NBHD CODE	IMP %	LAND %
S7448	97	100
S7451	97	100
S7452	83	100
S7453	97	100
S7454	86	100
S7455	95	100
S7457	77	100
S7457.5.6	81.5	100
S7457.61.6	98	100
S7458	102	100
S7459	98	100
S7460	98	100
S7461	73	100
S7462	76	100
S7464	76	100
S7475	97	100
S7480	97	100
S7481	97	100
S7486	97	100
S7488	97	100
S7488.547M	97	100
S7488.A054	97	100

S7363	97	100
S7365	97	100
S7366	97	100
S7367	97	100
S7370	97	100
S7372	97	100
S7373	97	100
S7374	97	100
S7374.R	97	100
S7380	97	100
S7385.AREA	103	100
S7395	98	100
S7397	98	100
S7399	98	100
S7415	98	100
S7430	128	100
S7430.BAY	97	100
S7430.BW	97	100
S7433	97	100
S7435	80	100
S7440	80	100
S7440.AREA	95	100
S7443	95	100
S7444	80	100
S7444.45	80	100
S7445	80	100
S7446.6480	97	100

S7490	97	100
S7493	93	100
S7493.3	93	100
S7493.94	97	100
S7494	92.5	100
S7495	97	100
S7501	97	100
S7502	97	100
S7502.1	97	100
S7502.2	97	100
S7502.3	97	100
S7502.4	97	100
S7502.5	97	100
S7502.6	97	100
S7502.7	97	100
S7504.ARE0	106	100
S7504.ARE1	106	100
S7507	93	100
S7509	97	100
S7510	117	100
S7511	98	100
S7511.N	98	100
S7515.AREA	113	100
S7520	96	100
S7521	96	100
S7530	96	100
S7533	96	100

NBHD CODE	IMP %	LAND %
S7541	96	100
S7542	96	100
S7543	96	100
S7545	96	100
S7550	96	100
S7553	96	100
S7558	96	100
S7560	96	100
S7564	96	100
S7565	96	100
S7566	96	100
S7567	105	100
S7567.7890	105	100
S7568	97	100
S7569	91	100
S7580	97	100
S7581	97	100

NBHD CODE	IMP %	LAND %
S7680	97	100
S7680.81	97	100
S7685.86.N	97	100
S7685.86.O	100	100
S7687	97	100
S7687.MH	97	100
S7688	97	100
S7689	93.5	100
S7689.1	93.5	100
S7689.10	93.5	100
S7689.11	93.5	100
S7689.12	93.5	100
S7689.13	93.5	100
S7689.2	93.5	100
S7689.3	93.5	100
S7689.5	93.5	100
S7689.6	93.5	100

S7582	97	100
S7582.1	103	100
S7582.2	97	100
S7582.3	97	100
S7582.5	97	100
S7582.6	97	100
S7582.6P	97	100
S7585	97	100
S7588	94.5	100
S7592	111	100
S7592.A	97	100
S7592.B	97	100
S7592.C	97	100
S7594	91.5	100
S7595	97	100
S7615	97	100
S7617	97	100
S7618	97	100
S7621	97	100
S7621.1	97	100
S7621.2	97	100
S7621.5	97	100
S7621.6	97	100
S7622	97	100
S7625	97	100
S7632	112	100
S7633	97	100
S7636	97	100
S7642	97	100
S7643	97	100
S7645	73	100
S7647	97	100

S7689.7	93.5	100
S7689.8	93.5	100
S7689.9	93.5	100
S7689.N	93.5	100
S7689.O	96	100
S7689.O.5	96	100
S7689E	95	100
S7690	97	100
S7692	97	100
S7695	97	100
S7696	113	100
S7698	97	100
S7699.MH	97	100
S7699.R	97	100
S7705	97	100
S7708	96	100
S7708.1	106	100
S7708.2	97	100
S7709-	92	100
S7709	90	100
S7710	88	100
S7712	88	100
S7712.3.4	88	100
S7712.5	90	100
S7712.7	97	100
S7713	90	100
S7715	97	100
S7720	103	100
S7725	94	100
S7726	97	100
S7735	105	100
S7744	95	100

NBHD CODE	IMP %	LAND %
S7750	76	100
S7752	105	100
S7753	90	100
S7755	97	100
S7756.01	97	100
S7756.02	97	100
S7756.03	97	100
S7756.04	97	100
S7756.05	97	100
S7756.07	97	100
S7756.07.1	97	100
S7756.07.2	97	100

NBHD CODE	IMP %	LAND %
S7851	98	100
S7852.53	101	100
S7854	104	100
S7855	97	100
S7856	97	100
S7856.8183	90	100
S7857	97	100
S7860	97	100
S7861	110	100
S7864	87	100
S7864.1	87	100
S7864.2	87	100

S7756.08	97	100
S7756.09	97	100
S7756.1	97	100
S7756.2	97	100
S7756.3	93	100
S7756.N	95	100
S7756.SEC5	96	100
S7757	93	100
S7757.8326	93	100
S7757.AREA	93	100
S7758	93	100
S7765	97	100
S7780	97	100
S7789	97	100
S7789.0506	97	100
S7790	97	100
S7791	85	100
S7791.1	90	100
S7791.2	92	100
S7791.3	85	100
S7791.4	80	100
S7791.5	97	100
S7791.5+	97	100
S7791.6-	91	100
S7791.6	97	100
S7791.7	97	100
S7795	93	100
S7797	97	100
S77976	97	100
S7800	97	100
S7800.N	97	100
S7800.O	104	100
S7815	97	100
S7815.17	108	100
S7817	108	100
S7825	93	100
S7849	98	100

NBHD CODE	IMP %	LAND %
S8020	97	100
S8035	97	100
S8039	85	100
S8042.41.4	97	100
S8043.44	86	100
S8045	97	100
S8045.46	97	100

S7864.3	87	100
S7864.4.5	87	100
S7866	95	100
S7868	92.5	100
S7870	97	100
S7874	97	100
S7875	97	100
S7876	97	100
S7877	97	100
S7878	97	100
S7879	97	100
S7890	97	100
S7895	97	100
S7915	97	100
S7930	97	100
S7930.3948	102	100
S7933.34	98	100
S7937	98	100
S7938	95	100
S7943	95	100
S7948	98	100
S7950	98	100
S7951	98	100
S7976	117	100
S7977.7975	98	100
S7981	101	100
S7981.C	101	100
S7981.MANO	101	100
S7981.T	101	100
S7981.TH	104	100
S7982	117	100
S7986	93	100
S7987	93	100
S7990	93	100
S8000	101	100
S8002	97	100
S8005	97	100

NBHD CODE	IMP %	LAND %
S8144	97	100
S8145	97	100
S8162	97	100
S8175	97	100
S8180	97	100
S8181	85	100
S8182	97	100

S8045.46.4	97	100
S8046	97	100
S8047G	97	100
S8050	97	100
S8050.51	97	100
S8050.51.0	97	100
S8051	97	100
S8055	97	100
S8060	97	100
S8063	81	100
S8068	95	100
S8068.2	97	100
S8070	97	100
S8071	112	100
S8072	97	100
S8073	97	100
S8074	97	100
S8075	97	100
S8078	97	100
S8089	97	100
S8095	97	100
S8105	98	100
S8110	88	100
S8120	98	100
S8125	98	100
S8127	98	100
S8128	98	100
S8128.R	98	100
S8129	89.5	100
S8135	102.5	100
S8135.1	98	100
S8135.2	98	100
S8135.N	98	100
S8135.O	98	100
S8137	98	100
S8137.1	97	100
S8137.2	97	100
S8137.3	97	100
S8137.4	97	100
S8138	97	100
S8141	97	100
S8143	97	100

NBHD CODE	IMP %	LAND %
S8276	97	100
S8280	97	100

S8183	97	100
S8215	93.5	100
S8217	97	100
S8217.N	97	100
S8217.O	97	100
S8220	97	100
S8220.ARE0	97	100
S8220.ARE1	97	100
S8220.N	97	100
S8220.O	97	100
S8221	97	100
S8225	97	100
S8225.M	97	100
S8225.N	97	100
S8225.O	97	100
S8225.O.03	97	100
S8230	97	100
S8230.N	97	100
S8230.O	97	100
S8233	97	100
S8234	97	100
S8238	97	100
S8238.N	102	100
S8238.O	97	100
S8240	97	100
S8242	97	100
S8243	97	100
S8243.1	97	100
S8243.2	97	100
S8243.3	97	100
S8244	97	100
S8246	97	100
S8247	94.5	100
S8250	97	100
S8255	97	100
S8260	97	100
S8261	97	100
S8262	97	100
S8266	97	100
S8267	100	100
S8268	97	100
S8274	97	100

NBHD CODE	IMP %	LAND %
S8424.N	102	100
S8425	97	100

S8283	112	100
S8285	97	100
S8290	97	100
S8300	97	100
S8300.N	97	100
S8300.O	97	100
S8301	97	100
S8302	93	100
S8308	97	100
S8310	97	100
S8320	97	100
S8321	97	100
S8323	97	100
S8326	97	100
S8328	97	100
S8330	97	100
S8345	97	100
S8346	94.5	100
S8346.ARE0	94.5	100
S8346.ARE1	94.5	100
S8346.R	94.5	100
S8350	94.5	100
S8356	94.5	100
S8375	94.5	100
S8380	94.5	100
S8385	83	100
S8387	97	100
S8390	97	100
S8390.2	97	100
S8390.N	97	100
S8390.O	100	100
S8400	97	100
S8403	97	100
S8404.6805	97	100
S8410	97	100
S8410.03	97	100
S8415	97	100
S8420	97	100
S8421	105	100
S8424	105	100
S8424.1	97	100
S8424.2	97	100
S8424.3	97	100
S8424.4	97	100
S8424.7120	97	100
S8424.7121	97	100
S8424.7122	97	100

S8426	97	100
S8426.27.A	97	100
S8427	97	100
S8429	97	100
S8431	97	100
S8432	97	100
S8445	101	100
S8450	97	100
SAL	113	100
SAL.MH.ABS	155	100
SAL.MH.SU0	100	100
SAL.MH.SU1	145	100
SAL.MH.SU2	145	100
SAL.N	117	100
SAL.NE	108	100
SAL.NW	97	100
SAL.SE	100	100
SAL.SW	107	100
SAN.05	97	100
SAN.ABS.1	97	100
SAN.ABS.2	97	100
SAN.ABS.3	97	100
SAN.ABS.4	97	100
SAN.ABS.5	97	100
SAN.ABS.6	97	100
SAN.ABS.N	97	100
SAN.ABS.O4	97	100
SAN.ABS.O5	97	100
SAN.ABST	97	100
SAN.MH	110	100
SAN.MH.ABS	110	100
SAN.MH.SUB	110	100
SAN.N	110	100
SAN.N3	97	100
SAN.N4	97	100
SAN.N5	97	100
SAN.N6	97	100
SAN.O	109	100
SAN.O3	95	100
SAN.O4	95	100
SAN.O5	95	100
SAN.O6	95	100
SAN1	95	100
SAN2	95	100
SAN3	95	100
SAN4	95	100
SAN5	95	100

NBHD CODE	IMP %	LAND %
SAN6	95	100
SAN7	95	100
SAN8	95	100
SANCHEZ	83	100
SBR.ABST	97	100
SBR.MH	90	100
SBR.N3	97	100
SBR.N4	97	100
SBR.N5	97	100
SBR.N6	97	100
SBR.O3	97	100
SBR.O4	97	100
SBR.O5	97	100
SBR.O6	97	100
SBR1	97	100
SBR2	97	100
SBR3	97	100
SBR4	97	100
SBR5	97	100
SBR6	97	100
SBR7	97	100
SBR8	97	100
SCB.MH.SUB	97	100
SCB.N	78	100
SCB.O	88	100
SCB.RIVER	116	100
SCB1	97	100
SCHV	97	100
SCHV.161	97	100
SCHV.161.N	97	100
SCHV.161.O	97	100
SCHV.A0161	97	100
SCHV.N	97	100
SCHV.O	97	100
SCR.1	97	100
SCR.10	97	100
SCR.11	97	100
SCR.12	97	100
SCR.13	97	100
SCR.14	97	100
SCR.15	97	100
SCR.16	97	100
SCR.2	97	100
SCR.3	97	100

NBHD CODE	IMP %	LAND %
SCR.9	97	100
SCR1	91	100
SCR16B	100	100
SCR2	96	100
SCR3	85	100
SCR4	88	100
SCR5	98	100
SCR6	94	100
SCR7	95	100
SCR8	88	100
SCR9	95	100
SCRTEST	100	100
SDA	97	100
SDA.ABST	95	100
SDA.N	97	100
SDB.ABS.N	97	100
SDB.ABS.O0	97	100
SDB.ABS.O1	97	100
SDB.ABST	97	100
SDB.MH	95	100
SDB.N	108	100
SDB.N3	98	100
SDB.N4	98	100
SDB.N5	98	100
SDB.N6	98	100
SDB.O	104	100
SDB.O3	98	100
SDB.O4	98	100
SDB.O5	98	100
SDB.O6	98	100
SDB1	98	100
SDB2	98	100
SDB3	98	100
SDB4	98	100
SDB5	98	100
SDB6	98	100
SF 11	96	100
SF1	91	100
SF10	100	100
SF12	97	100
SF12.13.17	103	100
SF13	100	100
SF14	94	100
SF14A	99	100

SCR.4	97	100
SCR.5	97	100
SCR.6	85	100
SCR.7	97	100
SCR.8	97	100

NBHD CODE	IMP %	LAND %
SF17	102	100
SF18	93.5	100
SF19.20	96	100
SF2	107.5	100
SF21	93	100
SF22	87	100
SF23	87	100
SF24A	82	100
SF24B	80	100
SF25	106	100
SF26	90.5	100
SF27	100	100
SF28	94	100
SF29	94	100
SF3	85	100
SF3.8A.I	100	100
SF3.8A.L	100	100
SF30	95	100
SF31-32	90	100
SF33	94	100
SF34	94	100
SF35	88.5	100
SF36	94	100
SF37	101	100
SF38	96	100
SF38A	94.5	100
SF38B	100	100
SF39	102	100
SF4	93	100
SF40	93	100
SF41-44	101	100
SF5	96	100
SF6	91	100
SF7A	93	100
SF7B	94	100
SF8A	89	100
SF8B	91	100
SF8B.9A	100	100
SF9A	92	100

SF15	87	100
SF16	93	100
SF16A	100	100
SF16A&B	91	100
SF16B	100	100

NBHD CODE	IMP %	LAND %
SL.HW.N	98	100
SLONG	98	100
SLONG.N	98	100
SLONG.O	98	100
SPL.1	98	100
SPL.2	98	100
SPL.3	98	100
SPL.4	98	100
SPL.5	98	100
SPL.6	98	100
SPL.7	98	100
SPL.8	98	100
SPL.LINK1	98	100
SPL.LINK2	98	100
SPL.MH	90	100
SPL.MH.A	90	100
SPL.MH.S	90	100
SPL.MHC.4	90	100
SPL.MHC.5	90	100
SPL.N	97	100
SPL.O	97	100
SS2.N3	97	100
SSW.ABS	80	100
SSW.MH.ABS	127	100
SSW.MH.SUB	127	100
STERLING.D	98	100
SUGARMILL	98	100
SW.332.B	122	100
SW.332.BV	122	100
SW.332.I	122	100
SW.332.IB	175	100
TC.AREA	96	100
TERRELL	96	100
TERRELL ST	96	100
TI	160	100
TI.BAY	98	100
TI.CANAL	98	100
TI.INT	98	100
TI.M	97	100

SF9A&B	92	100
SF9B	90	100
SHADY.OAKS	97	100
SHAGERMAN	97	100
SHANKS	97	100
SHERWOOD	97	100
SL.1	97	100
SL.2	100	100
SL.HW	98	100
SL.HW.123	98	100

NBHD CODE	IMP %	LAND %
WAGON.TRAI	97	100
WEST	97	100
WESTWOOD	97	100
WF	113	100
WF.N	103	100
WO	91.5	100
WO.1	91.5	100
WO.1N	91.5	100
WO.N	91.5	100
WP.N	88	100
WP.O	111	100
WPEARLAND	97	100
X	100	100

TL.N	97	100
TL.O	97	100
TOWNE.N	97	100
TOWNE.O	94	100
TREASURE I	97	100
V.E.5	93	100
V.E.6	93	100
V.E.I	92	100
V.E.IN	91	100
V.E.WF	93	100

Appendix 6 – Personal Property Depreciation Schedule

BRAZORIA CO APPRAISAL DIST
500 N CHENANGO
ANGLETON, TX 77515

January-2017

COMMERCIAL PERSONAL PROPERTY

PERCENT GOOD TABLE

AGE	YEAR	4 YRS	5 YRS	6 YRS	8 YRS	10 YRS	12 YRS	15 YRS	20 YRS	25 YRS	30 YRS
1	2016	.68	.85	.75	.90	.92	.94	.95	.97	.98	.98
2	2015	.44	.70	.55	.79	.84	.87	.90	.93	.95	.97
3	2014	.28	.55	.40	.67	.76	.80	.85	.90	.93	.95
4	2013	.10	.40	.25	.54	.67	.73	.79	.86	.90	.93
5	2012	.05	.25	.15	.43	.58	.66	.73	.82	.87	.91
6	2011		.10	.10	.33	.49	.58	.68	.78	.84	.89
7	2010			.05	.26	.39	.50	.62	.74	.81	.86
8	2009				.22	.28	.43	.55	.70	.78	.84
9	2008				.15	.24	.36	.49	.65	.75	.82
10	2007					.19	.29	.43	.60	.71	.79
11	2006					.15	.24	.37	.55	.68	.76
12	2005						.19	.31	.50	.64	.74
13	2004						.15	.26	.45	.60	.71
14	2003							.23	.40	.56	.68
15	2002							.21	.35	.52	.65
16	2001							.15	.31	.48	.61
17	2000								.27	.44	.58
18	1999								.24	.39	.54
19	1998								.22	.34	.51
20	1997								.21	.30	.47
21	1996								.15	.28	.43
22	1995									.26	.40
23	1994									.24	.37
24	1993									.23	.34
25	1992									.21	.31
26	1991									.15	.28
27	1990										.25
28	1989										.23
29	1988										.22
30	1987										.21
31	1986										.15

LIFE

4 - PC'S ,SCANNER,PRINTER

6 - COMP (MAINFRAME), COMPUTERIZED EQUIP,FOOT SPA, BANK ROUTERS

5- MOBILE RADIOS, TELEPHONE/FAX EQUIPMENT, POS EQUIPMENT, SECURITY SYSTEMS, VEHICLES(1 TON & UNDER), LEASED/RENTAL FURNITURE

8 - MEDICAL & FITNESS EQUIPMENT, VENDING & OFFICE MACHINES, RESTAURANT KITCHEN EQUIP, LEASEHOLD IMPROVEMENTS, VEHICLES (OVER 1 TON), SIGNS, TANNING BEDS, GAS PUMPS BANK COUNTERS, ENCODERS

10 -CAR WASH EQUIPMENT.OFFICE FURNITURE, HEAVY/SHOP EQUIPMENT. RESTAURANT F & F. UTILTY TRAILERS. ETC

12 - PORTABLE BLDGS, SAFETY DEPOSIT BOXES, ETC

20 - INGROUND TANKS

30 - BANK VAULT DOORS

INVENTORY-100% ORIGINAL COST

SUPPLIES-100% ORIGINAL COST

RAW MATERIALS-100% ORIGINAL COST

WORK IN PROGRESS-100% ORIGINAL COST

AIRCRAFT-AIRCRAFT BLUEBOOK

WATERCRAFT-SCHEDULE



The Brazoria County Appraisal District
500 N Chenango St
Angleton TX 77515-4650



2016 PROTEST GUIDELINES

Table of Contents

Purpose of the Protest Guidelines.....	Page 3
General Protest Information.....	Pages 4-7
General Policies.....	Page 4-5
Department List.....	Page 6
Appraiser Initials.....	Page 7
Protest Process Flow Charts.....	Pages 8-13
Mail Processing Box Configuration.....	Page 8
Starting Process.....	Page 9
E File Process.....	Page 10
Closing Out Informal Process.....	Page 11
MDOCS & Phones Process.....	Page 12
Formal Process.....	Page 13
Informal Protests.....	Pages 19-20
Formal Protests.....	Pages 21-22
ARB Protest Codes.....	Pages 14-16
Type Codes.....	Page 14
Protest Reasons.....	Page 14
Status Codes.....	Pages 15-16
Departmental Protest Guidelines.....	Pages 17-40
Customer Service Department.....	Page 17
Setting Up a Protest in PACS.....	Page 18
Informal Mailed Protests	Pages 19-20
Formal Protests	Pages 21-22
Undivided Interest (UDI) Protests.....	Pages 23-24
E-File Protests.....	Page 25
Additional Policies & Comments.....	Page 26
Additional Responsibilities.....	Pages 27-29
Appraisal Department.....	Page 30
Assigned Responsibilities.....	Page 31
Using the “Appraiser Meeting Screen”	Page 32
Friendly Reminder – Don’t Work Accounts without an AOA.....	Page 33
Additional Policies & Comments.....	Pages 34-39
Formal Processing.....	Page 40

Purpose of the Protest Guidelines

This guide assists district staff in the protest process that usually begins in April of each year. These guidelines should be used as a go-to-guide for any questions you have with regard to your particular situation. For further assistance in the specifics and management of the protesting process, please contact your immediate supervisor.

Why is Protest Efficiency Important to the District?

Using the “Protests” will help the district in numerous ways:

- ✓ Increase efficiency within the district
- ✓ Minimize confusion within the district and with property owners
- ✓ Ensure everyone in the district is on the same “page” for each situation

Use “Protests” to your advantage. This option has been created to make your life easier – everyone’s life easier (you, the taxpayer, and anyone else that may come across a particular account).

We Want Your Feedback

One very important factor to remember is that this “Protests” feature, while it has existed in PACS for many years, we are still learning of new features and ways to utilize the feature each year. “Protesting” will continue to be a “work in progress” for many years to come. We will add, revise and remove things as we see fit in the future. Different situations will arise where changes will need to be made.

While working with the “Protests” feature in PACS, let us know about any ideas you have that might make it better and easier to use. If you have an idea for a status or procedure, please let your supervisor know. We welcome any feedback you might have that could make this a stronger tool for the entire district’s benefit.

If you don’t find a new status, feature, idea or procedure that fits your situation, let your supervisor know so we can work on possibly creating a new one. Each department within the district has different uses for the protest feature in PACS. Help us make life easier for you by telling us about new statuses, features, ideas or procedures that should exist.

What is Not Included in this Guide

We cannot anticipate every situation that you may encounter during your daily protesting activities. Always consult a fellow coworker or supervisor when in doubt about what action(s) you should take protest procedure you should choose.

General Protest Information – General Policies

BRAZORIA COUNTY APPRAISAL DISTRICT

MEMBERS OF THE BOARD

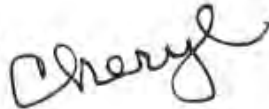
Ro'Vin Garrett
Tommy King
Ruby Jo Knight
Gail Robinson
Glenn Salyer
Susan Spoor

CHIEF APPRAISER

Cheryl Evans
500 North Chenango
Angleton, Texas 77515
979-849-7792
Fax 979-849-7984

MEMO

To: All Employees
From: Cheryl Evans
Date: April 5, 2016



Are you ready for "Crunch Time?"

I thought last year was going to be bad with the increase in the market, but it wasn't anywhere near the increases we are seeing for this year, especially in the southern end of the county.

Harris County, as you may have seen on the news or in the newspaper has seen some declines because of the oil and gas prices but that hasn't affected our markets. Our increases are coming from the industries and the influx of people paying a premium for a home because of the supply and demand.

Every year at this time I go out with a memo to remind all employees of how important their attendance is to the district. It is the span of time from the first of April until the end of July that we are the busiest, as we strive to meet the state mandated deadlines for preparing a certified appraisal roll.

Your attendance during this time is imperative. I must request your cooperation in avoiding all unnecessary absences from work, such as vacation. You should know that because of our anticipated work load during this period that you will be required to obtain prior authorization from me.

The procedure for this will be:

1. Authorization from all immediate supervisors on a request for leave form.
2. Then to me for a final determination

This procedure will begin on April 15, 2016 thru certification of the appraisal roll which is toward the end of July.

Such requests for time off will not be authorized except in the most pressing circumstances.

When you are absent or tardy this puts an extra burden on your department and your fellow employees suffer as they must carry out your share of the load when you are absent.

- Of course, the above limitations on taking off will not apply to situations where time off is needed for medical reasons, family leave issues, emergencies, scheduled holidays, or where permission to take such time off during this time has already been specifically approved by me and/or your supervisor prior to the date of this memo.

I also want to express my sincere thanks ahead of time for all the dedication and hard work you have demonstrated and will hopefully continue to do so as we strive to meet our goals and serve the taxpayers of Brazoria County.

I want to apologize for any inconvenience but appreciate your understanding and cooperation. Please be assured that your hard work and dedication does not go unnoticed.

Should you have any questions please contact me and I will be happy to discuss them with you.

General Protest Information – Department List

DEPARTMENT LIST FOR PROTEST

RESIDENTIAL

Patrick Whittenburg	246
Jennifer Warren	238
Amber Tijerina	202
Jasmine Ling	204
Amanda Ramirez	234
Christie Cole	242
Toni Davis	244
Rita Aparicio	206
Kelia Gartman	268
Criselda Del Hierro	239
Lauren Pilataxi	275

COMMERCIAL

John Varner	228
Candise Vercher	264
Viki Willard	209
Tiffany Warlick	276
Jannon Keen	249

LAND

Coy Cooksey	210
Callie Haynes	213

SALES/AG

Steven Holtz	216
George Morgan	220

MOBILE HOMES

Missy Sharp	231

PERSONAL PROPERTY

Laura Thoede	214
Sharon Cooley	232
Allison Davis	248
Carol Randall	230
Cayla Hewitt	251
Mari Torres	243

ADMINISTRATION

Cheryl Evans	211
Al Baird	224
Nancy Ashburn	207
Preston Brown	208

CUSTOMER SERVICE

Tosha Hatfield	237
Naomi Williams	266
Janet Olivas	222
Lisa Reynolds	225
Christie Flessner	218
Sabrina Serbantez	217
Rachel Campbell	274
Natalie Mejia	247
Brittney Gallardo	223

UPSTAIRS SUPPORT

Alma Miller	226
Bea Esquivel	212
Lisa Lopez	261
Margaret Armstrong	233
Alma Avendano	201
Julie Torres	278
Tamara Campbell	265

MAPPING

Patricia Rincon	205
Gail Maynard	253
Marisa Casados	270
John Gustavsen	245
Eva Meredith	221

GIS

Josh Ashburn	229
Missie Owens	215

HR/FINANCIAL

Isabel Mendoza	203
Tammy Dirba	240

COMPUTER

Tammie Spencer	236

OPERATOR

Glenda Paul	0

General Protest Information – Appraiser Initials

Appraiser Initial Codes

The following initials will be listed in the PACS Appraisal System and are assigned to each appraiser accordingly. When working a protest, these initials should be utilized for identifying the appraiser handling the meeting.

BRAZORIA COUNTY APPRAISAL DISTRICT

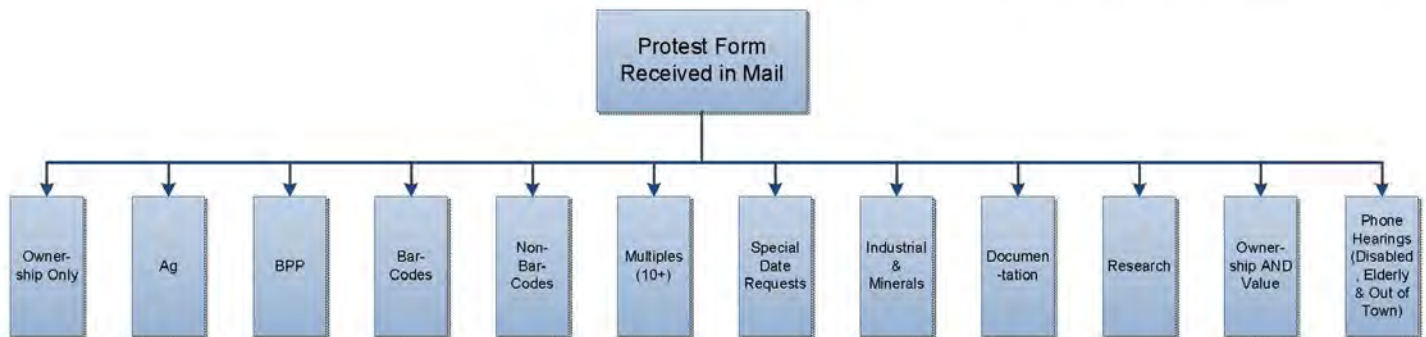
<u>Name</u>	<u>Initials</u>	<u>Dept.</u>
Allison Davis	AD	BPP
Amanda Ramirez	AR	Residential
Amber Tijerina	AT	Residential
Callie Haynes	CH	Land
Candise Vercher	CP	Commercial
Carol Randall	CR	BPP
Christi Cole	CM	Residential
Coy Cooksey	CJC	Land
Criselda Del Hierro	CD	Residential
George Morgan	GM	Ag
Jannon Keen	JK	Commercial
Jasmine Ling	JL	Residential
Jennifer Warren	JW	Residential
John Varner	JV	Commercial
Kelia Gartman	KG	Residential
Laura Thoede	LST	BPP
Lauren Pilataxi	LP	Residential
Mari Torres	MT	BPP
Missy Sharp	AMS	Mobile Homes
Nancy Ashburn	NA	Appraisal
Patrick Whittenburg	PW	Residential
Preston Brown	PB	Appraisal
Rita Aparicio	RA	Residential
Sharon Cooley	SC	BPP
Steven Holtz	SEH	Residential /Ag
Tiffany Warlick	TW	Commercial
Toni Davis	TD	Residential
Viki Willard	VW	Commercial

HUGH LANDRUM & ASSOCIATES

<u>Name</u>	<u>Initials</u>	<u>Dept.</u>
Doug Warren	Doug	Industrial
Hugh Landrum Jr.	Linson	Industrial
Kirk Slaughter	Kirk	Industrial
Max Yu	Max	Industrial
Mike Rigsby	Mike	Utilities
Shawnel Harrison	Shawnel	Minerals
Tracey Foster	Tracey	Minerals

Protest Flow Charts – Mail Processing Box Config.

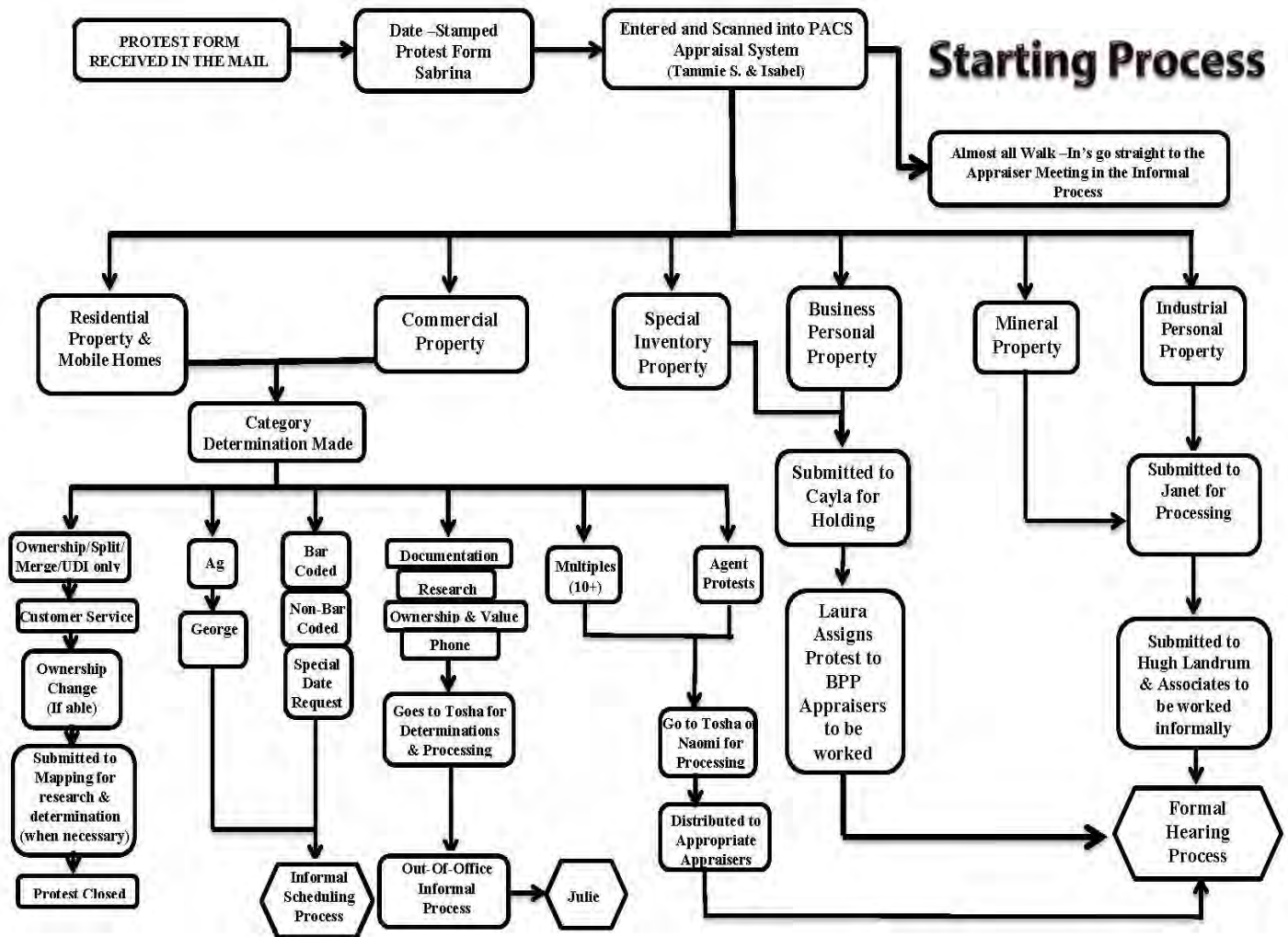
Mail Processing Box Configuration



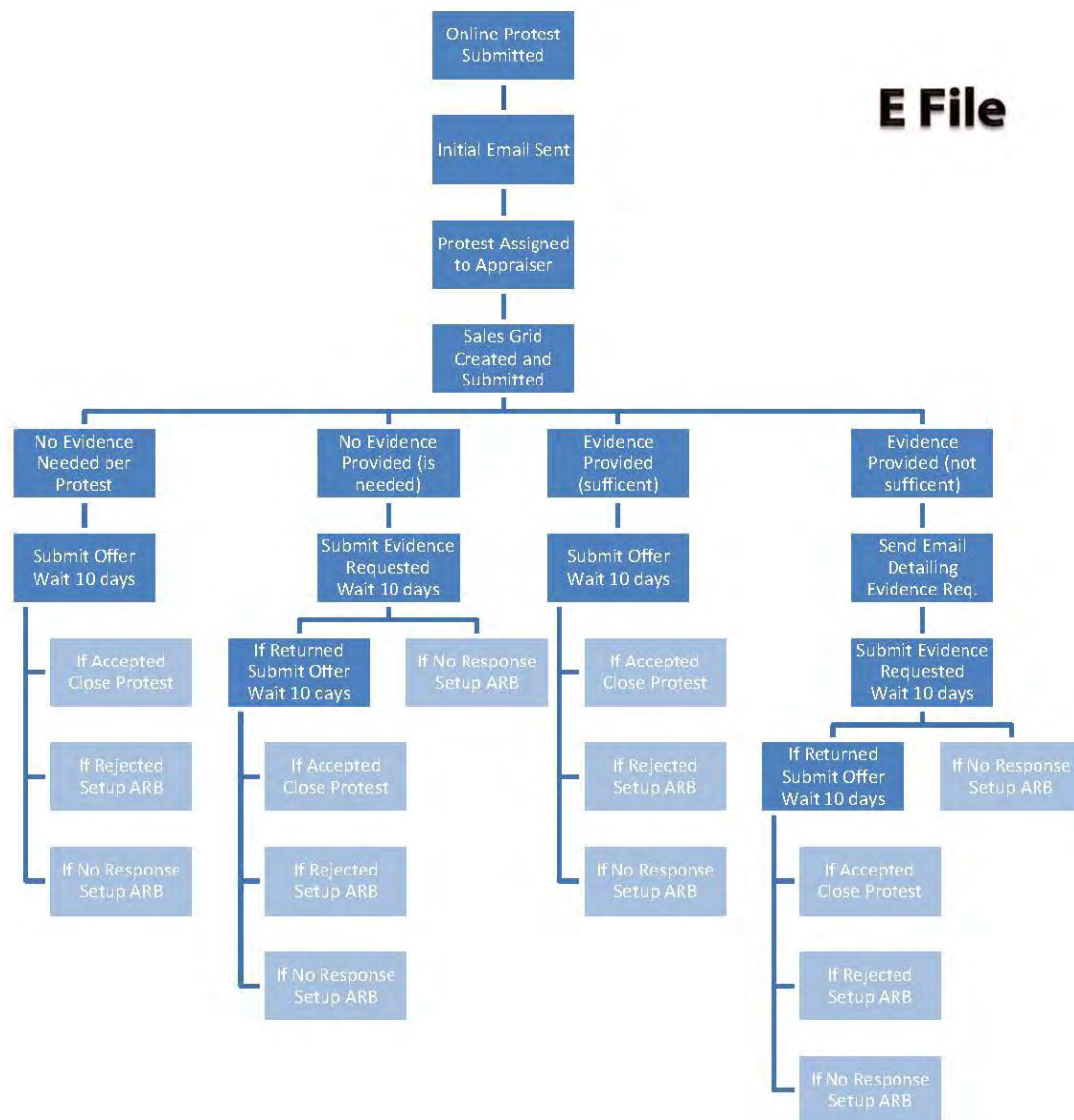
After processing the protest form,
distribute the protest utilizing the **"Starting Process" Flow-Chart**

Protest Flow Charts – Starting Process

Protest Flow Chart- Starting Process

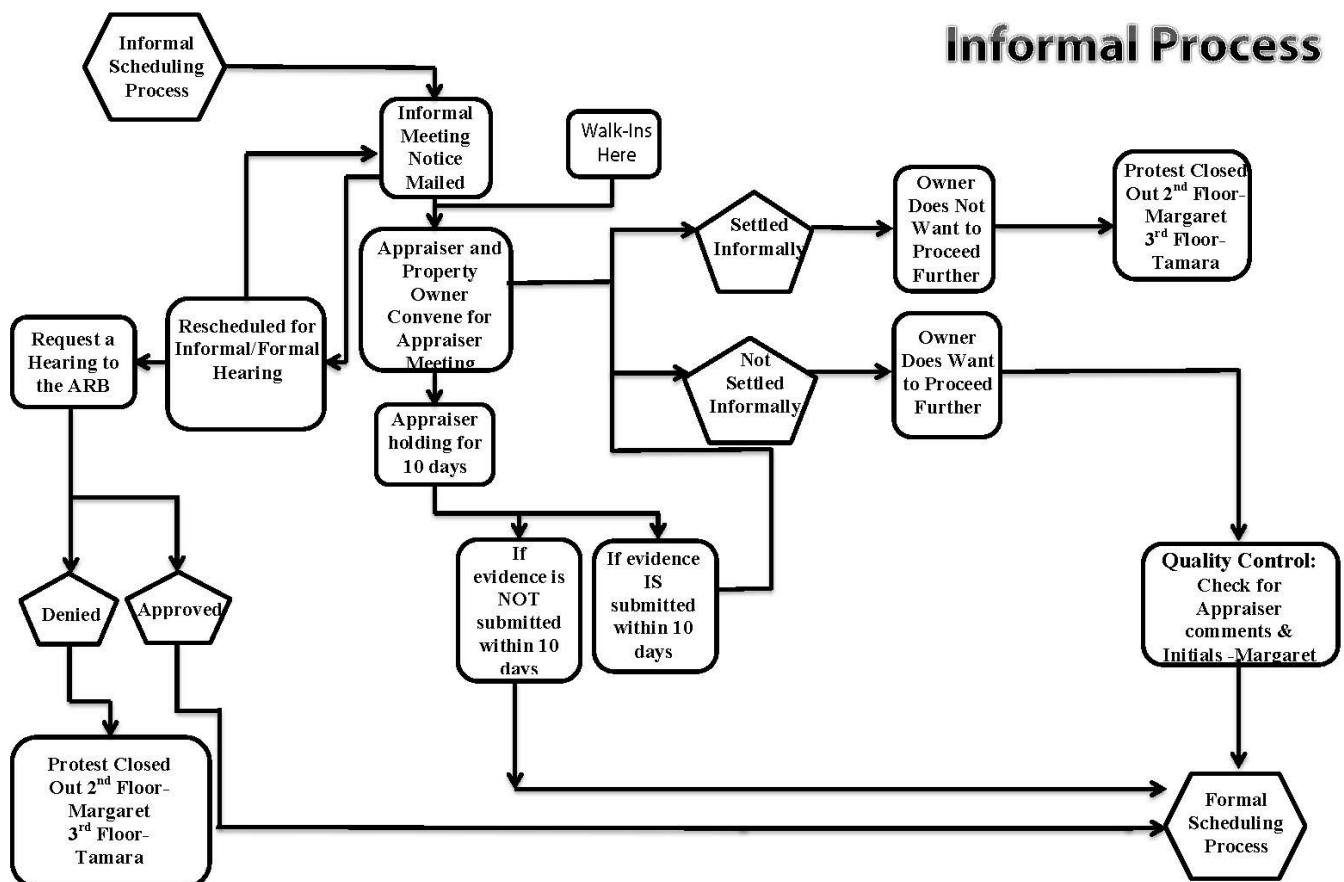


Protest Flow Charts – E File



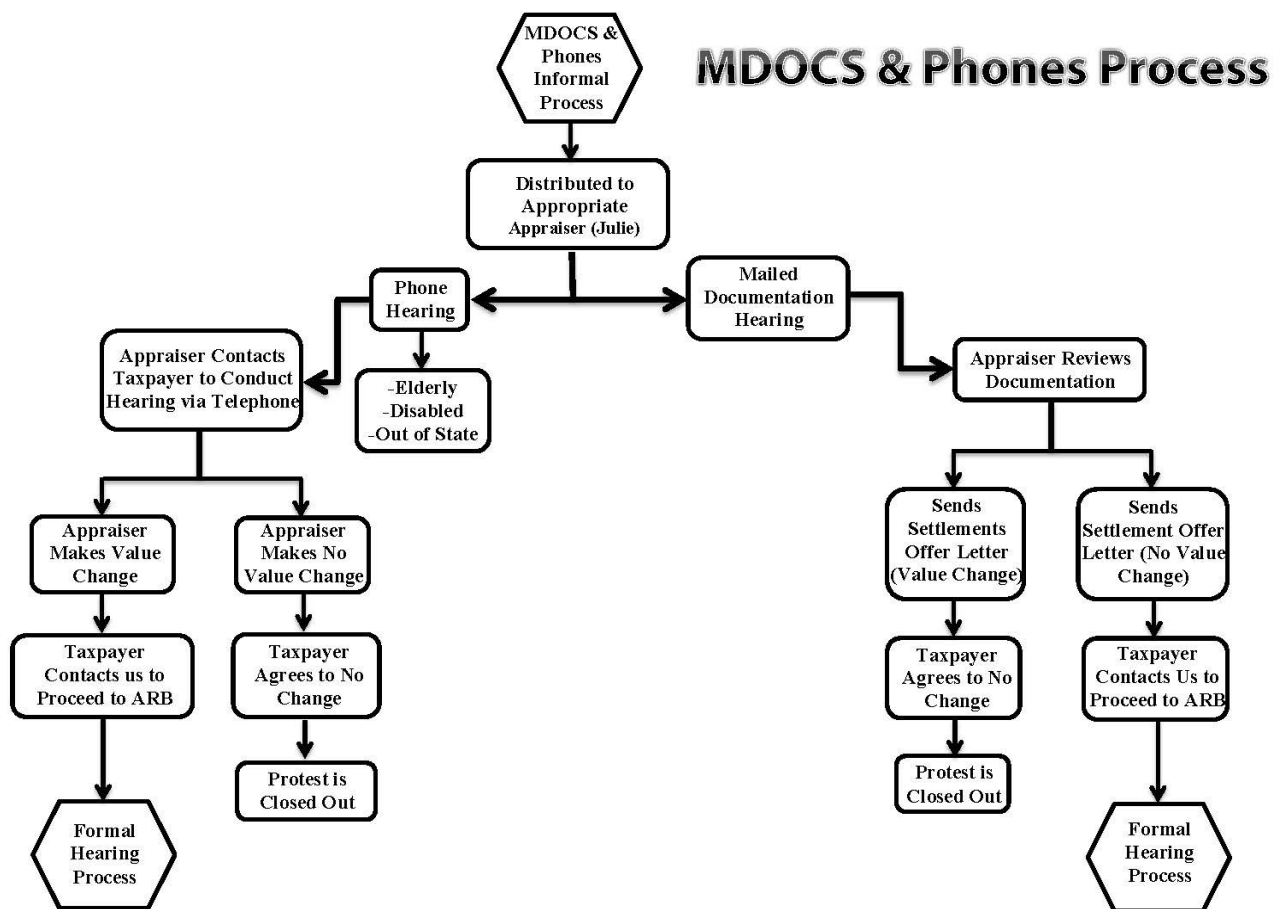
Protest Flow Charts – Closing Out Informal Process

Protest Flow Chart- Closing Out Informal Process



Protest Flow Charts – MDOCS & Phones Process

Protest Flow Chart- MDOCS & Phones

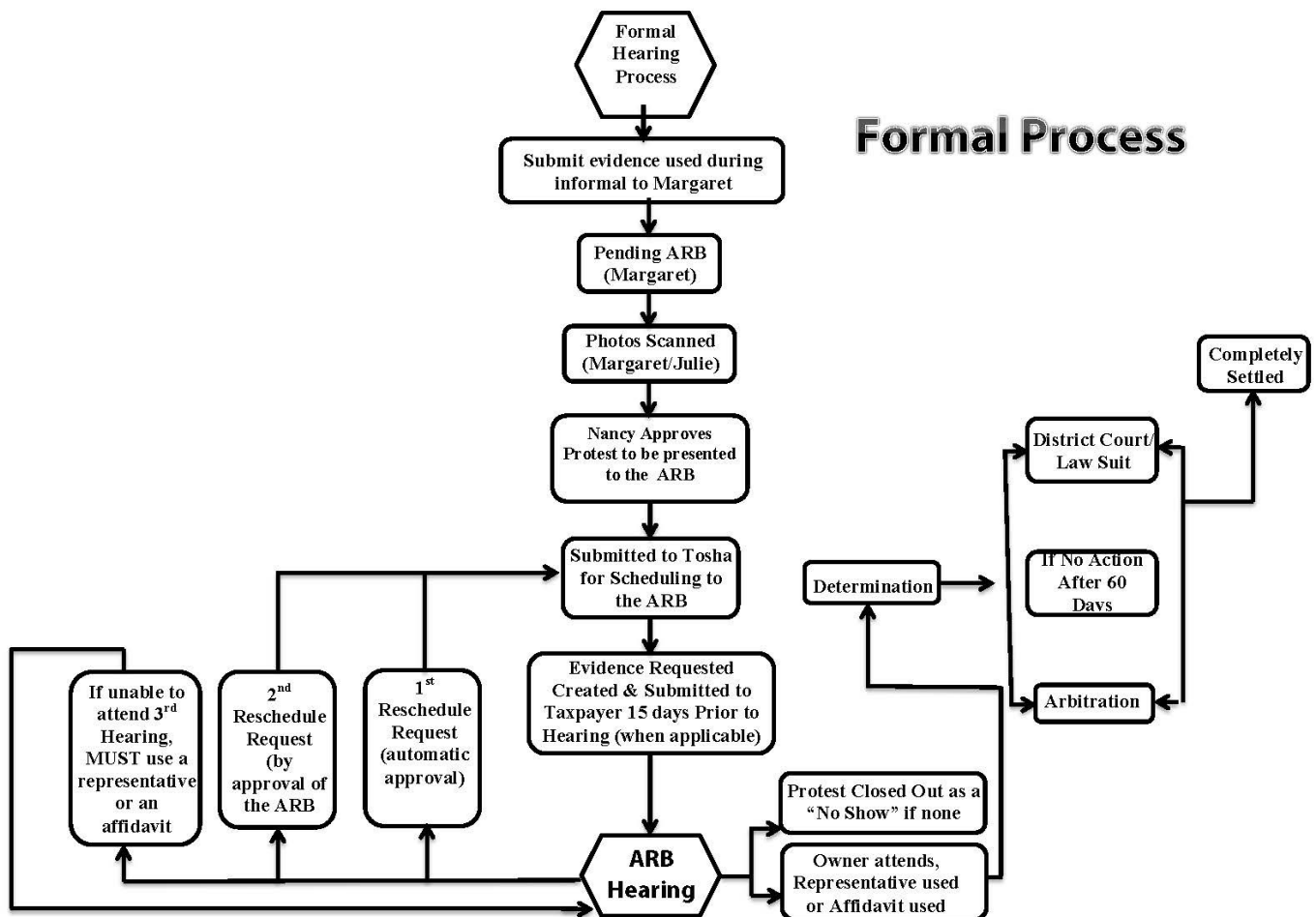


Protest Flow Charts – Formal Process

When the protester does not agree informally, it is mandatory to let them know the following before they are set up for a Formal ARB

By not signing this form the account will be setup for the Appraisal Review Board. The value presented to the ARB will reflect the value in the appraisal records as submitted to the ARB by the chief appraiser under section §25.22 or §25.23. This value WILL NOT reflect any change made by the appraiser during your informal meeting.

Protest Flow Chart- Formal Process



ARB Protest Codes – Type Codes & Protest Reasons

TYPE LIST		
CODE	DESCRIPTION	RESPONSIBILITY
25.25B	25.25 Ownership	Cust Serv/ Appraisal
25.25C1	Clerical Errors	Cust Serv/ Appraisal
25.25C2	Multiple Appraisals	Cust Serv/ Appraisal
25.25C3	Properties that Do Not Exist	Cust Serv/ Appraisal
25.25D	Over Appraised by 1/3	Cust Serv/ Appraisal
25.25H	Agreed Motion Btwn Chief Appraiser & Prop Owner	Cust Serv/ Appraisal
41.411	Failure to Give Notice	Nancy Ashburn
ARBITRATION	Arbitrations	Nancy Ashburn
CAD	CAD Initiated Correction	Appraisal Dept.
E-FILE	Electronically Initiated Protest	Nancy Ashburn
IND	Industrial Protest	Janet Olivas
LATE	Late Protest	Cust Serv/ Appraisal
M	Protest Submitted By Mail and/or Fax	Cust Serv/ Appraisal
SPEC	Special Multiple Properties (X 10+)	Naomi/Tosha
W	Walk-In	Cust Serv/ Appraisal
26.01	Omitted property – Generates notice	Nancy Ashburn

****THE TYPE WILL NEVER CHANGE- ONLY THE STATUS WILL****

THE ORDER OF THE REASONS ARE NOT IN THE SAME ORDER AS THE PROTEST FORM

PROTEST REASONLIST		
CODE	DESCRIPTION	RESPONSIBILITY
Q01	Value is Over Market	Customer Service
Q02	Appraisal Ratio Exceeds Median Level of Appraisal	Customer Service
Q03	Property Should Not be Taxed	Customer Service
Q04	Failure to Send Required Notice	Customer Service
Q05	Other	Customer Service
Q06	Exemption(s) Was Denied, Modified or Cancelled	Customer Service
Q07	Change in Use of Land Appraised as Ag-Use	Customer Service
Q08	Ag-use, Open-Space Was Denied/Modified/Cancelled	Customer Service
Q09	Owners Name is Incorrect	Customer Service
Q10	Property Should be Taxed in CAD or Tax Units	Customer Service
Q11	Property Description Incorrect	Customer Service

*****ANY STATUS CONTAINING A “Z” IN THE DESCRIPTION SHOULD NOT BE USED*****

WALK- INS: Appraisers should request the protest form from the taxpayer to verify the “Protest Reasons.”

NEVER COMPLETE A PROTEST FORM FOR A TAXPAYER. IF MAILED BLANK –“OTHER”

ARB Protest Codes – Status Codes

CODE	DESCRIPTION	RESPONSIBILITY	CLOSES PROTEST?
25.25B	Error Name Address Description	Cust Serv / Appraisal	No
25.25C	Clerical Error, Multiple Appraisal, Property	Cust Serv / Appraisal	No
25.25D	Over Appraised 1/3	Cust Serv / Appraisal	No
25.25H	Agreed Motion	Cust Serv / Appraisal	No
41.411	Failure to Give Notice	Cust Serv / Appraisal	No
AG	Ag Protested	Cust Serv / Data Proc	No
AG REM	Agent Removed by Owner	Cust Serv / Appraisal	Yes
AGENT DUPL	Agent Duplicated Protest	Cust Serv / Appraisal	Yes
AM	Appraiser Meeting	Cust Serv / Appraisal	No
ARB	Set up for ARB	Appraisal Supervisor	No
BPP	Business PP Walk-In	Cust Serv / Data Proc	No
CAD.A	CAD Value Change	Nancy Ashburn	Yes
EGRID	Electronic Grid Created	Nancy Ashburn	No
EHOLD	Electronic Holding	Nancy Ashburn	No
EPF	Electronic Protest Filed	Nancy Ashburn	No
ERR	Entered in Error	ALL	Yes
ESC	Electronic Settled Change	Nancy Ashburn	Yes
ESNC	Electronic Settled No Change	Nancy Ashburn	Yes
ESO	Electronic Settlement Offer	Nancy Ashburn	No
ESOA	Electronic Settlement Offer Accepted	Nancy Ashburn	No
ESOR	Electronic Settlement Offer Rejected	Nancy Ashburn	No
H	Appraiser Holding	Appraiser	No
IF	Informal/Formal	Tosha Hatfield	No
LP	Late Protest (Non-25.25)	Cust Serv / Appraisal	No
M	Mail To Be Scheduled Informally	Data Processing	No
MAG	Mail Ag Protested	Data Processing	No
MAPPING	Research Required (Split/Merge/UDI/etc.)	Data Processing	No
MBPP	Mail-Bus Pers Prop	Data Processing	No
26.01	Omitted Property	Nancy Ashburn	No

CODE	DESCRIPTION	RESPONSIBILITY	CLOSES PROTEST?
MDOC	Mailed Documentation	Tosha Hatfield	No
MHL	Mail to Hugh Landrum	Janet Olivas	No
MMS	Multiples Mail To Be Schedule	Tammie Spencer	No
MS	Mail To Be Scheduled Single	Tammie Spencer	No
MSNS	Mail Scheduled No Show	Tammie Spencer	Yes
NC	25.25B,C,D,H No Change	Nancy / Preston	Yes
NO AOA	Do Not Work - No AOA	Cust Serv / Appraisal	No
NOTICE	Notice To Be Sent	Tammie Spencer	No
NS	No Show Formal	Tosha Hatfield	Yes
ORD.M.U.A	ARB Approved MKT/UNEQ CHG	Tosha Hatfield	Yes
ORD.M.U.D	ARB Denied MKT/UNEQ CHG	Tosha Hatfield	Yes
ORD.MKT.A	ARB Approved MKT CHG	Tosha Hatfield	Yes
ORD.MKT.D	ARB Denied MKT CHG	Tosha Hatfield	Yes
ORD.UNEQ.A	ARB Approved UNEQ CHG	Tosha Hatfield	Yes
ORD.UNEQ.D	ARB Denied UNEQ CHG	Tosha Hatfield	Yes
P	Phone Informal	Tosha Hatfield	No
PARB	Pending ARB	Appraiser	No
PROT	Formal Scheduled Protests	Tosha Hatfield	No
PSC	Pending Settled Change	Appraiser	No
PSNC	Pending Settled No Change	Appraiser	No
PWDF	Pending Withdrawal Formal	Appraiser	No
PWDIF	Pending Withdrawal Informal	Appraiser	No
RF	Reschedule Formal	Tosha Hatfield	No
RIM	Reschedule Multi Protestors	Tammie Spencer	No
SC	Settled Change	Margaret Armstrong	Yes
SIF	Schedule Informal/Formal	Cust Serv / Appraisal	No
SMS	Specific Mail Schedule Date & Time	Tammie Spencer	No
SNC	Agreed to No Change	Appraiser	Yes
SPEC	Special	Naomi / Tosha	No
W	Walk-In Informal	Customer Service	No
WD	Withdrawal Formal	Tosha Hatfield	Yes
WDIF	Withdrawal Informal	ANY	Yes

Protest Guidelines – Customer Service Department

Residential Real Property: (237524) Year - 2013

Summary
Legal
Identification
Entity-Exmpt
Prop Codes
Mtg-Permits
Owner-Agent
Deeds-Sales
SplitMerge-Lnk
Values
Improvements
Land
Supp History
Appraiser Info
Roll History
GIS
Images
RBack-ShProp
Events
ARB - Inquiry

Property Info
PID: 237524
7037-0020-110

Owner Name
ARMSTRONG PATRICIA D

Legal Description
PECAN GROVE (WEST COLUMBIA),
LOT 26

☐ Eligible for E-File

Inquiries

Year - Case ID	Type	Nat
2012 - 347	PHONE	EXEMPTION REMOVED

New...
Details...
Remove
Create Event...

Protests

Year - Case ID	Created	Completed	Type
2011 - 10141	6/3/2011 11:01 AM	7/25/2011 08:34 AM	ST
2010 - 8249	5/18/2010 09:02 AM	7/9/2010 10:34 AM	ST
2009 - 5532	9/4/2009 08:02 AM	9/4/2009 08:02 AM	ST
2008 - 16412			
2007 - 8808	6/15/2007 12:00 AM		
2005 - 12412	6/15/2005 12:00 AM		

New...
Details...
Remove
Create Event...

Recalculate < > OK Cancel Apply

Select 'New' to create a new protest by clicking here.

The first of the protest process begins with the Taxpayer/Owner submitting their formal, written protest to the District. Once the protest is submitted, it should be setup in the PACS system. You will be creating a new protest.

REMEMBER TO **NOT** USE THE “INQUIRIES” AREA WHEN CREATING A **PROTEST**. THIS IS **EXTREMELY IMPORTANT**.

Additionally, remember to obtain appropriate documentation from family-members/friends/etc. that are protesting on behalf of the Taxpayer/Owner. Make any important notes in the “Taxpayer Comments” area within the protest under the “Appraiser Meeting” screen.

Once the protest is set up; click “Apply” and scan the protest form in under the “Images” screen.

REMEMBER IF THE “ERRORS” BUTTON APPEARS –
THIS **MUST** BE RESOLVED **BEFORE** THE TAXPAYER/OWNER CONTINUES FURTHER.

The screenshot shows the ARB Protest2 software interface. Numbered callouts indicate the following elements:

- 1:** Year dropdown menu (set to 2013).
- 2:** Reasons checkboxes (Q01, Q02, Q03, Q04).
- 3:** Copy Fields To button.
- 4:** Available Views sidebar (General selected).
- 5:** Evidence checkbox in the Available Views sidebar.
- 6:** Apply button.
- 7:** Evidence Requested checkbox.
- 8:** Preparer and Delivered date fields.

Other visible fields include Property (237524, 7037-0020-110), Owner (ARMSTRONG PATRICIA D), Legal (PECAN GROVE (WEST COLUMBIA), LOT 26), Situs (219 11TH 1/2 ST WEST COLUMBIA), Nbhd./Appr (S1850.AREA / NA/PB), PTD/Type (A1 / Residential), Ent/Ex (CAD, CWC, DR9, EM1, EM2, C HS, OV65), Agent (OCONNOR & ASSOCIATES), and a Protesters table with one entry: Type OW, Primary Yes, Present, W, Name ARMSTRON.

ITEMS TO CHECK FOR WHEN SETTING UP A PROTEST:

- 1.) Verify protest year is **2016**.
- 2.) Check appropriate “protest reason” box(es).
- 3.) Verify the appropriate protester is selected (*owner, agent, future owner, etc.*)
- 4.) Verify exemptions, addresses & phone numbers are correct & updated.
- 5.) Verify protest form (*and any other important documentation*) has been scanned in.
- 6.) [APPLY] button is pressed, making the protest active.
- 7.) If evidence requested-check box (*make sure when setting up protest to review protest thoroughly*)
- 8.) If preparer and delivered date is filled in, that means that the evidence that was requested has been prepared and delivered to the taxpayer.

Customer Service – Informal Mailed Protests

ARB Protest - Case No. 34 for 2016

Available Views: General, Appraiser Meeting, Hearing Minutes, Values, Letters, Events, Change Log, Images, Evidence, Email History

Property: 500690 6035-2201-000 Nbhd/Appr: S6035.INT / PB/CP
Owner: TRAN KHANH PTD/Type: A1 / Residential
Legal: LAKEPOINTE SEC 2 AT SILVERLAKE (40309 HT&BRR 8 Ent/Ex: CAD, DR4, GBC, M2, RDB, SF HS
Situs: 2923 ELSBURY LN Agent:

Detail
Year: 2016
Group ID:
Type: M (MAIL)
Status: MS (SINGLE MAIL SCHEDULED)
Reasons: 1 (1)
☒ Q01 (VALUE IS OVER MARKET)
☒ Q02 (APPRAISAL RATIO EXCEED M
☐ Q03 (PROPERTY SHOULD NOT BE
☐ Q04 (FAILURE TO SEND REQUIREC
Comments:
Opinion of Value: 230000

Taxpayer Affidavit of Testimony
Received: / /
From:
Method:
Evidence
☐ Evidence Requested
Requested: / /
Preparer:
Delivered: / /
☐ 15 Day Waiver ☐ Case Prepared
☐ Additional Evidence
☐ Allow Upload
Taxes
☐ Taxes Paid
Verification Information:
Date: / /
By:
☐ Taxpayer Affidavit of Inability to Pay

Hearing Docket
ID:
From:
To:
☐ Rescheduled
Schedule... Clear
Hearing
Panel:
Arrival: / /
Current Date / Time Clear
Decision
1st:
Date:
2nd:
Date:

Protesters
Type Primary Present W Name
QW Yes TRAN KHANH
Phone... Add... Details...

Created by: ALMA AVENDANO
Date: 3/29/2016
Time: 9:13 AM

INFORMAL PROTESTS:

- 1) Status will say MS or MMS. This is the taxpayer's 1st meeting with an appraiser in our office.

ARB Protest - Case No. 34 for 2016

Available Views:

- General
- Appraiser Meeting**
- Hearing Minutes
- Values
- Letters
- Events
- Change Log
- Images
- Evidence
- Email History

Property: 500690 6035-2201-000 Nbrhd/Appr: S6035.INT / PB/CP

Owner: TRAN KHANH PTD/Type: A1 / Residential

Legal: LAKEPOINTE SEC 2 AT SILVERLAKE (A0309 HT&BRR & Ent/Ex: CAD, DR4, GBC, M2, RDB, SF HS

Situs: 2923 ELSBURY LN Agent:

Appraiser: Meeting 4/26/2016 at 08:00 AM Docket ID:

Arrival Time: Current Date / Time

Taxpayer Comments: I BOUGHT THIS PROPERTY LAST YEAR FOR 230000. THIS PROPERTY SHOULD BE WORTH AROUND 230000. THERE IS A SIMILAR PROPERTY IN THE SAME SUBDIVISION. 3007 ELSBURY LN. IS APPRAISAL AT 245000. THE PROPERTY AT 3007 ELSBURY LN IS BETTER SHAPE AND CONDITION THAN 3293 ELSBURY LN.

Appraiser Comments:

Property Comment: COMMENT: SPLIT FROM REF ACCT 0309-0029-000 & 0548-0024-005 PER PLAT VOL 19 P561-562

Property Remarks: 2015 MKT \$340K 2014 MKT \$340K

Confidential Comment: 5/11/10- REMAILED APPT LETTER TO SUGARLAND ADDRESS PER RETURNED MAIL. TH

Created by: ALMA AVENDANO

Date: 3/29/2016

Time: 9:13 AM

Buttons: OK, Cancel, Apply, Close Protest, Reopen Protest, Comp Grid..., Presentation..., Sales Ratio, Inquiry, Recording, Copy Fields To

INFORMAL PROTESTS:

- 1) In the Appraiser Meeting Screen you will find the date and time they are scheduled.

Customer Service – Formal Protests

ARB Protest - Case No. 21919 for 2013

Available Views: General, Appraiser Meeting, Hearing Minutes, Values, Letters, Events, Change Log, Images, Evidence, Email History.

Property: 600340 0125-0148-003 Nbrhd./Appr: <unknown> / DC/JV

Owner: GARZA ANDRES PTD/Type: E4 / Residential

Legal: A0125 A ROBINSON TRACT 32A ACRES 12.908 Ent/Ex: CAD, EM3, GBC, HAD, NAV, F

Situs: FM 521 TX Agent:

Detail: Year: 2013

Group ID: Type: M (MAIL)

Status: PROT (FORMAL SCHEDULED PROTEST)

Reasons: 007 (CHANGE IN USE OF LAND APPRAISED AS AG-USE.)

Comments:

Opinion of Value: 0

Protesters:

Type	Primary	Present	W	Name
OW	Yes			GARZA ANDR

Phones: Details:

Taxpayer Affidavit of Testimony: Date Received: Received From: Method: Evidence: No Evidence Requested Date Requested: Prepared By: Date Delivered: No 15 Day Waiver Case Not Prepared No Additional Evidence Requested

Hearing Docket: Docket: 12950 From: 4/24/2014 9:30 AM To: 4/24/2014 9:45 AM

Hearing Not Rescheduled

Hearing: Panel: Arrival:

Decision: 1st: Date: 2nd: Date:

Created by: STEVEN HOLTZ Date: 1/3/2014 Time: 2:14 PM

FORMAL PROTESTS:

- 1) In the General screen you will see the status PROT for a protest that is scheduled for a formal hearing with the ARB.
- 2) The formal hearing date and time will be found here. Anyone needing to reschedule a formal hearing needs to speak with Tosha or Rachel or email arb@brazoriacad.org.

ARB Protest - Case No. 21919 for 2013

Available Views: General, Appraiser Meeting, Hearing Minutes, Values, Letters, Events, Change Log, Images, Evidence, Email History

Property: 600340 0125-0148-003 Nbhd/Appr: <unknown> / DC/JV
 Owner: GARZA ANDRES PTD/Type: E4 / Residential
 Legal: A0125 A ROBINSON TRACT 32A ACRES 12.908 Ent/Ex: CAD, EM3, GBC, HAD, NAV, F
 Situs: FM 521 TX Agent...

Detail: Year: 2013 Taxpayer Affidavit of Testimony: Date Received: Hearing Docket: Docket: 12950
 Group ID: Received From: From: 4/24/2014 9:30 AM
 Type: M (MAIL) Method: To: 4/24/2014 9:45 AM
 Status: NS (NO SHOW FORMAL) Hearing Not Rescheduled
 Reasons: Q07 (CHANGE IN USE OF LAND APPRAISED AS AG-USE.) Evidence: No Evidence Requested
 Date Requested: Hearing: Panel: Arrival:
 Prepared By: Date Delivered: No 15 Day Waiver Case Not Prepared
 No Additional Evidence Requested Decision: 1st: Date: 2nd: Date:

Protesters:

Type	Primary	Present	W	Name
OW	Yes			GARZA ANDRES

Created by: STEVEN HOLTZ
 Date: 1/3/2014
 Time: 2:14 PM

- 1) Verify that the protester is correct.
 If the agent is protesting, change this to agent.

THIS IS **VERY** IMPORTANT. THE PROTESTER IS WHO RECEIVES THE APPOINTMENT LETTER.

Customer Service - Undivided Interest (UDI) Protests

Residential Real Property: (560264) Year: 2013 (CHILD)

Summary
Legal
Identification
Entity-Exmpt
Prop Codes
Mtg-Permits
Owner-Agent
Deeds-Sales
SplitMerge-Lnk
Values
Improvements
Land
Supp History
Appraiser Info
Roll History
GIS
Images
RBack-ShProp
Events
ARB - Inquiry

Property
PID: 560264
0488-0032-007

Owner Name
DRILLMAR ENERGY INC

Legal Description
A0488 HOOPER & WADE TRACT 47
ACRES 2.88, Undivided Interest
54.1700000000%

Property
State Code: C2 Create Date: 01/10/2005
DBA:
Nbhd:
Mortgage Co:
Market Value: \$15,601
Assessed Value: 15,601
Valuation Type: Cost
Living Area: 0 \$/SF: 0.00

Owner Name & Address [Pct: 54.1700000000%]
DRILLMAR ENERGY INC
1210 W CLAY, SUITE 12
HOUSTON, TX 77009

Exemptions:
Phone: 1 of 1

Agents

Entity	Frz Type	Frz Year	Frz Ceiling
CAD			
CAL			
DR3			
GRC			

Print Appraisal Card View Plat Map

Situs
JOHNSON ST ALVIN.

Parent Recalculate < > OK Cancel Apply

UNDIVIDED INTEREST PROTESTS

When setting up an Undivided Interest protest, you must set everything up under the "Parent" account. If the taxpayer comes in with the "Child" account to protest, you must click the "Parent" button at the bottom of the screen.

IT IS IMPORTANT TO NOTE THAT
ALL CHANGES MUST BE MADE TO THE PARENT ACCOUNT,
NOT THE CHILDREN.

Once you are at the Parent account, click on the “ARB-Inquiry” tab and continue to set up the protest as normal. Once setting up the protest is complete, click on the “Owner-Agent” tab. Select the “Property” button to the right of the screen. Here you will pull up each child account and add the Prop Group Code “UDI UNDER PROTEST” to each child account (*whether it is being protested or not*).

Afterwards, print an Appraisal Card on the Parent account. Click on [Print Appraisal Card] at the bottom of the screen. Make sure the UDI Options says “Print Both Parent and Child Properties.” Then click “Print”. This will print all of the children accounts and the parent account. The PRC’s for all of the accounts will be printed by **Alma A.** on the 2nd floor, just as she would with any other account.

Similarly, the “Settlement-Waiver” letter should be printed from the PARENT account.

Closing Protests: Un-protested “children” accounts should be closed out as “CAD.A” – (*CAD Value Change*). Also, remove the Prop Group Code “UDI UNDER PROTEST” from these accounts.

Make adjustments on the parent account. Print a PRC, write “CAD Change” and put in **Nancy’s** box in her office.

Customer Service – E-File Protests

Frequently Asked Questions (FAQs)

Who can e-file?

Residential properties pre-selected by the Chief Appraiser that have a homestead (*usually*).

How do we know if a property is eligible for e-file?

Once you have opened the account in PACS, click on the blue tab “ARB – INQUIRY.”

Requirements to be eligible for e-file:

- 1.) The “eligible for e-file” box (*shown below*) must be checked
- 2.) The property owner must have received a notice.
(There **are** instances where the “Eligible for E-File” box **IS** checked, but the owner did **NOT** receive a notice. In this case, the owner is **NOT** eligible for E-File.)

SEE THE E-FILE GUIDELINES MANUAL FOR ADDITIONAL INFORMATION ON THIS TOPIC

If you have any questions referring to a specific property about **E-File**; the following people are who will be able to assist you:

- ? Nancy
- ? Steven
- ? Or Appraiser Assigned

For **Technical** questions:

- ? Al
- ? Tammie
- ? Steven

The image displays two screenshots of the PACS software interface for a residential property (PID: 544787, 7943-2101-019). The top screenshot shows the 'Eligible for E-File' checkbox checked, with a blue checkmark and a callout box stating: "When this box 'Eligible for E-File' **IS** CHECKED, The property **IS** ELIGIBLE for E-File. (When the owner received a notice)". The bottom screenshot shows the checkbox unchecked, with a large red X and a callout box stating: "When this box 'Eligible for E-File' **IS NOT** CHECKED, The property **IS NOT** ELIGIBLE for E-File."

Customer Service – Additional Policies & Comments

1. First and foremost, we must be kind to our fellow co-workers and taxpayers. It is important for us to keep a level head and remain calm. If a taxpayer becomes unruly, please get a supervisor.
2. Not all accounts will receive an appraisal notice. If the value did not change, they will not receive one. Industry, mineral, or BPP accounts will go out at a later date. The accounts that have been noticed can be found on the events screen and also printed from there.
3. When you are on the phone with a taxpayer, stress the fact that they need to bring in documentation to support their case. Documentation can be pictures, appraisals, sales information, etc. All calls that request a specific appraiser will be sent directly to their voicemail.
4. When someone calls who is unable to come in for their scheduled **INFORMAL** protest, please pull up their account and check the status. Let them know they can come in any time prior to their appointment date. **THIS IS NOT FOR FORMAL PROTESTS**. Please be extra careful and look at their protest status before telling them this information. The status will either be a “MS” or “MMS”.
5. We are not allowed to tell the protestor which box to check on their protest form. We can only explain what each of the reasons mean. They can check all the boxes if need be. Make sure that the taxpayer has signed the protest form. Also, check to see if there is a phone number in the system. If someone is protesting for a relative, make sure that they have permission from the owner to do so. Check images to see if there is possibly something already scanned in saying it is ok for that person to protest for them.
6. Mail that comes in with no boxes checked will be set up as “other.”
7. Be very careful when setting up a protest that the protestor (on the screen) is correct. The protestor is the person who is mailed all the documents. If it is an agent, the protestor must be changed.
8. One of the most common questions is that the taxpayer has made no improvements to their property. Legislation has said that an improvement is any structure that improves the land; it does not mean it is necessarily new. An example would be a house, a barn, or a garage, etc.
9. Protests that are sent by mail will be separated in the board room. We will NOT be searching for protests after they are sent in, if the protestor calls and wants to know if we have received it, tell them to check back in a week or they can send in a duplicate copy just to be on the safe side.
10. When setting up protest do not put the protester’s comments into the system.

RETURNED MAIL:

All Scheduled Appointments:
All Business Personal Property:
All Hugh Landrum:
All Mobile Homes:
All Real Property:
All Ag

Worked by **Tosha and Naomi**
Worked by **Business Personal Property**
Worked by **Tosha and Janet**
Worked by **Missy**
Worked by **Customer Service**
Worked By **George**

DON'T FORGET TO WEAR YOUR LANYARDS AT ALL TIMES!!

Customer Service – Additional Responsibilities

Mail Processing

Protests that are mailed in should be opened, date-stamped and sorted by **Glenda Paul & Natalie Mejia**. Days with overwhelming amounts of mail may require additional Customer Service employees to help share the workload.

After the protest forms have been opened, stamped and sorted, they should be distributed to the appropriate department and/or individual, according to the Protest Procedures Flow Chart.

Specials (Agents & 10+ Protests) Processing

Specials (*which are considered any protest filed by an agent or an individual (when filing ten (10) or more properties*) will be processed collectively by **Tosha Hatfield and Naomi Williams**. After processed according to “Mail Processing” procedures, Specials should go to **Tosha**. She will contact the related parties and schedule a date/time for them to meet with one of our appraisers.

After the initial date/time has been set up, **Tosha** will forward the Specials to **Naomi** for further processing. The protests will then be set up in the computer system and scanned in. An email will be sent from **Naomi** with the accounts and days set up by Appraiser. This email will be sent to **Tosha**, and the assigned individual(s); **Alma Avendando and Tamara Campbell**. By sending the email to each of these individuals, they will be able to direct the agent/owner to the appropriate area in the building where their informal meeting will be held.

Additionally, if an agent/owner walks into our office wanting to protest 10 or more properties, consult **Tosha or Naomi**. They will contact the Appraisal Department to determine availability. The agent/owner may be able to protest the same day. If the Appraisal Department is too busy, the agent/owner will need to schedule a meeting at a later date and time with **Tosha or Naomi**. If agent doesn't show up, appraiser will notify **Alma Miller** and she will change the status to SIF. If agent wants to come back another day appraiser will need to check with **Tosha** first.

Mailed Documentation Processing

Mailed Documentation protests will be handled by **Tosha**. She will review all protests carefully to determine the appropriate person/department that the protest should be forwarded to. Most protests will be forwarded to the Appraisal Department, where they will go to **Julie Torres**, who will distribute the protests to the appropriate appraiser.

The appraiser will review the submitted documentation and send a settlement offer based on the information provided. The settlement offer may be a “value change” or a “no value change.”

Elderly, Disabled or Out of Town Processing

Similar to “Mailed Documentation” protests, Elderly, Disabled, or Out of Town protests will be handled by **Tosha**. The definition of “Out of Town” is defined as any travel time more than 1 hour. **Tosha** will review all accounts carefully to determine the appropriateness of a phone hearing. Most protests will be forwarded to the Appraisal Department, where they will go to **Julie**, who will distribute the protests to the appropriate appraiser.

The appraiser will contact the owner and request evidence from them, if not already submitted. The protest will then go through the normal channels and procedures of protesting. Many times, “Settlement & Waiver” or “Withdrawal” forms are mailed/faxed/mailed to owners who then sign and return the forms to our office. The account would then be closed out.

New Notices, CAD Changes & Corrected Notices

Property accounts that require new or corrected notices, or have had CAD changes applied to them will be maintained and coordinated by **Tammie Spencer**. Any related documentation should be forwarded to **Tammie’s** attention for further processing.

O’Connor & Associates and Appointment of Agent Forms

Any contact with O’Connor & Associates should be forwarded to **Tosha or Naomi**, with the exception of simple verification checks. For example, if a representative of O’Connor contacts our office to see if they are still coded to an individual’s account, you may verify this for O’Connor.

Appointment of Agent forms received from O’Connor should be forwarded to **Sabrina Serbantez** for processing.

Appraisal Review Board (ARB) Reschedules

All ARB reschedules should be forwarded to **Tosha Hatfield or Rachel Campbell**.

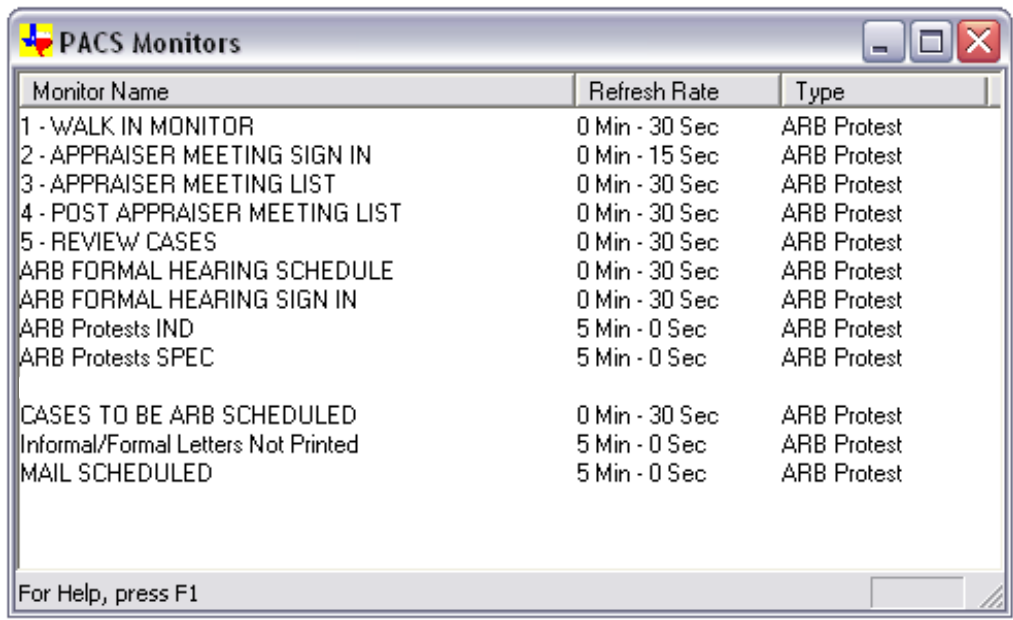
The ARB Reschedule Process is as follows:

1. The first ARB reschedule is “free” – but **MUST** be requested. It is ***not*** automatic.
 - a. We prefer to have a written request (by mail, fax or email) so that we can more easily document all the owner’s reschedules.
 - b. Written requests are **NOT REQUIRED** and if a taxpayer pushes after asking them to send a written request, we will make a note in the system and reschedule their account for a later hearing date.
2. The second ARB reschedule **REQUIRES** a written request.
 - a. We have a Formal Reschedule Request letter in the Protest Letters
 - b. OR they may type an email with the following information:
 - i. Owner’s name, address and account number
 - ii. Why they cannot attend the hearing
 - iii. When they ***will*** be able to attend a hearing
 - c. The written request will be submitted to the Appraisal Review Board. They will make a determination as to whether or not they will approve the reschedule.
 - d. We will send confirmation (via email when provided) by calling the owner to inform them of the approval or denial of the reschedule request.
3. The third ARB reschedule **REQUIRES** a written request.
 - a. This request also follows the same procedures as the second request, but we must explain to the taxpayer that it is highly unlikely that the ARB will approve the request unless there is very “good cause” shown.
 - b. We should strongly encourage the owner to send a representative in their place (as in a property agent or a family member/friend) or to submit an ARB Affidavit of Testimony. The ARB Affidavit of Testimony is available on our website. It must be faxed, hand-delivered or emailed (only if they have scanning capabilities to scan the affidavit).
4. The fourth ARB reschedule **REQUIRES** a written request within **4 days** of the missed hearing.
 - a. This request also follows the same procedures as the third request but must be made within 4 days of the missed appointment.

Remember the special email address for ARB reschedules:

arb@brazoriacad.org

Protest Guidelines – Appraisal Department



The screenshot shows a window titled "PACS Monitors" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window is a table with three columns: "Monitor Name", "Refresh Rate", and "Type". The table lists 14 different monitors, all of which are "ARB Protest" type. The refresh rates vary, with most being "0 Min - 30 Sec", and some being "0 Min - 15 Sec" or "5 Min - 0 Sec". At the bottom of the window, there is a status bar that says "For Help, press F1".

Monitor Name	Refresh Rate	Type
1 - WALK IN MONITOR	0 Min - 30 Sec	ARB Protest
2 - APPRAISER MEETING SIGN IN	0 Min - 15 Sec	ARB Protest
3 - APPRAISER MEETING LIST	0 Min - 30 Sec	ARB Protest
4 - POST APPRAISER MEETING LIST	0 Min - 30 Sec	ARB Protest
5 - REVIEW CASES	0 Min - 30 Sec	ARB Protest
ARB FORMAL HEARING SCHEDULE	0 Min - 30 Sec	ARB Protest
ARB FORMAL HEARING SIGN IN	0 Min - 30 Sec	ARB Protest
ARB Protests IND	5 Min - 0 Sec	ARB Protest
ARB Protests SPEC	5 Min - 0 Sec	ARB Protest
CASES TO BE ARB SCHEDULED	0 Min - 30 Sec	ARB Protest
Informal/Formal Letters Not Printed	5 Min - 0 Sec	ARB Protest
MAIL SCHEDULED	5 Min - 0 Sec	ARB Protest

For Help, press F1

Once the Taxpayer/Owner is at the 2nd floor, they will be signed into the PACS system by following these steps:

- 1.) Have the [1 - Walk In Monitor] up and readily available
- 2.) Open the particular account
- 3.) Under the [Appraiser Meeting] area, set the [Current Date/Time] to record the arrival time of the Taxpayer/Owner

After the Taxpayer/Owner is signed in, their account will fall off the [1 – Walk in Monitor] and appear on the [2 – Appraiser Meeting Sign In] Monitor. The account will then have a PRC printed to put in “next-in-line” to meet with an appraiser.

When the Taxpayer/Owner is called to meet with an appraiser the status will be changed to “AM (Appraiser Meeting)”.

Name:**Description:**

1. <u>Walk-In Monitor:</u>	Alma A. relieved by Alma M. Bea relieved by Lisa L.	Those in our office who are setup & on their way to the 2nd or 3rd floor.
2. <u>Appraiser Meeting Sign In:</u>	Alma A. relieved by Lisa L.	Those who are signed in on the 2nd floor waiting to see an appraiser.
3. <u>Appraiser Meeting List:</u>	Alma A. relieved by Lisa L.	Those who are with an appraiser
4. <u>Quality Control Meeting List:</u>	Margaret	Check for appraiser comments & initials and other inconsistencies.
5. <u>Post Appraiser Meeting List:</u>	Margaret	Those with completed protest & decisions. (I.E. PSNC, PSC, PARB, etc.)
6. <u>Review Cases:</u>	Cheryl/Preston/ Nancy	Results of all protest (executed & unexecuted)
7. <u>ARB Formal Hearing Schedule:</u>	Nancy/ Tosha	Protest formally scheduled
8. <u>ARB Formal Hearing Sign In:</u>	Nancy/ Tosha	Protestors who have arrived for formal hearing
9. <u>Cases to be ARB Scheduled:</u>	Tosha	Protested pending for formal schedule
10. <u>Mail Scheduled:</u>	Tammie Spencer	Protests pending for an informal schedule
11. <u>E-File:</u>	Nancy Ashburn	Protest initiated online

ARB Protest - Case No. 51 for 2013

Available Views:
☐ General
☒ Appraiser Meeting
☐ Hearing Minutes
☐ Values
☐ Letters
☐ Evidence
☐ Change Log
☐ Images
☐ Evidence

Property: 237524 7037-0020-110 Nbhd./Appr: S1850.AREA / NA/PB
 Owner: ARMSTRONG PATRICIA D PTD/Type: A1 / Residential
 Legal: PECAN GROVE (WEST COLUMBIA), LOT 26 Ent/Ex: CAD, CWC, DR9, EM1, EM2, C HS, OV65
 Situs: 219 11TH 1/2 ST WEST COLUMBIA, Agent: OCONNOR & ASSOCIATES

Appraiser: PB - PRESTON BROWN Docket ID:
 Meeting Time:
 Arrival Time: 4/1/2013 2:27 PM
 Taxpayer Comments: PROTESTED BY OWNER'S FATHER, AUTHORITY VERIFIED. TAXPAYER INFORMED THAT THE LISTED CARP NEEDS REPAIRS. PICTURES WERE PROVIDED
 Appraiser Comments: REMOVED CAR PORT FROM PROPERTY

Appraiser Assigned:
 ARB Assigned Market
 ARB Assigned Equity

Status: W (WALK IN INFORMAL)

Calculate Current Estimated Tax Refresh List

Value	Beginning	Notice	Current	Final
Date	04/01/2013	0	04/01/2013	0
Improvements HS	55,920	0	55,920	0
Improvements Non-HS	0	0	0	0
Land HS	5,080	0	5,080	0
Land Non-HS	0	0	0	0
AG / Timber Market	0	0	0	0
AG / Timber Use	0	0	0	0
Market	61,000	0	61,000	0
HS Cap Loss	0	0	0	0
Assessed	61,000	0	61,000	0
Exemptions	HS, OV65	0	HS, OV65	0

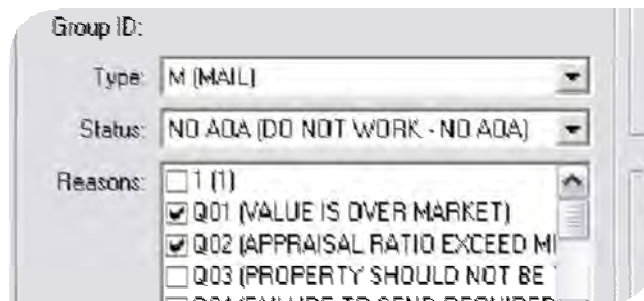
PROCEDURES

At the time the Taxpayer/Owner is meeting with appraisal staff, the following procedures should occur:

- 1.) **THE APPRAISER IS TO ENTER THEIR INITIALS.** Protest hearing is conducted as normal, following the "APPRAISER MEETING GUIDELINES" check-off sheet.
- 2.) The written protest is verified to have been scanned into the PACS system. Always preview your image to verify it was properly scanned.
- 3.) Important information is noted in [Taxpayer Comments] and/or [Appraiser Comments]
- 4.) Appropriate documentation is printed and signed by appraisal staff and Taxpayer/Owner:
 - a. Settlement Waiver
 - b. Delivery of Protest Information
 - c. Withdrawal of Protest
 - d. Fifteen (15) Day Notice Waiver
 - e. Enter final value on [Values] screen & verify this matches on [Roll History] Screen
- 5.) Appraisal staff changes status to:
 - a. [PARB] Pending ARB
 - b. [PSC] Pending Settled Change
 - c. [PSNC] Pending Settled No Change
 - d. [PWDIF] Pending Withdrawal Informal
 - e. [H] Holding
- 6.) Submission of all documentation and signature sheets to person for scanning and processing to **Margaret**.
- 7.) **Alma M.** will check the protest for missing appraiser initials.

Appraisal Department – Friendly Reminder

DO NOT WORK
an account that
DOES NOT
HAVE AN AOA



The screenshot shows a software window with the following fields:

- Group ID: (empty)
- Type: M (MAIL)
- Status: NO AOA (DO NOT WORK - NO AOA)
- Reasons:
 - ☐ 1 (1)
 - ☒ Q01 (VALUE IS OVER MARKET)
 - ☒ Q02 (APPRAISAL RATIO EXCEED MI)
 - ☐ Q03 (PROPERTY SHOULD NOT BE)
 - ☐ Q04 (FAILURE TO SEND REQUIRED)

If the account has a status of “NO AOA (DO NOT WORK – NO AOA)”, then do not work the account until the agent that you are working with provides our office with an Appointment of Agent form.

The agent should submit the AOA to our office, preferably via email. The customer service department will enter the agent authority, scan the AOA and update the account.

Customer Service will then change the status from “NO AOA” to “Special” or “Mail” or whatever the appropriate status for the situation of the account should be.

Once the authority is added and the status is changed, you may work that particular account

Appraisal Department – Additional Policies & Comments

Informal Appeals Process

Introduction

The informal appeal process procedures cover property assessment appeals initiated by property owners. These informal procedures are intended to help create a simple, understandable, responsive, and cost-conscious system that will be effective in removing assessment inequities.

Informal assessment appeals are a very important component in the entire appeals process. Appeals provide an opportunity for property owners to meet with an appraiser to inquire about their assessment and learn about assessment and appeal procedures. It is imperative that BCAD appraisers and staff understand the appeals process and procedures to better help explain the process to property owners.

This informal process allows a large number of property owners to obtain information, state their grievances, and perhaps resolve their appeals in a simple, low cost manner. During the informal review the property owner will be able to receive information and provide responses to broad requests. Strict confidentiality of information must be maintained as required by statute, rules, and regulations.

Informal Review by the Appraiser

The informal review is the first step a property owner will go through during a protest of their property. The four reasons a property owner may seek an informal review of their assessed value include:

- Factual error – that is, data collection or clerical error.
- Uniformity claim – claim of discriminatory level of assessment.
- ☐ Belief that the valuation is inaccurate.
- ☐ Exemption claim

When one of these disputes are brought up, a protest form is given to the property owner and a protest is created. Using the protest form allows the protest to be stated in a written form and dates the protest so that the property owner does not inadvertently lose the right to appeal because of untimeliness.

The informal review may, at the option of the property owner, be handled by a face to face meeting, telephone conference, mail, fax, or electronic mail. The informal review allows both the property owner and appraisal district to consider their positions before the formal appeal takes place in front

of the Appraisal Review Board. The informal review will begin with an informal meeting between the appraiser and the property owner to:

- ☐ Identify and document errors
- ☐ Review the uniformity of assessment
- ☐ Determine to what extent the appraiser and the property owner can agree upon. This could include:
 - o Property boundaries
 - o Property characteristics
 - o Use or classification of the property
 - o Gross and net income (if applicable)
 - o Particulars of a sale or comparable sales (if applicable)
 - o Construction costs (if applicable)
 - o Financial conditions that have an effect on value
- ☐ Identify and clarify the basis for an exemption claim

****** IT IS REQUIRED THAT EACH APPRAISER DOES NOT MAKE ANY CHANGES TO THE APPRAISAL RECORDS IN AN INFORMAL PROCESS UNLESS:**

- ☐ THERE IS A GRID CORRECTLY CONFIGURED SHOWING A CHANGE IS NEEDED.
- ☐ THERE IS AMPLE EVIDENCE FROM THE TAXPAYER SHOWING THAT AN ADJUSTMENT IS REQUIRED (IT IS THE RESPONSIBILITY OF THE APPRAISER TO MAKE SURE THAT THE EVIDENCE IS SCANNED INTO THE ARB IMAGES)
- ☐ SOME OTHER TYPE OF EVIDENCE THAT SHOWS A CHANGE IS REQUIRED (THIS EVIDENCE SHOULD BE APPROVED BY A SUPERVISOR).

******AT NO POINT SHOULD A CHANGE BE MADE TO THE APPRAISAL RECORDS THAT DOES NOT INCLUDE EVIDENCE (PER “SUPERVISOR INITIALS” IN APPRAISER COMMENTS WILL NOT SUFFICE AS EVIDENCE) ******

If time is needed for the property owner to retrieve any documents, pictures, appraisals, and etc... Then the appraiser should give the property owner ten days to return such evidence. If more time than ten days is required the appraiser should make sure to let the property owner know the amount of time that will be allowed. This can be accomplished by giving the property owner a date on which they must have all evidence to the appraiser. To accomplish this fill out the evidence form and keep it with the protest paperwork. The appraiser should also notate in the appraiser comments the date which evidence must be presented by. The status of the protest should be placed on Hold until the evidence is returned or the protest is closed out.

After this informal meeting if all necessary documentation has been collected by the appraiser then an informal decision based on evidence collected during the meeting should be given to the property owner. This decision should be in the form of a Settlement Waiver and will include the improvement value, land value, and market value of the protested property.

If evidence was requested and the property owner does not return the evidence within the allotted time then a Settlement Waiver should be sent through the mail to the property owner and the protest should be closed or setup for the ARB.

If the property owner does not agree with the appraiser then the protest will be setup for a formal protest before the Appraisal Review Board. If the property owner decides to go to the formal appeal then the appraiser should make sure all comments are complete and correct. Then the appraiser should set the status to PARB. Let the protester know that a customer service designee will send them all the documents that explain the formal appeals process in the mail. Do not forget to let them know the following:

By not signing this form the account will be setup for the Appraisal Review Board. The value presented to the ARB will reflect the value in the appraisal records as submitted to the ARB by the chief appraiser under section §25.22 or §25.23. This value WILL NOT reflect any change made by the appraiser during your informal meeting.

Appraisal Review Board

The Appraisal Review Board is the second step a property owner will go through during a protest of their property. As stated above this process will begin if the property owner was unable to come to an agreement with the appraiser during the informal meeting. Notify the owner that before the protest goes to the ARB it will be set back to noticed value.

Conflict of Interest

A member of the appraisal staff who appears to have a conflict of interest, a personal bias or prejudice, or an apparent or non-apparent interest in a property will not be involved in a protest during informal or formal appeal.

ARB Survey

If a protester has a complaint after a formal hearing please direct them to the 3rd floor to speak with **Daryl Schwebel**, ARB Liaison or direct them to the ARB survey. They may also take the survey if it is an informal hearing. If **Daryl** is unavailable other district staff will be assigned.

Important Informal Information to Remember

Some information that all appraisers should remember is listed below:

1. Function – Interior or onsite obsolescence (1 bedroom house, mote around the house, asbestos siding, etc.)
2. Eco – Outside economic detractor (garbage dump across street, busy road, etc.)
3. Cost to Cure – Property owner gives you an estimate of \$10k to fix roof. Do not just take a house that is already in fair condition another \$10k. The proper way to use cost to cure is to look at what comparable properties are selling for, apply the median range price per square foot to the subject and then back out the cost of the repairs. For example a house is 2000 sq. ft. and appraised at \$140,000 or \$70 sq. ft. After look at comparable sales of a reasonable number of comparable properties appropriately adjusted you determine that the median rang price per square foot is \$72. You would then take the 2000 sq. ft. times \$72 which equals \$144,000 then subtract the \$10,000 for repairs to come to \$134,000.
4. Modifiers and Distributed Value – Use only when it is a market and/or equity issue as these adjustments should be removed within the next year. The appraiser should explain this to the taxpayer during the informal meeting.
5. Evidence – We are required by the state comptroller's office to create a file on any appraisal record changed during the course of an informal meeting. This means that the evidence should be scanned into the ARB Images on every account. If there is no evidence then there should not be a change made to the appraisal records.
6. Informal Meeting – Remember that you are having an informal meeting with the taxpayers and under no circumstances should it be called a hearing. The only hearing the property owner has is before the ARB.

Informal Meeting Reminders

Below are the informal review reminders and rules that every appraiser should use when conducting an informal review. These rules are always subject to change and any questions or suggestions should be given to the appraiser's immediate supervisor.

1. Enter your initials in the Appraiser Meeting screen under Appraiser
2. Inform the Taxpayer that this is their informal meeting. Answer any questions about the informal/formal process.
3. Verify Name/Address
4. Ask if house is listed for sale
5. Look at Pictometry or Google Earth on every account
6. Review Exemptions
7. Briefly describe data for verification
8. Look to see if there was a sale
9. Look at previous years protest if applicable
10. Other areas to look at include:
 1. Appraiser Info Screen
 2. Images

3. Properties
4. Notes on First Improvement
11. Adjustments to look for include:
 1. Functions – Obsolescence on the property
 2. Economic – Obsolescence outside the property
 3. Adjustments – Cost to Cure (One-time adjustment)
 4. Modifier and Distributed Values – Market Only Adjustments
12. Understand Equity – if the mean (average) price per square foot in a subdivision is \$85 and the median range of appraisal is at 99% then the absolute equitable and uniform value for a 2,000 s/f home on a primary lot with no additional amenities would be: $\$85 \times 2000 = \$170,000$ @ 99% = 168,300. DO NOT automatically go to 95% of a sale unless it meets this standard.
13. Evidence – any change to the appraisal records must include evidence with **no exceptions**.
14. If the appraiser is going to make an adjustment, make sure that there is evidence to support the adjustment. If the overall adjustment is more than 10% then a supervisor must approve the adjustment. Make sure to note which supervisor approved the change in the comments section of the protest.
15. Let taxpayers know that we will hold a file open ten days to give the taxpayer time to present evidence. The ten days ending date should be noted to the comments screen. Writing the date on the back of your business card for the taxpayer is also a good idea.

ARB Procedures

An appraiser may not communicate with an ARB member about a protest, including evidence, arguments, facts, or any merits of the case except during the hearing on the protest. The appraiser also cannot communicate with an ARB member concerning a property that is or could be the subject of a protest, except when the property is discussed in another protest or used before the ARB as a comparison or sample property in another protest or proceeding.

When presenting evidence the appraiser should take into account that the ARB can only consider relevant evidence, which is information that has particular meaning in the hearing in which it is introduced. The ARB members will disregard any irrelevant evidence so the appraiser should only submit relevant evidence during the hearing. Remember evidence is information that helps the ARB decide what is factual. Evidence may include data, schedules, formulas, and other information. It can include appraiser and owner (if given during the informal process) opinions of value.

In a protest on appraised, market value, or unequal appraisal, the law states that the appraisal district has the burden of establishing the property's value by preponderance of the evidence or, in certain protests, by clear and convincing evidence presented at the hearing. Remember that appraised values are not presumed to be correct in protest hearings. If the appraisal district fails to meet the burden of proof, the ARB will determine the protest in the property owner's favor. Below

are some guidelines based on the type of protest that should be met prior to going into the protest hearing.

In a protest of unequal appraisal the Appraiser should establish at least one of the following:

- 1) The property's appraisal ratio is equal to or less than the median level of appraisals of a reasonable and representative sample of other properties in the appraisal district.
- 2) The property's appraisal ratio is equal to or less than the median level of appraisal of a sample of properties, consisting of a reasonable number of other properties similarly situated to or of the same general kind of character
- 3) The property's appraised value is equal to or less than the median appraised value of a reasonable number of comparable properties appropriately adjusted.

Remember that the unequal appraisal provision deals with a property owner not necessarily claiming that his or her value is incorrect, but that comparable properties are not appraised similarly, after adjusting for differences such as size, location, condition, or other relevant factors.

In a protest on a property with a market or appraised value of \$1 million or less, the appraiser has the burden of establishing the value of the property by clear and convincing evidence, as opposed to the weight or preponderance of the evidence, when an appraisal report is presented. The following information is required for an appraisal report:

- 1) The property owner or agent delivers an appraisal report to the chief appraiser at least 14 days before the hearing.
- 2) The appraisal was performed within 180 days of the hearing date.
- 3) The appraiser is certified under the Occupations Code Chapter 1103.
- 4) The appraisal is attested before an officer authorized to administer oaths.
- 5) The appraisal includes the certified appraiser's name and address, the property description, and statements that the appraised or market value, as applicable, was as of Jan. 1, was determined using appraisal methods authorized by Tax Code Chapter 23, and that the appraisal was performed in accordance with the Uniform Standards of Professional Appraisal Practice (USPAP).

It is also important to remember that all evidence presented to the ARB must be made available to the protester at least 14 days prior to the hearing if the protestor requests such information on the protest form, during the informal meeting, or in writing to the district. Submit all evidence request (HB 201) to **Tosha Hatfield**. Even if this information is not requested, the protestor should receive a copy of the documents to be presented directly prior to the start of their hearing. This is also the point that the protestor should furnish a copy of the documents that they intend to present to the board to **Tamara Campbell** to make copies of, unless it has already been submitted. If pictures are submitted they should be scanned by **Tamara** into the appraisal system prior to returning to the protestor.

Appraisal Department – Formal Processing



- 1) If the appraiser gives the taxpayer sales/information/etc., make sure to have that information scanned so it is available for ARB processing.
- 2) Evidence Requested
 - a. ****The appraiser is responsible getting all request for evidence to Tosha Hatfield when requested by the taxpayer during the Appraiser Meeting****
 - b. Verify that the request is scanned in the Requested Evidence Image Category.
- 3) Appraisal director will review prior to the ARB presentation. Additional questions may be asked of appraisers at that time and appraisers may be asked to sit in an ARB proceeding from time to time.

[illegible]

REGION: SUBD: 07502 (100%) NBHD: 0F11 (96%) SUBJECT: IMPROVEMENT VALUATION LIVING AREA: 4,290 APPR: 0F11 (96%) 02.27 SALE: 0F11 (96%) 10.14																			
IS	TYPE	DESCRIPTION	MTHD	CLASS/SUBCL	AREA	UNIT PRICE	UNITS	STY	BUILT	EFF YR	COND.	VALUE	DEPR	PHYS	ECOM	FUNC	COMP	ADJ	ADJ VALUE
A	MA		R	6/	2,856.0	71.80			2004	2004	GD	210,780	95%					0.95	200,240
B	MAM		R	6/	1,434.0	68.21			2004	2004	GD	97,810	95%					0.95	92,900
C	OMP		R	6/	32.0	17.05			2004	2004	GD	550	95%					0.95	520
D	CP		R	6/	144.0	9.58			2004	2004	GD	1,380	95%					0.95	1,310
E	BG		R	6/	308.0	22.68			2004	2004	GD	6,990	95%					0.95	6,640
F	BG		R	6/	484.0	22.68			2004	2004	GD	10,980	95%					0.95	10,430
G	AU		R	6/	428.0	5.46			2004	2004	GD	2,340	95%					0.95	2,220
H	AU		R	6/	184.0	5.46			2004	2004	GD	1,010	95%					0.95	960
I	OMP		R	6/	170.0	17.05			2004	2004	GD	2,900	95%					0.95	2,750
1.	Residential		STCD: A1		6,040.0	2004			Homesite: Y (100%)			334,740							Living Area: 4,290 317,990

The image above is Section A of the PRC at the beginning of this appendix. This is the first area you will look at when determining the value of the improvements. In the case of this PRC there is only one section of improvements, but if there were multiple they would all be handled in the same manner. The following are the most important areas you need to know about when trying to determine the values. A basic overview of each item is given below. A more in depth look at the calculations will be given further down:

- A) LINE #** - These are the lines of each different type of improvement for this region. In this example there are nine lines which include lines A, B, C, D, E, F, G, H, and I.
- B) NBHD** - This is the neighborhood % that is used when calculating the values. In the case of this PRC the NBHD % is 96%.
- C) AREA** - This is the area of each individual type of improvement. The first improvement in the example is on line A of Region 1 and the AREA is 2856.
- D) UNIT PRICE** - This is the unit price of the specific line of the improvement. This value is determined by using the Residential schedule. The first improvement in the example is on Line A of Region 1 and the Unit Price is 71.80. To find this number take the base price * Exterior Wall +/- Heating and Cooling. In the example the unit price base for Class 6 house is 65.872 approx. The ext wall is R1 (Brick Veneer +9%) so the 65.338 + 109% = 71.80
- E) VALUE** - This is the subtotal of the AREA multiplied by the UNIT PRICE and then if the line that you are on is the MA like line A is you then add in the IMPROVEMENT FEATURES (which can be found in Section C of the PRC at the beginning of the appendix). The first improvement in the example is Line A of Region 1 and the VALUE is $2856 * 71.80 + 5,720 = 210,780$
- F) DEPR** - This is the depreciation based on the EFF YR, COND and is determined by using the DEPR. Schedule. The first improvement in the example is on Line A of Region 1 and the DEPR is 95%.
- G) IMPROVEMENT ADJUSTMENTS** - This is the area that will have any other adjustments on the specific line that is being calculated (phys., econ., func., and % comp.) The first improvement in the example is Line A of Region 1 does not have any adjustments in this section so each of theses adjustments are considered to be at 100%.
- H) ADJ** - This shows the total adjust made from the VALUE section which is E in the example above to the ADJ VALUE which is I in the example above. The problem with this ADJ value is that it only goes to two decimal places on the PRC which makes it useless. This value **SHOULD NOT** be used in **ANY** calculations for any reasons.
- I) ADJ VALUE** - This is the value of each line. The basic equation looks like this:
 1. $((\text{AREA} * \text{UNIT PRICE}) * (\text{DEPR \%}) * (\text{PHYS \%}) * (\text{ECO \%}) * (\text{FUNC \%}) * (\text{COMP \%})) = \text{ADJ VALUE ROUNDED}$

- J) ADJ VALUE TOTAL** – This is all the ADJ VALUE line totals added together.
- K) REGION NUMBER** - This is the number of Region in the example the arrow is pointing at the Region 1 number.

The image below is Section B from the PRC at the beginning of this appendix. This section of the PRC is applied only to Region 1 of the PRC and is calculated after arriving at the ADJ VALUE TOTAL and before applying the NBHD code.

IMPROVEMENT DETAIL ADJUSTMENTS			
#	ADJ TYPE	ADJ AMT	ADJ %
A		B	C

- A) **ADJ TYPE** – This is the type of adjustment given
 B) **ADJ AMT** – This is where the amount of adjustment would be at if the adjustment was a flat value.
 C) **ADJ %** - This is where the ADJ % would be at if it is a %.

IMPROVEMENT FEATURES			
DESCRIPTION	UNITS	CODE	VALUE
Foundation	1	1	0
Exterior Wall	1	R1	0
Interior Finish	1	1	0
Roof Style	1	1	0
Plumbing	1	16	3,560
Fireplace	1	1P2	2,160
Flooring	1	2	0
Flooring	1	1	0
Heating/Cooling	1	RC1	0
Heating/Cooling	1	RH2	0
			<u>5,720</u>

The image to the left is Section C from the PRC at the beginning of this appendix. These improvement features are amenities that are added to the MA that are not included in the base schedule for the property. An example would be a Fireplace and/or more Plumbing fixtures than were originally included in the base amount. This total is then added in after multiplying the AREA by the UNIT PRICE. This is only for the MA(not MAM or any derivative).

A

B

C

D

E

F

G

H

REGION:	SUBD: S7502 (100%)		MEND: SF 11 (100%)		SUBSET:		LAND VALUATION		PR Wells:		Capacity:		IRR Acres:		Oil Wells:	
L#	DESCRIPTION	TYPE	SOIL	CLS	TABLE	SC HS	METH	DIMENSIONS	UNIT PRICE	ADJ	MASS/DJ	VAL SRC	INITIAL			
1.	WATERFRONT RU-21	S4		RUB	S7502-1	A1 Y (100%)	SQ	12937.00 SQ	7.00	1.00	1.00	A	90,560			
													90,560			

The image above is Section E from the PRC at the beginning of this appendix. This section of the PRC applies to the land value of the property.

- A) LINE #** - This is the line number. In the example there is only one land segment, but some properties could have multiple segments. In the case of multiple segments they are all treated the same and just added together at the end to come up with the LAND MKT VALUE.
- B) NBHD** – This is the NBHD code for land. This is what you will multiply the MKT VAL by to get the LAND MKT VALUE.
- C) DIMENSIONS** – This is the dimension of the land segment.
- D) MEASUREMENT** - This is the measurement that the dimension is in. In the example the measurement is in SQ or square foot, but on other properties you may see a AC here which would mean that it is valued per acre

- E) **UNIT PRICE** – This is the price per whatever type of MEASUREMENT is used. In the case of the example this is 7 per sq ft.
- F) **ADJ** – This is the adjustment % if there are any adjustments as seen in Section F of the PRC.
- G) **MASS ADJ** – This is the % of any mass adjustment that might affect the value.
- H) **MKT VAL** – This is the market value prior to any NBHD adjustments. To determine this value use this equation $((\text{DIMENSION} * \text{UNIT PRICE}) * \text{ADJ}) * \text{MASS ADJ} = \text{MKT VALUE}$ to get the LAND MKT VALUE as seen in Section D of the PRC then use this calculation $(\text{MKT VALUE} * \text{NBHD}) = \text{LAND MKT VALUE}$

LAND ADJUSTMENTS			
LN#	ADJ TYPE	ADJ AMT	ADJ %
1.	LNDMD		100.00

beginning
land adjustments
under ADJ that was

The image to the left is Section F from the PRC at the beginning of the appendix. This is a detailed view of the land adjustments that are used in Section E of the PRC previously discussed.

PRODUCTIVITY VALUATION				
AG	AG USE	AG TABLE	AG UNIT PRC	AG VALUE
N			0.00	0

The image to the left is Section G from the PRC at the beginning of the appendix. This area of the PRC is used to determine the PROD LOSS in Section D of the PRC. Below is an explanation of the different parts of this section that you need to know.

- A) **AG** – This area gives the information on if a property is receiving some type of productivity valuation. In the case of the example there is no productivity valuation, so the value of the AG is N for no. If there was a productivity value though this value would show a Y for yes.
- B) **AG USE** – This value will tell you what type of AG USE is being used. For example it might say 1D1 or 1D.
- C) **AG TABLE** – This will let you know what table the AG UNIT PRC is coming from.
- D) **AG UNIT PRC** – This is let you know what the AG UNIT PRICE is. You will use this value to determine the AG Value.
- E) **AG VALUE** – This is the PROD LOSS value for the productivity valuation. To calculate this value you get the Dimensions from Section E and Multiply by the AG UNIT PRC. This value is then reported in Section D of the PRC under PROD LOSS.

VALUEMETHOD		D 2010 VALUES	C 2011 VALUES
IMPROVEMENT		287,440	305,270
LAND MKT	+	90,560	90,560
MARKET	=	378,000	395,830
PROD LOSS	-	0	0
APPRAISED	=	378,000	395,830
HS CAP LOSS	-	0	0
ASSESSED	=	378,000	395,830

The image to the left is Section D from the PRC at the beginning of the appendix. This area of the PRC is used to determine the overall ASSESSED VALUE and shows the totals from all the other Sections. Below is an explanation of each line.

- A) This is the total of the IMPROVEMENT VALUE that is determined in Section A of the PRC. To get this number following the steps below in calculating the Total Improvement Value.
- B) This is the LAND MKT VALUE that is determined in Section E of the PRC. To get this

number following the steps below in calculating land value.

- C) This is the MARKET VALUE that is determined by adding IMPROVEMENT VALUE to LAND MKT VALUE. In the example $305,270 + 90,560 = 395,830$.
- D) This is the PROD LOSS that is determined in Section G of the PRC. To get this value follow the steps below in calculating productivity value.
- E) This is the APPRAISED VALUE that is determined by taking the MARKET VALUE and subtracting the PROD LOSS. In the example $395,830 - 0 = 395,830$.
- F) This is the HS CAP LOSS that will have a value if there is any HS CAP that is associated with this property. In the example there is no HS CAP so the value is 0.
- G) This is the ASSESSED VALUE that is determined by taking the APPRAISED VALUE and subtracting the HS CAP LOSS. In the example $395,830 - 0 = 395,830$.

Steps in Calculating the Total Improvement Value

REGION:		SUBD: 07502 (100%)		NBHD: 0F11 (96%)		SUBSET:		IMPROVEMENT VALUATION		LIVING AREA: 4,290		APPR/SGFT: 92.27		SALE/SGFT: 101.14				
#	TYPE DESCRIPTION	MTHD	CLASS/SUBCL	AREA	UNIT PRICE	UNITS	STY	BUILT	EFF YR	COND.	VALUE	DEPR	PHYS	ECOM	FUNC	COMP	ADJ	ADJ VALUE
A	MA	R	6/	2,856.0	71.80			2004	2004	GD	210,780	95%					0.95	200,240
B	MAM	R	6/	1,434.0	68.21			2004	2004	GD	97,810	95%					0.95	92,920
C	OMP	R	6/	32.0	17.05			2004	2004	GD	550	95%					0.95	520
D	CP	R	6/	144.0	9.58			2004	2004	GD	1,380	95%					0.95	1,310
E	BG	R	6/	308.0	22.68			2004	2004	GD	6,990	95%					0.95	6,640
F	BG	R	6/	484.0	22.68			2004	2004	GD	10,980	95%					0.95	10,430
G	AU	R	6/	428.0	5.46			2004	2004	GD	2,340	95%					0.95	2,220
H	AU	R	6/	184.0	5.46			2004	2004	GD	1,010	95%					0.95	960
I	OMP	R	6/	170.0	17.05			2004	2004	GD	2,900	95%					0.95	2,750
1.	Residential	STCD: A1		6,040.0	2004	Homesite: Y (100%)		334,740		Living Area: 4,290		317,990						

1. The first step is to determine the adj value of each line above. In this example it will include line # A, B, C, D, E, F, G, H, and I as seen in the above picture. In the case of this example there is only 1 region, but other property cards may have multiple regions that will all need to be calculated. To calculate this adj value you have to do this calculation $(((((\text{AREA} * \text{UNIT PRICE}) * \text{DEPR} \%) * \text{PHYS} \%) * \text{ECO} \%) * \text{FUNC} \%) * \text{COMP} \%)) = \text{ADJ VALUE ROUNDED}$ or if MA (not MAM or any derivative) $(((((\text{AREA} * \text{UNIT PRICE} + \text{IMPROVEMENT FEATURES TOTAL}) * \text{DEPR} \%) * \text{PHYS} \%) * \text{ECO} \%) * \text{FUNC} \%) * \text{COMP} \%)) = \text{ADJ VALUE ROUNDED}$

Region 1

- A. $(((((2856 * 71.80 + 5720) * (.95) * (1) * (1) * (1) * (1))) = 200,240$
- B. $(((((1434 * 68.21) * (.95) * (1) * (1) * (1) * (1))) = 92,920$
- C. $(((((32 * 17.05) * (.95) * (1) * (1) * (1) * (1))) = 520$
- D. $(((((144 * 9.58) * (.95) * (1) * (1) * (1) * (1))) = 1,310$
- E. $(((((308 * 22.68) * (.95) * (1) * (1) * (1) * (1))) = 6,640$
- F. $(((((484 * 22.68) * (.95) * (1) * (1) * (1) * (1))) = 10,430$
- G. $(((((428 * 5.46) * (.95) * (1) * (1) * (1) * (1))) = 2,220$
- H. $(((((184 * 5.46) * (.95) * (1) * (1) * (1) * (1))) = 960$
- I. $(((((170 * 17.05) * (.95) * (1) * (1) * (1) * (1))) = 2,750$

2. Add all of the lines in each region together, but make sure to keep the totals of each region separate. For this example we will be adding the ADJ VALUES ROUNDED as in the example above for Region 1: $(A + B + C + D + E + F + G + H + I) = \text{REGION 1 TOTAL}$

Region 1

- (a) $(200,240 + 92,920 + 520 + 1,310 + 6,640 + 10,430 + 2,220 + 960 + 2,750) = 317,990$

- Region 1 then is required to multiply all the lines by any IMPRVEMENT DETAIL ADJUSTMENTS and then by the NBHD %. (**REGION 1 TOTAL**) * (**IMPROVEMENT DETAIL ADJUSTMENTS**) * (**NBHD %**) = **REGION 1 IMPROVEMENT VALUE** if the region is anything other than 1 then use this calculation ((**REGION ?(2,3,4, etc...)**) **TOTAL** * **NBHD %**) See the example below for the example property.

Region 1

$$(a) \quad (((317,990 * 1) * .96) = 305,270$$

- The final step is to add the Regions together to get the TOTAL IMPROVEMENT VALUE. In the case of the example there is only one region. For example purposes I will add 0 for region 2 to show the calculation. The calculation will look like this (**REGION 1 IMPROVEMENT VALUE** + **REGION 2 IMPROVEMENT VALUE** + etc...) = **IMPROVEMENT VALUE**. This IMPROVEMENT VALUE can be seen in section D of the PRC.

$$(a) \quad (317,990 + 0) = 317,990$$

Steps in Calculating Land Value

REGION:		SUBD: S7502 (100%)		NBHD: SF 11 (100%)		SUBSET:		LAND VALUATION		IRR Wells:		Capacity:		IRR Acres:		Oil Wells:	
LN	DESCRIPTION	TYPE	SOIL	CLS	TABLE	SC	HS	METH	DIMENSIONS	UNIT PRICE	ADJ	MASS ADJ	VAL SRC	MTL VAL			
1.	WATERFRONT RU-21	S4		RUB	S7502-1	A1	Y (100%)	SQ	12937.00 SQ	7.00	1.00	1.00	A	90,560			
														90,560			

- The first step is to multiply the region(s) dimensions by the unit price to come up with the LAND SUBTOTAL amount. The calculation will look like (**DIMENSIONS** * **UNIT PRICE**) = **LAND SUBTOTAL**

Region 1

$$(a) \quad (12937 * 7) = 90,559$$

- The next step is to multiply the LAND SUBTOTAL by the ADJ value and MASS ADJ value to come up with the REGION TOTAL ROUNDED. The calculation will look like (**LAND SUBTOTAL** * **ADJ**) * **MASS ADJ**) = **REGION TOTAL ROUNDED**

Region 1

$$(a) \quad ((90,559 * 1) * 1) = 90,560$$

- The final setup is to add the REGION TOTALS together and multiply them by the NBHD factor. In the case of the example we only have one region so I will add 0 for a second region to help illustrate the calculation. The calculation will look like (**REGION 1 TOTAL ROUNDED** + **REGION 2 TOTAL ROUNDED** + etc...) * (**NBHD %**) = **MARKET VALUE**. This market value can be seen in the Section D of the PRC.

$$(a) \quad ((90,560 + 0) * 1) = 90,560$$

Steps in Calculating Productivity Valuation

PRODUCTIVITY VALUATION			
AG	AG USE	AG TABLE	AG UNIT PRC
N			0.00
			0
			0

- The first step if this property had a productivity value would be to take the dimensions making sure they are in an acre value and multiplying them by the AG UNIT PRC that would be in the box above. The calculation looks like this (**DIMENSIONS IN AC * AG UNIT PRC**) = **PROD LOSS**. The PROD LOSS value can be seen in the Section D of the PRC. Since this property does not have any productivity valuation you will notice that the value is 0.

$$(a) \quad ((12,937 / 43560) * 0) = 0$$

REGION: SAN2		SUBD: 88810 (100%)		NBHD: COMM (100%)		SUBSET: FFR		IMPROVEMENT VALUATION				LIVING AREA: 2,292		APPR/SQFT: 88.34		SALE/SQFT:			
#	TYPE DESCRIPTION	MTHD	CL	99/SUBCL	AREA	UNIT PRICE	UNITS	STY	BUILT	EFF YR	COND.	VALUE	DEPR	PHYS	BOON	FUNC	COMP	ADJ	ADJ VALUE
A 349	FAST FOOD RESTAURA	M/S	D25		2,292.0	31.30	1		1977	1977		0	100%					1.00	71,740
1.	FAST FOOD	STCD: F1			2,292.0	(E1977)			Homesite: N			0				Living Area: 2,292			71,740
	STORM DAMAGE REPAIRED * BP 75,000																		
A YPC	CONCRETE PAVING AV	C	C/		22,469.0	3.16	1		1977	1977	PN/FN	71,000	50%					0.50	35,500
2.	CONC PAVING	STCD: F1			22,469.0	(E1977)			Homesite: N			71,000				Living Area: 0			35,500
A C	LIGHT POLES	/			0.0	0.00						0						1.00	12,600
3.	LIGHT POLES	STCD: F1			0.0				Homesite: N			12,600	(Flat Vals)			Living Area: 0			12,600
	6 SING 2 DBL																		
A I	DUMPSTER AREA	/			0.0	0.00			1977			0						1.00	1,500
4.	DUMPSTER AREA	STCD: F1			0.0	(E1977)			Homesite: N			1,500	(Flat Vals)			Living Area: 0			1,500

The image above is an example of what Section A of the PRC might look like on a commercial property. This information is important, because it shows how the property is being valued and what information will be needed to determine the correct value of the property.

A) MTHD M/S – This code stands for Marshall & Swift. In order to calculate the value on this property then a M/S worksheet will need to be printed. The basic equation when using the worksheet is (((Basic Structure 1 * Cost)+(Basic Structure 2 * Cost)+(etc..))*Depr.) = Depreciated Cost. An example of the worksheet is below:

B) MTHD C – This code stands for commercial and means that the value is derived from the commercial cost schedules.

Another type of commercial property that needs special consideration is income producing properties. These are properties that are valued based on the income that they produce and not by the individual improvements on the property. On properties that are based on income an Income Calculation Worksheet will need to be printed in order to determine the value. The worksheet will look like this:

Calculation Estimate Report				Page:	1
Prop ID:	266191	Date Calculated:	2/16/2011		
Property Owner:	JACK IN THE BOX INC				
Situs Address:	839 E MULBERRY ST HWY 35 ANGLETON,	Cost Data as of:	1/1/2010		
Imprv ID:	100139				
Imprv Det ID:	174882	Report Date:	1/1/2010		
BASIC STRUCTURE	Unit or %	Cost	Total		
Base Cost	2,292	87.46	200,458		
Exterior Walls	2,292	13.51	30,965		
Heating & Cooling	1	10.00	10		
Basic Structure Cost	2,292	100.97	231,433		
Less Depreciation					
Physical & Functional	69.00%		159,689		
DEPRECIATED COST	2,292	31.30	71,744		

Income Calculation Worksheet

2010

Page: 1
2/18/2011 11:36:05AM

Property Name: PROGRESSIVE DIESEL

Econ Area: HIGH

Year Built: 1982

Price per Unit: \$ 0.00

Type Code: OWH

Units: 0

GBA Price per Sq Ft: \$ 29.68

Class: OWH

Avg Unit Size:

Property ID	Owner Name	Situs	City	School	Dist %	Value
189866	FFOF LLC	8311 INDUSTRIAL DR PEARLAND,	CPL	SAL	100.00 %	148,410
Total Value:						148,410

Value Method: DC

Rate: Percent: Units of Comparison

Gross Building Area:	5,000
Net Rentable Area:	5,000
Leased Area:	5,000
Vacant Area:	0
(+) Leased Income:	27,600
(+) Vacant Income:	0
(=) Gross Potential Income:	27,600

100.00 %	Efficiency
100.00 %	Occupancy
0.00 %	Vacancy
5.52	Leased Rate
5.52	Vacant Rate
12,367.50	Rate per Month
5.52	GPI

(-) Vacancy:	2,760
(-) Collection Loss:	0
(+) Reimbursed Expenses:	0
(+) Secondary Income:	0
(=) Effective Gross Income:	24,840

0.55	10.00 %
0.00	0.00 %
0.00	0.00 %
0.00	0.00 %
4.97	100.00 %
EGI	

(-) Operating Expenses:	5,460
(-) Taxes:	4,046
(-) Management:	1,242
(-) Reserve for Replacement:	746
(-) Non-Recoverable Tenant Imp:	0
(-) Leasing Costs:	0
(=) Total Expenses:	11,483

1.09	
0.81	
0.25	5.00 %
0.15	3.00 %
0.00	0.00 %
0.00	0.00 %
2.30	46.23 %

Net Operating Income:	13,357
(f) Overall Cap Rate:	9.00
	148,411
(+) Excess Land Value:	0
(-) Other Personal Property Value:	0
(-) Leaseup Costs:	0
Adjustment:	0.00
Indicated Value:	148,410

2.67	53.77 %	NOI
29.68	Indicated Value RSF	

Comments:



ATTORNEY GENERAL OF TEXAS
GREG ABBOTT

August 20, 2003

The Honorable Mike A. Stafford
Harris County Attorney
Appraisal District Section
Post Office Box 920975
Houston, Texas 77292-0975

Opinion No. GA-0091

Re: Valuing repairs made to a residence homestead necessitated by flood, wind, fire, or other damage under sections 11.26 and 23.23 of the Tax Code (RQ-0023-GA)

Dear Mr. Stafford:

On behalf of the Harris County Appraisal District (the “District”), you ask how, under sections 11.26 and 23.23 of the Tax Code, the District should value repairs made to a residence homestead that were necessitated by floods, hurricanes, “fire, earthquake, wind, hail, ground shifts, termites, environmental contamination, or any other similar event.”¹

I. Background

You indicate that in June 2001 approximately 40,000 Harris County homes were damaged as a result of Tropical Storm Allison and that many of the same homes were flooded again in 2002. *See* Memorandum Brief, *supra* note 1, at 1. The District is uncertain how it should value the restored homes under section 23.23 of the Tax Code, which limits a residence homestead’s appraised value for a tax year, and section 11.26 of the same code, which limits the amount of tax that a school district may impose on homesteads of adults who are sixty-five or over (“seniors”). *See id.* at 2-4.

II. Relevant Statutes

Section 11.01 of the Tax Code directs that “[a]ll real and tangible personal property” located in this state is taxable unless other law exempts the property. TEX. TAX CODE ANN. § 11.01(a) (Vernon 2001). Generally, an appraisal district must appraise all taxable property in the district “at its market value as of January 1.” *Id.* § 23.01(a); *see also id.* §§ 1.04(7) (defining the term “market value”), 23.0101-.013 (setting forth methods for calculating market value). Your questions concern the valuation of certain improvements made to a residence homestead during the year under sections 23.23 and 11.26. *See* Memorandum Brief, *supra* note 1, at 3.

¹Letter from Honorable Mike Stafford, Harris County Attorney, to Honorable Greg Abbott, Texas Attorney General (Mar. 6, 2003) (on file with the Opinion Committee); Memorandum Brief attached to Request Letter, *supra*, at 3 [hereinafter Memorandum Brief].

Section 23.23(a) limits a residence homestead's appraised value:

The appraised value of a residence homestead for a tax year may not exceed the lesser of:

- (1) the market value of the property; or
- (2) the sum of:
 - (A) 10 percent of the appraised value of the property for the last year in which the property was appraised for taxation times the number of years since the property was last appraised;
 - (B) the appraised value of the property for the last year in which the property was appraised; and
 - (C) the market value of all new improvements to the property.

TEX. TAX CODE ANN. § 23.23(a) (Vernon 2001). For the sake of brevity, we refer to the amount defined in subsection (a)(2) as the "capped value." See Memorandum Brief, *supra* note 2, at 2-3. Subsection (e) restricts the meaning of the phrase "new improvement":

In this section, "new improvement" means an improvement to a residence homestead that is made after the appraisal of the property for the preceding year and that increases the market value of the property. The term does not include ordinary maintenance of an existing structure or the grounds or another feature of the property.

TEX. TAX CODE ANN. § 23.23(e) (Vernon 2001).

All or part of a certain homestead's appraised value may be eligible for an exemption from taxation or for a restriction on the permissible tax. See *generally id.* ch. 11 ("Taxable Property and Exemptions"). You mention, in particular, section 11.26, which freezes the amount of ad valorem tax a school district may impose on a senior's residence homestead at the amount the school district imposed in the first tax year in which the individual qualified as a senior. See *id.* § 11.26(a). Thereafter, improvements to the senior's residence homestead, "other than improvements required to comply with governmental requirements or repairs," permit the school district to increase the tax to reflect the improvements' value in the first year the homestead's value is increased on the appraisal roll. *Id.* § 11.26(b). The tax is then frozen at the increased level unless further improvements are made. See *id.*

Neither section 23.23 nor section 11.26 appear to use the term "improvements" consistently with the general definition stated in section 1.04 of the Tax Code: "(A) a building, structure, fixture,

or fence erected on or affixed to land”; or “(B) a transportable structure that is designed to be occupied for residential or business purposes.” *Id.* § 1.04(3)(A)-(B). Section 23.23’s exclusion of “ordinary maintenance of an existing structure” would be unnecessary if improvements included only new buildings, structures, fixtures, fences, or transportable structures. *See id.* §§ 1.04(3), 23.23(e). Similarly, section 11.26, which excludes “improvements required to comply with governmental regulations or repairs,” suggests a definition of the term “improvements” other than section 1.04 provides. *See id.* §§ 1.04(3), 11.26(b). In each case, the specific statutes vary from section 1.04’s general definition. *See TEX. GOV’T CODE ANN.* § 311.026 (Vernon 1998) (stating that a specific provision prevails as an exception to a general provision where the two cannot be harmonized).

III. Hypothetical Scenarios

You set out four scenarios to which you ask us to apply either section 23.23 or section 11.26. *See Memorandum Brief, supra* note 1, at 2-3. For each, you ask us to assume “that the properties were appraised in 2000, 2001, 2002, and 2003.” *Id.* at 2. In all four scenarios, you describe a homestead with a market value for 2001 of \$100,000, which, because of the ten percent cap set by section 23.23(a)(2), had an appraised value of \$70,000 in 2001. *See id.* at 2-3.

Scenario One: The home suffered \$15,000 in damage from [T]ropical [S]torm Allison. The damage was not repaired as of January 1, 2002. The appraisal district determined that the [property’s] market value . . . was \$85,000 for 2002. [Taking the lesser of the homestead’s market value and the capped valued (\$70,000 + \$7,000), in accordance with section 23.23(a),] . . . the 2002 appraised valued would be \$77,000, a ten percent increase even though the district had reduced the market value. As of January 1, 2003, the damage was fully repaired[,] and the district estimates that the repairs add \$15,000 to the [home’s] value The 2003 market value will be \$100,000, back to its pre-flood value. . . . Had there been no damage to the home, [its] appraised value would have been \$84,700 for 2003.

Scenario Two: [T]he home in this scenario . . . was completely destroyed by the storm in June 2001. Its 2001 market value was \$100,000, of which \$20,000 was attributable to the land and \$80,000 to the improvement. . . . [T]he capped appraised value for 2001 was \$70,000. On January 1, 2002, repairs had not been made[, and t]he appraisal district determined the [property’s] market value . . . to be \$20,000. [Under section 23.23, the homestead’s market value is less than the 2002 capped value (\$77,000), so the] appraised value for 2002 [is \$20,000]. As of January 1, 2003, a completely new home had been built on the property. The appraisal district estimates that the market value of the new improvement is \$80,000 and that the [land’s] market value . . . is \$20,000. The total market value is \$100,000 for 2003. . . . Had [the home not been

damaged], the 2003 appraised value would have been \$84,700 [The capped value is the sum of the preceding year's value plus ten percent plus the value of the new improvements: \$20,000 + \$2,000 + \$80,000 = \$102,000.]

Scenario Three: Assume that in Scenarios One and Two . . . the property owner also qualified for the over-65 "ceiling" on school taxes [under s]ection 11.26. Each owner's school tax levy was fixed at \$500 prior to 2001. For 2002, there would be no change in the maximum levy amount, even though the tax for that year might be lower. Unlike the ten percent homestead cap [under section 23.23(a)(2)], reductions in value do not change a frozen school tax levy. The question again concerns how 2003 will be handled.

Scenario Four: [T]he repairs . . . bring the property to a better than pre-flood state as worn or outdated components are replaced with new, up-to-date components. For example, a flood-damaged kitchen might have new cabinets, counter tops, flooring, and appliances installed [, which may enhance] the value of the property over its pre-flood value. Similarly, if the property owner builds a new structure on an elevated foundation, its value may be significantly greater than that of the pre-flood property. The enhancement in value, however, is incidental to the repair; the homeowner . . . simply intend[s] to restore his home to a functional state. . . . Moreover, if the owner makes significant other enhancements, such as adding an extra bath or increasing the size of the home, should value added by these enhancements be treated differently?

Id. at 2-3.

IV. First Issue: Whether Post-Flood Rehabilitation is a "New Improvement" for Purposes of Tax Code Section 23.23

The pivotal issue in determining how to value recent reconstructive work on a homestead is to decide whether the work is a "new improvement," which by definition "increases" the property's market value, under section 23.23(e). *See* TEX. TAX CODE ANN. § 23.23(e) (Vernon 2001). "[T]he market value of all new improvements" is one of the three numbers that must be added together to determine a homestead's capped value. *Id.* § 23.23(a).

Section 23.23(e) excludes from the scope of work that is a new improvement "ordinary maintenance." *Compare id.* § 11.26(b) *with id.* § 23.23(e). We find no helpful case law defining the term "ordinary maintenance," but the term "ordinary" by itself signifies "usual or common." *El Paso Elec. v. Real Estate Mart, Inc.*, 650 P.2d 12, 18 (N.M. Ct. App. 1982); *see also* X OXFORD ENGLISH DICTIONARY 912 (2d ed. 1989) (defining the term "ordinary" as "[c]ommonly practi[c]ed or experienced; common, customary, usual" and "not exceptional"). The term "maintenance"

suggests “keeping” a building “in working order, in repair.” IX OXFORD ENGLISH DICTIONARY 225 (2d ed. 1989); *see* TEX. GOV’T CODE ANN. § 311.011(a) (Vernon 1998) (directing that words and phrases be construed according to the rules of grammar and common usage). A Louisiana court classified certain repairs as “ordinary”: painting; repairing leaks; removing glass mould; replacing one frame of glass; erecting an iron post around an electrical substation; removing a small tree; and repairing the air conditioning system. *See Succession of Crain*, 450 So. 2d 1374, 1376 (La. Ct. App. 1984).

Given its common meaning, the term “ordinary maintenance” does not include substantial repairs and reconstruction necessitated by an extraordinary event like a tropical storm or hurricane. Whether repairs necessitated by other causes, such as termite infestation, constitute ordinary maintenance is a question of fact that the opinion process cannot resolve. *See* Tex. Att’y Gen. Op. No. GA-0003 (2002) at 1 (stating that the opinion process does not determine facts). Rather, the chief appraiser must determine the ordinariness of particular maintenance, subject to appraisal district board and judicial review. *See* TEX. TAX CODE ANN. §§ 6.03(a), 6.05(c) (Vernon 2001) (setting out appraisal board’s and appraiser’s authority).

For those improvements that increase a property’s market value and that are not ordinary maintenance, we are compelled to read section 23.23(a)(2) to require the appraiser to include their value in the calculation of the residence homestead’s appraised value. *See id.* § 23.23(a), (e).

You suggest that the term “ordinary maintenance,” which is excepted from new improvements that increase a homestead’s appraised value, should be defined to mean “repairs,” which are excepted from improvements for purposes of section 11.26 of the Tax Code. *See* Memorandum Brief, *supra* note 1, at 4. Even if the terms “maintenance” and “repair” may be synonymous, section 23.23(e)’s use of the adjective “ordinary” greatly limits the scope of the maintenance work that is excepted from new improvements for purposes of section 23.23. Thus, we cannot construe the phrases “ordinary maintenance” and “repairs” synonymously.

Moreover, the legislature has evaluated property loss that occurs due to a natural disaster and has determined that the appropriate remedy is not to adjust the homestead’s appraised value in the way you suggest, but to allow a taxing unit to authorize the damaged property’s reappraisal immediately following the disaster. Section 23.02 of the Tax Code permits “[t]he governing body of a taxing unit that is located partly or entirely inside an area declared to be a natural disaster area by the governor [to] authorize reappraisal of all property damaged in the disaster at its market value[,] immediately after the disaster.” TEX. TAX CODE ANN. § 23.02(a) (Vernon 2001). If a taxing unit authorizes a reappraisal, “the governing body [must] provide for prorating the taxes on the property for the year in which the disaster occurred.” *Id.* § 23.02(d). Although the statute does not define the term “natural disaster,” it must be a catastrophe officially declared a disaster by the governor. *See id.* § 23.02(a); *see also* TEX. GOV’T CODE ANN. § 418.014 (Vernon 1998) (authorizing the governor to declare a state of disaster if he or she finds that a disaster has occurred or that a threatened disaster is imminent).

A new subsection (f), added to section 23.23 in 2003 by the Seventy-eighth Legislature, does not apply to the homeowners in your hypotheticals, all of whom repaired or reconstructed their

damaged homesteads by January 1, 2003. The new section 23.23(f) excludes from the class of improvements that would otherwise constitute new improvements under subsection (e) “a replacement structure for a structure that was rendered uninhabitable or unusable by a casualty or by mold or water damage.” Act of June 1, 2003, 78th Leg., R.S., S.B. 340, § 9 (to be codified at TEX. TAX CODE ANN. § 23.23(f)). This new exclusion applies to property appraisals for tax years beginning on or after January 1, 2004, even if the casualty, mold, or water damage occurred before that date. *See id.* § 12(a), (d).

You also ask, in the fourth scenario, how improvements that increase the pre-flood value of the house, such as new countertops, new appliances, an extra bath, or additional square footage, affect a homestead’s valuation under section 23.23 when the improvements are made in the course of repairs from a tropical storm or similar disaster. Upgrades to the residence homestead that increase its market value are not ordinary maintenance and are plainly new improvements for purposes of section 23.23(a). Their value must be included in the capped value calculation.

V. Whether Post-Flood Rehabilitation is an “Improvement” for Purposes of Tax Code Section 11.26

You similarly ask whether the restorations described in scenarios one and two trigger a school tax increase under section 11.26(b) of the Tax Code. *See* Memorandum Brief, *supra* note 1, at 3-4. Because “repairs” are not improvements for purposes of section 11.26, we must consider the meaning of the term “repair.” *See* TEX. TAX CODE ANN. § 11.26(b) (Vernon 2001).

The term “repair,” which is not defined for purposes of section 11.26, must be defined consistently with its “common usage.” TEX. GOV’T CODE ANN. § 311.011(a) (Vernon 1998); *see* TEX. TAX CODE ANN. §§ 1.04, 11.26 (Vernon 2001). Case law suggests that repairs are reconstructive work performed after partial, but not total, destruction. “To repair means to restore to a sound or good state, after decay, injury, dilapidation, or partial destruction.” *Gulf City St. Ry. & Real Estate Co. v. City of Galveston*, 7 S.W. 520, 521 (Tex. 1888) (citing Webster’s Dictionary). Thus, the term “repair” does not encompass rebuilding a structure that was totally destroyed by fire. *See Realty & Reblgd. Co. v. Rea*, 194 P. 1024, 1029 (Cal. 1920) (stating that the term “repair” does not mean “replace”: the first means “to mend an old thing,” while the second means “to make a new thing”). In a patent case, a Michigan court described the difference between repair and reconstruction: “[I]f the new parts so dominate the structural substance of the whole as to justify the conclusion that it has been made anew, there is a rebuilding or reconstruction; and conversely, where the original parts, after replacement, are so large a part of the whole structural substance as to preponderate over the new, there has not been a reconstruction but only repair.” *Micromatic Hone Corp. v. Mid-West Abrasive Co.*, 78 F. Supp. 641, 645 (E.D. Mich. 1948) (quoting *Automotive Parts Co. v. Wis. Axle Co.*, 81 F.2d 125, 127 (6th Cir. 1935)), *aff’d*, 177 F.2d 934, 937 (6th Cir. 1949).

In a particular case, an appraiser must determine in the first instance whether work done on a particular structure constitutes repair. In the two scenarios you have set out, one residence suffered \$15,000 in damage, while the other was completely destroyed. In accordance with the definition of the term “repair,” the latter cannot be repaired; it must be rebuilt, and the rebuilt structure is an improvement for purposes of section 11.26(b). According to section 11.26’s plain language, the tax

may be increased accordingly. *See* TEX. TAX CODE ANN. § 11.26(b) (Vernon 2001). On the other hand, whether the former residence can be repaired or must be reconstructed is a question that requires the weighing of facts, which is not a function of this office. *See* Tex. Att’y Gen. Op. No. GA-0003 (2002) at 1 (stating that the opinion process does not determine facts). Moreover, the statute does not suggest how an appraiser should determine whether a homestead was partially destroyed, and therefore may be repaired, or totally destroyed and may not be repaired. Because the value of the damage totaled less than half of the homestead’s original value, an appraiser reasonably could find that the homestead was repaired, although the ultimate determination is for the appraiser. If an appraiser determines that a particular residence has indeed been repaired, section 11.26 of the Tax Code compels the conclusion that the homestead has not been improved, and the tax may not be increased. *See* TEX. TAX CODE ANN. § 11.26(b) (Vernon 2001).

You also ask about those situations in which a homeowner “bring[s] the property to a better than pre-flood state as worn or outdated components are replaced with new, up-to-date components” or makes significant other upgrades, above and beyond replacing old components with new, modern components. Memorandum Brief, *supra* note 1, at 3. In either case, you state that the residence’s post-restoration value exceeds its pre-flood value. *See id.*

Ultimately, the decision regarding whether a residence homestead has been repaired or improved for purposes of section 11.26 involves fact determinations that the appraiser must resolve in the first instance. We provide only guidance in this regard.

In the first situation you posit, upgrading fixtures and appliances constitutes repair for purposes of section 11.26 so long as the components of the original structure “preponderate.” *See Micromatic Hone Corp.*, 78 F. Supp. at 645 (quoting *Automotive Parts Co.*, 81 F.2d at 127). Section 11.26(c) refers to improvements and repairs “to the . . . residence homestead,” not repairs to individual components. TEX. TAX CODE ANN. § 11.26(b) (Vernon 2001). Thus, although a dishwasher, for example, may be damaged beyond repair and require replacement, the residence homestead itself is repaired by installing a new dishwasher.

On the other hand, building a new structure on an elevated foundation is not a repair because the structure is new; you tell us that the original structure was completely destroyed. *See Gulf City St. Ry. & Real Estate Co.*, 7 S.W. at 521 (defining the word “repair” to mean restoration after “partial destruction”) (quoting Webster’s Dictionary).

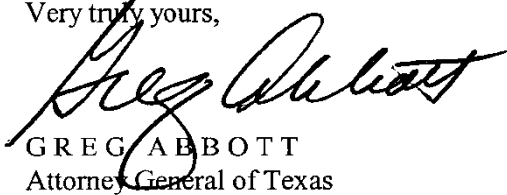
Adding an extra bath or increasing the size of the home, which you list as examples of “significant other enhancements” that a senior homestead owner may make in the course of restoring the residence, are not repairs under section 11.26. The term “repair” does not include enhancements to a residence’s value. Consequently, a school district may increase the tax proportional to the increase in value. *See* TEX. TAX CODE ANN. § 11.26(b) (Vernon 2001).

S U M M A R Y

For purposes of section 23.23 of the Tax Code, which caps the market value of a residence homestead's appraised value, the term "new improvement" includes repairs made following a natural disaster because the repairs are not "ordinary maintenance." Enhancements that increase a homestead's market value are new improvements for purposes of section 23.23(a)(2), and their value must be included in the calculation of a homestead's capped appraised value.

For purposes of section 11.26(b) of the Tax Code, which permits a school district to increase the tax on a senior's residence homestead if the homestead has been improved, an appraiser must determine whether a homestead damaged by a natural disaster has been repaired or improved.

Very truly yours,



GREG ABBOTT
Attorney General of Texas

BARRY R. MCBEE
First Assistant Attorney General

DON R. WILLETT
Deputy Attorney General for Legal Counsel

NANCY S. FULLER
Chair, Opinion Committee

Kymerly K. Oltrogge
Assistant Attorney General, Opinion Committee

Qualifying Land for Wildlife Management Use

Land must be qualified for Chapter 23, Subchapter D (1-d-1) Agricultural Appraisal

The first requirement for wildlife management use qualification is purely technical and is not related to the land's actual use to manage wildlife. The law restricts the land that may qualify for wildlife management use. To qualify for agricultural appraisal under the wildlife management use, land must be qualified for agricultural appraisal under Tax Code Chapter 23, Subchapter D, (also called 1-d-1 or open space agricultural appraisal), at the time the owner changes use to wildlife management use.

In other words, the land must have been qualified and appraised as agricultural land during the year before the year the owner changes to the wildlife management use. For example, an owner who wishes to qualify for wildlife management use in 2010 must be able to show the land was qualified for and appraised as agricultural land in 2009.

Land qualified for timber appraisal is not eligible to qualify for wildlife management use. Timber land is qualified under Tax Code Chapter 23, Subchapter E. The law limits wildlife management use to land qualified under Subchapter D of Chapter 23. Similarly, land qualified for agricultural appraisal under Article VIII, Section 1-d of the Texas Constitution and Chapter 23, Subchapter C Tax Code (also called 1-d agricultural appraisal) is not ineligible for wildlife management use.

Land must be used to generate a sustaining breeding, migrating or wintering population of indigenous wild animals.

The second requirement for qualified wildlife management use is that the land must be used to propagate a sustaining breeding, migrating or wintering population of *indigenous* wild animals.

An *indigenous* animal is a native animal that originated in or naturally migrates through an area and that is living naturally in that area, as opposed to an exotic animal or one that has been introduced to the area. In this context, an *indigenous* animal is one that is native to Texas. (Contact the Texas Parks and Wildlife Department to determine if an animal species is considered *indigenous*.)

Land may qualify for wildlife management use if it is instrumental in supporting a sustaining breeding, migrating or wintering population. A group of animals need not permanently live on the land, provided they regularly migrate across it or seasonally live there.

A *sustaining breeding* population is a group of indigenous wild animals that is large enough to live independently over several generations. This definition implies that the population will not die out because it produces enough animals to continue as a viable group. The Texas Parks and Wildlife Department may be able to provide information to help determine the number of animals of a particular species that must group together to sustain the population.

A *migrating* population of indigenous wild animals is a group of animals moving between seasonal ranges. A *wintering* population of indigenous wild animals is a group of animals living on its winter range.

The indigenous wildlife population must be produced for human use.

The law requires an owner to propagate the wildlife population for human use. Human use may include food, medicine, or recreation. Land will not qualify unless the owner propagates the population of wild animals for a human purpose.

The use of animals for food and medicine is self-explanatory. These uses result in a product and require active participation. A recreational use may be either active or passive and may include any type of use for pleasure or sport. Bird watching, hiking, hunting, photography and other non-passive recreational or hobby-type activities are qualifying recreational uses. The owner's passive enjoyment in owning the land and managing it for wildlife also is a qualifying recreational use.

Is the land used for three or more of the following activities?

Under the law, an owner must perform at least three of seven listed wildlife management activities on the land. An owner may qualify by doing more than three, but may not engage in fewer than three of the activities:

- **Habitat Control (Habitat Management).** A wild animal's habitat is its surroundings as a whole, including plants, ground cover, shelter and other animals on the land. Habitat control — or habitat management — means actively using the land to create or promote an environment that is beneficial to wildlife.
- **Erosion Control.** Any active practice that attempts to reduce or keep soil erosion to a minimum for the benefit of wildlife is erosion control.
- **Predator Control (Predator Management).** This term means practices intended to manage the population of predators to benefit the owner's target wildlife population. Predator control is usually not necessary unless the number of predators is harmful to the desired wildlife population.
- **Providing Supplemental Supplies of Water.** Natural water exists in all wildlife environments. Supplemental water is provided when the owner actively provides water in addition to the natural sources.
- **Providing Supplemental Supplies of Food.** Most wildlife environments have some natural food. An owner supplies supplemental food by providing food or nutrition in addition to the level naturally produced on the land.
- **Providing Shelter.** This term means actively creating or maintaining vegetation or artificial structures that provide shelter from the weather, nesting and breeding sites or "escape cover" from enemies.
- **Making Census Counts to Determine Population.** Census counts are periodic surveys and inventories to determine the number, composition or other relevant information about a wildlife population to measure if the current wildlife management practices are serving the targeted species.

Agricultural Use Requirements

Appraisal Districts should remember that an owner's wildlife management use must meet all the requirements to qualify for agricultural use, defined in Tax Code Section 23.51(1). Below is a brief discussion of the principal issues involved in agricultural use of land used for wildlife management. For a thorough discussion of these components, please refer to the Manual for the Appraisal of Agricultural Land.

Primary Use

The law requires agriculture to be the primary use of the land. Wildlife management is an agricultural use under the law. The primary use requirement is particularly important for land used to manage wildlife. For example, land devoted to wildlife management can be used as a residence for the owner, but the land will not qualify if residential use — and not wildlife management — is the land's primary use.

An appraisal district must gather and consider all the relevant facts to determine if the land is primarily used to manage wildlife. Some important questions are listed below.

- Is the owner implementing an active, written, wildlife management plan that shows he or she is engaging in activities necessary to preserve a sustaining breeding population on the land? An owner's management plan is required and must be completed on a form supplied by the Texas Parks and Wildlife Department for each tract of land for which qualification is sought. A plan is clear evidence of the owner's use of the land primarily for wildlife management. A good plan will usually list wildlife management activities with the appropriate seasons and/or sequence of events.
- Do the owner's management practices emphasize managing the population to ensure its continued existence over another use of the land? For example, does the owner refrain from allowing visitors on the land in years when the habitat is sensitive?
- Has the owner engaged in the wildlife management practices necessary to sustain and encourage the population? In some cases, an owner must control predators and supply water when water is not adequate, supply shelter and food when natural food production is not adequate and establish vegetation to control erosion. In other cases, less active management may maintain and encourage the growth of wildlife.
- Are there improvements — appropriate fencing, for example — necessary to control or sustain the wildlife population?

An owner may use land for purposes that are secondary to the primary use — wildlife management — if the secondary use is compatible with the primary use. For example, an owner may engage in wildlife management and also operate a business in which bird watchers stay on the land overnight and watch for birds during the day (known as a bird and breakfast operation). This activity is secondary to the primary activity of managing the wildlife, but it is not incompatible with the wildlife management use. General principles of primary and secondary use are discussed in the Manual for the Appraisal of Agricultural Land.

Degree of Intensity for Wildlife Management Use

The degree-of-intensity standard for wildlife management land is determined in the same way as other agricultural uses. Wildlife management land usually requires management practices that encourage long-term maintenance of the population.

An appraisal district may ask questions such as whether fencing is typical in the area for managing the target wildlife population, and what is the typical population size? In addition, the appraisal district should ask how many of the following activities are typical in the area (or typical for the area during some parts of the year): habitat management; predator management; erosion control; providing supplemental supplies of food or water; providing shelter; and engaging in census counts.

Because wildlife management activities are elements of the degree of intensity determination, an owner must be engaging in three of seven activities to the degree of intensity typical for the area. General principles of the degree of intensity test are discussed in the *Manual for the Appraisal of Agricultural Land*. The Texas Parks and Wildlife Department has developed regional wildlife management plans detailing specific management activities appropriate for each ecological area.

Wildlife Use Requirement

Land must qualify for Wildlife Use per the requirements setup in Rule 9.2005 of the Texas Administrative Code. See Wildlife Use Requirement section of the Brazoria County Appraisal Manual.

Historical Use Requirement

Land must have qualified for 1-d-1 agricultural use and been appraised as 1-d-1 agricultural use in the year before the owner changes its use to wildlife management. Consequently, the time-period test to determine if the land has been used for agriculture for five of the preceding seven years usually is not necessary.

Determining Appraised Values

The wildlife management use is a revenue-neutral use of land. The owner who switches from another agricultural use to wildlife management use must pay the same amount of property taxes that would have been paid if the land had remained in its former agricultural use.

Land qualified for wildlife management should be placed in a wildlife management category, but should have the same appraised value as before its conversion to wildlife management use. For example, if the land was in Irrigated Cropland I before the owner switched its use to wildlife management, the land should be placed in the wildlife management category, but will be appraised at the Irrigated Cropland I value.

If that land use category's value subsequently changes in the county, the new category values would apply to those tracts under wildlife management use in that category. This is accomplished at BCAD by keeping the AG Table the same. So in the example if the land was Irrigated Cropland then the Land Type would be changed to A0W, but the AG Table would remain 2E.

Notifying the Chief Appraiser of Change to Wildlife Management Use

The law does not require an annual application for agricultural use once the land has qualified. Because only 1-d-1 qualified land may qualify for wildlife management use, an owner who changes to this use

need not reapply for agricultural appraisal. The law, however, does require an owner who changes the category of agricultural use to notify the chief appraiser of the change.

When an owner changes agricultural uses to wildlife management, the owner must notify the chief appraiser in writing before May 1 of the year in which the owner wants to qualify under wildlife management use. The chief appraiser then will determine if the land qualifies for wildlife management use. Likewise, an owner must notify the chief appraiser if land is switched from wildlife management use to another qualifying agricultural use.

Owners should contact their county appraisal districts about notification requirements before changing small portions of their land from one qualified agricultural use to another. For example, if an owner converts a part of a 1,000-acre farm to wildlife management use by creating a pond for wildlife, the owner should ask about the appraisal district's need for notification and documentation requirements.

Wildlife Management Annual Report

It is required that all wildlife properties submit a Wildlife Management Report that has been created by the Texas Parks and Wildlife. This report will be sent out in November to each wildlife property and will be due on January 31. Failure to submit the report will result in the removal of the wildlife appraisal. The chief appraiser will verify the wildlife management activities that are on the annual report to make sure that they are consistent with the guidelines for the appropriate eco-region. The chief appraiser will use the Wildlife Management Activities and Practices Comprehensive Wildlife Management Planning Guidelines for the eco-region "Gulf Prairies and Marshes Ecological Region" created and published by the Texas Parks and Wildlife to determine that the activities are consistent and appropriate.

Wildlife Use Requirement

The Wildlife Use Requirement is set by the Texas Administrative Code Rule 9.2005 and is used as part of the Texas Administrative Code Rule 9.2004 Qualification for Agricultural Appraisal Based on Wildlife Management Use. The use requirement has to meet one of five qualifications as seen below. Once one of the qualifications are met then the wildlife property would qualify based on the requirements of Rule 9.2005. This is not the only qualification that is required in Rule 9.2004 though qualifying for this Rule does not automatically mean that the property qualifies for a Wildlife Evaluation. Below are five qualifications:

1. If the number of acres in the tract of land is equal to or greater than the number of acres in the tract of land on January 1 of the preceding tax year, then the tract of land is not subject to the wildlife use requirement. If this statement is true for the tract of land, then the land qualifies per Rule 9.2005. See below for examples:

Example A:

January 1, 2010	Tract 1	20 ac
January 1, 2011	Tract 1	20 ac

Tract 1 has the same number of acreage as the preceding tax year and would qualify under Rule 9.2005.

Example B:

January 1, 2010	Tract 2	20 ac
January 1, 2011	Tract 2	40 ac

Tract 2 has a greater number of acres as the preceding tax year and would qualify under Rule 9.2005

Example C:

January 1, 2010	Tract 3	20 ac
January 1, 2011	Tract 3	15 ac

Tract 3 has a smaller number of acres as the preceding tax year and would not qualify under this qualification. In this instance the appraiser will have to move on to the next qualification to determine if this tract qualifies under Rule 9.2005.

2. If the number of acres in the tract of land is fewer than the number of acres in the tract of land on January 1 of the preceding tax year, the wildlife use requirement the tract of land must meet to qualify for agricultural appraisal based on wildlife management use is selected by the Chief Appraiser with advice and consent of the Appraisal District Board of Directors. The wildlife use requirements ranges are specified in Rule 9.2005 and separated by the appraisal region. The region for Brazoria County is (7) Gulf Prairies and Marshes (Upper Coast) Region. The range is at least 92%, but not more than 94%. Brazoria County Preliminary Wildlife Use Requirement is 93% (as approved by the Appraisal District Board of Directors). See below for examples:

Example A:

January 1, 2010	Tract 1	40 ac
January 1, 2011	Tract 1	20 ac

Tract 1 has less acreage than in the preceding tax year, but more acreage than required. This tract would qualify under Rule 9.2005.

Example B:

January 1, 2010	Tract 2	20 ac
January 1, 2011	Tract 2	16 ac

Tract 2 has less acreage than in the preceding tax year, but is greater than or equal to the requirements set by the Chief Appraiser. This tract would qualify under Rule 9.2005.

Example C:

January 1, 2010	Tract 3	20 ac
January 1, 2011	Tract 3	13 ac

Tract 3 has less acreage than in the preceding tax year, but is less than the requirements set by the Chief Appraiser. This tract would not qualify under Rule 9.2005. In this instance the appraiser will have to move on to the next qualification to determine if this tract qualifies under Rule 9.2005.

Example D:

January 1, 2010	Tract 4	16 ac

January 1, 2011 Tract 4 8 ac

Tract 4 has less acreage than in the preceding tax year, but is less than the requirements set by Rule 9.2005. This tract would not qualify under Rule 9.2005. In this instance the appraiser will have to move on to the next qualification to determine if this tract qualifies under Rule 9.2005.

3. If the tract of land is located inside a wildlife management property association, then the qualifying wildlife management use is determined by the Chief Appraiser, with advice and consent of the Appraisal District Board of Directors, from the wildlife use requirement ranges specified in 9.2005. The region for Brazoria County is (7) Gulf Prairies and Marshes (Upper Coast) Region. The range is at least 90%, but not more than 91%. Brazoria Counties Preliminary Wildlife Use Requirement is 90% (as approved by the Appraisal District Board of Directors). All examples below are part of a wildlife management property association:

Example A:

January 1, 2010	Tract 1	20 ac
January 1, 2011	Tract 1	14 ac

Tract 1 does not qualify for any previous qualification, but because it is part of a management property association it gets considered for this qualification. The acreage is greater than the Wildlife Use Requirement set by the Chief Appraiser so Tract 1 would qualify under Rule 9.2005.

Example B:

January 1, 2010	Tract 2	16 ac
January 1, 2011	Tract 2	9.5 ac

Tract 2 acreage is less than the requirements for 9.2005. This tract would not qualify for Rule 9.2005. In this instance the appraiser will have to move on to the next qualification to determine if this tract qualifies under Rule 9.2005.

4. If the tract of land is located in an area designated by the Texas Parks and Wildlife Department as habitat for endangered species, a threatened species, or a candidate species for listing as threatened or endangered, the wildlife use requirement for a tract of land to qualify on wildlife management use shall be selected by the Chief Appraiser, with the advice and consent of the Appraisal District Board of Directors, from the wildlife use requirement ranges specified in 9.2005. The region for Brazoria County is (7) Gulf Prairies and Marshes (Upper Coast) Region. The range is at least 90%, but not more than 91%. Brazoria Counties Preliminary Wildlife Use Requirement is 90% (as approved by the Appraisal District Board of Directors). All examples below are part of an area designated by the Texas Parks and Wildlife Department as a habitat for endangered species, a threatened species, or a candidate for listing as threatened or endangered:

Example A:

January 1, 2010	Tract 1	24 ac
January 1, 2011	Tract 1	12 ac

Tract 1 does not qualify for any previous qualification, but because it is part of a designated area

by the Texas Parks and Wildlife Department as described above it gets considered for this qualification. The acreage is greater than the Wildlife Use Requirement set by the Chief Appraiser so Tract 1 would qualify under Rule 9.2005.

Example B:

January 1, 2010	Tract 2	18 ac
January 1, 2011	Tract 2	8.25 ac

Tract 2 acreage is less than the requirements for 9.2005. This tract would not qualify for Rule 9.2005. In this instance the appraiser will have to move on to the next qualification to determine if this tract qualifies under Rule 9.2005.

5. The wildlife management use requirements made by this section do not apply to a tract of land if:
 1. Beginning with tax year that began on January 1, 2002, the tract of land has continuously and without interruption qualified for agricultural appraisal based on wildlife management use; and
 2. The size of the tract of land, when measured in acres, is equal to or greater than, the size of the tract on January 1, 2009.
6. If the tract of land has not qualified under the previous five qualifications then the tract does not qualify under Rule 9.2005. This disqualification means that the property cannot qualify for agricultural appraisal based on Wildlife Management.

POLICY REGARDING THE ACCESS TO RESIDENTIAL PROPERTIES

The following policy regarding the access to residential properties will apply to any type of residential property and to all Residential field projects. The policy was created to give appraisers a clear idea of when they can and cannot access a property with the primary intent of keeping them safe and minimizing altercations with property owners.

If a Residential property is not occupied (is not currently being lived in) you may measure all exterior walls including those that lie behind closed gates. You should never climb or circumvent a locked gate.

If a Residential property is occupied you may only measure the walls accessible from the outside of fences or gates unless given permission by the property owner.

If a “new start” home is unoccupied and open you may enter the building if your entrance will assist you in the recording of the property.

If a builder asks you to not go inside their inventory homes or on to their properties you must comply.

If a property owner asks you to leave their property you must comply.

If a property or building is posted “No Trespassing” you may not access or go onto the property.

You should not enter an occupied home even if requested by the property owner.

As is the cases with all of the properties you cannot access, you are required to estimate any improvements to the best of your ability. You should include a parcel note on the account to explain why you estimated the property. (Gates locked, property posted no trespassing, property owner refused access, dogs)

Sec. 30.05. CRIMINAL TRESPASS. (a) A person commits an offense if the person enters or remains on or in property of another, including residential land, agricultural land, a recreational vehicle park, a building, or an aircraft or other vehicle, without effective consent and the person:

- (1) had notice that the entry was forbidden; or
- (2) received notice to depart but failed to do so.

(b) For purposes of this section:

- (1) "Entry" means the intrusion of the entire body.
- (2) "Notice" means:

(A) oral or written communication by the owner or someone with apparent authority to act for the owner;

(B) fencing or other enclosure obviously designed to exclude intruders or to contain livestock; ←

(C) a sign or signs posted on the property or at the entrance to the building, reasonably likely to come to the attention of intruders, indicating that entry is forbidden;

(D) the placement of identifying purple paint marks on trees or posts on the property, provided that the marks are:

- (i) vertical lines of not less than eight inches in length and not less than one inch in width;
- (ii) placed so that the bottom of the mark is not less than three feet from the ground or more than five feet from the ground; and

(iii) placed at locations that are readily visible to any person approaching the property and no more than:

- (a) 100 feet apart on forest land; or
- (b) 1,000 feet apart on land other than forest land; or

(E) the visible presence on the property of a crop grown for human consumption that is under cultivation, in the process of being harvested, or marketable if harvested at the time of entry.

12/19/2008

Appendix 12 – NAICS Codes

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
541211	8721						ACCOUNTING & BOOKKEEPING
624110							ADOPTION AGENCY - FOSTER CARE
541810	7311	7312					ADVERTISING AGENCIES
541890	7311A						ADVERTISING SPECIALTIES
481111	3721	4512	4581				AIRCRAFT
336411	3721A						AIRCRAFT-CONVERSION,OVERHAULING,MFG
621910	4119						AMBULANCE SERVICE
713990	7999						AMUSEMENT & RECREATION MISC
713110	7996						AMUSEMENT PARKS
712130							ANIMAL EXHIBITS, WILDLIFE PARKS, PETTING ZOOS
311119	2048	2048A					ANIMAL FEED MFG (INCLUDES FISH FOOD MFG)
812910	752						ANIMAL SPECIALTY SERVICE- GROOMING, BOARDING
531110	6513						APARTMENTS
443111	5722	5722B					APPLIANCE STORES - HOUSEHOLD
541310	8712						ARCHITECTURAL/DRAFTING SERVICE
451120	5945*	5945B*	5645A*				ARTS & CRAFTS SHOP, TOY STORES
541110	8111						ATTORNEYS, LEGAL SERVICES
561990	7389A						AUCTION SERVICES
532112	7514						AUTO - LEASING & RENTAL
441110	5511						AUTO DEALERS - NEW
441120	5521						AUTO DEALERS - USED
811122	7536						AUTO GLASS SERVICE
811121	7532						AUTO PAINT & BODY SERVICE
423120	5013	5541B	5541A*				AUTO PARTS NEW - WHOLESALE
441310	5015	5531*					AUTO PARTS USED - WHOLESALE
811198	7539*	7549					AUTO REPAIR - EMISSIONS/DIAGNOSTICS
811111	7538*						AUTO REPAIR - GENERAL
811118	7533*	7629					AUTO REPAIR - TUNE UP, ALIGNMENT, BRAKES
423930							AUTO SALVAGE - RECYCLE, SCRAP METAL
811192	7542*						AUTO SERVICES - CAR WASH
811191	7536						AUTO SERVICES - OIL CHANGE, LUBE SHOPS
811113	7537*						AUTO TRANSMISSION SHOPS
311812	5461	2051	5814F				BAKERY - RETAIL BAKE & SELL
521110	6011						BANK, FINANCIAL INSTITUTE
531120							BANQUET,DANCE,CONCERT HALL-RENTAL/LEASING
722410	5810	5811A*	5811*				BAR, NIGHT CLUB - PRIVATE/PUBLIC
812111	7241*						BARBER SHOPS
446120	5087C						BEAUTY & BARBER SUPPLIES
812112	7231*						BEAUTY, HAIR STYLING SALON
721191	7011A						BED & BREAKFAST
312120	2082						BEER MFG
424810	5181						BEVERAGES - BEER/ALE - WHOLESALE
441222	5551						BOAT DEALERS
336612	3732						BOAT MFG - BUILDING & REPAIRS
333293	2789						BOOKBINDING
451211	5942*	5942A*					BOOKSTORES
713950	7933*						BOWLING ALLEYS
444190	5251C*						BUILDING MATERIAL SUPPLIER
444110	5211*						BUILDING MATERIALS STORES-LIGHTING, PLUMBING
485210							BUS LINES - INTERCITY, INTERSTATE
561410	7389						BUSINESS SERVICES MISC
337122	2434						CABINET SHOPS, MANUFACTURING
443130	5946*						CAMERA STORES - RETAIL
445292	5441*						CANDY & NUT STORES
311421	2033						CANNED FRUITS, VEGETABLES, PRESERVE JAMS & JELLIES
561740	7217						CARPET & UPHOLSTERY CLEANER
812220	6553						CEMETERY
327122	3269A						CERAMIC PRODUCTS - MFG
522390	6099						CHECK CASHING SERVICE
424690	5169						CHEMICAL & ALLIED PRODUCTS WHOLESALE DISTRIBUTION
325411	2899						CHEMICAL,PHARMACEUTICAL MANUFACTURING, MISC
325199	2911						CHEMICALS MFG (ORGANIC)
448130	5641*						CLOTHING - CHILDREN & INFANT
448140	5651*						CLOTHING - FAMILY
448110	5611*						CLOTHING - MENS
448150	5651A	5699*	5632				CLOTHING - MISC APPAREL & ACCESS
448190	5651B						CLOTHING - T-SHIRT SHOPS
424330	5136						CLOTHING - WHOLESALE
448120	5621*						CLOTHING - WOMENS
315228	2329						CLOTHING MANUFACTURER
532220	7299B						CLOTHING RENTALS
711211	7941						CLUBS - PROFESSIONAL SPORTS
325510	3479A						COATINGS - PROTECTIVE
561440	7322						COLLECTION AGENCIES

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
541711	8731						COMMERCIAL PHYSICAL & BIOLOGICAL RESEARCH
333912	3563						COMPRESSOR MFG - AIR & GAS
532420	7377						COMPUTER - LEASING & RENTAL
811212	7378						COMPUTER - MAINTENANCE & REPAIR
334119							COMPUTER - PERIPHERAL EQUIPMENT
541512	7373						COMPUTER DESIGN, NEC
334111	3575	3571					COMPUTER EQUIPMENT MFG
541511	7371						COMPUTER PROGRAMMING SERVICE
541519	7379						COMPUTER RELATED SERVICES, NEC
423430	5045						COMPUTERS & SOFTWARE - WHOLESALE
443120	0006	5734*					COMPUTERS & SOFTWARE STORES
327390							CONCRETE - FURNITURE, FOUNTAINS
327320	3273						CONCRETE BATCH PLANTS EXAMPLE: READY MIX PLANTS
327331	3272						CONCRETE PRODUCTS MFG
236220	1542						CONSTRUCTION - COMMERCIAL
237310	2951	1611					CONSTRUCTION - PAVING ROADS, HIGHWAYS, BRIDGES
236118	1522	0005A					CONSTRUCTION - RESIDENTIAL
423810	3531						CONSTRUCTION MACHINERY & EQUIPMENT
423610	5039						CONSTRUCTION MATERIALS-ELECTRICAL WIRE, CIRCUITS
238350	1751						CONTRACTORS - CARPENTRY WORK
238210	1731	5063	8711B				CONTRACTORS - ELECTRICAL
238330	1752						CONTRACTORS - FLOOR LAYING
238150	1793						CONTRACTORS - GLASS & GLAZE
237990	1629						CONTRACTORS - HEAVY CONSTRUCTION
238140	1741						CONTRACTORS - MASONRY
238990	1799	1799A					CONTRACTORS - MISCELLANEOUS (SPECIALTY TRADE)
238320	1721						CONTRACTORS - PAINT AND PAPER HANGING
238220	7623	1711	5075				CONTRACTORS - PLUMBING, HEATING, AIR CONDITIONING
238160	1761						CONTRACTORS - ROOFING, SIDING, SHEET METAL
238120	1771	1791					CONTRACTORS - STEEL ERECTION
237110	1781						CONTRACTORS - WATER WELL/SEWER DRILLING
238190							CONTRACTORS - WELDING
238310	1742						CONTRACTORS DRYWALL, INSULATION
447110	5413D*	5413A*	5413F	5413B	5413E	5413C*	CONVENIENCE STORE - C-STORE F&E, GAS EQUIP
447190	5541						CONVENIENCE STORE - GASOLINE
445120	5413*						CONVENIENCE STORES - NO GAS
311821	2052						COOKIES AND CRACKERS-BAKERY PRODUCT MFG
624190	8322B	8322A					COUNSELORS - MARRIAGE & FAMILY, MEDIATION, HOTLINE
492110	4215						COURIER SERVICES - GROUND
561450	7323						CREDIT REPORTING SERVICE
522130	6061						CREDIT UNION
211111	1311						CRUDE PETROLEUM & NATURAL GAS
424430	5143						DAIRY PRODUCTS EXCEPT DRIED OR CANNED
518210	7374						DATA PROCESSING SERVICE
624410	8351						DAYCARE CENTER
452111	5311*						DEPARTMENT STORES - RETAIL
541860	7331						DIRECT MAIL ADV SERVICE
454390	5963	5932E					DIRECT SELLING ESTABLISHMENT
452112	5372*						DISCOUNT STORE - RETAIL
621310	8041						DOCTOR - CHIROPRACTOR
621210	8021	8011A					DOCTOR - DENTIST
621111	8093	8011	8099				DOCTOR - MD, GENERAL
621320	8042						DOCTOR - OPTOMETRIST
621391	8043						DOCTOR - PODIATRIST
621112	8011B						DOCTOR - PSYCHIATRISTS
621330	8011C						DOCTOR - PSYCHOLOGISTS
442291	5714	5719D					DRAPERY & UPHOLSTERY STORES
213111	1381						DRILLING RIGS - OIL & GAS
446110	5912*	5913*					DRUG STORES - RETAIL
812320	7216	7212					DRY CLEANER - FULL PLANT & PICKUP STATION
423990	5099	2499					DURABLE GOODS, GENERAL MERCHANDISE
221119	4911						ELECTRICAL POWER GENERATION
335931	3823	8711A					ELECTRICAL, CURRENT-CARRYING WIRING MFG
423690	5065	4812					ELECTRONIC PARTS & EQUIP
314999							EMBROIDERY, QUILTING, DECORATIVE STITCHING
561311	7361						EMPLOYMENT AGENCY
541330	8711						ENGINEERING SERVICES
541620	7389G						ENVIRONMENTAL SERVICE
561710	7342						EXTERMINATOR, PEST CONTROL
451130	5949*						FABRIC STORES - RETAIL
423820	5083						FARM EQUIPMENT SALES
424460	5146						FISH & SEAFOOD - WHOLESALE
445220	5421A						FISH MARKETS
339920	910						FISHING EQUIP - EXCLUDING BOATS & BARGES

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
442210	5713*						FLOOR COVERING STORES
453110	5992*						FLORIST - RETAIL
722310	2099C	2099					FOOD PREPARATIONS - MISC
488510	4731						FREIGHT & CARGO SHIPPING AGENT
424480	5146						FRUIT, VEGETABLE WHOLESALE
454319	5989						FUEL DEALERS, FIREWOOD
454311	5983						FUEL OIL DEALERS
812210	7261*						FUNERAL HOME
337121	5021						FURNITURE MANUFACTURING
442110	5712*						FURNITURE STORES - RETAIL
713290	7993						GAME ROOMS
339991	3053						GASKETS PACKING & SEALING
453220	5947A*	5947*					GIFT, NOVELTY, & SOUVENIR SHOPS
327215	5251D*						GLASS STORES - STAINED & LEADED
713910	7992A	7992					GOLF COURSES - PRIVATE/PUBLIC
493130	5153						GRAIN ELEVATORS
541430	7336						GRAPHIC DESIGN & COMMERCIAL ART
111998	0139						GRASS FARM
445110	5141	5411	5412*				GROCERY STORES
444130	5251*						HARDWARE STORES - RETAIL
446191	5499						HEALTH FOOD STORES - RETAIL
621399	8049	7299D					HEALTH PRACTITIONER, (HERBALIST, MASSAGE THERAPY)
442299	5719A	5719B	5719C	5719	5023		HOME FURNISHINGS
621610	8071						HOME HEALTH CARE-HOSPICE
622110	8062						HOSPITAL GENERAL
622210	8063						HOSPITAL PSYCHIATRIC
721110	7011*						HOTEL
337125	2519						HOUSEHOLD FURNITURE - MFG
722213	2024	5816A*	5814E*				ICE CREAM /DONUT/COFFEE SHOP
312113	2097						ICE PLANTS
541213	7291						INCOME TAX SERVICE
334513	3823	8711A					INDUSTRIAL INSTRUMENT MFG
423830	5082	3569	5084	2448			INDUSTRIAL M & E -DEALER
811310	5591	7692					INDUSTRIAL M&E- REPAIRS/MAINTENANCE
333298	3999						INDUSTRIAL MFG - MISC
423840	5085						INDUSTRIAL SUPPLIES - WHOLESALE
332911	3491	3494					INDUSTRIAL VALVE MANUFACTURING
333412	3999						INDUSTRIAL/COMMERCIAL FAN, BLOWER MFG
524210	6411						INSURANCE AGENTS
541410	7389C						INTERIOR DECORATORS
519130	7379A						INTERNET SERVICES
453310	5932A	5722C	5932B	5932*	0004		INVENTORY(USED), CONSIGNMENT, RESALE SHOPS
561720	7349						JANITORIAL & CLEANING SERVICE
448310	5944A*	5944*					JEWELRY STORES - RETAIL
621492	8092						KIDNEY DIALYSIS CENTERS
813930	8631						LABOR UNIONS
541380	8734						LABORATORIES - TESTING (INDUSTRIAL)
339116	8072						LABORATORIES DENTAL
621511	8071						LABORATORIES MEDICAL
237210	6552						LAND SUBDIVIDERS
561730	0782						LAWN & GARDEN SERVICES
532490	7359	7359A	7353	7352			LEASED/RENTAL - EQUIPMENT, FURNITURE, APPLIANCES
562991	7359B						LEASED/RENTAL - PORTABLE TOILETS
485320	4724A						LIMOUSINE SERVICE
812331	7213						LINEN SUPPLY/LAUNDRY SERVICE
445310	5921*						LIQUOR STORE
488320	4013						LOADING/UNLOADING SVC AT PORTS/HARBORS
561622							LOCKSMITH SERVICES
448320	5948						LUGGAGE & LEATHER GOODS
423310	5031						LUMBER - BUILDING SUPPLY - WHOLESALE
332710	3542						MACHINE SHOPS
333512	3541						MACHINE TOOL - METAL CUTTING MFG
541618	8741						MANAGEMENT SERVICES
713930	4493						MARINAS
333618	7699A						MARINE ENGINES - REPAIRS & MFG
423860	5551A						MARINE SUPPLY
611620	7991A						MARTIAL ARTS
445210	5421	5814A*					MEAT MARKETS
311615	2011						MEAT PACKING PLANTS
339112	3841						MEDICAL & SURGICAL INSTRUMENT
813410	8641	8699					MEMBERSHIP ORGANIZATIONS
332999	3412						METAL DRUM, PAIL MFG
311511	2026						MILK PROCESSING
452990	5531A	5399	5372A				MISC - GENERAL MDSE STORES, DOLLAR STORE, TRADING

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
453930	5271						MOBILE HOME DEALERS
531190	6515						MOBILE HOME PARK OPERATORS
522310	6162						MORTGAGE COMPANY
441221	5571						MOTORCYCLE DEALER
512120	7822						MOVIE & TAPE DISTRIBUTION
512110	7812						MOVIE & VIDEO PRODUCTION
712110	8412						MUSEUM & ART GALLERIES
451140	5736						MUSICAL INSTRUMENT STORES
812113	7299E						NAIL SALONS
221210	4922						NATURAL GAS TRANSMISSION
515210	4841	4814					NETWORK EQUIPMENT
511110	2711						NEWSPAPER PUBLISHING
451212	5994						NEWSSTAND & MAGAZINE STORE
424990	5193	O181					NON DURABLE GOODS-COAT HANGER,LEATHER GOODS,AWNING
424930	5193	O181					NURSERY STOCK WHOLESALE - FLORIST SUPPLIES
623110	8052*	8052A*	8053C				NURSING HOME INTERMEDIATE CARE (SKILLED, PRIVATE)
444220	5991*	5191	5251A	5261			NURSERIES, GARDEN CENTER, FARM & RANCH SUPPLIES
332722	3452						NUT, BOLTS, ETC MFG
921110	8999*						OFFICE - GENERAL
453210	5943*						OFFICE SUPPLY STORE - RETAIL
213112	1389	1382					OIL & GAS FIELD EXPLORATION SERVICE
333132	3533						OIL & GAS FIELD MACH & EQUIP
446130	5995						OPTICAL GOODS / SUNGLASS STORE
561910							PACKAGING SERVICE- FOLDING,WRAPPING, TESTING
488991	4783						PACKING & CRATING FOR TRANSPORTATION
444120	5251B*						PAINT & WALLPAPER STORES
322121	5113						PAPER & PAPER PRODUCTS
522298	5933*						PAWN SHOP
522291	6141						PERSONAL CREDIT INSTITUTIONS
624120							PERSONAL SVCS - DISABLED, MENTALLY CHALLENGED
812990	7389B	7299G					PERSONAL SVCS (PARTY PLANNER,PALM READERS,BAIL BOND)
812199	7299C	7299	7299F	7299H			PERSONAL SVCS (TANNING SALON, TATTOO PARLOR, DAY SPA
453910	5999K						PET & PET SUPPLIES
424720	5172A						PETROLEUM PRODUCTS - LUBRICANTS,WHOLESALE
424710	5172						PETROLEUM PRODUCTS, BULK STORAGE FACILITIES
324110	2911						PETROLEUM REFINING
541921	7221						PHOTO & PORTRAIT STUDIOS
812921	7384						PHOTO FINISHING LABS
561439	7334						PHOTOCOPYING SERVICE
713940	7991						PHYSICAL FITNESS FACILITIES
621340	8011D						PHYSICAL THERAPY
332996	3498						PIPE & PIPE FITTINGS FABRICATED
486110	4724A						PIPELINE - CRUDE OIL TRANSPORT
237120	4619						PIPELINES -CONSTRUCTION ,OIL/GAS TRANSMISSION
326122	3084						PLASTIC PIPE - MFG
325211	3089						PLASTIC PRODUCTS MFG - MISC
332313	3443						PLATE WORK FAB
423720	5074	5085A					PLUMBING SUPPLIES - WHOLESALE
561790	7389D						POOL CARE - BLDG & PAVEMENT WASHING
423390							PORTABLE BLDGS
561431	4311						POSTAL SERVICE - PRIVATE
327112	3269						POTTERY PRODUCTS, MISCELLANEOUS
323119	2752C						PRINTING - COMMERCIAL
445230	5431						PRODUCE MARKETS
813920	8621						PROFESSIONAL ORGANIZATIONS
454312	5984						PROPANE (BOTTLED GAS SALES)
322110	2611						PULP MILLS
711212	7948						RACE TRACK
515112	4832						RADIO BROADCAST STATION
334220	7699B	4810	4812A				RADIO/TV,WIRELESS COMMUNICATIONS (ANTENNA/ EQUIP)
336510	4011						RAILROAD CARS
482111	4011A						RAILROAD LINES
488210	4013						RAILROAD SWITCHING
531210	6531A	6531					REAL ESTATE AGENTS & MODEL HOMES
451220	5735*						RECORD & TAPE STORES
441210	5561						RECREATIONAL VEHICLE DEALER
486910	4613						REFINED PRODUCTS PIPELINE
327125	3269A						REFRACTORY - CEMENT,BRICKS MFG (NON-CLAY)
423740	5078						REFRIGERATION EQUIP & SUPPLY
562119	4953						REFUSE SYSTEMS
811420	7641						REPAIR SERVICE - FURN & REUPHOLSTERY
811490	7631*	7699					REPAIR SERVICE - JEWELRY/WATCH/CLOCK/ALTERATIONS
811213	7622A						REPAIR SERVICE - RADIO COMMUNICATIONS EQUIP
811430	7251						REPAIR SERVICE - SHOE SHOP

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
811219	7622						REPAIR/MAINTENANCE - MEDICAL, ELECTRONIC EQUIPMENT
722212	5812*						RESTAURANTS - CAFETERIAS
722111	5814D*	5816*	5815A*	5814B*			RESTAURANTS - FAST FOOD
722211	5814C*	5815*	5814*				RESTAURANTS - FAST FOOD, SANDWICH SHOP, PIZZA PARLOR
453998	5999						RETAIL STORES - MISCELLANEOUS
623311	8052B						RETIREMENT FACILITY
311212	2044						RICE MILLING
423520	5039A						SAND & GRAVEL - CONSTRUCTION MATERIAL
212321	1442						SAND & GRAVEL PITS
522120	6035						SAVINGS INSTITUTION
113310							SAW MILL, LOGGING, CUTTING, TRANSPORTING TIMBER
321113	2421						SAW MILLS & PLANNING MILLS
711120	7911						SCHOOL - DANCE STUDIOS
611610							SCHOOL - MUSIC, ART STUDIOS
611519	8249						SCHOOL - TRADE/VOCATIONAL
331492	5093						SCRAP METAL RECLAMATION
561499							SECRETARIAL & BUSINESS SERVICE
523120	6211						SECURITIES BROKER
561611	7381						SECURITY & PRIVATE INVESTIGATOR
561621	7382						SECURITY SYSTEM - BURGLARY & FIRE
332323	3444						SHEET METAL FAB
448210	5664*	5661*	5663*	5665*	5662*		SHOE STORE
339950	7389F						SIGN PAINTING
541850	3993						SIGNS & ADVERTISING SPECIAL
811411	7699D	7699C					SMALL ENGINES/LAWN MOWER - SERVICE & REPAIR
813319	8322						SOCIAL SERVICE - INDIVIDUAL FAMILY
312111	5149B	2086					SOFT DRINK MFG
451110	5941C	5941A	5941B	5941*			SPORTING GOODS STORE (INCLD BAIT & TACKLE)
721214	7032						SPORTING/RECREATIONAL CAMP
331210	3317						STEEL PIPE & TUBE MFG
423510	5051						STEEL, METAL PIPE MERCHANT WHOLESALE
493110	4225						STORAGE - GENERAL
493120	4222						STORAGE - REFRIGERATED
332312	3441						STRUCTURAL METAL FAB
541370	8713						SURVEYING SERVICES
485310	4121						TAXICAB SERVICE
711510							TAXIDERM, DISC JOCKEY, ARTISTS
517919	4841	4814					TELECOMMUNICATIONS PROVIDER/CARRIER
561421	7389E						TELEPHONE ANSWERING SERVICE
443112	5722A	5732*	5731	4813			TELEPHONE, ELECTRONIC STORE-CELL PHONE/ACCESSORIES
517110	4841	4814					TELEPHONE/SATELLITE TV CARRIER-LOCAL/LONG DISTANCE
313312	2299						TEXTILE GOOD
711110	7922						THEATER - EXCEPT MOTION PICTURES
512131	7832						THEATER - INDOOR
512132	7833						THEATER - OUTDOOR
326212	7534						TIRE RETREADING & REPAIR
441320	5531B*						TIRE STORE - RETAIL
326211	5014						TIRES & TUBES
541191	6541						TITLE COMPANY
453991	5993						TOBACCO & PIPE SHOPS
237130	4812B						TOWERS - COMMUNICATIONS, WIND/SOLAR POWER PLANTS
336214	3715A						TRAILER MFG (UTILITY, LIGHT-TRUCK TRAILERS)
721211	7033						TRAILER PARKS & CAMPSITE
336212	5581	3715					TRAILERS/SEMI-TRAILER DEALER
561510	4724						TRAVEL AGENCY
484110	4214	4212					TRUCKING - LOCAL
484121	4213						TRUCKING, EXCEPT LOCAL
532120	7519	7513					TRUCKS/TRAILERS - LEASED/RENTAL
611691							TUTORING, EXAM PREP, ADULT LITERACY
515120	4833						TV BROADCAST STATION
323122	2791						TYPESETTING
484220	0002						VEHICLE(S) ONLY
713120	5962						VENDING MACHINES - AMUSEMENT
487210							VESSELS - CHARTER, SIGHTSEEING, EXCURSION
483112	4421						VESSELS - DEEP SEA TRANSPORTATION
114112	0912	4410					VESSELS - FISHING BOATS (SHRIMP BOATS)
488330	4492						VESSELS - PUSH, TUG, TOW
483114	4499						VESSELS - WATER TRANSPORTATION SERVICE
541940	0742C	0742					VETERINARIANS
532230	7841*						VIDEO TAPE RENTALS & SALES
812310	7215*						WASHATERIAS - LAUNDROMAT
221310	4941A						WATER SYSTEMS, TREATMENT PLANTS
332321	3443						WINDOW/DOOR MFG (METAL)
488410	7549A						WRECKER SERVICE

NAICS CODE	OLD SIC 1	OLD SIC 2	OLD SIC 3	OLD SIC 4	OLD SIC 5	OLD SIC 6	NAICS DESCRIPTION
238910	1795						WRECKING, DEMO, SITE PREP WORK

Appendix 13 - Quality Control Procedures

Data Collection

During this phase of the appraisal process the appraiser will start to collect specific information on the account that they are working in the field. This specific property information will include pictures of the property, measurements, notes specific to that property, measurements of new improvements, measurements of additions, etc..

When going into the field the appraiser should be ready to go out by 9 am. All personnel going into the field must take a partner. One of the field appraisers should be an experienced appraiser with an RPA who during the time in the field will be the group leader. This is mandated not only to better insure accuracy, but also to provide safety. All appraisers should wear the district provided uniform shirts in the field and take identification, signs, etc..

While in the field all appraisers should stay alert about their surroundings at all times. The appraisers should be on the lookout for any new construction that might not have had a building permit taken out. If unsure about a property then the appraiser should mark their map and check the property when they get back to the office.

Data Collection Accuracy Standards

All BCAD building measurements are done from the exterior, with individual measurements rounded to the closest foot. This measurement includes all closet space, hallways, etc. Attached garages are not included in the square footage of the living area, but valued separately. Living area above attached garages is included in the square footage living area of the dwelling. Living area above detached garages is not included in the square footage living area of the dwelling but is valued separately.

This method is used on all residential properties in Brazoria County to ensure the uniformity of square footage of living area measurements district-wide. At all times the measurement data collected should be accurate to within one foot of the true measurement or within five percent of the total area. Any measurements that need to be estimated should be noted on the property record card that is turned and scanned into the account.

For all objective data categories at least 95% of the keyed entries should be accurate. This includes not only measurements, but all any attributes such as exterior wall material, number of bathrooms, waterfront view, etc... This means that out of 100 entries 95 should be correct.

For all subjective data categories at least 90% should be keyed correctly. This includes data items such as quality grade, physical condition, and architectural style.

Data Collection Reporting and Analysis

The data collection reporting and analysis will be conducted by the field group leaders randomly as instructed by the Residential, Commercial, and Personal Property Supervisors. Each new appraisal cycle should bring increased scrutiny of fieldwork for all appraisers until adequate skills have been demonstrated. At the beginning of each appraisal season the supervisors from each department should complete the checklist on all field group leaders to ensure compliance with current appraisal policies. The newer appraisers should be evaluated more often than experienced appraisers, but no more than twenty-five percent (25%) of fieldwork should be evaluated at any one time. As the newer appraisers demonstrate adequate skills the sampling should be reduced eventually to a point that they are being sampled as much as experienced appraisers.

The field group leaders should take the correct checklist with them depending on what type of properties they will be viewing that day. Parts one (1) through three (3) should be completed during the field check. Part four (4) through five (5) should be completed by the respective supervisors when the paperwork is turned in. Any issues should be discussed with the appraiser after the form is completed and during the point that the appraiser signs the document. All follow up recommendations or retraining should be documented in part five (5) of the checklist.

The supervisor from each of the departments will keep the checklists for all of their direct reports including all documentation in a secure file labeled with the appraiser's name. Any issues should be brought up to the director of appraisal operations and/or the deputy chief of appraisal as necessary.

Data Keying

Data keying is another important part of the quality control procedures. While keying fieldwork the data keying specialist will keep a lookout for any errors or omissions. If an errors or omissions are observed the data keying specialist should report the error to the appropriate supervisor. If it is a substantial error then it should be reported directly to the director of appraisal operations. A log of errors including the appraiser, date, type of error, and who the error was reported too should be kept by data keying specialist.

Any errors that makes the appraiser fall out of line with the data collection accuracy standards should be immediately dealt with either through training or retraining of the appraiser. Continual errors even after retraining should be addressed with the director of appraisal operations and the deputy chief of appraisal.

Data Quality Control

The data quality control will help and catch common errors in both data collection and data keying. These queries and checklist will be run by the system administrator as required by the deputy chief of administration and reported directly to the director of appraisal operations. Any issues will be corrected and appraisers will be retrained as necessary. An example of some of these queries can be seen below:

CHECK LIST	
1 AG ACCOUNT WITH SPTB CODE EQUAL TO A	AG WITH IMP SPTB CODE = A
2 AG NOT EQUAL TO D1	AG VALUE GTR 0 AND NO D1
3 NO AG EQUAL TO D1	D1 WITH SPTB NO AG
4 GHOST ACCOUNTS	GHOST ACCT IDENTIFY 1
	GHOST ACCT IDENTIFY 2
5 MINERAL ACCOUNTS WITH NO ENTITIES	MIN NO ENTITY
	LEASE NO ENTITY
6 VALUES MARKET AND ASSESSED EQUAL TO ZERO	ZERO VALUES
7 NO CAD ENTITY	NO CAD ENTITY
8 CHECK PRORATE ACCOUNTS	PRORATE QUALIFICATION DATE
	PRORATE TERMINATION DATE
	EX PROP WRONG PTD CODE
9 MINERALS LEASED NOT EQUAL TO 100%	MIN LEASE PC < THAN 1
	MIN LEASE PC > THAN 1
10 NON DELIVERABLE OWNERS	NON DEL OWNERS (N)
11 NON DELIVERABLE OWNERS	NON DEL OWNERS (Y)
12 NO GEO ID	NO GEO ID
13 DUPLICATED GEO IDS (INCLUDES UDI ACCTS)	DUPLICATED GEO IDS
14 LEGAL FIELD BLANK	CHECK NO LEGAL
15 HS ADDRESS OUT OF COUNTY	HS EXEMPTION NOT IN COUNTY
16 NO HOMESTEAD EX JUST OV65 AND DP	OV65/DP WITH NO HS
17 MH ON REAL PROPERTY CODED M1	MH SPTB NO A2
18 MH ON MOBILE NOT CODED M1	MH SPTB NO M1
19 AG CHECK TYPE S ON D1 SPTB CODE	AG CHECK TYPE STATE CODE
20 CHECK FOR IMP A1 AND LAND NOT A1	CHECK SPTB CODE
21 CHECK LAND STATE CODE = E2	
22 X25.19A WITH MARKET VALUE > 0	X25.19A WITH VALUE
23 UDI APPLY PCT NULL	
24 UDI NULL AG USE	
25 D1 ACCTS WITH ZERO LAND SEGMENT	D1 WITH ZERO LAND SEGMENT
26 COMPARE GRAND TOTAL (REPORT PRELIM TOTAL) GBC/RDB SBR/JBR	PROPS IN ONE ENTITY BUT NOT IN ANOTHER
27 MH SERIAL OR HUD NUMBERS DOUBLE	CALL FOR STEVE AT TA (REF REQ 57572)
28 ANNEXATIONS	SEE CERT QUERIES
29 DEANNEXATIONS	SEE CERT QUERIES
30 CHECK SUB/ABST TYPE IS CORRECT	IN PACS
UPDATE JAN 1 OWNERS (CALL TRUE AUTOMATION - BEHIND THE SCENE QUERIES)	
MINERAL 7/8 AND 1/8 COPY TO PRIOR YEAR (TRUE AUTOMATION)	

Matrix Schedule

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
1	400	49.41
1	500	46.95
1	600	45.02
1	700	43.46
1	800	42.15
1	1000	40.04
1	1200	38.40
1	1400	37.07
1	1600	35.95
1	1800	34.99
1	2000	34.16
1	2200	33.42
1	2400	32.75
1	2600	32.16
1	2800	31.62
1	3000	31.12
1	3200	30.65
1	3400	30.22
1	3600	29.81
1	3800	29.44
1	4000	29.07
1	4200	29.07
1	4400	29.07
1	4600	29.07
1	4800	29.07
1	5000	29.07
1	5200	29.07
1	5400	29.07
1	5600	29.07
1	5800	29.07
1	6000	29.07
1	6200	29.07
1	6400	29.07
1	6600	29.07
1	6800	29.07
1	7000	29.07
1	7200	29.07
1	7400	29.07
1	7600	29.07
1	8000	29.07
1	9999999	29.07
1+	400	50.40
1+	500	47.88
1+	600	46.01
1+	700	44.49
1+	800	43.21
1+	1000	41.15
1+	1200	39.55
1+	1400	38.24
1+	1600	37.15
1+	1800	36.20
1+	2000	35.38
1+	2200	34.65
1+	2400	34.00
1+	2600	33.41
1+	2800	32.88
1+	3000	32.39
1+	3200	31.93
1+	3400	31.50
1+	3600	31.11
1+	3800	30.74
1+	4000	30.38
1+	4200	30.38
1+	4400	30.38
1+	4600	30.38
1+	4800	30.38
1+	5000	30.38
1+	5200	30.38
1+	5400	30.38
1+	5600	30.38
1+	5800	30.38
1+	6000	30.38
1+	6200	30.38
1+	6400	30.38
1+	6600	30.38
1+	6800	30.38
1+	7000	30.38
1+	7200	30.38
1+	7400	30.38
1+	7600	30.38
1+	8000	30.38
1+	9999999	30.38
1-	400	48.42
1-	500	46.01
1-	600	44.03
1-	700	42.43
1-	800	41.09
1-	1000	38.93

Sched:			
Matrix:	MA	X Axis: CLASS	Label: UC
Adj Factor:	N/A	Y Axis: AREA	Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
1-	1200	37.26
1-	1400	35.90
1-	1600	34.76
1-	1800	33.78
1-	2000	32.94
1-	2200	32.18
1-	2400	31.51
1-	2600	30.90
1-	2800	30.36
1-	3000	29.85
1-	3200	29.38
1-	3400	28.93
1-	3600	28.52
1-	3800	28.14
1-	4000	27.76
1-	4200	27.76
1-	4400	27.76
1-	4600	27.76
1-	4800	27.76
1-	5000	27.76
1-	5200	27.76
1-	5400	27.76
1-	5600	27.76
1-	5800	27.76
1-	6000	27.76
1-	6200	27.76
1-	6400	27.76
1-	6600	27.76
1-	6800	27.76
1-	7000	27.76
1-	7200	27.76
1-	7400	27.76
1-	7600	27.76
1-	8000	27.76
1-	9999999	27.76
2	400	76.02
2	500	72.22
2	600	69.27
2	700	66.86
2	800	64.84
2	1000	61.60
2	1200	59.08
2	1400	57.03
2	1600	55.31
2	1800	53.83
2	2000	52.55
2	2200	51.41
2	2400	50.39
2	2600	49.48
2	2800	48.64
2	3000	47.88
2	3200	47.16
2	3400	46.49
2	3600	45.87
2	3800	45.29
2	4000	44.72
2	4200	44.72
2	4400	44.72
2	4600	44.72
2	4800	44.72
2	5000	44.72
2	5200	44.72
2	5400	44.72
2	5600	44.72
2	5800	44.72
2	6000	44.72
2	6200	44.72
2	6400	44.72
2	6600	44.72
2	6800	44.72
2	7000	44.72
2	7200	44.72
2	7400	44.72
2	7600	44.72
2	8000	44.72
2	9999999	44.72
2+	400	77.54
2+	500	73.67
2+	600	70.79
2+	700	68.44
2+	800	66.48
2+	1000	63.31
2+	1200	60.84
2+	1400	58.83
2+	1600	57.15
2+	1800	55.70
2+	2000	54.43
2+	2200	53.31
2+	2400	52.31
2+	2600	51.40

Sched:			
Matrix:	MA	X Axis: CLASS	Label: UC
Adj Factor:	N/A	Y Axis: AREA	Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
2+	2800	50.58
2+	3000	49.82
2+	3200	49.12
2+	3400	48.46
2+	3600	47.86
2+	3800	47.29
2+	4000	46.73
2+	4200	46.73
2+	4400	46.73
2+	4600	46.73
2+	4800	46.73
2+	5000	46.73
2+	5200	46.73
2+	5400	46.73
2+	5600	46.73
2+	5800	46.73
2+	6000	46.73
2+	6200	46.73
2+	6400	46.73
2+	6600	46.73
2+	6800	46.73
2+	7000	46.73
2+	7200	46.73
2+	7400	46.73
2+	7600	46.73
2+	8000	46.73
2+	9999999	46.73
2-	400	74.50
2-	500	70.78
2-	600	67.74
2-	700	65.28
2-	800	63.21
2-	1000	59.89
2-	1200	57.32
2-	1400	55.22
2-	1600	53.48
2-	1800	51.97
2-	2000	50.67
2-	2200	49.51
2-	2400	48.48
2-	2600	47.55
2-	2800	46.70
2-	3000	45.93
2-	3200	45.20
2-	3400	44.51
2-	3600	43.88
2-	3800	43.30
2-	4000	42.70
2-	4200	42.70
2-	4400	42.70
2-	4600	42.70
2-	4800	42.70
2-	5000	42.70
2-	5200	42.70
2-	5400	42.70
2-	5600	42.70
2-	5800	42.70
2-	6000	42.70
2-	6200	42.70
2-	6400	42.70
2-	6600	42.70
2-	6800	42.70
2-	7000	42.70
2-	7200	42.70
2-	7400	42.70
2-	7600	42.70
2-	8000	42.70
2-	9999999	42.70
3	400	79.65
3	500	77.50
3	600	75.35
3	700	73.20
3	800	71.38
3	1000	68.44
3	1200	66.13
3	1400	64.25
3	1600	62.66
3	1800	61.29
3	2000	60.08
3	2200	59.02
3	2400	58.05
3	2600	57.19
3	2800	56.39
3	3000	55.67
3	3200	55.00
3	3400	54.39
3	3600	53.83
3	3800	53.27
3	4000	52.77
3	4200	52.77

Sched:			
Matrix:	MA	X Axis: CLASS	Label: UC
Adj Factor:	N/A	Y Axis: AREA	Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
3	4400	52.77
3	4600	52.77
3	4800	52.77
3	5000	52.77
3	5200	52.77
3	5400	52.77
3	5600	52.77
3	5800	52.77
3	6000	52.77
3	6200	52.77
3	6400	52.77
3	6600	52.77
3	6800	52.77
3	7000	52.77
3	7200	52.77
3	7400	52.77
3	7600	52.77
3	8000	52.77
3	9999999	52.77
3+	400	82.68
3+	500	80.61
3+	600	78.54
3+	700	76.47
3+	800	74.41
3+	1000	71.35
3+	1200	68.95
3+	1400	66.98
3+	1600	65.33
3+	1800	63.90
3+	2000	62.64
3+	2200	61.53
3+	2400	60.53
3+	2600	59.63
3+	2800	58.80
3+	3000	58.04
3+	3200	57.35
3+	3400	56.70
3+	3600	56.10
3+	3800	55.52
3+	4000	54.99
3+	4200	54.99
3+	4400	54.99
3+	4600	54.99
3+	4800	54.99
3+	5000	54.99
3+	5200	54.99
3+	5400	54.99
3+	5600	54.99
3+	5800	54.99
3+	6000	54.99
3+	6200	54.99
3+	6400	54.99
3+	6600	54.99
3+	6800	54.99
3+	7000	54.99
3+	7200	54.99
3+	7400	54.99
3+	7600	54.99
3+	8000	54.99
3+	9999999	54.99
3-	400	78.27
3-	500	76.05
3-	600	73.83
3-	700	71.61
3-	800	69.75
3-	1000	66.73
3-	1200	64.37
3-	1400	62.44
3-	1600	60.82
3-	1800	59.42
3-	2000	58.20
3-	2200	57.11
3-	2400	56.14
3-	2600	55.26
3-	2800	54.45
3-	3000	53.72
3-	3200	53.04
3-	3400	52.41
3-	3600	51.84
3-	3800	51.28
3-	4000	50.76
3-	4200	50.76
3-	4400	50.76
3-	4600	50.76
3-	4800	50.76
3-	5000	50.76
3-	5200	50.76
3-	5400	50.76
3-	5600	50.76
3-	5800	50.76

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
3-	6000	50.76
3-	6200	50.76
3-	6400	50.76
3-	6600	50.76
3-	6800	50.76
3-	7000	50.76
3-	7200	50.76
3-	7400	50.76
3-	7600	50.76
3-	8000	50.76
3-	9999999	50.76
4	400	92.73
4	500	90.42
4	600	88.11
4	700	85.80
4	800	83.49
4	1000	80.08
4	1200	77.39
4	1400	75.18
4	1600	73.33
4	1800	71.73
4	2000	70.33
4	2200	69.08
4	2400	67.97
4	2600	66.96
4	2800	66.03
4	3000	65.18
4	3200	64.40
4	3400	63.63
4	3600	62.92
4	3800	62.27
4	4000	61.63
4	4200	61.05
4	4400	60.47
4	4600	59.96
4	4800	59.44
4	5000	58.99
4	5200	58.54
4	5400	58.09
4	5600	57.70
4	5800	57.70
4	6000	57.70
4	6200	57.70
4	6400	57.70
4	6600	57.70
4	6800	57.70
4	7000	57.70
4	7200	57.70
4	7400	57.70
4	7600	57.70
4	8000	57.70
4	9999999	57.70
4+	400	100.24
4+	500	97.74
4+	600	95.24
4+	700	92.74
4+	800	90.24
4+	1000	86.55
4+	1200	83.65
4+	1400	81.26
4+	1600	79.26
4+	1800	77.53
4+	2000	76.01
4+	2200	74.67
4+	2400	73.46
4+	2600	72.37
4+	2800	71.37
4+	3000	70.45
4+	3200	69.61
4+	3400	68.79
4+	3600	68.03
4+	3800	67.34
4+	4000	66.66
4+	4200	66.04
4+	4400	65.44
4+	4600	64.89
4+	4800	64.36
4+	5000	63.88
4+	5200	63.40
4+	5400	62.94
4+	5600	62.51
4+	5800	62.51
4+	6000	62.51
4+	6200	62.51
4+	6400	62.51
4+	6600	62.51
4+	6800	62.51
4+	7000	62.51
4+	7200	62.51
4+	7400	62.51

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
4+	7600	62.51
4+	8000	62.51
4+	9999999	62.51
4-	400	89.38
4-	500	87.15
4-	600	84.92
4-	700	82.69
4-	800	80.46
4-	1000	77.17
4-	1200	74.58
4-	1400	72.45
4-	1600	70.66
4-	1800	69.12
4-	2000	67.77
4-	2200	66.57
4-	2400	65.49
4-	2600	64.52
4-	2800	63.62
4-	3000	62.80
4-	3200	62.05
4-	3400	61.32
4-	3600	60.65
4-	3800	60.02
4-	4000	59.42
4-	4200	58.86
4-	4400	58.30
4-	4600	57.80
4-	4800	57.30
4-	5000	56.87
4-	5200	56.44
4-	5400	56.00
4-	5600	55.63
4-	5800	55.63
4-	6000	55.63
4-	6200	55.63
4-	6400	55.63
4-	6600	55.63
4-	6800	55.63
4-	7000	55.63
4-	7200	55.63
4-	7400	55.63
4-	7600	55.63
4-	8000	55.63
4-	9999999	55.63
5	400	104.96
5	500	102.97
5	600	100.98
5	700	98.99
5	800	97.00
5	1000	93.03
5	1200	89.90
5	1400	87.34
5	1600	85.19
5	1800	83.33
5	2000	81.70
5	2200	80.25
5	2400	78.96
5	2600	77.78
5	2800	76.71
5	3000	75.72
5	3200	74.81
5	3400	73.94
5	3600	73.14
5	3800	72.40
5	4000	71.68
5	4200	71.03
5	4400	70.41
5	4600	69.83
5	4800	69.28
5	5000	68.77
5	5200	68.26
5	5400	67.79
5	5600	67.31
5	5800	67.09
5	6000	66.86
5	6200	66.86
5	6400	66.86
5	6600	66.86
5	6800	66.86
5	7000	66.86
5	7200	66.86
5	7400	66.86
5	7600	66.86
5	8000	66.86
5	9999999	66.86
5+	400	111.80
5+	500	109.68
5+	600	107.56
5+	700	105.44
5+	800	103.32

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
5+	1000	99.09
5+	1200	95.76
5+	1400	93.01
5+	1600	90.69
5+	1800	88.69
5+	2000	86.93
5+	2200	85.38
5+	2400	83.99
5+	2600	82.72
5+	2800	81.57
5+	3000	80.51
5+	3200	79.53
5+	3400	78.61
5+	3600	77.75
5+	3800	76.96
5+	4000	76.20
5+	4200	75.49
5+	4400	74.84
5+	4600	74.21
5+	4800	73.62
5+	5000	73.06
5+	5200	72.51
5+	5400	72.01
5+	5600	71.48
5+	5800	71.23
5+	6000	70.98
5+	6200	70.98
5+	6400	70.98
5+	6600	70.98
5+	6800	70.98
5+	7000	70.98
5+	7200	70.98
5+	7400	70.98
5+	7600	70.98
5+	8000	70.98
5+	9999999	70.98
5-	400	99.67
5-	500	97.78
5-	600	95.89
5-	700	94.00
5-	800	92.11
5-	1000	88.33
5-	1200	85.37
5-	1400	82.94
5-	1600	80.89
5-	1800	79.12
5-	2000	77.57
5-	2200	76.20
5-	2400	74.97
5-	2600	73.85
5-	2800	72.84
5-	3000	71.90
5-	3200	71.03
5-	3400	70.21
5-	3600	69.45
5-	3800	68.74
5-	4000	68.06
5-	4200	67.44
5-	4400	66.84
5-	4600	66.28
5-	4800	65.75
5-	5000	65.27
5-	5200	64.78
5-	5400	64.32
5-	5600	63.87
5-	5800	63.66
5-	6000	63.45
5-	6200	63.45
5-	6400	63.45
5-	6600	63.45
5-	6800	63.45
5-	7000	63.45
5-	7200	63.45
5-	7400	63.45
5-	7600	63.45
5-	8000	63.45
5-	9999999	63.45
6	400	119.59
6	500	117.32
6	600	115.05
6	700	112.78
6	800	110.51
6	1000	105.98
6	1200	102.42
6	1400	99.50
6	1600	97.04
6	1800	94.93
6	2000	93.07
6	2200	91.42
6	2400	89.94

Sched:			
Matrix:	MA	X Axis: CLASS	Label: UC
Adj Factor:	N/A	Y Axis: AREA	Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
6	2600	88.60
6	2800	87.38
6	3000	86.26
6	3200	85.22
6	3400	84.26
6	3600	83.36
6	3800	82.53
6	4000	81.74
6	4200	81.00
6	4400	80.35
6	4600	79.69
6	4800	79.12
6	5000	78.55
6	5200	77.98
6	5400	77.49
6	5600	76.92
6	5800	76.47
6	6000	76.02
6	6200	76.02
6	6400	76.02
6	6600	76.02
6	6800	76.02
6	7000	76.02
6	7200	76.02
6	7400	76.02
6	7600	76.02
6	8000	76.02
6	9999999	76.02
6+	400	125.95
6+	500	123.56
6+	600	121.17
6+	700	118.78
6+	800	116.39
6+	1000	111.62
6+	1200	107.87
6+	1400	104.75
6+	1600	102.11
6+	1800	99.84
6+	2000	97.85
6+	2200	96.09
6+	2400	94.51
6+	2600	93.07
6+	2800	91.77
6+	3000	90.57
6+	3200	89.46
6+	3400	88.43
6+	3600	87.47
6+	3800	86.58
6+	4000	85.73
6+	4200	84.95
6+	4400	84.23
6+	4600	83.53
6+	4800	82.88
6+	5000	82.24
6+	5200	81.62
6+	5400	81.08
6+	5600	80.46
6+	5800	79.96
6+	6000	79.45
6+	6200	79.45
6+	6400	79.45
6+	6600	79.45
6+	6800	79.45
6+	7000	79.45
6+	7200	79.45
6+	7400	79.45
6+	7600	79.45
6+	8000	79.45
6+	9999999	79.45
6-	400	112.27
6-	500	110.14
6-	600	108.01
6-	700	105.88
6-	800	103.75
6-	1000	99.50
6-	1200	96.16
6-	1400	93.42
6-	1600	91.12
6-	1800	89.13
6-	2000	87.38
6-	2200	85.84
6-	2400	84.45
6-	2600	83.19
6-	2800	82.05
6-	3000	80.99
6-	3200	80.02
6-	3400	79.10
6-	3600	78.25
6-	3800	77.46
6-	4000	76.71

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
6-	4200	76.01
6-	4400	75.38
6-	4600	74.76
6-	4800	74.20
6-	5000	73.66
6-	5200	73.12
6-	5400	72.64
6-	5600	72.11
6-	5800	71.69
6-	6000	71.27
6-	6200	71.27
6-	6400	71.27
6-	6600	71.27
6-	6800	71.27
6-	7000	71.27
6-	7200	71.27
6-	7400	71.27
6-	7600	71.27
6-	8000	71.27
6-	9999999	71.27
7	400	139.28
7	500	137.40
7	600	135.52
7	700	133.64
7	800	131.76
7	1000	128.00
7	1200	124.24
7	1400	120.48
7	1600	117.31
7	1800	114.59
7	2000	112.20
7	2200	110.10
7	2400	108.20
7	2600	106.48
7	2800	104.92
7	3000	103.49
7	3200	102.17
7	3400	100.94
7	3600	99.79
7	3800	98.73
7	4000	97.72
7	4200	96.78
7	4400	95.88
7	4600	95.02
7	4800	94.16
7	5000	93.29
7	5200	92.53
7	5400	91.85
7	5600	91.09
7	5800	90.42
7	6000	89.75
7	6200	89.17
7	6400	88.59
7	6600	88.59
7	6800	88.59
7	7000	88.59
7	7200	88.59
7	7400	88.59
7	7600	88.59
7	8000	88.59
7	9999999	88.59
7+	400	155.73
7+	500	153.63
7+	600	151.53
7+	700	149.43
7+	800	147.33
7+	1000	143.13
7+	1200	138.93
7+	1400	134.73
7+	1600	131.19
7+	1800	128.23
7+	2000	125.64
7+	2200	123.35
7+	2400	121.28
7+	2600	119.42
7+	2800	117.72
7+	3000	116.16
7+	3200	114.72
7+	3400	113.38
7+	3600	112.13
7+	3800	110.97
7+	4000	109.87
7+	4200	108.84
7+	4400	107.86
7+	4600	106.93
7+	4800	106.01
7+	5000	105.14
7+	5200	104.27
7+	5400	103.50
7+	5600	102.73

Sched:

Matrix: MA

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
7+	5800	102.01
7+	6000	101.29
7+	6200	100.68
7+	6400	100.06
7+	6600	100.06
7+	6800	100.06
7+	7000	100.06
7+	7200	100.06
7+	7400	100.06
7+	7600	100.06
7+	8000	100.06
7+	9999999	100.06
7-	400	132.91
7-	500	131.13
7-	600	129.35
7-	700	127.57
7-	800	125.79
7-	1000	122.29
7-	1200	118.79
7-	1400	115.24
7-	1600	112.25
7-	1800	109.68
7-	2000	107.42
7-	2200	105.43
7-	2400	103.64
7-	2600	102.01
7-	2800	100.54
7-	3000	99.18
7-	3200	97.94
7-	3400	96.77
7-	3600	95.69
7-	3800	94.68
7-	4000	93.73
7-	4200	92.84
7-	4400	92.00
7-	4600	91.19
7-	4800	90.40
7-	5000	89.61
7-	5200	88.89
7-	5400	88.26
7-	5600	87.54
7-	5800	86.93
7-	6000	86.31
7-	6200	85.26
7-	6400	85.21
7-	6600	85.21
7-	6800	85.21
7-	7000	85.21
7-	7200	85.21
7-	7400	85.21
7-	7600	85.21
7-	8000	85.21
7-	9999999	85.21
8	400	194.76
8	500	192.93
8	600	191.10
8	700	189.27
8	800	187.44
8	1000	183.78
8	1200	180.12
8	1400	176.46
8	1600	172.80
8	1800	169.14
8	2000	165.94
8	2200	163.10
8	2400	160.54
8	2600	158.22
8	2800	156.11
8	3000	154.16
8	3200	152.37
8	3400	150.69
8	3600	149.14
8	3800	147.68
8	4000	146.32
8	4200	145.02
8	4400	143.80
8	4600	142.68
8	4800	141.55
8	5000	140.53
8	5200	139.51
8	5400	138.58
8	5600	137.64
8	5800	136.79
8	6000	135.93
8	6200	135.12
8	6400	134.44
8	6600	133.62
8	6800	132.94
8	7000	132.26
8	7200	131.58

Sched:			
Matrix:	MA	X Axis: CLASS	Label: UC
Adj Factor:	N/A	Y Axis: AREA	Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
8	7400	131.04
8	7600	130.36
8	8000	130.09
8	9999999	130.09
8+	400	201.01
8+	500	199.12
8+	600	197.23
8+	700	195.34
8+	800	193.45
8+	1000	189.68
8+	1200	185.91
8+	1400	182.14
8+	1600	178.37
8+	1800	174.60
8+	2000	171.29
8+	2200	168.36
8+	2400	165.71
8+	2600	163.32
8+	2800	161.14
8+	3000	159.13
8+	3200	157.28
8+	3400	155.55
8+	3600	153.95
8+	3800	152.44
8+	4000	151.04
8+	4200	149.70
8+	4400	148.44
8+	4600	147.28
8+	4800	146.12
8+	5000	145.07
8+	5200	144.01
8+	5400	143.05
8+	5600	142.08
8+	5800	141.20
8+	6000	140.32
8+	6200	139.48
8+	6400	138.77
8+	6600	137.93
8+	6800	137.23
8+	7000	136.53
8+	7200	135.83
8+	7400	135.27
8+	7600	134.56
8+	8000	134.28
8+	9999999	134.28
8-	400	179.53
8-	500	177.81
8-	600	176.09
8-	700	174.37
8-	800	172.65
8-	1000	169.22
8-	1200	165.79
8-	1400	162.36
8-	1600	158.93
8-	1800	155.50
8-	2000	152.50
8-	2200	149.85
8-	2400	147.45
8-	2600	145.29
8-	2800	143.31
8-	3000	141.49
8-	3200	139.82
8-	3400	138.26
8-	3600	136.81
8-	3800	135.44
8-	4000	134.17
8-	4200	132.96
8-	4400	131.82
8-	4600	130.76
8-	4800	129.70
8-	5000	128.73
8-	5200	127.76
8-	5400	126.88
8-	5600	126.00
8-	5800	125.20
8-	6000	124.39
8-	6200	123.68
8-	6400	122.98
8-	6600	122.23
8-	6800	121.61
8-	7000	120.99
8-	7200	120.37
8-	7400	119.87
8-	7600	119.25
8-	8000	119.00
8-	9999999	119.00

Matrix Schedule

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
1	800	40.69
1	1000	38.66
1	1200	37.07
1	1400	35.78
1	1500	35.22
1	1600	34.70
1	1700	34.22
1	1800	33.77
1	1900	33.36
1	2000	32.96
1	2100	32.60
1	2200	32.25
1	2400	31.61
1	2600	31.04
1	2800	30.51
1	3000	30.03
1	3200	29.58
1	3400	29.16
1	3600	28.77
1	3800	28.41
1	4000	28.05
1	4200	28.05
1	4400	28.05
1	4600	28.05
1	4800	28.05
1	5000	28.05
1	5200	28.05
1	5400	28.05
1	5600	28.05
1	6000	28.05
1	6400	28.05
1	6600	28.05
1	6800	28.05
1	7000	28.05
1	7200	28.05
1	7400	28.05
1	7600	28.05
1	8000	28.05
1	9999999	28.05
1+	800	41.30
1+	1000	39.56
1+	1200	38.01
1+	1400	36.75
1+	1500	36.19
1+	1600	35.68
1+	1700	35.21
1+	1800	34.77
1+	1900	34.36
1+	2000	33.97
1+	2100	33.61
1+	2200	33.27
1+	2400	32.64
1+	2600	32.08
1+	2800	31.56
1+	3000	31.08
1+	3200	30.64
1+	3400	30.23
1+	3600	29.86
1+	3800	29.50
1+	4000	29.15
1+	4200	29.15
1+	4400	29.15
1+	4600	29.15
1+	4800	29.15
1+	5000	29.15
1+	5200	29.15
1+	5400	29.15
1+	5600	29.15
1+	6000	29.15
1+	6400	29.15
1+	6600	29.15
1+	6800	29.15
1+	7000	29.15
1+	7200	29.15
1+	7400	29.15
1+	7600	29.15
1+	8000	29.15
1+	9999999	29.15
1-	800	40.09
1-	1000	37.75
1-	1200	36.13
1-	1400	34.82
1-	1500	34.24
1-	1600	33.71
1-	1700	33.23
1-	1800	32.77
1-	1900	32.35
1-	2000	31.95

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
1-	2100	31.58
1-	2200	31.22
1-	2400	30.58
1-	2600	30.00
1-	2800	29.46
1-	3000	28.97
1-	3200	28.51
1-	3400	28.08
1-	3600	27.68
1-	3800	27.31
1-	4000	26.94
1-	4200	26.94
1-	4400	26.94
1-	4600	26.94
1-	4800	26.94
1-	5000	26.94
1-	5200	26.94
1-	5400	26.94
1-	5600	26.94
1-	6000	26.94
1-	6400	26.94
1-	6600	26.94
1-	6800	26.94
1-	7000	26.94
1-	7200	26.94
1-	7400	26.94
1-	7600	26.94
1-	8000	26.94
1-	9999999	26.94
2	800	62.60
2	1000	59.47
2	1200	57.03
2	1400	55.05
2	1500	54.18
2	1600	53.38
2	1700	52.64
2	1800	51.95
2	1900	51.32
2	2000	50.71
2	2100	50.15
2	2200	49.61
2	2400	48.63
2	2600	47.75
2	2800	46.94
2	3000	46.20
2	3200	45.50
2	3400	44.86
2	3600	44.26
2	3800	43.70
2	4000	43.15
2	4200	43.15
2	4400	43.15
2	4600	43.15
2	4800	43.15
2	5000	43.15
2	5200	43.15
2	5400	43.15
2	5600	43.15
2	6000	43.15
2	6400	43.15
2	6600	43.15
2	6800	43.15
2	7000	43.15
2	7200	43.15
2	7400	43.15
2	7600	43.15
2	8000	43.15
2	9999999	43.15
2+	800	63.53
2+	1000	60.86
2+	1200	58.47
2+	1400	56.53
2+	1500	55.68
2+	1600	54.89
2+	1700	54.17
2+	1800	53.49
2+	1900	52.87
2+	2000	52.27
2+	2100	51.72
2+	2200	51.19
2+	2400	50.22
2+	2600	49.35
2+	2800	48.56
2+	3000	47.82
2+	3200	47.15
2+	3400	46.52
2+	3600	45.93
2+	3800	45.39
2+	4000	44.85
2+	4200	44.85

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
2+	4400	44.85
2+	4600	44.85
2+	4800	44.85
2+	5000	44.85
2+	5200	44.85
2+	5400	44.85
2+	5600	44.85
2+	6000	44.85
2+	6400	44.85
2+	6600	44.85
2+	6800	44.85
2+	7000	44.85
2+	7200	44.85
2+	7400	44.85
2+	7600	44.85
2+	8000	44.85
2+	9999999	44.85
2-	800	61.67
2-	1000	58.08
2-	1200	55.58
2-	1400	53.57
2-	1500	52.68
2-	1600	51.86
2-	1700	51.12
2-	1800	50.41
2-	1900	49.77
2-	2000	49.15
2-	2100	48.58
2-	2200	48.03
2-	2400	47.04
2-	2600	46.15
2-	2800	45.33
2-	3000	44.57
2-	3200	43.86
2-	3400	43.20
2-	3600	42.58
2-	3800	42.02
2-	4000	41.45
2-	4200	41.45
2-	4400	41.45
2-	4600	41.45
2-	4800	41.45
2-	5000	41.45
2-	5200	41.45
2-	5400	41.45
2-	5600	41.45
2-	6000	41.45
2-	6400	41.45
2-	6600	41.45
2-	6800	41.45
2-	7000	41.45
2-	7200	41.45
2-	7400	41.45
2-	7600	41.45
2-	8000	41.45
2-	9999999	41.45
3	800	67.69
3	1000	65.03
3	1200	62.80
3	1400	60.98
3	1500	60.18
3	1600	59.43
3	1700	58.75
3	1800	58.11
3	1900	57.51
3	2000	56.95
3	2100	56.42
3	2200	55.92
3	2400	54.99
3	2600	54.16
3	2800	53.40
3	3000	52.70
3	3200	52.07
3	3400	51.49
3	3600	50.96
3	3800	50.43
3	4000	49.96
3	4200	49.96
3	4400	49.96
3	4600	49.96
3	4800	49.96
3	5000	49.96
3	5200	49.96
3	5400	49.96
3	5600	49.96
3	6000	49.96
3	6400	49.96
3	6600	49.96
3	6800	49.96
3	7000	49.96

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
3	7200	49.96
3	7400	49.96
3	7600	49.96
3	8000	49.96
3	9999999	49.96
3+	800	70.55
3+	1000	67.73
3+	1200	65.34
3+	1400	63.39
3+	1500	62.54
3+	1600	61.75
3+	1700	61.02
3+	1800	60.33
3+	1900	59.69
3+	2000	59.10
3+	2100	58.53
3+	2200	58.00
3+	2400	57.02
3+	2600	56.13
3+	2800	55.32
3+	3000	54.57
3+	3200	53.90
3+	3400	53.28
3+	3600	52.72
3+	3800	52.18
3+	4000	51.68
3+	4200	51.68
3+	4400	51.68
3+	4600	51.68
3+	4800	51.68
3+	5000	51.68
3+	5200	51.68
3+	5400	51.68
3+	5600	51.68
3+	6000	51.68
3+	6400	51.68
3+	6600	51.68
3+	6800	51.68
3+	7000	51.68
3+	7200	51.68
3+	7400	51.68
3+	7600	51.68
3+	8000	51.68
3+	9999999	51.68
3-	800	66.36
3-	1000	63.64
3-	1200	61.36
3-	1400	59.49
3-	1500	58.68
3-	1600	57.92
3-	1700	57.23
3-	1800	56.57
3-	1900	55.96
3-	2000	55.39
3-	2100	54.85
3-	2200	54.34
3-	2400	53.40
3-	2600	52.56
3-	2800	51.78
3-	3000	51.07
3-	3200	50.43
3-	3400	49.55
3-	3600	49.28
3-	3800	48.75
3-	4000	48.26
3-	4200	48.26
3-	4400	48.26
3-	4600	48.26
3-	4800	48.26
3-	5000	48.26
3-	5200	48.26
3-	5400	48.26
3-	5600	48.26
3-	6000	48.26
3-	6400	48.26
3-	6600	48.26
3-	6800	48.26
3-	7000	48.26
3-	7200	48.26
3-	7400	48.26
3-	7600	48.26
3-	8000	48.26
3-	9999999	48.26
4	800	79.20
4	1000	75.80
4	1200	72.96
4	1400	70.64
4	1500	69.62
4	1600	68.68
4	1700	67.82

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
4	1800	67.01
4	1900	66.25
4	2000	65.54
4	2100	64.88
4	2200	64.25
4	2400	63.08
4	2600	62.04
4	2800	61.08
4	3000	60.20
4	3200	59.39
4	3400	58.68
4	3600	58.02
4	3800	57.43
4	4000	56.83
4	4200	56.30
4	4400	55.77
4	4600	55.29
4	4800	54.82
4	5000	54.40
4	5200	53.98
4	5400	53.57
4	5600	53.21
4	6000	53.21
4	6400	53.21
4	6600	53.21
4	6800	53.21
4	7000	53.21
4	7200	53.21
4	7400	53.21
4	7600	53.21
4	8000	53.21
4	9999999	53.21
4+	800	87.07
4+	1000	83.35
4+	1200	80.32
4+	1400	77.85
4+	1500	76.81
4+	1600	75.77
4+	1700	74.88
4+	1800	73.99
4+	1900	73.18
4+	2000	72.42
4+	2100	71.72
4+	2200	71.04
4+	2400	69.80
4+	2600	68.68
4+	2800	67.65
4+	3000	66.71
4+	3200	65.85
4+	3400	65.07
4+	3600	64.36
4+	3800	63.70
4+	4000	63.06
4+	4200	62.48
4+	4400	61.91
4+	4600	61.39
4+	4800	60.89
4+	5000	60.44
4+	5200	59.98
4+	5400	59.55
4+	5600	59.14
4+	6000	59.14
4+	6400	59.14
4+	6600	59.14
4+	6800	59.14
4+	7000	59.14
4+	7200	59.14
4+	7400	59.14
4+	7600	59.14
4+	8000	59.14
4+	9999999	59.14
4-	800	76.31
4-	1000	73.11
4-	1200	70.42
4-	1400	68.22
4-	1500	67.26
4-	1600	66.37
4-	1700	65.55
4-	1800	64.79
4-	1900	64.07
4-	2000	63.39
4-	2100	62.77
4-	2200	62.16
4-	2400	61.06
4-	2600	60.07
4-	2800	59.16
4-	3000	58.32
4-	3200	57.56
4-	3400	56.88
4-	3600	56.26

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
4-	3800	55.68
4-	4000	55.12
4-	4200	54.60
4-	4400	54.08
4-	4600	53.62
4-	4800	53.16
4-	5000	52.75
4-	5200	52.35
4-	5400	51.95
4-	5600	51.60
4-	6000	51.60
4-	6400	51.60
4-	6600	51.60
4-	6800	51.60
4-	7000	51.60
4-	7200	51.60
4-	7400	51.60
4-	7600	51.60
4-	8000	51.60
4-	9999999	51.60
5	800	94.01
5	1000	90.89
5	1200	87.69
5	1400	85.07
5	1500	83.97
5	1600	82.86
5	1700	81.92
5	1800	80.97
5	1900	80.11
5	2000	79.31
5	2100	78.55
5	2200	77.84
5	2400	76.51
5	2600	75.32
5	2800	74.23
5	3000	73.23
5	3200	72.31
5	3400	71.47
5	3600	70.69
5	3800	69.98
5	4000	69.29
5	4200	68.65
5	4400	68.06
5	4600	67.49
5	4800	66.97
5	5000	66.48
5	5200	65.98
5	5400	65.53
5	5600	65.07
5	6000	64.62
5	6400	64.62
5	6600	64.62
5	6800	64.62
5	7000	64.62
5	7200	64.62
5	7400	64.62
5	7600	64.62
5	8000	64.62
5	9999999	64.62
5+	800	99.92
5+	1000	96.64
5+	1200	93.28
5+	1400	90.54
5+	1500	89.38
5+	1600	88.22
5+	1700	87.21
5+	1800	86.19
5+	1900	85.28
5+	2000	84.40
5+	2100	83.61
5+	2200	82.83
5+	2400	81.41
5+	2600	80.13
5+	2800	78.96
5+	3000	77.88
5+	3200	76.90
5+	3400	75.99
5+	3600	75.16
5+	3800	74.38
5+	4000	73.63
5+	4200	72.95
5+	4400	72.31
5+	4600	71.70
5+	4800	71.13
5+	5000	70.59
5+	5200	70.06
5+	5400	69.58
5+	5600	69.07
5+	6000	68.58
5+	6400	68.58

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
5+	6600	68.58
5+	6800	68.58
5+	7000	68.58
5+	7200	68.58
5+	7400	68.58
5+	7600	68.58
5+	8000	68.58
5+	9999999	68.58
5-	800	88.68
5-	1000	85.77
5-	1200	82.74
5-	1400	80.26
5-	1500	79.21
5-	1600	78.16
5-	1700	77.27
5-	1800	76.37
5-	1900	75.56
5-	2000	74.79
5-	2100	74.08
5-	2200	73.40
5-	2400	72.15
5-	2600	71.02
5-	2800	69.99
5-	3000	69.03
5-	3200	68.17
5-	3400	67.38
5-	3600	66.65
5-	3800	65.97
5-	4000	65.32
5-	4200	64.72
5-	4400	64.14
5-	4600	63.61
5-	4800	63.11
5-	5000	62.63
5-	5200	62.17
5-	5400	61.73
5-	5600	61.30
5-	6000	60.88
5-	6400	60.88
5-	6600	60.88
5-	6800	60.88
5-	7000	60.88
5-	7200	60.88
5-	7400	60.88
5-	7600	60.88
5-	8000	60.88
5-	9999999	60.88
6	800	108.78
6	1000	104.32
6	1200	100.82
6	1400	97.95
6	1500	96.74
6	1600	95.53
6	1700	94.49
6	1800	93.45
6	1900	92.50
6	2000	91.62
6	2100	90.78
6	2200	90.00
6	2400	88.54
6	2600	87.22
6	2800	86.02
6	3000	84.91
6	3200	83.89
6	3400	82.95
6	3600	82.06
6	3800	81.24
6	4000	80.46
6	4200	79.74
6	4400	79.10
6	4600	78.45
6	4800	77.89
6	5000	77.33
6	5200	76.76
6	5400	76.28
6	5600	75.72
6	6000	74.83
6	6400	74.83
6	6600	74.83
6	6800	74.83
6	7000	74.83
6	7200	74.83
6	7400	74.83
6	7600	74.83
6	8000	74.83
6	9999999	74.83
6+	800	114.63
6+	1000	109.93
6+	1200	106.24
6+	1400	103.22

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
6+	1500	101.95
6+	1600	100.67
6+	1700	99.53
6+	1800	98.39
6+	1900	97.38
6+	2000	96.38
6+	2100	95.49
6+	2200	94.61
6+	2400	93.02
6+	2600	91.57
6+	2800	90.26
6+	3000	89.05
6+	3200	87.94
6+	3400	86.91
6+	3600	85.95
6+	3800	85.05
6+	4000	84.20
6+	4200	83.41
6+	4400	82.70
6+	4600	82.00
6+	4800	81.37
6+	5000	80.74
6+	5200	80.13
6+	5400	79.61
6+	5600	79.00
6+	6000	78.01
6+	6400	78.01
6+	6600	78.01
6+	6800	78.01
6+	7000	78.01
6+	7200	78.01
6+	7400	78.01
6+	7600	78.01
6+	8000	78.01
6+	9999999	78.01
6-	800	102.64
6-	1000	98.43
6-	1200	95.05
6-	1400	92.29
6-	1500	91.12
6-	1600	89.95
6-	1700	88.95
6-	1800	87.95
6-	1900	87.04
6-	2000	86.19
6-	2100	85.39
6-	2200	84.63
6-	2400	83.23
6-	2600	81.96
6-	2800	80.81
6-	3000	79.74
6-	3200	78.77
6-	3400	77.87
6-	3600	77.03
6-	3800	76.25
6-	4000	75.51
6-	4200	74.83
6-	4400	74.20
6-	4600	73.59
6-	4800	73.05
6-	5000	72.51
6-	5200	71.98
6-	5400	71.51
6-	5600	70.99
6-	6000	70.16
6-	6400	70.16
6-	6600	70.16
6-	6800	70.16
6-	7000	70.16
6-	7200	70.16
6-	7400	70.16
6-	7600	70.16
6-	8000	70.16
6-	9999999	70.16
7	800	124.05
7	1000	121.27
7	1200	118.49
7	1400	115.71
7	1500	112.93
7	1600	111.54
7	1700	110.15
7	1800	108.75
7	1900	107.53
7	2000	106.31
7	2100	105.24
7	2200	104.16
7	2400	102.23
7	2600	100.48
7	2800	98.90
7	3000	97.34

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
7	3200	96.09
7	3400	94.85
7	3600	93.69
7	3800	92.60
7	4000	91.59
7	4200	90.63
7	4400	89.74
7	4600	88.93
7	4800	88.12
7	5000	87.31
7	5200	86.60
7	5400	85.97
7	5600	85.25
7	6000	83.99
7	6400	82.92
7	6600	82.92
7	6800	82.92
7	7000	82.92
7	7200	82.92
7	7400	82.92
7	7600	82.92
7	8000	82.92
7	9999999	82.92
7+	800	135.55
7+	1000	132.47
7+	1200	129.39
7+	1400	126.31
7+	1500	124.77
7+	1600	123.23
7+	1700	121.69
7+	1800	120.15
7+	1900	118.84
7+	2000	117.52
7+	2100	116.36
7+	2200	115.20
7+	2400	113.11
7+	2600	111.23
7+	2800	109.51
7+	3000	107.94
7+	3200	106.48
7+	3400	105.14
7+	3600	103.89
7+	3800	102.72
7+	4000	101.62
7+	4200	100.58
7+	4400	99.61
7+	4600	98.73
7+	4800	97.85
7+	5000	96.98
7+	5200	96.20
7+	5400	95.47
7+	5600	94.73
7+	6000	93.37
7+	6400	92.23
7+	6600	92.23
7+	6800	92.23
7+	7000	92.23
7+	7200	92.23
7+	7400	92.23
7+	7600	92.23
7+	8000	92.23
7+	9999999	92.23
7-	800	122.48
7-	1000	118.84
7-	1200	115.20
7-	1400	111.56
7-	1500	109.74
7-	1600	107.92
7-	1700	106.61
7-	1800	105.30
7-	1900	104.15
7-	2000	103.00
7-	2100	101.99
7-	2200	100.98
7-	2400	99.16
7-	2600	97.51
7-	2800	96.02
7-	3000	94.64
7-	3200	93.37
7-	3400	92.20
7-	3600	91.11
7-	3800	90.09
7-	4000	89.13
7-	4200	88.23
7-	4400	87.39
7-	4600	86.62
7-	4800	85.87
7-	5000	85.12
7-	5200	84.44
7-	5400	83.85

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
7-	5600	83.17
7-	6000	82.00
7-	6400	80.95
7-	6600	80.95
7-	6800	80.95
7-	7000	80.95
7-	7200	80.95
7-	7400	80.95
7-	7600	80.95
7-	8000	80.95
7-	9999999	80.95
8	800	170.34
8	1000	167.14
8	1200	163.94
8	1400	160.74
8	1500	159.14
8	1600	157.54
8	1700	155.94
8	1800	154.34
8	1900	152.74
8	2000	151.14
8	2100	149.73
8	2200	148.31
8	2400	145.77
8	2600	143.47
8	2800	141.37
8	3000	139.45
8	3200	137.67
8	3400	136.02
8	3600	134.49
8	3800	133.05
8	4000	131.70
8	4200	130.43
8	4400	129.23
8	4600	128.13
8	4800	127.02
8	5000	125.99
8	5200	125.01
8	5400	124.10
8	5600	123.19
8	6000	121.51
8	6400	120.17
8	6600	119.44
8	6800	118.84
8	7000	118.23
8	7200	117.62
8	7400	117.13
8	7600	116.53
8	8000	116.28
8	9999999	116.28
8+	800	175.81
8+	1000	172.51
8+	1200	169.21
8+	1400	165.91
8+	1500	164.26
8+	1600	162.61
8+	1700	160.96
8+	1800	159.31
8+	1900	157.66
8+	2000	156.01
8+	2100	154.55
8+	2200	153.09
8+	2400	150.47
8+	2600	148.10
8+	2800	145.93
8+	3000	143.94
8+	3200	142.11
8+	3400	140.41
8+	3600	138.83
8+	3800	137.34
8+	4000	135.95
8+	4200	134.64
8+	4400	133.40
8+	4600	132.26
8+	4800	131.12
8+	5000	130.06
8+	5200	129.04
8+	5400	128.10
8+	5600	127.16
8+	6000	125.43
8+	6400	124.05
8+	6600	123.30
8+	6800	122.67
8+	7000	122.04
8+	7200	121.41
8+	7400	120.91
8+	7600	120.29
8+	8000	120.03
8+	9999999	120.03
8-	800	157.94

Sched:

Matrix: MA 2.0

Adj Factor: N/A

X Axis: CLASS

Y Axis: AREA

Label: UC

Operator: addition

<u>CLASS</u>	<u>AREA</u>	<u>VALUE</u>
8-	1000	154.94
8-	1200	151.94
8-	1400	148.94
8-	1500	147.44
8-	1600	145.94
8-	1700	144.44
8-	1800	142.94
8-	1900	141.44
8-	2000	139.93
8-	2100	138.60
8-	2200	137.27
8-	2400	134.88
8-	2600	132.72
8-	2800	130.75
8-	3000	128.94
8-	3200	127.27
8-	3400	125.73
8-	3600	124.29
8-	3800	122.94
8-	4000	121.67
8-	4200	120.48
8-	4400	119.36
8-	4600	118.33
8-	4800	117.29
8-	5000	116.32
8-	5200	115.41
8-	5400	114.56
8-	5600	113.70
8-	6000	112.13
8-	6400	110.86
8-	6600	110.19
8-	6800	109.63
8-	7000	109.06
8-	7200	108.50
8-	7400	108.06
8-	7600	107.50
8-	8000	107.27
8-	9999999	107.27

Matrix Schedule

Sched:

Matrix: CONDITION

Adj Factor: N/A

X Axis: CLASS

Y Axis: CONDITION

Label: DEPR

Operator: goto

<u>CLASS</u>	<u>CONDITION</u>	<u>VALUE</u>
1	AV	29.00
1	EX	28.00
1	FR	30.00
1	GD	32.00
1	PR	33.00
1	UN	34.00
1	VG	35.00
1	VP	36.00
1+	AV	29.00
1+	EX	28.00
1+	FR	30.00
1+	GD	32.00
1+	PR	33.00
1+	UN	34.00
1+	VG	35.00
1+	VP	36.00
1-	AV	29.00
1-	EX	28.00
1-	FR	30.00
1-	GD	32.00
1-	PR	33.00
1-	UN	34.00
1-	VG	35.00
1-	VP	36.00
2	AV	29.00
2	EX	28.00
2	FR	30.00
2	GD	32.00
2	PR	33.00
2	UN	34.00
2	VG	35.00
2	VP	36.00
2+	AV	29.00
2+	EX	28.00
2+	FR	30.00
2+	GD	32.00
2+	PR	33.00
2+	UN	34.00
2+	VG	35.00
2+	VP	36.00
2-	AV	29.00
2-	EX	28.00
2-	FR	30.00
2-	GD	32.00
2-	PR	33.00
2-	UN	34.00
2-	VG	35.00
2-	VP	36.00
3	AV	29.00
3	EX	28.00
3	FR	30.00
3	GD	32.00
3	PR	33.00
3	UN	34.00
3	VG	35.00
3	VP	36.00
3+	AV	29.00
3+	EX	28.00
3+	FR	30.00
3+	GD	32.00
3+	PR	33.00
3+	UN	34.00
3+	VG	35.00
3+	VP	36.00
3-	AV	29.00
3-	EX	28.00
3-	FR	30.00
3-	GD	32.00
3-	PR	33.00
3-	UN	34.00
3-	VG	35.00
3-	VP	36.00
4	AV	29.00
4	EX	28.00
4	FR	30.00
4	GD	32.00
4	PR	33.00
4	UN	34.00
4	VG	35.00
4	VP	36.00
4+	AV	29.00
4+	EX	28.00
4+	FR	30.00
4+	GD	32.00
4+	PR	33.00
4+	UN	34.00
4+	VG	35.00

Sched: Matrix: CONDITION X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: CONDITION Operator: goto

<u>CLASS</u>	<u>CONDITION</u>	<u>VALUE</u>
4+	VP	36.00
4-	AV	29.00
4-	EX	28.00
4-	FR	30.00
4-	GD	32.00
4-	PR	33.00
4-	UN	34.00
4-	VG	35.00
4-	VP	36.00
5	AV	29.00
5	EX	28.00
5	FR	30.00
5	GD	32.00
5	PR	33.00
5	UN	34.00
5	VG	35.00
5	VP	36.00
5+	AV	29.00
5+	EX	28.00
5+	FR	30.00
5+	GD	32.00
5+	PR	33.00
5+	UN	34.00
5+	VG	35.00
5+	VP	36.00
5-	AV	29.00
5-	EX	28.00
5-	FR	30.00
5-	GD	32.00
5-	PR	33.00
5-	UN	34.00
5-	VG	35.00
5-	VP	36.00
6	AV	29.00
6	EX	28.00
6	FR	30.00
6	GD	32.00
6	PR	33.00
6	UN	34.00
6	VG	35.00
6	VP	36.00
6+	AV	29.00
6+	EX	28.00
6+	FR	30.00
6+	GD	32.00
6+	PR	33.00
6+	UN	34.00
6+	VG	35.00
6+	VP	36.00
6-	AV	29.00
6-	EX	28.00
6-	FR	30.00
6-	GD	32.00
6-	PR	33.00
6-	UN	34.00
6-	VG	35.00
6-	VP	36.00
7	AV	29.00
7	EX	28.00
7	FR	30.00
7	GD	32.00
7	PR	33.00
7	UN	34.00
7	VG	35.00
7	VP	36.00
7+	AV	29.00
7+	EX	28.00
7+	FR	30.00
7+	GD	32.00
7+	PR	33.00
7+	UN	34.00
7+	VG	35.00
7+	VP	36.00
7-	AV	29.00
7-	EX	28.00
7-	FR	30.00
7-	GD	32.00
7-	PR	33.00
7-	UN	34.00
7-	VG	35.00
7-	VP	36.00
8	AV	29.00
8	EX	28.00
8	FR	30.00
8	GD	32.00
8	PR	33.00
8	UN	34.00
8	VG	35.00
8	VP	36.00

Sched:
Matrix:
Adj Factor:

CONDITION
N/A

X Axis: CLASS
Y Axis: CONDITION

Label: DEPR
Operator: goto

<u>CLASS</u>	<u>CONDITION</u>	<u>VALUE</u>
8+	AV	29.00
8+	EX	28.00
8+	FR	30.00
8+	GD	32.00
8+	PR	33.00
8+	UN	34.00
8+	VG	35.00
8+	VP	36.00
8-	AV	29.00
8-	EX	28.00
8-	FR	30.00
8-	GD	32.00
8-	PR	33.00
8-	UN	34.00
8-	VG	35.00
8-	VP	36.00

Matrix Schedule

Sched:

Matrix: DEPR UN

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	49.00
1	2.00	48.00
1	3.00	47.00
1	4.00	46.00
1	5.00	45.00
1	6.00	44.00
1	7.00	43.00
1	8.00	42.00
1	9.00	41.00
1	10.00	40.00
1	11.00	39.00
1	12.00	38.00
1	13.00	37.00
1	14.00	37.00
1	15.00	36.00
1	16.00	35.00
1	17.00	34.00
1	18.00	33.00
1	19.00	32.00
1	20.00	31.00
1	21.00	30.00
1	22.00	29.00
1	23.00	28.00
1	24.00	27.00
1	25.00	26.00
1	26.00	25.00
1	27.00	24.00
1	28.00	23.00
1	29.00	22.00
1	30.00	21.00
1	31.00	20.00
1	32.00	19.00
1	33.00	18.00
1	34.00	17.00
1	35.00	16.00
1	36.00	15.00
1	37.00	14.00
1	38.00	13.00
1	39.00	13.00
1	40.00	12.00
1	41.00	11.00
1	42.00	10.00
1	43.00	9.00
1	44.00	8.00
1	45.00	7.00
1	46.00	6.00
1	47.00	5.00
1	48.00	4.00
1	49.00	3.00
1	50.00	2.00
1	51.00	1.00
1	52.00	1.00
1	53.00	1.00
1	54.00	1.00
1	55.00	1.00
1	56.00	1.00
1	57.00	1.00
1	58.00	1.00
1	59.00	1.00
1	60.00	1.00
1	61.00	1.00
1	62.00	1.00
1	63.00	1.00
1	64.00	1.00
1	65.00	1.00
1	66.00	1.00
1	67.00	1.00
1	68.00	1.00
1	69.00	1.00
1	70.00	1.00
1	71.00	1.00
1	199.00	1.00
1+	1.00	49.00
1+	2.00	48.00
1+	3.00	47.00
1+	4.00	46.00
1+	5.00	45.00
1+	6.00	44.00
1+	7.00	43.00
1+	8.00	42.00
1+	9.00	41.00
1+	10.00	40.00
1+	11.00	39.00
1+	12.00	38.00
1+	13.00	37.00
1+	14.00	37.00
1+	15.00	36.00
1+	16.00	35.00

Sched:			
Matrix:	DEPR UN	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	34.00
1+	18.00	33.00
1+	19.00	32.00
1+	20.00	31.00
1+	21.00	30.00
1+	22.00	29.00
1+	23.00	28.00
1+	24.00	27.00
1+	25.00	26.00
1+	26.00	25.00
1+	27.00	24.00
1+	28.00	23.00
1+	29.00	22.00
1+	30.00	21.00
1+	31.00	20.00
1+	32.00	19.00
1+	33.00	18.00
1+	34.00	17.00
1+	35.00	16.00
1+	36.00	15.00
1+	37.00	14.00
1+	38.00	13.00
1+	39.00	13.00
1+	40.00	12.00
1+	41.00	11.00
1+	42.00	10.00
1+	43.00	9.00
1+	44.00	8.00
1+	45.00	7.00
1+	46.00	6.00
1+	47.00	5.00
1+	48.00	4.00
1+	49.00	3.00
1+	50.00	2.00
1+	51.00	1.00
1+	52.00	1.00
1+	53.00	1.00
1+	54.00	1.00
1+	55.00	1.00
1+	56.00	1.00
1+	57.00	1.00
1+	58.00	1.00
1+	59.00	1.00
1+	60.00	1.00
1+	61.00	1.00
1+	62.00	1.00
1+	63.00	1.00
1+	64.00	1.00
1+	65.00	1.00
1+	66.00	1.00
1+	67.00	1.00
1+	68.00	1.00
1+	69.00	1.00
1+	70.00	1.00
1+	71.00	1.00
1+	199.00	1.00
1-	1.00	49.00
1-	2.00	48.00
1-	3.00	47.00
1-	4.00	46.00
1-	5.00	45.00
1-	6.00	44.00
1-	7.00	43.00
1-	8.00	42.00
1-	9.00	41.00
1-	10.00	40.00
1-	11.00	39.00
1-	12.00	38.00
1-	13.00	37.00
1-	14.00	37.00
1-	15.00	36.00
1-	16.00	35.00
1-	17.00	34.00
1-	18.00	33.00
1-	19.00	32.00
1-	20.00	31.00
1-	21.00	30.00
1-	22.00	29.00
1-	23.00	28.00
1-	24.00	27.00
1-	25.00	26.00
1-	26.00	25.00
1-	27.00	24.00
1-	28.00	23.00
1-	29.00	22.00
1-	30.00	21.00
1-	31.00	20.00
1-	32.00	19.00
1-	33.00	18.00
1-	34.00	17.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	16.00
1-	36.00	15.00
1-	37.00	14.00
1-	38.00	13.00
1-	39.00	13.00
1-	40.00	12.00
1-	41.00	11.00
1-	42.00	10.00
1-	43.00	9.00
1-	44.00	8.00
1-	45.00	7.00
1-	46.00	6.00
1-	47.00	5.00
1-	48.00	4.00
1-	49.00	3.00
1-	50.00	2.00
1-	51.00	1.00
1-	52.00	1.00
1-	53.00	1.00
1-	54.00	1.00
1-	55.00	1.00
1-	56.00	1.00
1-	57.00	1.00
1-	58.00	1.00
1-	59.00	1.00
1-	60.00	1.00
1-	61.00	1.00
1-	62.00	1.00
1-	63.00	1.00
1-	64.00	1.00
1-	65.00	1.00
1-	66.00	1.00
1-	67.00	1.00
1-	68.00	1.00
1-	69.00	1.00
1-	70.00	1.00
1-	71.00	1.00
1-	199.00	1.00
2	1.00	49.00
2	2.00	48.00
2	3.00	47.00
2	4.00	46.00
2	5.00	45.00
2	6.00	44.00
2	7.00	43.00
2	8.00	42.00
2	9.00	41.00
2	10.00	40.00
2	11.00	39.00
2	12.00	38.00
2	13.00	37.00
2	14.00	37.00
2	15.00	36.00
2	16.00	35.00
2	17.00	34.00
2	18.00	33.00
2	19.00	32.00
2	20.00	31.00
2	21.00	30.00
2	22.00	29.00
2	23.00	28.00
2	24.00	27.00
2	25.00	26.00
2	26.00	25.00
2	27.00	24.00
2	28.00	23.00
2	29.00	22.00
2	30.00	21.00
2	31.00	20.00
2	32.00	19.00
2	33.00	18.00
2	34.00	17.00
2	35.00	16.00
2	36.00	15.00
2	37.00	14.00
2	38.00	13.00
2	39.00	13.00
2	40.00	12.00
2	41.00	11.00
2	42.00	10.00
2	43.00	9.00
2	44.00	8.00
2	45.00	7.00
2	46.00	6.00
2	47.00	5.00
2	48.00	4.00
2	49.00	3.00
2	50.00	2.00
2	51.00	1.00
2	52.00	1.00

Sched:			
Matrix:	DEPR UN	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	1.00
2	54.00	1.00
2	55.00	1.00
2	56.00	1.00
2	57.00	1.00
2	58.00	1.00
2	59.00	1.00
2	60.00	1.00
2	61.00	1.00
2	62.00	1.00
2	63.00	1.00
2	64.00	1.00
2	65.00	1.00
2	66.00	1.00
2	67.00	1.00
2	68.00	1.00
2	69.00	1.00
2	70.00	1.00
2	71.00	1.00
2	199.00	1.00
2+	1.00	49.00
2+	2.00	48.00
2+	3.00	47.00
2+	4.00	46.00
2+	5.00	45.00
2+	6.00	44.00
2+	7.00	43.00
2+	8.00	42.00
2+	9.00	41.00
2+	10.00	40.00
2+	11.00	39.00
2+	12.00	38.00
2+	13.00	37.00
2+	14.00	37.00
2+	15.00	36.00
2+	16.00	35.00
2+	17.00	34.00
2+	18.00	33.00
2+	19.00	32.00
2+	20.00	31.00
2+	21.00	30.00
2+	22.00	29.00
2+	23.00	28.00
2+	24.00	27.00
2+	25.00	26.00
2+	26.00	25.00
2+	27.00	24.00
2+	28.00	23.00
2+	29.00	22.00
2+	30.00	21.00
2+	31.00	20.00
2+	32.00	19.00
2+	33.00	18.00
2+	34.00	17.00
2+	35.00	16.00
2+	36.00	15.00
2+	37.00	14.00
2+	38.00	13.00
2+	39.00	13.00
2+	40.00	12.00
2+	41.00	11.00
2+	42.00	10.00
2+	43.00	9.00
2+	44.00	8.00
2+	45.00	7.00
2+	46.00	6.00
2+	47.00	5.00
2+	48.00	4.00
2+	49.00	3.00
2+	50.00	2.00
2+	51.00	1.00
2+	52.00	1.00
2+	53.00	1.00
2+	54.00	1.00
2+	55.00	1.00
2+	56.00	1.00
2+	57.00	1.00
2+	58.00	1.00
2+	59.00	1.00
2+	60.00	1.00
2+	61.00	1.00
2+	62.00	1.00
2+	63.00	1.00
2+	64.00	1.00
2+	65.00	1.00
2+	66.00	1.00
2+	67.00	1.00
2+	68.00	1.00
2+	69.00	1.00
2+	70.00	1.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	1.00
2+	199.00	1.00
2-	1.00	49.00
2-	2.00	48.00
2-	3.00	47.00
2-	4.00	46.00
2-	5.00	45.00
2-	6.00	44.00
2-	7.00	43.00
2-	8.00	42.00
2-	9.00	41.00
2-	10.00	40.00
2-	11.00	39.00
2-	12.00	38.00
2-	13.00	37.00
2-	14.00	37.00
2-	15.00	36.00
2-	16.00	35.00
2-	17.00	34.00
2-	18.00	33.00
2-	19.00	32.00
2-	20.00	31.00
2-	21.00	30.00
2-	22.00	29.00
2-	23.00	28.00
2-	24.00	27.00
2-	25.00	26.00
2-	26.00	25.00
2-	27.00	24.00
2-	28.00	23.00
2-	29.00	22.00
2-	30.00	21.00
2-	31.00	20.00
2-	32.00	19.00
2-	33.00	18.00
2-	34.00	17.00
2-	35.00	16.00
2-	36.00	15.00
2-	37.00	14.00
2-	38.00	13.00
2-	39.00	13.00
2-	40.00	12.00
2-	41.00	11.00
2-	42.00	10.00
2-	43.00	9.00
2-	44.00	8.00
2-	45.00	7.00
2-	46.00	6.00
2-	47.00	5.00
2-	48.00	4.00
2-	49.00	3.00
2-	50.00	2.00
2-	51.00	1.00
2-	52.00	1.00
2-	53.00	1.00
2-	54.00	1.00
2-	55.00	1.00
2-	56.00	1.00
2-	57.00	1.00
2-	58.00	1.00
2-	59.00	1.00
2-	60.00	1.00
2-	61.00	1.00
2-	62.00	1.00
2-	63.00	1.00
2-	64.00	1.00
2-	65.00	1.00
2-	66.00	1.00
2-	67.00	1.00
2-	68.00	1.00
2-	69.00	1.00
2-	70.00	1.00
2-	71.00	1.00
2-	199.00	1.00
3	1.00	49.00
3	2.00	48.00
3	3.00	47.00
3	4.00	46.00
3	5.00	46.00
3	6.00	45.00
3	7.00	44.00
3	8.00	43.00
3	9.00	42.00
3	10.00	41.00
3	11.00	40.00
3	12.00	39.00
3	13.00	39.00
3	14.00	38.00
3	15.00	37.00
3	16.00	36.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	35.00
3	18.00	34.00
3	19.00	33.00
3	20.00	32.00
3	21.00	32.00
3	22.00	31.00
3	23.00	30.00
3	24.00	29.00
3	25.00	28.00
3	26.00	27.00
3	27.00	26.00
3	28.00	25.00
3	29.00	25.00
3	30.00	24.00
3	31.00	23.00
3	32.00	22.00
3	33.00	21.00
3	34.00	20.00
3	35.00	19.00
3	36.00	18.00
3	37.00	18.00
3	38.00	17.00
3	39.00	16.00
3	40.00	15.00
3	41.00	14.00
3	42.00	13.00
3	43.00	12.00
3	44.00	11.00
3	45.00	11.00
3	46.00	10.00
3	47.00	9.00
3	48.00	8.00
3	49.00	7.00
3	50.00	6.00
3	51.00	5.00
3	52.00	4.00
3	53.00	4.00
3	54.00	3.00
3	55.00	2.00
3	56.00	1.00
3	57.00	1.00
3	58.00	1.00
3	59.00	1.00
3	60.00	1.00
3	61.00	1.00
3	62.00	1.00
3	63.00	1.00
3	64.00	1.00
3	65.00	1.00
3	66.00	1.00
3	67.00	1.00
3	68.00	1.00
3	69.00	1.00
3	70.00	1.00
3	71.00	1.00
3	199.00	1.00
3+	1.00	49.00
3+	2.00	48.00
3+	3.00	47.00
3+	4.00	46.00
3+	5.00	46.00
3+	6.00	45.00
3+	7.00	44.00
3+	8.00	43.00
3+	9.00	42.00
3+	10.00	41.00
3+	11.00	40.00
3+	12.00	39.00
3+	13.00	39.00
3+	14.00	38.00
3+	15.00	37.00
3+	16.00	36.00
3+	17.00	35.00
3+	18.00	34.00
3+	19.00	33.00
3+	20.00	32.00
3+	21.00	32.00
3+	22.00	31.00
3+	23.00	30.00
3+	24.00	29.00
3+	25.00	28.00
3+	26.00	27.00
3+	27.00	26.00
3+	28.00	25.00
3+	29.00	25.00
3+	30.00	24.00
3+	31.00	23.00
3+	32.00	22.00
3+	33.00	21.00
3+	34.00	20.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	19.00
3+	36.00	18.00
3+	37.00	18.00
3+	38.00	17.00
3+	39.00	16.00
3+	40.00	15.00
3+	41.00	14.00
3+	42.00	13.00
3+	43.00	12.00
3+	44.00	11.00
3+	45.00	11.00
3+	46.00	10.00
3+	47.00	9.00
3+	48.00	8.00
3+	49.00	7.00
3+	50.00	6.00
3+	51.00	5.00
3+	52.00	4.00
3+	53.00	4.00
3+	54.00	3.00
3+	55.00	2.00
3+	56.00	1.00
3+	57.00	1.00
3+	58.00	1.00
3+	59.00	1.00
3+	60.00	1.00
3+	61.00	1.00
3+	62.00	1.00
3+	63.00	1.00
3+	64.00	1.00
3+	65.00	1.00
3+	66.00	1.00
3+	67.00	1.00
3+	68.00	1.00
3+	69.00	1.00
3+	70.00	1.00
3+	71.00	1.00
3+	199.00	1.00
3-	1.00	49.00
3-	2.00	48.00
3-	3.00	47.00
3-	4.00	46.00
3-	5.00	46.00
3-	6.00	45.00
3-	7.00	44.00
3-	8.00	43.00
3-	9.00	42.00
3-	10.00	41.00
3-	11.00	40.00
3-	12.00	39.00
3-	13.00	39.00
3-	14.00	38.00
3-	15.00	37.00
3-	16.00	36.00
3-	17.00	35.00
3-	18.00	34.00
3-	19.00	33.00
3-	20.00	32.00
3-	21.00	32.00
3-	22.00	31.00
3-	23.00	30.00
3-	24.00	29.00
3-	25.00	28.00
3-	26.00	27.00
3-	27.00	26.00
3-	28.00	25.00
3-	29.00	25.00
3-	30.00	24.00
3-	31.00	23.00
3-	32.00	22.00
3-	33.00	21.00
3-	34.00	20.00
3-	35.00	19.00
3-	36.00	18.00
3-	37.00	18.00
3-	38.00	17.00
3-	39.00	16.00
3-	40.00	15.00
3-	41.00	14.00
3-	42.00	13.00
3-	43.00	12.00
3-	44.00	11.00
3-	45.00	11.00
3-	46.00	10.00
3-	47.00	9.00
3-	48.00	8.00
3-	49.00	7.00
3-	50.00	6.00
3-	51.00	5.00
3-	52.00	4.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	4.00
3-	54.00	3.00
3-	55.00	2.00
3-	56.00	1.00
3-	57.00	1.00
3-	58.00	1.00
3-	59.00	1.00
3-	60.00	1.00
3-	61.00	1.00
3-	62.00	1.00
3-	63.00	1.00
3-	64.00	1.00
3-	65.00	1.00
3-	66.00	1.00
3-	67.00	1.00
3-	68.00	1.00
3-	69.00	1.00
3-	70.00	1.00
3-	71.00	1.00
3-	199.00	1.00
4	1.00	49.00
4	2.00	48.00
4	3.00	47.00
4	4.00	47.00
4	5.00	46.00
4	6.00	45.00
4	7.00	44.00
4	8.00	43.00
4	9.00	43.00
4	10.00	42.00
4	11.00	41.00
4	12.00	40.00
4	13.00	39.00
4	14.00	39.00
4	15.00	38.00
4	16.00	37.00
4	17.00	36.00
4	18.00	35.00
4	19.00	35.00
4	20.00	34.00
4	21.00	33.00
4	22.00	32.00
4	23.00	31.00
4	24.00	31.00
4	25.00	30.00
4	26.00	29.00
4	27.00	28.00
4	28.00	27.00
4	29.00	27.00
4	30.00	26.00
4	31.00	25.00
4	32.00	24.00
4	33.00	23.00
4	34.00	23.00
4	35.00	22.00
4	36.00	21.00
4	37.00	20.00
4	38.00	19.00
4	39.00	19.00
4	40.00	18.00
4	41.00	17.00
4	42.00	16.00
4	43.00	15.00
4	44.00	15.00
4	45.00	14.00
4	46.00	13.00
4	47.00	12.00
4	48.00	11.00
4	49.00	11.00
4	50.00	10.00
4	51.00	9.00
4	52.00	8.00
4	53.00	7.00
4	54.00	7.00
4	55.00	6.00
4	56.00	5.00
4	57.00	4.00
4	58.00	3.00
4	59.00	3.00
4	60.00	2.00
4	61.00	1.00
4	62.00	1.00
4	63.00	1.00
4	64.00	1.00
4	65.00	1.00
4	66.00	1.00
4	67.00	1.00
4	68.00	1.00
4	69.00	1.00
4	70.00	1.00

Sched:
Matrix: DEPR UN X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	1.00
4	199.00	1.00
4+	1.00	49.00
4+	2.00	48.00
4+	3.00	47.00
4+	4.00	47.00
4+	5.00	46.00
4+	6.00	45.00
4+	7.00	44.00
4+	8.00	43.00
4+	9.00	43.00
4+	10.00	42.00
4+	11.00	41.00
4+	12.00	40.00
4+	13.00	39.00
4+	14.00	39.00
4+	15.00	38.00
4+	16.00	37.00
4+	17.00	36.00
4+	18.00	35.00
4+	19.00	35.00
4+	20.00	34.00
4+	21.00	33.00
4+	22.00	32.00
4+	23.00	31.00
4+	24.00	31.00
4+	25.00	30.00
4+	26.00	29.00
4+	27.00	28.00
4+	28.00	27.00
4+	29.00	27.00
4+	30.00	26.00
4+	31.00	25.00
4+	32.00	24.00
4+	33.00	23.00
4+	34.00	23.00
4+	35.00	22.00
4+	36.00	21.00
4+	37.00	20.00
4+	38.00	19.00
4+	39.00	19.00
4+	40.00	18.00
4+	41.00	17.00
4+	42.00	16.00
4+	43.00	15.00
4+	44.00	15.00
4+	45.00	14.00
4+	46.00	13.00
4+	47.00	12.00
4+	48.00	11.00
4+	49.00	11.00
4+	50.00	10.00
4+	51.00	9.00
4+	52.00	8.00
4+	53.00	7.00
4+	54.00	7.00
4+	55.00	6.00
4+	56.00	5.00
4+	57.00	4.00
4+	58.00	3.00
4+	59.00	3.00
4+	60.00	2.00
4+	61.00	1.00
4+	62.00	1.00
4+	63.00	1.00
4+	64.00	1.00
4+	65.00	1.00
4+	66.00	1.00
4+	67.00	1.00
4+	68.00	1.00
4+	69.00	1.00
4+	70.00	1.00
4+	71.00	1.00
4+	199.00	1.00
4-	1.00	49.00
4-	2.00	48.00
4-	3.00	47.00
4-	4.00	47.00
4-	5.00	46.00
4-	6.00	45.00
4-	7.00	44.00
4-	8.00	43.00
4-	9.00	43.00
4-	10.00	42.00
4-	11.00	41.00
4-	12.00	40.00
4-	13.00	39.00
4-	14.00	39.00
4-	15.00	38.00
4-	16.00	37.00

Sched:

Matrix: DEPR UN X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	36.00
4-	18.00	35.00
4-	19.00	35.00
4-	20.00	34.00
4-	21.00	33.00
4-	22.00	32.00
4-	23.00	31.00
4-	24.00	31.00
4-	25.00	30.00
4-	26.00	29.00
4-	27.00	28.00
4-	28.00	27.00
4-	29.00	27.00
4-	30.00	26.00
4-	31.00	25.00
4-	32.00	24.00
4-	33.00	23.00
4-	34.00	23.00
4-	35.00	22.00
4-	36.00	21.00
4-	37.00	20.00
4-	38.00	19.00
4-	39.00	19.00
4-	40.00	18.00
4-	41.00	17.00
4-	42.00	16.00
4-	43.00	15.00
4-	44.00	15.00
4-	45.00	14.00
4-	46.00	13.00
4-	47.00	12.00
4-	48.00	11.00
4-	49.00	11.00
4-	50.00	10.00
4-	51.00	9.00
4-	52.00	8.00
4-	53.00	7.00
4-	54.00	7.00
4-	55.00	6.00
4-	56.00	5.00
4-	57.00	4.00
4-	58.00	3.00
4-	59.00	3.00
4-	60.00	2.00
4-	61.00	1.00
4-	62.00	1.00
4-	63.00	1.00
4-	64.00	1.00
4-	65.00	1.00
4-	66.00	1.00
4-	67.00	1.00
4-	68.00	1.00
4-	69.00	1.00
4-	70.00	1.00
4-	71.00	1.00
4-	199.00	1.00
5	1.00	49.00
5	2.00	48.00
5	3.00	48.00
5	4.00	47.00
5	5.00	46.00
5	6.00	45.00
5	7.00	45.00
5	8.00	44.00
5	9.00	43.00
5	10.00	42.00
5	11.00	42.00
5	12.00	41.00
5	13.00	40.00
5	14.00	39.00
5	15.00	39.00
5	16.00	38.00
5	17.00	37.00
5	18.00	36.00
5	19.00	36.00
5	20.00	35.00
5	21.00	34.00
5	22.00	33.00
5	23.00	33.00
5	24.00	32.00
5	25.00	31.00
5	26.00	31.00
5	27.00	30.00
5	28.00	29.00
5	29.00	28.00
5	30.00	28.00
5	31.00	27.00
5	32.00	26.00
5	33.00	25.00
5	34.00	25.00

Sched:

Matrix: DEPR UN X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	24.00
5	36.00	23.00
5	37.00	22.00
5	38.00	22.00
5	39.00	21.00
5	40.00	20.00
5	41.00	19.00
5	42.00	19.00
5	43.00	18.00
5	44.00	17.00
5	45.00	17.00
5	46.00	16.00
5	47.00	15.00
5	48.00	14.00
5	49.00	14.00
5	50.00	13.00
5	51.00	12.00
5	52.00	11.00
5	53.00	11.00
5	54.00	10.00
5	55.00	9.00
5	56.00	8.00
5	57.00	8.00
5	58.00	7.00
5	59.00	6.00
5	60.00	5.00
5	61.00	5.00
5	62.00	4.00
5	63.00	3.00
5	64.00	2.00
5	65.00	2.00
5	66.00	1.00
5	67.00	1.00
5	68.00	1.00
5	69.00	1.00
5	70.00	1.00
5	71.00	1.00
5	199.00	1.00
5+	1.00	49.00
5+	2.00	48.00
5+	3.00	48.00
5+	4.00	47.00
5+	5.00	46.00
5+	6.00	45.00
5+	7.00	45.00
5+	8.00	44.00
5+	9.00	43.00
5+	10.00	42.00
5+	11.00	42.00
5+	12.00	41.00
5+	13.00	40.00
5+	14.00	39.00
5+	15.00	39.00
5+	16.00	38.00
5+	17.00	37.00
5+	18.00	36.00
5+	19.00	36.00
5+	20.00	35.00
5+	21.00	34.00
5+	22.00	33.00
5+	23.00	33.00
5+	24.00	32.00
5+	25.00	31.00
5+	26.00	31.00
5+	27.00	30.00
5+	28.00	29.00
5+	29.00	28.00
5+	30.00	28.00
5+	31.00	27.00
5+	32.00	26.00
5+	33.00	25.00
5+	34.00	25.00
5+	35.00	24.00
5+	36.00	23.00
5+	37.00	22.00
5+	38.00	22.00
5+	39.00	21.00
5+	40.00	20.00
5+	41.00	19.00
5+	42.00	19.00
5+	43.00	18.00
5+	44.00	17.00
5+	45.00	17.00
5+	46.00	16.00
5+	47.00	15.00
5+	48.00	14.00
5+	49.00	14.00
5+	50.00	13.00
5+	51.00	12.00
5+	52.00	11.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	11.00
5+	54.00	10.00
5+	55.00	9.00
5+	56.00	8.00
5+	57.00	8.00
5+	58.00	7.00
5+	59.00	6.00
5+	60.00	5.00
5+	61.00	5.00
5+	62.00	4.00
5+	63.00	3.00
5+	64.00	2.00
5+	65.00	2.00
5+	66.00	1.00
5+	67.00	1.00
5+	68.00	1.00
5+	69.00	1.00
5+	70.00	1.00
5+	71.00	1.00
5+	199.00	1.00
5-	1.00	49.00
5-	2.00	48.00
5-	3.00	48.00
5-	4.00	47.00
5-	5.00	46.00
5-	6.00	45.00
5-	7.00	45.00
5-	8.00	44.00
5-	9.00	43.00
5-	10.00	42.00
5-	11.00	42.00
5-	12.00	41.00
5-	13.00	40.00
5-	14.00	39.00
5-	15.00	39.00
5-	16.00	38.00
5-	17.00	37.00
5-	18.00	36.00
5-	19.00	36.00
5-	20.00	35.00
5-	21.00	34.00
5-	22.00	33.00
5-	23.00	33.00
5-	24.00	32.00
5-	25.00	31.00
5-	26.00	31.00
5-	27.00	30.00
5-	28.00	29.00
5-	29.00	28.00
5-	30.00	28.00
5-	31.00	27.00
5-	32.00	26.00
5-	33.00	25.00
5-	34.00	25.00
5-	35.00	24.00
5-	36.00	23.00
5-	37.00	22.00
5-	38.00	22.00
5-	39.00	21.00
5-	40.00	20.00
5-	41.00	19.00
5-	42.00	19.00
5-	43.00	18.00
5-	44.00	17.00
5-	45.00	17.00
5-	46.00	16.00
5-	47.00	15.00
5-	48.00	14.00
5-	49.00	14.00
5-	50.00	13.00
5-	51.00	12.00
5-	52.00	11.00
5-	53.00	11.00
5-	54.00	10.00
5-	55.00	9.00
5-	56.00	8.00
5-	57.00	8.00
5-	58.00	7.00
5-	59.00	6.00
5-	60.00	5.00
5-	61.00	5.00
5-	62.00	4.00
5-	63.00	3.00
5-	64.00	2.00
5-	65.00	2.00
5-	66.00	1.00
5-	67.00	1.00
5-	68.00	1.00
5-	69.00	1.00
5-	70.00	1.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	1.00
5-	199.00	1.00
6	1.00	49.00
6	2.00	48.00
6	3.00	48.00
6	4.00	47.00
6	5.00	46.00
6	6.00	46.00
6	7.00	45.00
6	8.00	44.00
6	9.00	44.00
6	10.00	43.00
6	11.00	42.00
6	12.00	41.00
6	13.00	41.00
6	14.00	40.00
6	15.00	39.00
6	16.00	39.00
6	17.00	38.00
6	18.00	37.00
6	19.00	37.00
6	20.00	36.00
6	21.00	35.00
6	22.00	35.00
6	23.00	34.00
6	24.00	33.00
6	25.00	33.00
6	26.00	32.00
6	27.00	31.00
6	28.00	30.00
6	29.00	30.00
6	30.00	29.00
6	31.00	28.00
6	32.00	28.00
6	33.00	27.00
6	34.00	26.00
6	35.00	26.00
6	36.00	25.00
6	37.00	24.00
6	38.00	24.00
6	39.00	23.00
6	40.00	22.00
6	41.00	22.00
6	42.00	21.00
6	43.00	20.00
6	44.00	20.00
6	45.00	19.00
6	46.00	18.00
6	47.00	17.00
6	48.00	17.00
6	49.00	16.00
6	50.00	15.00
6	51.00	15.00
6	52.00	14.00
6	53.00	13.00
6	54.00	13.00
6	55.00	12.00
6	56.00	11.00
6	57.00	11.00
6	58.00	10.00
6	59.00	9.00
6	60.00	9.00
6	61.00	8.00
6	62.00	7.00
6	63.00	6.00
6	64.00	6.00
6	65.00	5.00
6	66.00	4.00
6	67.00	4.00
6	68.00	3.00
6	69.00	2.00
6	70.00	2.00
6	71.00	1.00
6	199.00	1.00
6+	1.00	49.00
6+	2.00	48.00
6+	3.00	48.00
6+	4.00	47.00
6+	5.00	46.00
6+	6.00	46.00
6+	7.00	45.00
6+	8.00	44.00
6+	9.00	44.00
6+	10.00	43.00
6+	11.00	42.00
6+	12.00	41.00
6+	13.00	41.00
6+	14.00	40.00
6+	15.00	39.00
6+	16.00	39.00

Sched:

Matrix: DEPR UN X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	38.00
6+	18.00	37.00
6+	19.00	37.00
6+	20.00	36.00
6+	21.00	35.00
6+	22.00	35.00
6+	23.00	34.00
6+	24.00	33.00
6+	25.00	33.00
6+	26.00	32.00
6+	27.00	31.00
6+	28.00	30.00
6+	29.00	30.00
6+	30.00	29.00
6+	31.00	28.00
6+	32.00	28.00
6+	33.00	27.00
6+	34.00	26.00
6+	35.00	26.00
6+	36.00	25.00
6+	37.00	24.00
6+	38.00	24.00
6+	39.00	23.00
6+	40.00	22.00
6+	41.00	22.00
6+	42.00	21.00
6+	43.00	20.00
6+	44.00	20.00
6+	45.00	19.00
6+	46.00	18.00
6+	47.00	17.00
6+	48.00	17.00
6+	49.00	16.00
6+	50.00	15.00
6+	51.00	15.00
6+	52.00	14.00
6+	53.00	13.00
6+	54.00	13.00
6+	55.00	12.00
6+	56.00	11.00
6+	57.00	11.00
6+	58.00	10.00
6+	59.00	9.00
6+	60.00	9.00
6+	61.00	8.00
6+	62.00	7.00
6+	63.00	6.00
6+	64.00	6.00
6+	65.00	5.00
6+	66.00	4.00
6+	67.00	4.00
6+	68.00	3.00
6+	69.00	2.00
6+	70.00	2.00
6+	71.00	1.00
6+	199.00	1.00
6-	1.00	49.00
6-	2.00	48.00
6-	3.00	48.00
6-	4.00	47.00
6-	5.00	46.00
6-	6.00	46.00
6-	7.00	45.00
6-	8.00	44.00
6-	9.00	44.00
6-	10.00	43.00
6-	11.00	42.00
6-	12.00	41.00
6-	13.00	41.00
6-	14.00	40.00
6-	15.00	39.00
6-	16.00	39.00
6-	17.00	38.00
6-	18.00	37.00
6-	19.00	37.00
6-	20.00	36.00
6-	21.00	35.00
6-	22.00	35.00
6-	23.00	34.00
6-	24.00	33.00
6-	25.00	33.00
6-	26.00	32.00
6-	27.00	31.00
6-	28.00	30.00
6-	29.00	30.00
6-	30.00	29.00
6-	31.00	28.00
6-	32.00	28.00
6-	33.00	27.00
6-	34.00	26.00

Sched:			
Matrix:	DEPR UN	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	26.00
6-	36.00	25.00
6-	37.00	24.00
6-	38.00	24.00
6-	39.00	23.00
6-	40.00	22.00
6-	41.00	22.00
6-	42.00	21.00
6-	43.00	20.00
6-	44.00	20.00
6-	45.00	19.00
6-	46.00	18.00
6-	47.00	17.00
6-	48.00	17.00
6-	49.00	16.00
6-	50.00	15.00
6-	51.00	15.00
6-	52.00	14.00
6-	53.00	13.00
6-	54.00	13.00
6-	55.00	12.00
6-	56.00	11.00
6-	57.00	11.00
6-	58.00	10.00
6-	59.00	9.00
6-	60.00	9.00
6-	61.00	8.00
6-	62.00	7.00
6-	63.00	6.00
6-	64.00	6.00
6-	65.00	5.00
6-	66.00	4.00
6-	67.00	4.00
6-	68.00	3.00
6-	69.00	2.00
6-	70.00	2.00
6-	71.00	1.00
6-	199.00	1.00
7	1.00	49.00
7	2.00	48.00
7	3.00	48.00
7	4.00	47.00
7	5.00	46.00
7	6.00	46.00
7	7.00	45.00
7	8.00	44.00
7	9.00	44.00
7	10.00	43.00
7	11.00	42.00
7	12.00	41.00
7	13.00	41.00
7	14.00	40.00
7	15.00	39.00
7	16.00	39.00
7	17.00	38.00
7	18.00	37.00
7	19.00	37.00
7	20.00	36.00
7	21.00	35.00
7	22.00	35.00
7	23.00	34.00
7	24.00	33.00
7	25.00	33.00
7	26.00	32.00
7	27.00	31.00
7	28.00	30.00
7	29.00	30.00
7	30.00	29.00
7	31.00	28.00
7	32.00	28.00
7	33.00	27.00
7	34.00	26.00
7	35.00	26.00
7	36.00	25.00
7	37.00	24.00
7	38.00	24.00
7	39.00	23.00
7	40.00	22.00
7	41.00	22.00
7	42.00	21.00
7	43.00	20.00
7	44.00	20.00
7	45.00	19.00
7	46.00	18.00
7	47.00	17.00
7	48.00	17.00
7	49.00	16.00
7	50.00	15.00
7	51.00	15.00
7	52.00	14.00

Sched:			
Matrix:	DEPR UN	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	13.00
7	54.00	13.00
7	55.00	12.00
7	56.00	11.00
7	57.00	11.00
7	58.00	10.00
7	59.00	9.00
7	60.00	9.00
7	61.00	8.00
7	62.00	7.00
7	63.00	6.00
7	64.00	6.00
7	65.00	5.00
7	66.00	4.00
7	67.00	4.00
7	68.00	3.00
7	69.00	2.00
7	70.00	2.00
7	71.00	1.00
7	199.00	1.00
7+	1.00	49.00
7+	2.00	48.00
7+	3.00	48.00
7+	4.00	47.00
7+	5.00	46.00
7+	6.00	46.00
7+	7.00	45.00
7+	8.00	44.00
7+	9.00	44.00
7+	10.00	43.00
7+	11.00	42.00
7+	12.00	41.00
7+	13.00	41.00
7+	14.00	40.00
7+	15.00	39.00
7+	16.00	39.00
7+	17.00	38.00
7+	18.00	37.00
7+	19.00	37.00
7+	20.00	36.00
7+	21.00	35.00
7+	22.00	35.00
7+	23.00	34.00
7+	24.00	33.00
7+	25.00	33.00
7+	26.00	32.00
7+	27.00	31.00
7+	28.00	30.00
7+	29.00	30.00
7+	30.00	29.00
7+	31.00	28.00
7+	32.00	28.00
7+	33.00	27.00
7+	34.00	26.00
7+	35.00	26.00
7+	36.00	25.00
7+	37.00	24.00
7+	38.00	24.00
7+	39.00	23.00
7+	40.00	22.00
7+	41.00	22.00
7+	42.00	21.00
7+	43.00	20.00
7+	44.00	20.00
7+	45.00	19.00
7+	46.00	18.00
7+	47.00	17.00
7+	48.00	17.00
7+	49.00	16.00
7+	50.00	15.00
7+	51.00	15.00
7+	52.00	14.00
7+	53.00	13.00
7+	54.00	13.00
7+	55.00	12.00
7+	56.00	11.00
7+	57.00	11.00
7+	58.00	10.00
7+	59.00	9.00
7+	60.00	9.00
7+	61.00	8.00
7+	62.00	7.00
7+	63.00	6.00
7+	64.00	6.00
7+	65.00	5.00
7+	66.00	4.00
7+	67.00	4.00
7+	68.00	3.00
7+	69.00	2.00
7+	70.00	2.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	1.00
7+	199.00	1.00
7-	1.00	49.00
7-	2.00	48.00
7-	3.00	48.00
7-	4.00	47.00
7-	5.00	46.00
7-	6.00	46.00
7-	7.00	45.00
7-	8.00	44.00
7-	9.00	44.00
7-	10.00	43.00
7-	11.00	42.00
7-	12.00	41.00
7-	13.00	41.00
7-	14.00	40.00
7-	15.00	39.00
7-	16.00	39.00
7-	17.00	38.00
7-	18.00	37.00
7-	19.00	37.00
7-	20.00	36.00
7-	21.00	35.00
7-	22.00	35.00
7-	23.00	34.00
7-	24.00	33.00
7-	25.00	33.00
7-	26.00	32.00
7-	27.00	31.00
7-	28.00	30.00
7-	29.00	30.00
7-	30.00	29.00
7-	31.00	28.00
7-	32.00	28.00
7-	33.00	27.00
7-	34.00	26.00
7-	35.00	26.00
7-	36.00	25.00
7-	37.00	24.00
7-	38.00	24.00
7-	39.00	23.00
7-	40.00	22.00
7-	41.00	22.00
7-	42.00	21.00
7-	43.00	20.00
7-	44.00	20.00
7-	45.00	19.00
7-	46.00	18.00
7-	47.00	17.00
7-	48.00	17.00
7-	49.00	16.00
7-	50.00	15.00
7-	51.00	15.00
7-	52.00	14.00
7-	53.00	13.00
7-	54.00	13.00
7-	55.00	12.00
7-	56.00	11.00
7-	57.00	11.00
7-	58.00	10.00
7-	59.00	9.00
7-	60.00	9.00
7-	61.00	8.00
7-	62.00	7.00
7-	63.00	6.00
7-	64.00	6.00
7-	65.00	5.00
7-	66.00	4.00
7-	67.00	4.00
7-	68.00	3.00
7-	69.00	2.00
7-	70.00	2.00
7-	71.00	1.00
7-	199.00	1.00
8	1.00	49.00
8	2.00	48.00
8	3.00	48.00
8	4.00	47.00
8	5.00	46.00
8	6.00	46.00
8	7.00	45.00
8	8.00	44.00
8	9.00	44.00
8	10.00	43.00
8	11.00	42.00
8	12.00	41.00
8	13.00	41.00
8	14.00	40.00
8	15.00	39.00
8	16.00	39.00

Sched:			
Matrix:	DEPR UN	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	38.00
8	18.00	37.00
8	19.00	37.00
8	20.00	36.00
8	21.00	35.00
8	22.00	35.00
8	23.00	34.00
8	24.00	33.00
8	25.00	33.00
8	26.00	32.00
8	27.00	31.00
8	28.00	30.00
8	29.00	30.00
8	30.00	29.00
8	31.00	28.00
8	32.00	28.00
8	33.00	27.00
8	34.00	26.00
8	35.00	26.00
8	36.00	25.00
8	37.00	24.00
8	38.00	24.00
8	39.00	23.00
8	40.00	22.00
8	41.00	22.00
8	42.00	21.00
8	43.00	20.00
8	44.00	20.00
8	45.00	19.00
8	46.00	18.00
8	47.00	17.00
8	48.00	17.00
8	49.00	16.00
8	50.00	15.00
8	51.00	15.00
8	52.00	14.00
8	53.00	13.00
8	54.00	13.00
8	55.00	12.00
8	56.00	11.00
8	57.00	11.00
8	58.00	10.00
8	59.00	9.00
8	60.00	9.00
8	61.00	8.00
8	62.00	7.00
8	63.00	6.00
8	64.00	6.00
8	65.00	5.00
8	66.00	4.00
8	67.00	4.00
8	68.00	3.00
8	69.00	2.00
8	70.00	2.00
8	71.00	1.00
8	199.00	1.00
8+	1.00	49.00
8+	2.00	48.00
8+	3.00	48.00
8+	4.00	47.00
8+	5.00	46.00
8+	6.00	46.00
8+	7.00	45.00
8+	8.00	44.00
8+	9.00	44.00
8+	10.00	43.00
8+	11.00	42.00
8+	12.00	41.00
8+	13.00	41.00
8+	14.00	40.00
8+	15.00	39.00
8+	16.00	39.00
8+	17.00	38.00
8+	18.00	37.00
8+	19.00	37.00
8+	20.00	36.00
8+	21.00	35.00
8+	22.00	35.00
8+	23.00	34.00
8+	24.00	33.00
8+	25.00	33.00
8+	26.00	32.00
8+	27.00	31.00
8+	28.00	30.00
8+	29.00	30.00
8+	30.00	29.00
8+	31.00	28.00
8+	32.00	28.00
8+	33.00	27.00
8+	34.00	26.00

Sched: Matrix: DEPR UN X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	26.00
8+	36.00	25.00
8+	37.00	24.00
8+	38.00	24.00
8+	39.00	23.00
8+	40.00	22.00
8+	41.00	22.00
8+	42.00	21.00
8+	43.00	20.00
8+	44.00	20.00
8+	45.00	19.00
8+	46.00	18.00
8+	47.00	17.00
8+	48.00	17.00
8+	49.00	16.00
8+	50.00	15.00
8+	51.00	15.00
8+	52.00	14.00
8+	53.00	13.00
8+	54.00	13.00
8+	55.00	12.00
8+	56.00	11.00
8+	57.00	11.00
8+	58.00	10.00
8+	59.00	9.00
8+	60.00	9.00
8+	61.00	8.00
8+	62.00	7.00
8+	63.00	6.00
8+	64.00	6.00
8+	65.00	5.00
8+	66.00	4.00
8+	67.00	4.00
8+	68.00	3.00
8+	69.00	2.00
8+	70.00	2.00
8+	71.00	1.00
8+	199.00	1.00
8-	1.00	49.00
8-	2.00	48.00
8-	3.00	48.00
8-	4.00	47.00
8-	5.00	46.00
8-	6.00	46.00
8-	7.00	45.00
8-	8.00	44.00
8-	9.00	44.00
8-	10.00	43.00
8-	11.00	42.00
8-	12.00	41.00
8-	13.00	41.00
8-	14.00	40.00
8-	15.00	39.00
8-	16.00	39.00
8-	17.00	38.00
8-	18.00	37.00
8-	19.00	37.00
8-	20.00	36.00
8-	21.00	35.00
8-	22.00	35.00
8-	23.00	34.00
8-	24.00	33.00
8-	25.00	33.00
8-	26.00	32.00
8-	27.00	31.00
8-	28.00	30.00
8-	29.00	30.00
8-	30.00	29.00
8-	31.00	28.00
8-	32.00	28.00
8-	33.00	27.00
8-	34.00	26.00
8-	35.00	26.00
8-	36.00	25.00
8-	37.00	24.00
8-	38.00	24.00
8-	39.00	23.00
8-	40.00	22.00
8-	41.00	22.00
8-	42.00	21.00
8-	43.00	20.00
8-	44.00	20.00
8-	45.00	19.00
8-	46.00	18.00
8-	47.00	17.00
8-	48.00	17.00
8-	49.00	16.00
8-	50.00	15.00
8-	51.00	15.00
8-	52.00	14.00

Sched:
Matrix: DEPR UN
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	13.00
8-	54.00	13.00
8-	55.00	12.00
8-	56.00	11.00
8-	57.00	11.00
8-	58.00	10.00
8-	59.00	9.00
8-	60.00	9.00
8-	61.00	8.00
8-	62.00	7.00
8-	63.00	6.00
8-	64.00	6.00
8-	65.00	5.00
8-	66.00	4.00
8-	67.00	4.00
8-	68.00	3.00
8-	69.00	2.00
8-	70.00	2.00
8-	71.00	1.00
8-	199.00	1.00

Matrix Schedule

Sched:

Matrix: DEPR VP

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	69.00
1	2.00	68.00
1	3.00	67.00
1	4.00	66.00
1	5.00	65.00
1	6.00	64.00
1	7.00	63.00
1	8.00	62.00
1	9.00	61.00
1	10.00	60.00
1	11.00	59.00
1	12.00	58.00
1	13.00	57.00
1	14.00	57.00
1	15.00	56.00
1	16.00	55.00
1	17.00	54.00
1	18.00	53.00
1	19.00	52.00
1	20.00	51.00
1	21.00	50.00
1	22.00	49.00
1	23.00	48.00
1	24.00	47.00
1	25.00	46.00
1	26.00	45.00
1	27.00	44.00
1	28.00	43.00
1	29.00	42.00
1	30.00	41.00
1	31.00	40.00
1	32.00	39.00
1	33.00	38.00
1	34.00	37.00
1	35.00	36.00
1	36.00	35.00
1	37.00	34.00
1	38.00	33.00
1	39.00	33.00
1	40.00	32.00
1	41.00	31.00
1	42.00	30.00
1	43.00	29.00
1	44.00	28.00
1	45.00	27.00
1	46.00	26.00
1	47.00	25.00
1	48.00	24.00
1	49.00	23.00
1	50.00	22.00
1	51.00	21.00
1	52.00	21.00
1	53.00	21.00
1	54.00	21.00
1	55.00	21.00
1	56.00	21.00
1	57.00	21.00
1	58.00	21.00
1	59.00	21.00
1	60.00	21.00
1	61.00	21.00
1	62.00	21.00
1	63.00	21.00
1	64.00	21.00
1	65.00	21.00
1	66.00	21.00
1	67.00	21.00
1	68.00	21.00
1	69.00	21.00
1	70.00	21.00
1	71.00	21.00
1	199.00	21.00
1+	1.00	69.00
1+	2.00	68.00
1+	3.00	67.00
1+	4.00	66.00
1+	5.00	65.00
1+	6.00	64.00
1+	7.00	63.00
1+	8.00	62.00
1+	9.00	61.00
1+	10.00	60.00
1+	11.00	59.00
1+	12.00	58.00
1+	13.00	57.00
1+	14.00	57.00
1+	15.00	56.00
1+	16.00	55.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	54.00
1+	18.00	53.00
1+	19.00	52.00
1+	20.00	51.00
1+	21.00	50.00
1+	22.00	49.00
1+	23.00	48.00
1+	24.00	47.00
1+	25.00	46.00
1+	26.00	45.00
1+	27.00	44.00
1+	28.00	43.00
1+	29.00	42.00
1+	30.00	41.00
1+	31.00	40.00
1+	32.00	39.00
1+	33.00	38.00
1+	34.00	37.00
1+	35.00	36.00
1+	36.00	35.00
1+	37.00	34.00
1+	38.00	33.00
1+	39.00	33.00
1+	40.00	32.00
1+	41.00	31.00
1+	42.00	30.00
1+	43.00	29.00
1+	44.00	28.00
1+	45.00	27.00
1+	46.00	26.00
1+	47.00	25.00
1+	48.00	24.00
1+	49.00	23.00
1+	50.00	22.00
1+	51.00	21.00
1+	52.00	21.00
1+	53.00	21.00
1+	54.00	21.00
1+	55.00	21.00
1+	56.00	21.00
1+	57.00	21.00
1+	58.00	21.00
1+	59.00	21.00
1+	60.00	21.00
1+	61.00	21.00
1+	62.00	21.00
1+	63.00	21.00
1+	64.00	21.00
1+	65.00	21.00
1+	66.00	21.00
1+	67.00	21.00
1+	68.00	21.00
1+	69.00	21.00
1+	70.00	21.00
1+	71.00	21.00
1+	199.00	21.00
1-	1.00	69.00
1-	2.00	68.00
1-	3.00	67.00
1-	4.00	66.00
1-	5.00	65.00
1-	6.00	64.00
1-	7.00	63.00
1-	8.00	62.00
1-	9.00	61.00
1-	10.00	60.00
1-	11.00	59.00
1-	12.00	58.00
1-	13.00	57.00
1-	14.00	57.00
1-	15.00	56.00
1-	16.00	55.00
1-	17.00	54.00
1-	18.00	53.00
1-	19.00	52.00
1-	20.00	51.00
1-	21.00	50.00
1-	22.00	49.00
1-	23.00	48.00
1-	24.00	47.00
1-	25.00	46.00
1-	26.00	45.00
1-	27.00	44.00
1-	28.00	43.00
1-	29.00	42.00
1-	30.00	41.00
1-	31.00	40.00
1-	32.00	39.00
1-	33.00	38.00
1-	34.00	37.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	36.00
1-	36.00	35.00
1-	37.00	34.00
1-	38.00	33.00
1-	39.00	33.00
1-	40.00	32.00
1-	41.00	31.00
1-	42.00	30.00
1-	43.00	29.00
1-	44.00	28.00
1-	45.00	27.00
1-	46.00	26.00
1-	47.00	25.00
1-	48.00	24.00
1-	49.00	23.00
1-	50.00	22.00
1-	51.00	21.00
1-	52.00	21.00
1-	53.00	21.00
1-	54.00	21.00
1-	55.00	21.00
1-	56.00	21.00
1-	57.00	21.00
1-	58.00	21.00
1-	59.00	21.00
1-	60.00	21.00
1-	61.00	21.00
1-	62.00	21.00
1-	63.00	21.00
1-	64.00	21.00
1-	65.00	21.00
1-	66.00	21.00
1-	67.00	21.00
1-	68.00	21.00
1-	69.00	21.00
1-	70.00	21.00
1-	71.00	21.00
1-	199.00	21.00
2	1.00	69.00
2	2.00	68.00
2	3.00	67.00
2	4.00	66.00
2	5.00	65.00
2	6.00	64.00
2	7.00	63.00
2	8.00	62.00
2	9.00	61.00
2	10.00	60.00
2	11.00	59.00
2	12.00	58.00
2	13.00	57.00
2	14.00	57.00
2	15.00	56.00
2	16.00	55.00
2	17.00	54.00
2	18.00	53.00
2	19.00	52.00
2	20.00	51.00
2	21.00	50.00
2	22.00	49.00
2	23.00	48.00
2	24.00	47.00
2	25.00	46.00
2	26.00	45.00
2	27.00	44.00
2	28.00	43.00
2	29.00	42.00
2	30.00	41.00
2	31.00	40.00
2	32.00	39.00
2	33.00	38.00
2	34.00	37.00
2	35.00	36.00
2	36.00	35.00
2	37.00	34.00
2	38.00	33.00
2	39.00	33.00
2	40.00	32.00
2	41.00	31.00
2	42.00	30.00
2	43.00	29.00
2	44.00	28.00
2	45.00	27.00
2	46.00	26.00
2	47.00	25.00
2	48.00	24.00
2	49.00	23.00
2	50.00	22.00
2	51.00	21.00
2	52.00	21.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	21.00
2	54.00	21.00
2	55.00	21.00
2	56.00	21.00
2	57.00	21.00
2	58.00	21.00
2	59.00	21.00
2	60.00	21.00
2	61.00	21.00
2	62.00	21.00
2	63.00	21.00
2	64.00	21.00
2	65.00	21.00
2	66.00	21.00
2	67.00	21.00
2	68.00	21.00
2	69.00	21.00
2	70.00	21.00
2	71.00	21.00
2	199.00	21.00
2+	1.00	69.00
2+	2.00	68.00
2+	3.00	67.00
2+	4.00	66.00
2+	5.00	65.00
2+	6.00	64.00
2+	7.00	63.00
2+	8.00	62.00
2+	9.00	61.00
2+	10.00	60.00
2+	11.00	59.00
2+	12.00	58.00
2+	13.00	57.00
2+	14.00	57.00
2+	15.00	56.00
2+	16.00	55.00
2+	17.00	54.00
2+	18.00	53.00
2+	19.00	52.00
2+	20.00	51.00
2+	21.00	50.00
2+	22.00	49.00
2+	23.00	48.00
2+	24.00	47.00
2+	25.00	46.00
2+	26.00	45.00
2+	27.00	44.00
2+	28.00	43.00
2+	29.00	42.00
2+	30.00	41.00
2+	31.00	40.00
2+	32.00	39.00
2+	33.00	38.00
2+	34.00	37.00
2+	35.00	36.00
2+	36.00	35.00
2+	37.00	34.00
2+	38.00	33.00
2+	39.00	33.00
2+	40.00	32.00
2+	41.00	31.00
2+	42.00	30.00
2+	43.00	29.00
2+	44.00	28.00
2+	45.00	27.00
2+	46.00	26.00
2+	47.00	25.00
2+	48.00	24.00
2+	49.00	23.00
2+	50.00	22.00
2+	51.00	21.00
2+	52.00	21.00
2+	53.00	21.00
2+	54.00	21.00
2+	55.00	21.00
2+	56.00	21.00
2+	57.00	21.00
2+	58.00	21.00
2+	59.00	21.00
2+	60.00	21.00
2+	61.00	21.00
2+	62.00	21.00
2+	63.00	21.00
2+	64.00	21.00
2+	65.00	21.00
2+	66.00	21.00
2+	67.00	21.00
2+	68.00	21.00
2+	69.00	21.00
2+	70.00	21.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	21.00
2+	199.00	21.00
2-	1.00	69.00
2-	2.00	68.00
2-	3.00	67.00
2-	4.00	66.00
2-	5.00	65.00
2-	6.00	64.00
2-	7.00	63.00
2-	8.00	62.00
2-	9.00	61.00
2-	10.00	60.00
2-	11.00	59.00
2-	12.00	58.00
2-	13.00	57.00
2-	14.00	57.00
2-	15.00	56.00
2-	16.00	55.00
2-	17.00	54.00
2-	18.00	53.00
2-	19.00	52.00
2-	20.00	51.00
2-	21.00	50.00
2-	22.00	49.00
2-	23.00	48.00
2-	24.00	47.00
2-	25.00	46.00
2-	26.00	45.00
2-	27.00	44.00
2-	28.00	43.00
2-	29.00	42.00
2-	30.00	41.00
2-	31.00	40.00
2-	32.00	39.00
2-	33.00	38.00
2-	34.00	37.00
2-	35.00	36.00
2-	36.00	35.00
2-	37.00	34.00
2-	38.00	33.00
2-	39.00	33.00
2-	40.00	32.00
2-	41.00	31.00
2-	42.00	30.00
2-	43.00	29.00
2-	44.00	28.00
2-	45.00	27.00
2-	46.00	26.00
2-	47.00	25.00
2-	48.00	24.00
2-	49.00	23.00
2-	50.00	22.00
2-	51.00	21.00
2-	52.00	21.00
2-	53.00	21.00
2-	54.00	21.00
2-	55.00	21.00
2-	56.00	21.00
2-	57.00	21.00
2-	58.00	21.00
2-	59.00	21.00
2-	60.00	21.00
2-	61.00	21.00
2-	62.00	21.00
2-	63.00	21.00
2-	64.00	21.00
2-	65.00	21.00
2-	66.00	21.00
2-	67.00	21.00
2-	68.00	21.00
2-	69.00	21.00
2-	70.00	21.00
2-	71.00	21.00
2-	199.00	21.00
3	1.00	69.00
3	2.00	68.00
3	3.00	67.00
3	4.00	66.00
3	5.00	66.00
3	6.00	65.00
3	7.00	64.00
3	8.00	63.00
3	9.00	62.00
3	10.00	61.00
3	11.00	60.00
3	12.00	59.00
3	13.00	59.00
3	14.00	58.00
3	15.00	57.00
3	16.00	56.00

Sched: Matrix: DEPR VP X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	55.00
3	18.00	54.00
3	19.00	53.00
3	20.00	52.00
3	21.00	52.00
3	22.00	51.00
3	23.00	50.00
3	24.00	49.00
3	25.00	48.00
3	26.00	47.00
3	27.00	46.00
3	28.00	45.00
3	29.00	45.00
3	30.00	44.00
3	31.00	43.00
3	32.00	42.00
3	33.00	41.00
3	34.00	40.00
3	35.00	39.00
3	36.00	38.00
3	37.00	38.00
3	38.00	37.00
3	39.00	36.00
3	40.00	35.00
3	41.00	34.00
3	42.00	33.00
3	43.00	32.00
3	44.00	31.00
3	45.00	31.00
3	46.00	30.00
3	47.00	29.00
3	48.00	28.00
3	49.00	27.00
3	50.00	26.00
3	51.00	25.00
3	52.00	24.00
3	53.00	24.00
3	54.00	23.00
3	55.00	22.00
3	56.00	21.00
3	57.00	21.00
3	58.00	21.00
3	59.00	21.00
3	60.00	21.00
3	61.00	21.00
3	62.00	21.00
3	63.00	21.00
3	64.00	21.00
3	65.00	21.00
3	66.00	21.00
3	67.00	21.00
3	68.00	21.00
3	69.00	21.00
3	70.00	21.00
3	71.00	21.00
3	199.00	21.00
3+	1.00	69.00
3+	2.00	68.00
3+	3.00	67.00
3+	4.00	66.00
3+	5.00	66.00
3+	6.00	65.00
3+	7.00	64.00
3+	8.00	63.00
3+	9.00	62.00
3+	10.00	61.00
3+	11.00	60.00
3+	12.00	59.00
3+	13.00	59.00
3+	14.00	58.00
3+	15.00	57.00
3+	16.00	56.00
3+	17.00	55.00
3+	18.00	54.00
3+	19.00	53.00
3+	20.00	52.00
3+	21.00	52.00
3+	22.00	51.00
3+	23.00	50.00
3+	24.00	49.00
3+	25.00	48.00
3+	26.00	47.00
3+	27.00	46.00
3+	28.00	45.00
3+	29.00	45.00
3+	30.00	44.00
3+	31.00	43.00
3+	32.00	42.00
3+	33.00	41.00
3+	34.00	40.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	39.00
3+	36.00	38.00
3+	37.00	38.00
3+	38.00	37.00
3+	39.00	36.00
3+	40.00	35.00
3+	41.00	34.00
3+	42.00	33.00
3+	43.00	32.00
3+	44.00	31.00
3+	45.00	31.00
3+	46.00	30.00
3+	47.00	29.00
3+	48.00	28.00
3+	49.00	27.00
3+	50.00	26.00
3+	51.00	25.00
3+	52.00	24.00
3+	53.00	24.00
3+	54.00	23.00
3+	55.00	22.00
3+	56.00	21.00
3+	57.00	21.00
3+	58.00	21.00
3+	59.00	21.00
3+	60.00	21.00
3+	61.00	21.00
3+	62.00	21.00
3+	63.00	21.00
3+	64.00	21.00
3+	65.00	21.00
3+	66.00	21.00
3+	67.00	21.00
3+	68.00	21.00
3+	69.00	21.00
3+	70.00	21.00
3+	71.00	21.00
3+	199.00	21.00
3-	1.00	69.00
3-	2.00	68.00
3-	3.00	67.00
3-	4.00	66.00
3-	5.00	66.00
3-	6.00	65.00
3-	7.00	64.00
3-	8.00	63.00
3-	9.00	62.00
3-	10.00	61.00
3-	11.00	60.00
3-	12.00	59.00
3-	13.00	59.00
3-	14.00	58.00
3-	15.00	57.00
3-	16.00	56.00
3-	17.00	55.00
3-	18.00	54.00
3-	19.00	53.00
3-	20.00	52.00
3-	21.00	52.00
3-	22.00	51.00
3-	23.00	50.00
3-	24.00	49.00
3-	25.00	48.00
3-	26.00	47.00
3-	27.00	46.00
3-	28.00	45.00
3-	29.00	45.00
3-	30.00	44.00
3-	31.00	43.00
3-	32.00	42.00
3-	33.00	41.00
3-	34.00	40.00
3-	35.00	39.00
3-	36.00	38.00
3-	37.00	38.00
3-	38.00	37.00
3-	39.00	36.00
3-	40.00	35.00
3-	41.00	34.00
3-	42.00	33.00
3-	43.00	32.00
3-	44.00	31.00
3-	45.00	31.00
3-	46.00	30.00
3-	47.00	29.00
3-	48.00	28.00
3-	49.00	27.00
3-	50.00	26.00
3-	51.00	25.00
3-	52.00	24.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	24.00
3-	54.00	23.00
3-	55.00	22.00
3-	56.00	21.00
3-	57.00	21.00
3-	58.00	21.00
3-	59.00	21.00
3-	60.00	21.00
3-	61.00	21.00
3-	62.00	21.00
3-	63.00	21.00
3-	64.00	21.00
3-	65.00	21.00
3-	66.00	21.00
3-	67.00	21.00
3-	68.00	21.00
3-	69.00	21.00
3-	70.00	21.00
3-	71.00	21.00
3-	199.00	21.00
4	1.00	69.00
4	2.00	68.00
4	3.00	67.00
4	4.00	67.00
4	5.00	66.00
4	6.00	65.00
4	7.00	64.00
4	8.00	63.00
4	9.00	63.00
4	10.00	62.00
4	11.00	61.00
4	12.00	60.00
4	13.00	59.00
4	14.00	59.00
4	15.00	58.00
4	16.00	57.00
4	17.00	56.00
4	18.00	55.00
4	19.00	55.00
4	20.00	54.00
4	21.00	53.00
4	22.00	52.00
4	23.00	51.00
4	24.00	51.00
4	25.00	50.00
4	26.00	49.00
4	27.00	48.00
4	28.00	47.00
4	29.00	47.00
4	30.00	46.00
4	31.00	45.00
4	32.00	44.00
4	33.00	43.00
4	34.00	43.00
4	35.00	42.00
4	36.00	41.00
4	37.00	40.00
4	38.00	39.00
4	39.00	39.00
4	40.00	38.00
4	41.00	37.00
4	42.00	36.00
4	43.00	35.00
4	44.00	35.00
4	45.00	34.00
4	46.00	33.00
4	47.00	32.00
4	48.00	31.00
4	49.00	31.00
4	50.00	30.00
4	51.00	29.00
4	52.00	28.00
4	53.00	27.00
4	54.00	27.00
4	55.00	26.00
4	56.00	25.00
4	57.00	24.00
4	58.00	23.00
4	59.00	23.00
4	60.00	22.00
4	61.00	21.00
4	62.00	21.00
4	63.00	21.00
4	64.00	21.00
4	65.00	21.00
4	66.00	21.00
4	67.00	21.00
4	68.00	21.00
4	69.00	21.00
4	70.00	21.00

Sched:
Matrix: DEPR VP X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	21.00
4	199.00	21.00
4+	1.00	69.00
4+	2.00	68.00
4+	3.00	67.00
4+	4.00	67.00
4+	5.00	66.00
4+	6.00	65.00
4+	7.00	64.00
4+	8.00	63.00
4+	9.00	63.00
4+	10.00	62.00
4+	11.00	61.00
4+	12.00	60.00
4+	13.00	59.00
4+	14.00	59.00
4+	15.00	58.00
4+	16.00	57.00
4+	17.00	56.00
4+	18.00	55.00
4+	19.00	55.00
4+	20.00	54.00
4+	21.00	53.00
4+	22.00	52.00
4+	23.00	51.00
4+	24.00	51.00
4+	25.00	50.00
4+	26.00	49.00
4+	27.00	48.00
4+	28.00	47.00
4+	29.00	47.00
4+	30.00	46.00
4+	31.00	45.00
4+	32.00	44.00
4+	33.00	43.00
4+	34.00	43.00
4+	35.00	42.00
4+	36.00	41.00
4+	37.00	40.00
4+	38.00	39.00
4+	39.00	39.00
4+	40.00	38.00
4+	41.00	37.00
4+	42.00	36.00
4+	43.00	35.00
4+	44.00	35.00
4+	45.00	34.00
4+	46.00	33.00
4+	47.00	32.00
4+	48.00	31.00
4+	49.00	31.00
4+	50.00	30.00
4+	51.00	29.00
4+	52.00	28.00
4+	53.00	27.00
4+	54.00	27.00
4+	55.00	26.00
4+	56.00	25.00
4+	57.00	24.00
4+	58.00	23.00
4+	59.00	23.00
4+	60.00	22.00
4+	61.00	21.00
4+	62.00	21.00
4+	63.00	21.00
4+	64.00	21.00
4+	65.00	21.00
4+	66.00	21.00
4+	67.00	21.00
4+	68.00	21.00
4+	69.00	21.00
4+	70.00	21.00
4+	71.00	21.00
4+	199.00	21.00
4-	1.00	69.00
4-	2.00	68.00
4-	3.00	67.00
4-	4.00	67.00
4-	5.00	66.00
4-	6.00	65.00
4-	7.00	64.00
4-	8.00	63.00
4-	9.00	63.00
4-	10.00	62.00
4-	11.00	61.00
4-	12.00	60.00
4-	13.00	59.00
4-	14.00	59.00
4-	15.00	58.00
4-	16.00	57.00

Sched:
Matrix: DEPR VP X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	56.00
4-	18.00	55.00
4-	19.00	55.00
4-	20.00	54.00
4-	21.00	53.00
4-	22.00	52.00
4-	23.00	51.00
4-	24.00	51.00
4-	25.00	50.00
4-	26.00	49.00
4-	27.00	48.00
4-	28.00	47.00
4-	29.00	47.00
4-	30.00	46.00
4-	31.00	45.00
4-	32.00	44.00
4-	33.00	43.00
4-	34.00	43.00
4-	35.00	42.00
4-	36.00	41.00
4-	37.00	40.00
4-	38.00	39.00
4-	39.00	39.00
4-	40.00	38.00
4-	41.00	37.00
4-	42.00	36.00
4-	43.00	35.00
4-	44.00	35.00
4-	45.00	34.00
4-	46.00	33.00
4-	47.00	32.00
4-	48.00	31.00
4-	49.00	31.00
4-	50.00	30.00
4-	51.00	29.00
4-	52.00	28.00
4-	53.00	27.00
4-	54.00	27.00
4-	55.00	26.00
4-	56.00	25.00
4-	57.00	24.00
4-	58.00	23.00
4-	59.00	23.00
4-	60.00	22.00
4-	61.00	21.00
4-	62.00	21.00
4-	63.00	21.00
4-	64.00	21.00
4-	65.00	21.00
4-	66.00	21.00
4-	67.00	21.00
4-	68.00	21.00
4-	69.00	21.00
4-	70.00	21.00
4-	71.00	21.00
4-	199.00	21.00
5	1.00	69.00
5	2.00	68.00
5	3.00	68.00
5	4.00	67.00
5	5.00	66.00
5	6.00	65.00
5	7.00	65.00
5	8.00	64.00
5	9.00	63.00
5	10.00	62.00
5	11.00	62.00
5	12.00	61.00
5	13.00	60.00
5	14.00	59.00
5	15.00	59.00
5	16.00	58.00
5	17.00	57.00
5	18.00	56.00
5	19.00	56.00
5	20.00	55.00
5	21.00	54.00
5	22.00	53.00
5	23.00	53.00
5	24.00	52.00
5	25.00	51.00
5	26.00	51.00
5	27.00	50.00
5	28.00	49.00
5	29.00	48.00
5	30.00	48.00
5	31.00	47.00
5	32.00	46.00
5	33.00	45.00
5	34.00	45.00

Sched: Matrix: DEPR VP X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	44.00
5	36.00	43.00
5	37.00	42.00
5	38.00	42.00
5	39.00	41.00
5	40.00	40.00
5	41.00	39.00
5	42.00	39.00
5	43.00	38.00
5	44.00	37.00
5	45.00	37.00
5	46.00	36.00
5	47.00	35.00
5	48.00	34.00
5	49.00	34.00
5	50.00	33.00
5	51.00	32.00
5	52.00	31.00
5	53.00	31.00
5	54.00	30.00
5	55.00	29.00
5	56.00	28.00
5	57.00	28.00
5	58.00	27.00
5	59.00	26.00
5	60.00	25.00
5	61.00	25.00
5	62.00	24.00
5	63.00	23.00
5	64.00	22.00
5	65.00	22.00
5	66.00	21.00
5	67.00	21.00
5	68.00	21.00
5	69.00	21.00
5	70.00	21.00
5	71.00	21.00
5	199.00	21.00
5+	1.00	69.00
5+	2.00	68.00
5+	3.00	68.00
5+	4.00	67.00
5+	5.00	66.00
5+	6.00	65.00
5+	7.00	65.00
5+	8.00	64.00
5+	9.00	63.00
5+	10.00	62.00
5+	11.00	62.00
5+	12.00	61.00
5+	13.00	60.00
5+	14.00	59.00
5+	15.00	59.00
5+	16.00	58.00
5+	17.00	57.00
5+	18.00	56.00
5+	19.00	56.00
5+	20.00	55.00
5+	21.00	54.00
5+	22.00	53.00
5+	23.00	53.00
5+	24.00	52.00
5+	25.00	51.00
5+	26.00	51.00
5+	27.00	50.00
5+	28.00	49.00
5+	29.00	48.00
5+	30.00	48.00
5+	31.00	47.00
5+	32.00	46.00
5+	33.00	45.00
5+	34.00	45.00
5+	35.00	44.00
5+	36.00	43.00
5+	37.00	42.00
5+	38.00	42.00
5+	39.00	41.00
5+	40.00	40.00
5+	41.00	39.00
5+	42.00	39.00
5+	43.00	38.00
5+	44.00	37.00
5+	45.00	37.00
5+	46.00	36.00
5+	47.00	35.00
5+	48.00	34.00
5+	49.00	34.00
5+	50.00	33.00
5+	51.00	32.00
5+	52.00	31.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	31.00
5+	54.00	30.00
5+	55.00	29.00
5+	56.00	28.00
5+	57.00	28.00
5+	58.00	27.00
5+	59.00	26.00
5+	60.00	25.00
5+	61.00	25.00
5+	62.00	24.00
5+	63.00	23.00
5+	64.00	22.00
5+	65.00	22.00
5+	66.00	21.00
5+	67.00	21.00
5+	68.00	21.00
5+	69.00	21.00
5+	70.00	21.00
5+	71.00	21.00
5+	199.00	21.00
5-	1.00	69.00
5-	2.00	68.00
5-	3.00	68.00
5-	4.00	67.00
5-	5.00	66.00
5-	6.00	65.00
5-	7.00	65.00
5-	8.00	64.00
5-	9.00	63.00
5-	10.00	62.00
5-	11.00	62.00
5-	12.00	61.00
5-	13.00	60.00
5-	14.00	59.00
5-	15.00	59.00
5-	16.00	58.00
5-	17.00	57.00
5-	18.00	56.00
5-	19.00	56.00
5-	20.00	55.00
5-	21.00	54.00
5-	22.00	53.00
5-	23.00	53.00
5-	24.00	52.00
5-	25.00	51.00
5-	26.00	51.00
5-	27.00	50.00
5-	28.00	49.00
5-	29.00	48.00
5-	30.00	48.00
5-	31.00	47.00
5-	32.00	46.00
5-	33.00	45.00
5-	34.00	45.00
5-	35.00	44.00
5-	36.00	43.00
5-	37.00	42.00
5-	38.00	42.00
5-	39.00	41.00
5-	40.00	40.00
5-	41.00	39.00
5-	42.00	39.00
5-	43.00	38.00
5-	44.00	37.00
5-	45.00	37.00
5-	46.00	36.00
5-	47.00	35.00
5-	48.00	34.00
5-	49.00	34.00
5-	50.00	33.00
5-	51.00	32.00
5-	52.00	31.00
5-	53.00	31.00
5-	54.00	30.00
5-	55.00	29.00
5-	56.00	28.00
5-	57.00	28.00
5-	58.00	27.00
5-	59.00	26.00
5-	60.00	25.00
5-	61.00	25.00
5-	62.00	24.00
5-	63.00	23.00
5-	64.00	22.00
5-	65.00	22.00
5-	66.00	21.00
5-	67.00	21.00
5-	68.00	21.00
5-	69.00	21.00
5-	70.00	21.00

Sched: Matrix: DEPR VP X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	21.00
5-	199.00	21.00
6	1.00	69.00
6	2.00	68.00
6	3.00	68.00
6	4.00	67.00
6	5.00	66.00
6	6.00	66.00
6	7.00	65.00
6	8.00	64.00
6	9.00	64.00
6	10.00	63.00
6	11.00	62.00
6	12.00	61.00
6	13.00	61.00
6	14.00	60.00
6	15.00	59.00
6	16.00	59.00
6	17.00	58.00
6	18.00	57.00
6	19.00	57.00
6	20.00	56.00
6	21.00	55.00
6	22.00	55.00
6	23.00	54.00
6	24.00	53.00
6	25.00	53.00
6	26.00	52.00
6	27.00	51.00
6	28.00	50.00
6	29.00	50.00
6	30.00	49.00
6	31.00	48.00
6	32.00	48.00
6	33.00	47.00
6	34.00	46.00
6	35.00	46.00
6	36.00	45.00
6	37.00	44.00
6	38.00	44.00
6	39.00	43.00
6	40.00	42.00
6	41.00	42.00
6	42.00	41.00
6	43.00	40.00
6	44.00	40.00
6	45.00	39.00
6	46.00	38.00
6	47.00	37.00
6	48.00	37.00
6	49.00	36.00
6	50.00	35.00
6	51.00	35.00
6	52.00	34.00
6	53.00	33.00
6	54.00	33.00
6	55.00	32.00
6	56.00	31.00
6	57.00	31.00
6	58.00	30.00
6	59.00	29.00
6	60.00	29.00
6	61.00	28.00
6	62.00	27.00
6	63.00	26.00
6	64.00	26.00
6	65.00	25.00
6	66.00	24.00
6	67.00	24.00
6	68.00	23.00
6	69.00	22.00
6	70.00	22.00
6	71.00	21.00
6	199.00	21.00
6+	1.00	69.00
6+	2.00	68.00
6+	3.00	68.00
6+	4.00	67.00
6+	5.00	66.00
6+	6.00	66.00
6+	7.00	65.00
6+	8.00	64.00
6+	9.00	64.00
6+	10.00	63.00
6+	11.00	62.00
6+	12.00	61.00
6+	13.00	61.00
6+	14.00	60.00
6+	15.00	59.00
6+	16.00	59.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	58.00
6+	18.00	57.00
6+	19.00	57.00
6+	20.00	56.00
6+	21.00	55.00
6+	22.00	55.00
6+	23.00	54.00
6+	24.00	53.00
6+	25.00	53.00
6+	26.00	52.00
6+	27.00	51.00
6+	28.00	50.00
6+	29.00	50.00
6+	30.00	49.00
6+	31.00	48.00
6+	32.00	48.00
6+	33.00	47.00
6+	34.00	46.00
6+	35.00	46.00
6+	36.00	45.00
6+	37.00	44.00
6+	38.00	44.00
6+	39.00	43.00
6+	40.00	42.00
6+	41.00	42.00
6+	42.00	41.00
6+	43.00	40.00
6+	44.00	40.00
6+	45.00	39.00
6+	46.00	38.00
6+	47.00	37.00
6+	48.00	37.00
6+	49.00	36.00
6+	50.00	35.00
6+	51.00	35.00
6+	52.00	34.00
6+	53.00	33.00
6+	54.00	33.00
6+	55.00	32.00
6+	56.00	31.00
6+	57.00	31.00
6+	58.00	30.00
6+	59.00	29.00
6+	60.00	29.00
6+	61.00	28.00
6+	62.00	27.00
6+	63.00	26.00
6+	64.00	26.00
6+	65.00	25.00
6+	66.00	24.00
6+	67.00	24.00
6+	68.00	23.00
6+	69.00	22.00
6+	70.00	22.00
6+	71.00	21.00
6+	199.00	21.00
6-	1.00	69.00
6-	2.00	68.00
6-	3.00	68.00
6-	4.00	67.00
6-	5.00	66.00
6-	6.00	66.00
6-	7.00	65.00
6-	8.00	64.00
6-	9.00	64.00
6-	10.00	63.00
6-	11.00	62.00
6-	12.00	61.00
6-	13.00	61.00
6-	14.00	60.00
6-	15.00	59.00
6-	16.00	59.00
6-	17.00	58.00
6-	18.00	57.00
6-	19.00	57.00
6-	20.00	56.00
6-	21.00	55.00
6-	22.00	55.00
6-	23.00	54.00
6-	24.00	53.00
6-	25.00	53.00
6-	26.00	52.00
6-	27.00	51.00
6-	28.00	50.00
6-	29.00	50.00
6-	30.00	49.00
6-	31.00	48.00
6-	32.00	48.00
6-	33.00	47.00
6-	34.00	46.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	46.00
6-	36.00	45.00
6-	37.00	44.00
6-	38.00	44.00
6-	39.00	43.00
6-	40.00	42.00
6-	41.00	42.00
6-	42.00	41.00
6-	43.00	40.00
6-	44.00	40.00
6-	45.00	39.00
6-	46.00	38.00
6-	47.00	37.00
6-	48.00	37.00
6-	49.00	36.00
6-	50.00	35.00
6-	51.00	35.00
6-	52.00	34.00
6-	53.00	33.00
6-	54.00	33.00
6-	55.00	32.00
6-	56.00	31.00
6-	57.00	31.00
6-	58.00	30.00
6-	59.00	29.00
6-	60.00	29.00
6-	61.00	28.00
6-	62.00	27.00
6-	63.00	26.00
6-	64.00	26.00
6-	65.00	25.00
6-	66.00	24.00
6-	67.00	24.00
6-	68.00	23.00
6-	69.00	22.00
6-	70.00	22.00
6-	71.00	21.00
6-	199.00	21.00
7	1.00	69.00
7	2.00	68.00
7	3.00	68.00
7	4.00	67.00
7	5.00	66.00
7	6.00	66.00
7	7.00	65.00
7	8.00	64.00
7	9.00	64.00
7	10.00	63.00
7	11.00	62.00
7	12.00	61.00
7	13.00	61.00
7	14.00	60.00
7	15.00	59.00
7	16.00	59.00
7	17.00	58.00
7	18.00	57.00
7	19.00	57.00
7	20.00	56.00
7	21.00	55.00
7	22.00	55.00
7	23.00	54.00
7	24.00	53.00
7	25.00	53.00
7	26.00	52.00
7	27.00	51.00
7	28.00	50.00
7	29.00	50.00
7	30.00	49.00
7	31.00	48.00
7	32.00	48.00
7	33.00	47.00
7	34.00	46.00
7	35.00	46.00
7	36.00	45.00
7	37.00	44.00
7	38.00	44.00
7	39.00	43.00
7	40.00	42.00
7	41.00	42.00
7	42.00	41.00
7	43.00	40.00
7	44.00	40.00
7	45.00	39.00
7	46.00	38.00
7	47.00	37.00
7	48.00	37.00
7	49.00	36.00
7	50.00	35.00
7	51.00	35.00
7	52.00	34.00

Sched:			
Matrix:	DEPR VP	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	33.00
7	54.00	33.00
7	55.00	32.00
7	56.00	31.00
7	57.00	31.00
7	58.00	30.00
7	59.00	29.00
7	60.00	29.00
7	61.00	28.00
7	62.00	27.00
7	63.00	26.00
7	64.00	26.00
7	65.00	25.00
7	66.00	24.00
7	67.00	24.00
7	68.00	23.00
7	69.00	22.00
7	70.00	22.00
7	71.00	21.00
7	199.00	21.00
7+	1.00	69.00
7+	2.00	68.00
7+	3.00	68.00
7+	4.00	67.00
7+	5.00	66.00
7+	6.00	66.00
7+	7.00	65.00
7+	8.00	64.00
7+	9.00	64.00
7+	10.00	63.00
7+	11.00	62.00
7+	12.00	61.00
7+	13.00	61.00
7+	14.00	60.00
7+	15.00	59.00
7+	16.00	59.00
7+	17.00	58.00
7+	18.00	57.00
7+	19.00	57.00
7+	20.00	56.00
7+	21.00	55.00
7+	22.00	55.00
7+	23.00	54.00
7+	24.00	53.00
7+	25.00	53.00
7+	26.00	52.00
7+	27.00	51.00
7+	28.00	50.00
7+	29.00	50.00
7+	30.00	49.00
7+	31.00	48.00
7+	32.00	48.00
7+	33.00	47.00
7+	34.00	46.00
7+	35.00	46.00
7+	36.00	45.00
7+	37.00	44.00
7+	38.00	44.00
7+	39.00	43.00
7+	40.00	42.00
7+	41.00	42.00
7+	42.00	41.00
7+	43.00	40.00
7+	44.00	40.00
7+	45.00	39.00
7+	46.00	38.00
7+	47.00	37.00
7+	48.00	37.00
7+	49.00	36.00
7+	50.00	35.00
7+	51.00	35.00
7+	52.00	34.00
7+	53.00	33.00
7+	54.00	33.00
7+	55.00	32.00
7+	56.00	31.00
7+	57.00	31.00
7+	58.00	30.00
7+	59.00	29.00
7+	60.00	29.00
7+	61.00	28.00
7+	62.00	27.00
7+	63.00	26.00
7+	64.00	26.00
7+	65.00	25.00
7+	66.00	24.00
7+	67.00	24.00
7+	68.00	23.00
7+	69.00	22.00
7+	70.00	22.00

Sched: Matrix: DEPR VP X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	21.00
7+	199.00	21.00
7-	1.00	69.00
7-	2.00	68.00
7-	3.00	68.00
7-	4.00	67.00
7-	5.00	66.00
7-	6.00	66.00
7-	7.00	65.00
7-	8.00	64.00
7-	9.00	64.00
7-	10.00	63.00
7-	11.00	62.00
7-	12.00	61.00
7-	13.00	61.00
7-	14.00	60.00
7-	15.00	59.00
7-	16.00	59.00
7-	17.00	58.00
7-	18.00	57.00
7-	19.00	57.00
7-	20.00	56.00
7-	21.00	55.00
7-	22.00	55.00
7-	23.00	54.00
7-	24.00	53.00
7-	25.00	53.00
7-	26.00	52.00
7-	27.00	51.00
7-	28.00	50.00
7-	29.00	50.00
7-	30.00	49.00
7-	31.00	48.00
7-	32.00	48.00
7-	33.00	47.00
7-	34.00	46.00
7-	35.00	46.00
7-	36.00	45.00
7-	37.00	44.00
7-	38.00	44.00
7-	39.00	43.00
7-	40.00	42.00
7-	41.00	42.00
7-	42.00	41.00
7-	43.00	40.00
7-	44.00	40.00
7-	45.00	39.00
7-	46.00	38.00
7-	47.00	37.00
7-	48.00	37.00
7-	49.00	36.00
7-	50.00	35.00
7-	51.00	35.00
7-	52.00	34.00
7-	53.00	33.00
7-	54.00	33.00
7-	55.00	32.00
7-	56.00	31.00
7-	57.00	31.00
7-	58.00	30.00
7-	59.00	29.00
7-	60.00	29.00
7-	61.00	28.00
7-	62.00	27.00
7-	63.00	26.00
7-	64.00	26.00
7-	65.00	25.00
7-	66.00	24.00
7-	67.00	24.00
7-	68.00	23.00
7-	69.00	22.00
7-	70.00	22.00
7-	71.00	21.00
7-	199.00	21.00
8	1.00	69.00
8	2.00	68.00
8	3.00	68.00
8	4.00	67.00
8	5.00	66.00
8	6.00	66.00
8	7.00	65.00
8	8.00	64.00
8	9.00	64.00
8	10.00	63.00
8	11.00	62.00
8	12.00	61.00
8	13.00	61.00
8	14.00	60.00
8	15.00	59.00
8	16.00	59.00

Sched:

Matrix: DEPR VP X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	58.00
8	18.00	57.00
8	19.00	57.00
8	20.00	56.00
8	21.00	55.00
8	22.00	55.00
8	23.00	54.00
8	24.00	53.00
8	25.00	53.00
8	26.00	52.00
8	27.00	51.00
8	28.00	50.00
8	29.00	50.00
8	30.00	49.00
8	31.00	48.00
8	32.00	48.00
8	33.00	47.00
8	34.00	46.00
8	35.00	46.00
8	36.00	45.00
8	37.00	44.00
8	38.00	44.00
8	39.00	43.00
8	40.00	42.00
8	41.00	42.00
8	42.00	41.00
8	43.00	40.00
8	44.00	40.00
8	45.00	39.00
8	46.00	38.00
8	47.00	37.00
8	48.00	37.00
8	49.00	36.00
8	50.00	35.00
8	51.00	35.00
8	52.00	34.00
8	53.00	33.00
8	54.00	33.00
8	55.00	32.00
8	56.00	31.00
8	57.00	31.00
8	58.00	30.00
8	59.00	29.00
8	60.00	29.00
8	61.00	28.00
8	62.00	27.00
8	63.00	26.00
8	64.00	26.00
8	65.00	25.00
8	66.00	24.00
8	67.00	24.00
8	68.00	23.00
8	69.00	22.00
8	70.00	22.00
8	71.00	21.00
8	199.00	21.00
8+	1.00	69.00
8+	2.00	68.00
8+	3.00	68.00
8+	4.00	67.00
8+	5.00	66.00
8+	6.00	66.00
8+	7.00	65.00
8+	8.00	64.00
8+	9.00	64.00
8+	10.00	63.00
8+	11.00	62.00
8+	12.00	61.00
8+	13.00	61.00
8+	14.00	60.00
8+	15.00	59.00
8+	16.00	59.00
8+	17.00	58.00
8+	18.00	57.00
8+	19.00	57.00
8+	20.00	56.00
8+	21.00	55.00
8+	22.00	55.00
8+	23.00	54.00
8+	24.00	53.00
8+	25.00	53.00
8+	26.00	52.00
8+	27.00	51.00
8+	28.00	50.00
8+	29.00	50.00
8+	30.00	49.00
8+	31.00	48.00
8+	32.00	48.00
8+	33.00	47.00
8+	34.00	46.00

Sched: Matrix: DEPR VP X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	46.00
8+	36.00	45.00
8+	37.00	44.00
8+	38.00	44.00
8+	39.00	43.00
8+	40.00	42.00
8+	41.00	42.00
8+	42.00	41.00
8+	43.00	40.00
8+	44.00	40.00
8+	45.00	39.00
8+	46.00	38.00
8+	47.00	37.00
8+	48.00	37.00
8+	49.00	36.00
8+	50.00	35.00
8+	51.00	35.00
8+	52.00	34.00
8+	53.00	33.00
8+	54.00	33.00
8+	55.00	32.00
8+	56.00	31.00
8+	57.00	31.00
8+	58.00	30.00
8+	59.00	29.00
8+	60.00	29.00
8+	61.00	28.00
8+	62.00	27.00
8+	63.00	26.00
8+	64.00	26.00
8+	65.00	25.00
8+	66.00	24.00
8+	67.00	24.00
8+	68.00	23.00
8+	69.00	22.00
8+	70.00	22.00
8+	71.00	21.00
8+	199.00	21.00
8-	1.00	69.00
8-	2.00	68.00
8-	3.00	68.00
8-	4.00	67.00
8-	5.00	66.00
8-	6.00	66.00
8-	7.00	65.00
8-	8.00	64.00
8-	9.00	64.00
8-	10.00	63.00
8-	11.00	62.00
8-	12.00	61.00
8-	13.00	61.00
8-	14.00	60.00
8-	15.00	59.00
8-	16.00	59.00
8-	17.00	58.00
8-	18.00	57.00
8-	19.00	57.00
8-	20.00	56.00
8-	21.00	55.00
8-	22.00	55.00
8-	23.00	54.00
8-	24.00	53.00
8-	25.00	53.00
8-	26.00	52.00
8-	27.00	51.00
8-	28.00	50.00
8-	29.00	50.00
8-	30.00	49.00
8-	31.00	48.00
8-	32.00	48.00
8-	33.00	47.00
8-	34.00	46.00
8-	35.00	46.00
8-	36.00	45.00
8-	37.00	44.00
8-	38.00	44.00
8-	39.00	43.00
8-	40.00	42.00
8-	41.00	42.00
8-	42.00	41.00
8-	43.00	40.00
8-	44.00	40.00
8-	45.00	39.00
8-	46.00	38.00
8-	47.00	37.00
8-	48.00	37.00
8-	49.00	36.00
8-	50.00	35.00
8-	51.00	35.00
8-	52.00	34.00

Sched:
Matrix: DEPR VP
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	33.00
8-	54.00	33.00
8-	55.00	32.00
8-	56.00	31.00
8-	57.00	31.00
8-	58.00	30.00
8-	59.00	29.00
8-	60.00	29.00
8-	61.00	28.00
8-	62.00	27.00
8-	63.00	26.00
8-	64.00	26.00
8-	65.00	25.00
8-	66.00	24.00
8-	67.00	24.00
8-	68.00	23.00
8-	69.00	22.00
8-	70.00	22.00
8-	71.00	21.00
8-	199.00	21.00

Matrix Schedule

Sched:

Matrix: DEPR PR

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	79.00
1	2.00	78.00
1	3.00	77.00
1	4.00	76.00
1	5.00	75.00
1	6.00	74.00
1	7.00	73.00
1	8.00	72.00
1	9.00	71.00
1	10.00	70.00
1	11.00	69.00
1	12.00	68.00
1	13.00	67.00
1	14.00	67.00
1	15.00	66.00
1	16.00	65.00
1	17.00	64.00
1	18.00	63.00
1	19.00	62.00
1	20.00	61.00
1	21.00	60.00
1	22.00	59.00
1	23.00	58.00
1	24.00	57.00
1	25.00	56.00
1	26.00	55.00
1	27.00	54.00
1	28.00	53.00
1	29.00	52.00
1	30.00	51.00
1	31.00	50.00
1	32.00	49.00
1	33.00	48.00
1	34.00	47.00
1	35.00	46.00
1	36.00	45.00
1	37.00	44.00
1	38.00	43.00
1	39.00	43.00
1	40.00	42.00
1	41.00	41.00
1	42.00	40.00
1	43.00	39.00
1	44.00	38.00
1	45.00	37.00
1	46.00	36.00
1	47.00	35.00
1	48.00	34.00
1	49.00	33.00
1	50.00	32.00
1	51.00	31.00
1	52.00	31.00
1	53.00	31.00
1	54.00	31.00
1	55.00	31.00
1	56.00	31.00
1	57.00	31.00
1	58.00	31.00
1	59.00	31.00
1	60.00	31.00
1	61.00	31.00
1	62.00	31.00
1	63.00	31.00
1	64.00	31.00
1	65.00	31.00
1	66.00	31.00
1	67.00	31.00
1	68.00	31.00
1	69.00	31.00
1	70.00	31.00
1	71.00	31.00
1	199.00	31.00
1+	1.00	79.00
1+	2.00	78.00
1+	3.00	77.00
1+	4.00	76.00
1+	5.00	75.00
1+	6.00	74.00
1+	7.00	73.00
1+	8.00	72.00
1+	9.00	71.00
1+	10.00	70.00
1+	11.00	69.00
1+	12.00	68.00
1+	13.00	67.00
1+	14.00	67.00
1+	15.00	66.00
1+	16.00	65.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	64.00
1+	18.00	63.00
1+	19.00	62.00
1+	20.00	61.00
1+	21.00	60.00
1+	22.00	59.00
1+	23.00	58.00
1+	24.00	57.00
1+	25.00	56.00
1+	26.00	55.00
1+	27.00	54.00
1+	28.00	53.00
1+	29.00	52.00
1+	30.00	51.00
1+	31.00	50.00
1+	32.00	49.00
1+	33.00	48.00
1+	34.00	47.00
1+	35.00	46.00
1+	36.00	45.00
1+	37.00	44.00
1+	38.00	43.00
1+	39.00	43.00
1+	40.00	42.00
1+	41.00	41.00
1+	42.00	40.00
1+	43.00	39.00
1+	44.00	38.00
1+	45.00	37.00
1+	46.00	36.00
1+	47.00	35.00
1+	48.00	34.00
1+	49.00	33.00
1+	50.00	32.00
1+	51.00	31.00
1+	52.00	31.00
1+	53.00	31.00
1+	54.00	31.00
1+	55.00	31.00
1+	56.00	31.00
1+	57.00	31.00
1+	58.00	31.00
1+	59.00	31.00
1+	60.00	31.00
1+	61.00	31.00
1+	62.00	31.00
1+	63.00	31.00
1+	64.00	31.00
1+	65.00	31.00
1+	66.00	31.00
1+	67.00	31.00
1+	68.00	31.00
1+	69.00	31.00
1+	70.00	31.00
1+	71.00	31.00
1+	199.00	31.00
1-	1.00	79.00
1-	2.00	78.00
1-	3.00	77.00
1-	4.00	76.00
1-	5.00	75.00
1-	6.00	74.00
1-	7.00	73.00
1-	8.00	72.00
1-	9.00	71.00
1-	10.00	70.00
1-	11.00	69.00
1-	12.00	68.00
1-	13.00	67.00
1-	14.00	67.00
1-	15.00	66.00
1-	16.00	65.00
1-	17.00	64.00
1-	18.00	63.00
1-	19.00	62.00
1-	20.00	61.00
1-	21.00	60.00
1-	22.00	59.00
1-	23.00	58.00
1-	24.00	57.00
1-	25.00	56.00
1-	26.00	55.00
1-	27.00	54.00
1-	28.00	53.00
1-	29.00	52.00
1-	30.00	51.00
1-	31.00	50.00
1-	32.00	49.00
1-	33.00	48.00
1-	34.00	47.00

Sched: Matrix: DEPR PR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	46.00
1-	36.00	45.00
1-	37.00	44.00
1-	38.00	43.00
1-	39.00	43.00
1-	40.00	42.00
1-	41.00	41.00
1-	42.00	40.00
1-	43.00	39.00
1-	44.00	38.00
1-	45.00	37.00
1-	46.00	36.00
1-	47.00	35.00
1-	48.00	34.00
1-	49.00	33.00
1-	50.00	32.00
1-	51.00	31.00
1-	52.00	31.00
1-	53.00	31.00
1-	54.00	31.00
1-	55.00	31.00
1-	56.00	31.00
1-	57.00	31.00
1-	58.00	31.00
1-	59.00	31.00
1-	60.00	31.00
1-	61.00	31.00
1-	62.00	31.00
1-	63.00	31.00
1-	64.00	31.00
1-	65.00	31.00
1-	66.00	31.00
1-	67.00	31.00
1-	68.00	31.00
1-	69.00	31.00
1-	70.00	31.00
1-	71.00	31.00
1-	199.00	31.00
2	1.00	79.00
2	2.00	78.00
2	3.00	77.00
2	4.00	76.00
2	5.00	75.00
2	6.00	74.00
2	7.00	73.00
2	8.00	72.00
2	9.00	71.00
2	10.00	70.00
2	11.00	69.00
2	12.00	68.00
2	13.00	67.00
2	14.00	67.00
2	15.00	66.00
2	16.00	65.00
2	17.00	64.00
2	18.00	63.00
2	19.00	62.00
2	20.00	61.00
2	21.00	60.00
2	22.00	59.00
2	23.00	58.00
2	24.00	57.00
2	25.00	56.00
2	26.00	55.00
2	27.00	54.00
2	28.00	53.00
2	29.00	52.00
2	30.00	51.00
2	31.00	50.00
2	32.00	49.00
2	33.00	48.00
2	34.00	47.00
2	35.00	46.00
2	36.00	45.00
2	37.00	44.00
2	38.00	43.00
2	39.00	43.00
2	40.00	42.00
2	41.00	41.00
2	42.00	40.00
2	43.00	39.00
2	44.00	38.00
2	45.00	37.00
2	46.00	36.00
2	47.00	35.00
2	48.00	34.00
2	49.00	33.00
2	50.00	32.00
2	51.00	31.00
2	52.00	31.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	31.00
2	54.00	31.00
2	55.00	31.00
2	56.00	31.00
2	57.00	31.00
2	58.00	31.00
2	59.00	31.00
2	60.00	31.00
2	61.00	31.00
2	62.00	31.00
2	63.00	31.00
2	64.00	31.00
2	65.00	31.00
2	66.00	31.00
2	67.00	31.00
2	68.00	31.00
2	69.00	31.00
2	70.00	31.00
2	71.00	31.00
2	199.00	31.00
2+	1.00	79.00
2+	2.00	78.00
2+	3.00	77.00
2+	4.00	76.00
2+	5.00	75.00
2+	6.00	74.00
2+	7.00	73.00
2+	8.00	72.00
2+	9.00	71.00
2+	10.00	70.00
2+	11.00	69.00
2+	12.00	68.00
2+	13.00	67.00
2+	14.00	67.00
2+	15.00	66.00
2+	16.00	65.00
2+	17.00	64.00
2+	18.00	63.00
2+	19.00	62.00
2+	20.00	61.00
2+	21.00	60.00
2+	22.00	59.00
2+	23.00	58.00
2+	24.00	57.00
2+	25.00	56.00
2+	26.00	55.00
2+	27.00	54.00
2+	28.00	53.00
2+	29.00	52.00
2+	30.00	51.00
2+	31.00	50.00
2+	32.00	49.00
2+	33.00	48.00
2+	34.00	47.00
2+	35.00	46.00
2+	36.00	45.00
2+	37.00	44.00
2+	38.00	43.00
2+	39.00	43.00
2+	40.00	42.00
2+	41.00	41.00
2+	42.00	40.00
2+	43.00	39.00
2+	44.00	38.00
2+	45.00	37.00
2+	46.00	36.00
2+	47.00	35.00
2+	48.00	34.00
2+	49.00	33.00
2+	50.00	32.00
2+	51.00	31.00
2+	52.00	31.00
2+	53.00	31.00
2+	54.00	31.00
2+	55.00	31.00
2+	56.00	31.00
2+	57.00	31.00
2+	58.00	31.00
2+	59.00	31.00
2+	60.00	31.00
2+	61.00	31.00
2+	62.00	31.00
2+	63.00	31.00
2+	64.00	31.00
2+	65.00	31.00
2+	66.00	31.00
2+	67.00	31.00
2+	68.00	31.00
2+	69.00	31.00
2+	70.00	31.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	31.00
2+	199.00	31.00
2-	1.00	79.00
2-	2.00	78.00
2-	3.00	77.00
2-	4.00	76.00
2-	5.00	75.00
2-	6.00	74.00
2-	7.00	73.00
2-	8.00	72.00
2-	9.00	71.00
2-	10.00	70.00
2-	11.00	69.00
2-	12.00	68.00
2-	13.00	67.00
2-	14.00	67.00
2-	15.00	66.00
2-	16.00	65.00
2-	17.00	64.00
2-	18.00	63.00
2-	19.00	62.00
2-	20.00	61.00
2-	21.00	60.00
2-	22.00	59.00
2-	23.00	58.00
2-	24.00	57.00
2-	25.00	56.00
2-	26.00	55.00
2-	27.00	54.00
2-	28.00	53.00
2-	29.00	52.00
2-	30.00	51.00
2-	31.00	50.00
2-	32.00	49.00
2-	33.00	48.00
2-	34.00	47.00
2-	35.00	46.00
2-	36.00	45.00
2-	37.00	44.00
2-	38.00	43.00
2-	39.00	43.00
2-	40.00	42.00
2-	41.00	41.00
2-	42.00	40.00
2-	43.00	39.00
2-	44.00	38.00
2-	45.00	37.00
2-	46.00	36.00
2-	47.00	35.00
2-	48.00	34.00
2-	49.00	33.00
2-	50.00	32.00
2-	51.00	31.00
2-	52.00	31.00
2-	53.00	31.00
2-	54.00	31.00
2-	55.00	31.00
2-	56.00	31.00
2-	57.00	31.00
2-	58.00	31.00
2-	59.00	31.00
2-	60.00	31.00
2-	61.00	31.00
2-	62.00	31.00
2-	63.00	31.00
2-	64.00	31.00
2-	65.00	31.00
2-	66.00	31.00
2-	67.00	31.00
2-	68.00	31.00
2-	69.00	31.00
2-	70.00	31.00
2-	71.00	31.00
2-	199.00	31.00
3	1.00	79.00
3	2.00	78.00
3	3.00	77.00
3	4.00	76.00
3	5.00	76.00
3	6.00	75.00
3	7.00	74.00
3	8.00	73.00
3	9.00	72.00
3	10.00	71.00
3	11.00	70.00
3	12.00	69.00
3	13.00	69.00
3	14.00	68.00
3	15.00	67.00
3	16.00	66.00

Sched:
Matrix: DEPR PR X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	65.00
3	18.00	64.00
3	19.00	63.00
3	20.00	62.00
3	21.00	62.00
3	22.00	61.00
3	23.00	60.00
3	24.00	59.00
3	25.00	58.00
3	26.00	57.00
3	27.00	56.00
3	28.00	55.00
3	29.00	55.00
3	30.00	54.00
3	31.00	53.00
3	32.00	52.00
3	33.00	51.00
3	34.00	50.00
3	35.00	49.00
3	36.00	48.00
3	37.00	48.00
3	38.00	47.00
3	39.00	46.00
3	40.00	45.00
3	41.00	44.00
3	42.00	43.00
3	43.00	42.00
3	44.00	41.00
3	45.00	41.00
3	46.00	40.00
3	47.00	39.00
3	48.00	38.00
3	49.00	37.00
3	50.00	36.00
3	51.00	35.00
3	52.00	34.00
3	53.00	34.00
3	54.00	33.00
3	55.00	32.00
3	56.00	31.00
3	57.00	31.00
3	58.00	31.00
3	59.00	31.00
3	60.00	31.00
3	61.00	31.00
3	62.00	31.00
3	63.00	31.00
3	64.00	31.00
3	65.00	31.00
3	66.00	31.00
3	67.00	31.00
3	68.00	31.00
3	69.00	31.00
3	70.00	31.00
3	71.00	31.00
3	199.00	31.00
3+	1.00	79.00
3+	2.00	78.00
3+	3.00	77.00
3+	4.00	76.00
3+	5.00	76.00
3+	6.00	75.00
3+	7.00	74.00
3+	8.00	73.00
3+	9.00	72.00
3+	10.00	71.00
3+	11.00	70.00
3+	12.00	69.00
3+	13.00	69.00
3+	14.00	68.00
3+	15.00	67.00
3+	16.00	66.00
3+	17.00	65.00
3+	18.00	64.00
3+	19.00	63.00
3+	20.00	62.00
3+	21.00	62.00
3+	22.00	61.00
3+	23.00	60.00
3+	24.00	59.00
3+	25.00	58.00
3+	26.00	57.00
3+	27.00	56.00
3+	28.00	55.00
3+	29.00	55.00
3+	30.00	54.00
3+	31.00	53.00
3+	32.00	52.00
3+	33.00	51.00
3+	34.00	50.00

Sched:

Matrix: DEPR PR X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	49.00
3+	36.00	48.00
3+	37.00	48.00
3+	38.00	47.00
3+	39.00	46.00
3+	40.00	45.00
3+	41.00	44.00
3+	42.00	43.00
3+	43.00	42.00
3+	44.00	41.00
3+	45.00	41.00
3+	46.00	40.00
3+	47.00	39.00
3+	48.00	38.00
3+	49.00	37.00
3+	50.00	36.00
3+	51.00	35.00
3+	52.00	34.00
3+	53.00	34.00
3+	54.00	33.00
3+	55.00	32.00
3+	56.00	31.00
3+	57.00	31.00
3+	58.00	31.00
3+	59.00	31.00
3+	60.00	31.00
3+	61.00	31.00
3+	62.00	31.00
3+	63.00	31.00
3+	64.00	31.00
3+	65.00	31.00
3+	66.00	31.00
3+	67.00	31.00
3+	68.00	31.00
3+	69.00	31.00
3+	70.00	31.00
3+	71.00	31.00
3+	199.00	31.00
3-	1.00	79.00
3-	2.00	78.00
3-	3.00	77.00
3-	4.00	76.00
3-	5.00	76.00
3-	6.00	75.00
3-	7.00	74.00
3-	8.00	73.00
3-	9.00	72.00
3-	10.00	71.00
3-	11.00	70.00
3-	12.00	69.00
3-	13.00	69.00
3-	14.00	68.00
3-	15.00	67.00
3-	16.00	66.00
3-	17.00	65.00
3-	18.00	64.00
3-	19.00	63.00
3-	20.00	62.00
3-	21.00	62.00
3-	22.00	61.00
3-	23.00	60.00
3-	24.00	59.00
3-	25.00	58.00
3-	26.00	57.00
3-	27.00	56.00
3-	28.00	55.00
3-	29.00	55.00
3-	30.00	54.00
3-	31.00	53.00
3-	32.00	52.00
3-	33.00	51.00
3-	34.00	50.00
3-	35.00	49.00
3-	36.00	48.00
3-	37.00	48.00
3-	38.00	47.00
3-	39.00	46.00
3-	40.00	45.00
3-	41.00	44.00
3-	42.00	43.00
3-	43.00	42.00
3-	44.00	41.00
3-	45.00	41.00
3-	46.00	40.00
3-	47.00	39.00
3-	48.00	38.00
3-	49.00	37.00
3-	50.00	36.00
3-	51.00	35.00
3-	52.00	34.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	34.00
3-	54.00	33.00
3-	55.00	32.00
3-	56.00	31.00
3-	57.00	31.00
3-	58.00	31.00
3-	59.00	31.00
3-	60.00	31.00
3-	61.00	31.00
3-	62.00	31.00
3-	63.00	31.00
3-	64.00	31.00
3-	65.00	31.00
3-	66.00	31.00
3-	67.00	31.00
3-	68.00	31.00
3-	69.00	31.00
3-	70.00	31.00
3-	71.00	31.00
3-	199.00	31.00
4	1.00	79.00
4	2.00	78.00
4	3.00	77.00
4	4.00	77.00
4	5.00	76.00
4	6.00	75.00
4	7.00	74.00
4	8.00	73.00
4	9.00	73.00
4	10.00	72.00
4	11.00	71.00
4	12.00	70.00
4	13.00	69.00
4	14.00	69.00
4	15.00	68.00
4	16.00	67.00
4	17.00	66.00
4	18.00	65.00
4	19.00	65.00
4	20.00	64.00
4	21.00	63.00
4	22.00	62.00
4	23.00	61.00
4	24.00	61.00
4	25.00	60.00
4	26.00	59.00
4	27.00	58.00
4	28.00	57.00
4	29.00	57.00
4	30.00	56.00
4	31.00	55.00
4	32.00	54.00
4	33.00	53.00
4	34.00	53.00
4	35.00	52.00
4	36.00	51.00
4	37.00	50.00
4	38.00	49.00
4	39.00	49.00
4	40.00	48.00
4	41.00	47.00
4	42.00	46.00
4	43.00	45.00
4	44.00	45.00
4	45.00	44.00
4	46.00	43.00
4	47.00	42.00
4	48.00	41.00
4	49.00	41.00
4	50.00	40.00
4	51.00	39.00
4	52.00	38.00
4	53.00	37.00
4	54.00	37.00
4	55.00	36.00
4	56.00	35.00
4	57.00	34.00
4	58.00	33.00
4	59.00	33.00
4	60.00	32.00
4	61.00	31.00
4	62.00	31.00
4	63.00	31.00
4	64.00	31.00
4	65.00	31.00
4	66.00	31.00
4	67.00	31.00
4	68.00	31.00
4	69.00	31.00
4	70.00	31.00

Sched: Matrix: DEPR PR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	31.00
4	199.00	31.00
4+	1.00	79.00
4+	2.00	78.00
4+	3.00	77.00
4+	4.00	77.00
4+	5.00	76.00
4+	6.00	75.00
4+	7.00	74.00
4+	8.00	73.00
4+	9.00	73.00
4+	10.00	72.00
4+	11.00	71.00
4+	12.00	70.00
4+	13.00	69.00
4+	14.00	69.00
4+	15.00	68.00
4+	16.00	67.00
4+	17.00	66.00
4+	18.00	65.00
4+	19.00	65.00
4+	20.00	64.00
4+	21.00	63.00
4+	22.00	62.00
4+	23.00	61.00
4+	24.00	61.00
4+	25.00	60.00
4+	26.00	59.00
4+	27.00	58.00
4+	28.00	57.00
4+	29.00	57.00
4+	30.00	56.00
4+	31.00	55.00
4+	32.00	54.00
4+	33.00	53.00
4+	34.00	53.00
4+	35.00	52.00
4+	36.00	51.00
4+	37.00	50.00
4+	38.00	49.00
4+	39.00	49.00
4+	40.00	48.00
4+	41.00	47.00
4+	42.00	46.00
4+	43.00	45.00
4+	44.00	45.00
4+	45.00	44.00
4+	46.00	43.00
4+	47.00	42.00
4+	48.00	41.00
4+	49.00	41.00
4+	50.00	40.00
4+	51.00	39.00
4+	52.00	38.00
4+	53.00	37.00
4+	54.00	37.00
4+	55.00	36.00
4+	56.00	35.00
4+	57.00	34.00
4+	58.00	33.00
4+	59.00	33.00
4+	60.00	32.00
4+	61.00	31.00
4+	62.00	31.00
4+	63.00	31.00
4+	64.00	31.00
4+	65.00	31.00
4+	66.00	31.00
4+	67.00	31.00
4+	68.00	31.00
4+	69.00	31.00
4+	70.00	31.00
4+	71.00	31.00
4+	199.00	31.00
4-	1.00	79.00
4-	2.00	78.00
4-	3.00	77.00
4-	4.00	77.00
4-	5.00	76.00
4-	6.00	75.00
4-	7.00	74.00
4-	8.00	73.00
4-	9.00	73.00
4-	10.00	72.00
4-	11.00	71.00
4-	12.00	70.00
4-	13.00	69.00
4-	14.00	69.00
4-	15.00	68.00
4-	16.00	67.00

Sched:
Matrix: DEPR PR X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	66.00
4-	18.00	65.00
4-	19.00	65.00
4-	20.00	64.00
4-	21.00	63.00
4-	22.00	62.00
4-	23.00	61.00
4-	24.00	61.00
4-	25.00	60.00
4-	26.00	59.00
4-	27.00	58.00
4-	28.00	57.00
4-	29.00	57.00
4-	30.00	56.00
4-	31.00	55.00
4-	32.00	54.00
4-	33.00	53.00
4-	34.00	53.00
4-	35.00	52.00
4-	36.00	51.00
4-	37.00	50.00
4-	38.00	49.00
4-	39.00	49.00
4-	40.00	48.00
4-	41.00	47.00
4-	42.00	46.00
4-	43.00	45.00
4-	44.00	45.00
4-	45.00	44.00
4-	46.00	43.00
4-	47.00	42.00
4-	48.00	41.00
4-	49.00	41.00
4-	50.00	40.00
4-	51.00	39.00
4-	52.00	38.00
4-	53.00	37.00
4-	54.00	37.00
4-	55.00	36.00
4-	56.00	35.00
4-	57.00	34.00
4-	58.00	33.00
4-	59.00	33.00
4-	60.00	32.00
4-	61.00	31.00
4-	62.00	31.00
4-	63.00	31.00
4-	64.00	31.00
4-	65.00	31.00
4-	66.00	31.00
4-	67.00	31.00
4-	68.00	31.00
4-	69.00	31.00
4-	70.00	31.00
4-	71.00	31.00
4-	199.00	31.00
5	1.00	79.00
5	2.00	78.00
5	3.00	78.00
5	4.00	77.00
5	5.00	76.00
5	6.00	75.00
5	7.00	75.00
5	8.00	74.00
5	9.00	73.00
5	10.00	72.00
5	11.00	72.00
5	12.00	71.00
5	13.00	70.00
5	14.00	69.00
5	15.00	69.00
5	16.00	68.00
5	17.00	67.00
5	18.00	66.00
5	19.00	66.00
5	20.00	65.00
5	21.00	64.00
5	22.00	63.00
5	23.00	63.00
5	24.00	62.00
5	25.00	61.00
5	26.00	61.00
5	27.00	60.00
5	28.00	59.00
5	29.00	58.00
5	30.00	58.00
5	31.00	57.00
5	32.00	56.00
5	33.00	55.00
5	34.00	55.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	54.00
5	36.00	53.00
5	37.00	52.00
5	38.00	52.00
5	39.00	51.00
5	40.00	50.00
5	41.00	49.00
5	42.00	49.00
5	43.00	48.00
5	44.00	47.00
5	45.00	47.00
5	46.00	46.00
5	47.00	45.00
5	48.00	44.00
5	49.00	44.00
5	50.00	43.00
5	51.00	42.00
5	52.00	41.00
5	53.00	41.00
5	54.00	40.00
5	55.00	39.00
5	56.00	38.00
5	57.00	38.00
5	58.00	37.00
5	59.00	36.00
5	60.00	35.00
5	61.00	35.00
5	62.00	34.00
5	63.00	33.00
5	64.00	32.00
5	65.00	32.00
5	66.00	31.00
5	67.00	31.00
5	68.00	31.00
5	69.00	31.00
5	70.00	31.00
5	71.00	31.00
5	199.00	31.00
5+	1.00	79.00
5+	2.00	78.00
5+	3.00	78.00
5+	4.00	77.00
5+	5.00	76.00
5+	6.00	75.00
5+	7.00	75.00
5+	8.00	74.00
5+	9.00	73.00
5+	10.00	72.00
5+	11.00	72.00
5+	12.00	71.00
5+	13.00	70.00
5+	14.00	69.00
5+	15.00	69.00
5+	16.00	68.00
5+	17.00	67.00
5+	18.00	66.00
5+	19.00	66.00
5+	20.00	65.00
5+	21.00	64.00
5+	22.00	63.00
5+	23.00	63.00
5+	24.00	62.00
5+	25.00	61.00
5+	26.00	61.00
5+	27.00	60.00
5+	28.00	59.00
5+	29.00	58.00
5+	30.00	58.00
5+	31.00	57.00
5+	32.00	56.00
5+	33.00	55.00
5+	34.00	55.00
5+	35.00	54.00
5+	36.00	53.00
5+	37.00	52.00
5+	38.00	52.00
5+	39.00	51.00
5+	40.00	50.00
5+	41.00	49.00
5+	42.00	49.00
5+	43.00	48.00
5+	44.00	47.00
5+	45.00	47.00
5+	46.00	46.00
5+	47.00	45.00
5+	48.00	44.00
5+	49.00	44.00
5+	50.00	43.00
5+	51.00	42.00
5+	52.00	41.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	41.00
5+	54.00	40.00
5+	55.00	39.00
5+	56.00	38.00
5+	57.00	38.00
5+	58.00	37.00
5+	59.00	36.00
5+	60.00	35.00
5+	61.00	35.00
5+	62.00	34.00
5+	63.00	33.00
5+	64.00	32.00
5+	65.00	32.00
5+	66.00	31.00
5+	67.00	31.00
5+	68.00	31.00
5+	69.00	31.00
5+	70.00	31.00
5+	71.00	31.00
5+	199.00	31.00
5-	1.00	79.00
5-	2.00	78.00
5-	3.00	78.00
5-	4.00	77.00
5-	5.00	76.00
5-	6.00	75.00
5-	7.00	75.00
5-	8.00	74.00
5-	9.00	73.00
5-	10.00	72.00
5-	11.00	72.00
5-	12.00	71.00
5-	13.00	70.00
5-	14.00	69.00
5-	15.00	69.00
5-	16.00	68.00
5-	17.00	67.00
5-	18.00	66.00
5-	19.00	66.00
5-	20.00	65.00
5-	21.00	64.00
5-	22.00	63.00
5-	23.00	63.00
5-	24.00	62.00
5-	25.00	61.00
5-	26.00	61.00
5-	27.00	60.00
5-	28.00	59.00
5-	29.00	58.00
5-	30.00	58.00
5-	31.00	57.00
5-	32.00	56.00
5-	33.00	55.00
5-	34.00	55.00
5-	35.00	54.00
5-	36.00	53.00
5-	37.00	52.00
5-	38.00	52.00
5-	39.00	51.00
5-	40.00	50.00
5-	41.00	49.00
5-	42.00	49.00
5-	43.00	48.00
5-	44.00	47.00
5-	45.00	47.00
5-	46.00	46.00
5-	47.00	45.00
5-	48.00	44.00
5-	49.00	44.00
5-	50.00	43.00
5-	51.00	42.00
5-	52.00	41.00
5-	53.00	41.00
5-	54.00	40.00
5-	55.00	39.00
5-	56.00	38.00
5-	57.00	38.00
5-	58.00	37.00
5-	59.00	36.00
5-	60.00	35.00
5-	61.00	35.00
5-	62.00	34.00
5-	63.00	33.00
5-	64.00	32.00
5-	65.00	32.00
5-	66.00	31.00
5-	67.00	31.00
5-	68.00	31.00
5-	69.00	31.00
5-	70.00	31.00

Sched:
Matrix: DEPR PR X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	31.00
5-	199.00	31.00
6	1.00	79.00
6	2.00	78.00
6	3.00	78.00
6	4.00	77.00
6	5.00	76.00
6	6.00	76.00
6	7.00	75.00
6	8.00	74.00
6	9.00	74.00
6	10.00	73.00
6	11.00	72.00
6	12.00	71.00
6	13.00	71.00
6	14.00	70.00
6	15.00	69.00
6	16.00	69.00
6	17.00	68.00
6	18.00	67.00
6	19.00	67.00
6	20.00	66.00
6	21.00	65.00
6	22.00	65.00
6	23.00	64.00
6	24.00	63.00
6	25.00	63.00
6	26.00	62.00
6	27.00	61.00
6	28.00	60.00
6	29.00	60.00
6	30.00	59.00
6	31.00	58.00
6	32.00	58.00
6	33.00	57.00
6	34.00	56.00
6	35.00	56.00
6	36.00	55.00
6	37.00	54.00
6	38.00	54.00
6	39.00	53.00
6	40.00	52.00
6	41.00	52.00
6	42.00	51.00
6	43.00	50.00
6	44.00	50.00
6	45.00	49.00
6	46.00	48.00
6	47.00	47.00
6	48.00	47.00
6	49.00	46.00
6	50.00	45.00
6	51.00	45.00
6	52.00	44.00
6	53.00	43.00
6	54.00	43.00
6	55.00	42.00
6	56.00	41.00
6	57.00	41.00
6	58.00	40.00
6	59.00	39.00
6	60.00	39.00
6	61.00	38.00
6	62.00	37.00
6	63.00	36.00
6	64.00	36.00
6	65.00	35.00
6	66.00	34.00
6	67.00	34.00
6	68.00	33.00
6	69.00	32.00
6	70.00	32.00
6	71.00	31.00
6	199.00	31.00
6+	1.00	79.00
6+	2.00	78.00
6+	3.00	78.00
6+	4.00	77.00
6+	5.00	76.00
6+	6.00	76.00
6+	7.00	75.00
6+	8.00	74.00
6+	9.00	74.00
6+	10.00	73.00
6+	11.00	72.00
6+	12.00	71.00
6+	13.00	71.00
6+	14.00	70.00
6+	15.00	69.00
6+	16.00	69.00

Sched:

Matrix: DEPR PR X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	68.00
6+	18.00	67.00
6+	19.00	67.00
6+	20.00	66.00
6+	21.00	65.00
6+	22.00	65.00
6+	23.00	64.00
6+	24.00	63.00
6+	25.00	63.00
6+	26.00	62.00
6+	27.00	61.00
6+	28.00	60.00
6+	29.00	60.00
6+	30.00	59.00
6+	31.00	58.00
6+	32.00	58.00
6+	33.00	57.00
6+	34.00	56.00
6+	35.00	56.00
6+	36.00	55.00
6+	37.00	54.00
6+	38.00	54.00
6+	39.00	53.00
6+	40.00	52.00
6+	41.00	52.00
6+	42.00	51.00
6+	43.00	50.00
6+	44.00	50.00
6+	45.00	49.00
6+	46.00	48.00
6+	47.00	47.00
6+	48.00	47.00
6+	49.00	46.00
6+	50.00	45.00
6+	51.00	45.00
6+	52.00	44.00
6+	53.00	43.00
6+	54.00	43.00
6+	55.00	42.00
6+	56.00	41.00
6+	57.00	41.00
6+	58.00	40.00
6+	59.00	39.00
6+	60.00	39.00
6+	61.00	38.00
6+	62.00	37.00
6+	63.00	36.00
6+	64.00	36.00
6+	65.00	35.00
6+	66.00	34.00
6+	67.00	34.00
6+	68.00	33.00
6+	69.00	32.00
6+	70.00	32.00
6+	71.00	31.00
6+	199.00	31.00
6-	1.00	79.00
6-	2.00	78.00
6-	3.00	78.00
6-	4.00	77.00
6-	5.00	76.00
6-	6.00	76.00
6-	7.00	75.00
6-	8.00	74.00
6-	9.00	74.00
6-	10.00	73.00
6-	11.00	72.00
6-	12.00	71.00
6-	13.00	71.00
6-	14.00	70.00
6-	15.00	69.00
6-	16.00	69.00
6-	17.00	68.00
6-	18.00	67.00
6-	19.00	67.00
6-	20.00	66.00
6-	21.00	65.00
6-	22.00	65.00
6-	23.00	64.00
6-	24.00	63.00
6-	25.00	63.00
6-	26.00	62.00
6-	27.00	61.00
6-	28.00	60.00
6-	29.00	60.00
6-	30.00	59.00
6-	31.00	58.00
6-	32.00	58.00
6-	33.00	57.00
6-	34.00	56.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	56.00
6-	36.00	55.00
6-	37.00	54.00
6-	38.00	54.00
6-	39.00	53.00
6-	40.00	52.00
6-	41.00	52.00
6-	42.00	51.00
6-	43.00	50.00
6-	44.00	50.00
6-	45.00	49.00
6-	46.00	48.00
6-	47.00	47.00
6-	48.00	47.00
6-	49.00	46.00
6-	50.00	45.00
6-	51.00	45.00
6-	52.00	44.00
6-	53.00	43.00
6-	54.00	43.00
6-	55.00	42.00
6-	56.00	41.00
6-	57.00	41.00
6-	58.00	40.00
6-	59.00	39.00
6-	60.00	39.00
6-	61.00	38.00
6-	62.00	37.00
6-	63.00	36.00
6-	64.00	36.00
6-	65.00	35.00
6-	66.00	34.00
6-	67.00	34.00
6-	68.00	33.00
6-	69.00	32.00
6-	70.00	32.00
6-	71.00	31.00
6-	199.00	31.00
7	1.00	79.00
7	2.00	78.00
7	3.00	78.00
7	4.00	77.00
7	5.00	76.00
7	6.00	76.00
7	7.00	75.00
7	8.00	74.00
7	9.00	74.00
7	10.00	73.00
7	11.00	72.00
7	12.00	71.00
7	13.00	71.00
7	14.00	70.00
7	15.00	69.00
7	16.00	69.00
7	17.00	68.00
7	18.00	67.00
7	19.00	67.00
7	20.00	66.00
7	21.00	65.00
7	22.00	65.00
7	23.00	64.00
7	24.00	63.00
7	25.00	63.00
7	26.00	62.00
7	27.00	61.00
7	28.00	60.00
7	29.00	60.00
7	30.00	59.00
7	31.00	58.00
7	32.00	58.00
7	33.00	57.00
7	34.00	56.00
7	35.00	56.00
7	36.00	55.00
7	37.00	54.00
7	38.00	54.00
7	39.00	53.00
7	40.00	52.00
7	41.00	52.00
7	42.00	51.00
7	43.00	50.00
7	44.00	50.00
7	45.00	49.00
7	46.00	48.00
7	47.00	47.00
7	48.00	47.00
7	49.00	46.00
7	50.00	45.00
7	51.00	45.00
7	52.00	44.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	43.00
7	54.00	43.00
7	55.00	42.00
7	56.00	41.00
7	57.00	41.00
7	58.00	40.00
7	59.00	39.00
7	60.00	39.00
7	61.00	38.00
7	62.00	37.00
7	63.00	36.00
7	64.00	36.00
7	65.00	35.00
7	66.00	34.00
7	67.00	34.00
7	68.00	33.00
7	69.00	32.00
7	70.00	32.00
7	71.00	31.00
7	199.00	31.00
7+	1.00	79.00
7+	2.00	78.00
7+	3.00	78.00
7+	4.00	77.00
7+	5.00	76.00
7+	6.00	76.00
7+	7.00	75.00
7+	8.00	74.00
7+	9.00	74.00
7+	10.00	73.00
7+	11.00	72.00
7+	12.00	71.00
7+	13.00	71.00
7+	14.00	70.00
7+	15.00	69.00
7+	16.00	69.00
7+	17.00	68.00
7+	18.00	67.00
7+	19.00	67.00
7+	20.00	66.00
7+	21.00	65.00
7+	22.00	65.00
7+	23.00	64.00
7+	24.00	63.00
7+	25.00	63.00
7+	26.00	62.00
7+	27.00	61.00
7+	28.00	60.00
7+	29.00	60.00
7+	30.00	59.00
7+	31.00	58.00
7+	32.00	58.00
7+	33.00	57.00
7+	34.00	56.00
7+	35.00	56.00
7+	36.00	55.00
7+	37.00	54.00
7+	38.00	54.00
7+	39.00	53.00
7+	40.00	52.00
7+	41.00	52.00
7+	42.00	51.00
7+	43.00	50.00
7+	44.00	50.00
7+	45.00	49.00
7+	46.00	48.00
7+	47.00	47.00
7+	48.00	47.00
7+	49.00	46.00
7+	50.00	45.00
7+	51.00	45.00
7+	52.00	44.00
7+	53.00	43.00
7+	54.00	43.00
7+	55.00	42.00
7+	56.00	41.00
7+	57.00	41.00
7+	58.00	40.00
7+	59.00	39.00
7+	60.00	39.00
7+	61.00	38.00
7+	62.00	37.00
7+	63.00	36.00
7+	64.00	36.00
7+	65.00	35.00
7+	66.00	34.00
7+	67.00	34.00
7+	68.00	33.00
7+	69.00	32.00
7+	70.00	32.00

Sched: Matrix: DEPR PR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	31.00
7+	199.00	31.00
7-	1.00	79.00
7-	2.00	78.00
7-	3.00	78.00
7-	4.00	77.00
7-	5.00	76.00
7-	6.00	76.00
7-	7.00	75.00
7-	8.00	74.00
7-	9.00	74.00
7-	10.00	73.00
7-	11.00	72.00
7-	12.00	71.00
7-	13.00	71.00
7-	14.00	70.00
7-	15.00	69.00
7-	16.00	69.00
7-	17.00	68.00
7-	18.00	67.00
7-	19.00	67.00
7-	20.00	66.00
7-	21.00	65.00
7-	22.00	65.00
7-	23.00	64.00
7-	24.00	63.00
7-	25.00	63.00
7-	26.00	62.00
7-	27.00	61.00
7-	28.00	60.00
7-	29.00	60.00
7-	30.00	59.00
7-	31.00	58.00
7-	32.00	58.00
7-	33.00	57.00
7-	34.00	56.00
7-	35.00	56.00
7-	36.00	55.00
7-	37.00	54.00
7-	38.00	54.00
7-	39.00	53.00
7-	40.00	52.00
7-	41.00	52.00
7-	42.00	51.00
7-	43.00	50.00
7-	44.00	50.00
7-	45.00	49.00
7-	46.00	48.00
7-	47.00	47.00
7-	48.00	47.00
7-	49.00	46.00
7-	50.00	45.00
7-	51.00	45.00
7-	52.00	44.00
7-	53.00	43.00
7-	54.00	43.00
7-	55.00	42.00
7-	56.00	41.00
7-	57.00	41.00
7-	58.00	40.00
7-	59.00	39.00
7-	60.00	39.00
7-	61.00	38.00
7-	62.00	37.00
7-	63.00	36.00
7-	64.00	36.00
7-	65.00	35.00
7-	66.00	34.00
7-	67.00	34.00
7-	68.00	33.00
7-	69.00	32.00
7-	70.00	32.00
7-	71.00	31.00
7-	199.00	31.00
8	1.00	79.00
8	2.00	78.00
8	3.00	78.00
8	4.00	77.00
8	5.00	76.00
8	6.00	76.00
8	7.00	75.00
8	8.00	74.00
8	9.00	74.00
8	10.00	73.00
8	11.00	72.00
8	12.00	71.00
8	13.00	71.00
8	14.00	70.00
8	15.00	69.00
8	16.00	69.00

Sched: Matrix: DEPR PR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	68.00
8	18.00	67.00
8	19.00	67.00
8	20.00	66.00
8	21.00	65.00
8	22.00	65.00
8	23.00	64.00
8	24.00	63.00
8	25.00	63.00
8	26.00	62.00
8	27.00	61.00
8	28.00	60.00
8	29.00	60.00
8	30.00	59.00
8	31.00	58.00
8	32.00	58.00
8	33.00	57.00
8	34.00	56.00
8	35.00	56.00
8	36.00	55.00
8	37.00	54.00
8	38.00	54.00
8	39.00	53.00
8	40.00	52.00
8	41.00	52.00
8	42.00	51.00
8	43.00	50.00
8	44.00	50.00
8	45.00	49.00
8	46.00	48.00
8	47.00	47.00
8	48.00	47.00
8	49.00	46.00
8	50.00	45.00
8	51.00	45.00
8	52.00	44.00
8	53.00	43.00
8	54.00	43.00
8	55.00	42.00
8	56.00	41.00
8	57.00	41.00
8	58.00	40.00
8	59.00	39.00
8	60.00	39.00
8	61.00	38.00
8	62.00	37.00
8	63.00	36.00
8	64.00	36.00
8	65.00	35.00
8	66.00	34.00
8	67.00	34.00
8	68.00	33.00
8	69.00	32.00
8	70.00	32.00
8	71.00	31.00
8	199.00	31.00
8+	1.00	79.00
8+	2.00	78.00
8+	3.00	78.00
8+	4.00	77.00
8+	5.00	76.00
8+	6.00	76.00
8+	7.00	75.00
8+	8.00	74.00
8+	9.00	74.00
8+	10.00	73.00
8+	11.00	72.00
8+	12.00	71.00
8+	13.00	71.00
8+	14.00	70.00
8+	15.00	69.00
8+	16.00	69.00
8+	17.00	68.00
8+	18.00	67.00
8+	19.00	67.00
8+	20.00	66.00
8+	21.00	65.00
8+	22.00	65.00
8+	23.00	64.00
8+	24.00	63.00
8+	25.00	63.00
8+	26.00	62.00
8+	27.00	61.00
8+	28.00	60.00
8+	29.00	60.00
8+	30.00	59.00
8+	31.00	58.00
8+	32.00	58.00
8+	33.00	57.00
8+	34.00	56.00

Sched:			
Matrix:	DEPR PR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	56.00
8+	36.00	55.00
8+	37.00	54.00
8+	38.00	54.00
8+	39.00	53.00
8+	40.00	52.00
8+	41.00	52.00
8+	42.00	51.00
8+	43.00	50.00
8+	44.00	50.00
8+	45.00	49.00
8+	46.00	48.00
8+	47.00	47.00
8+	48.00	47.00
8+	49.00	46.00
8+	50.00	45.00
8+	51.00	45.00
8+	52.00	44.00
8+	53.00	43.00
8+	54.00	43.00
8+	55.00	42.00
8+	56.00	41.00
8+	57.00	41.00
8+	58.00	40.00
8+	59.00	39.00
8+	60.00	39.00
8+	61.00	38.00
8+	62.00	37.00
8+	63.00	36.00
8+	64.00	36.00
8+	65.00	35.00
8+	66.00	34.00
8+	67.00	34.00
8+	68.00	33.00
8+	69.00	32.00
8+	70.00	32.00
8+	71.00	31.00
8+	199.00	31.00
8-	1.00	79.00
8-	2.00	78.00
8-	3.00	78.00
8-	4.00	77.00
8-	5.00	76.00
8-	6.00	76.00
8-	7.00	75.00
8-	8.00	74.00
8-	9.00	74.00
8-	10.00	73.00
8-	11.00	72.00
8-	12.00	71.00
8-	13.00	71.00
8-	14.00	70.00
8-	15.00	69.00
8-	16.00	69.00
8-	17.00	68.00
8-	18.00	67.00
8-	19.00	67.00
8-	20.00	66.00
8-	21.00	65.00
8-	22.00	65.00
8-	23.00	64.00
8-	24.00	63.00
8-	25.00	63.00
8-	26.00	62.00
8-	27.00	61.00
8-	28.00	60.00
8-	29.00	60.00
8-	30.00	59.00
8-	31.00	58.00
8-	32.00	58.00
8-	33.00	57.00
8-	34.00	56.00
8-	35.00	56.00
8-	36.00	55.00
8-	37.00	54.00
8-	38.00	54.00
8-	39.00	53.00
8-	40.00	52.00
8-	41.00	52.00
8-	42.00	51.00
8-	43.00	50.00
8-	44.00	50.00
8-	45.00	49.00
8-	46.00	48.00
8-	47.00	47.00
8-	48.00	47.00
8-	49.00	46.00
8-	50.00	45.00
8-	51.00	45.00
8-	52.00	44.00

Sched:
Matrix: DEPR PR
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	43.00
8-	54.00	43.00
8-	55.00	42.00
8-	56.00	41.00
8-	57.00	41.00
8-	58.00	40.00
8-	59.00	39.00
8-	60.00	39.00
8-	61.00	38.00
8-	62.00	37.00
8-	63.00	36.00
8-	64.00	36.00
8-	65.00	35.00
8-	66.00	34.00
8-	67.00	34.00
8-	68.00	33.00
8-	69.00	32.00
8-	70.00	32.00
8-	71.00	31.00
8-	199.00	31.00

Matrix Schedule

Sched:

Matrix: DEPR FR

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	91.00
1	2.00	90.00
1	3.00	89.00
1	4.00	88.00
1	5.00	87.00
1	6.00	86.00
1	7.00	85.00
1	8.00	84.00
1	9.00	83.00
1	10.00	82.00
1	11.00	81.00
1	12.00	80.00
1	13.00	79.00
1	14.00	79.00
1	15.00	78.00
1	16.00	77.00
1	17.00	76.00
1	18.00	75.00
1	19.00	74.00
1	20.00	73.00
1	21.00	72.00
1	22.00	71.00
1	23.00	70.00
1	24.00	69.00
1	25.00	68.00
1	26.00	67.00
1	27.00	66.00
1	28.00	65.00
1	29.00	64.00
1	30.00	63.00
1	31.00	62.00
1	32.00	61.00
1	33.00	60.00
1	34.00	59.00
1	35.00	58.00
1	36.00	57.00
1	37.00	56.00
1	38.00	55.00
1	39.00	55.00
1	40.00	54.00
1	41.00	53.00
1	42.00	52.00
1	43.00	51.00
1	44.00	50.00
1	45.00	49.00
1	46.00	48.00
1	47.00	47.00
1	48.00	46.00
1	49.00	45.00
1	50.00	44.00
1	51.00	43.00
1	52.00	43.00
1	53.00	43.00
1	54.00	43.00
1	55.00	43.00
1	56.00	43.00
1	57.00	43.00
1	58.00	43.00
1	59.00	43.00
1	60.00	43.00
1	61.00	43.00
1	62.00	43.00
1	63.00	43.00
1	64.00	43.00
1	65.00	43.00
1	66.00	43.00
1	67.00	43.00
1	68.00	43.00
1	69.00	43.00
1	70.00	43.00
1	71.00	43.00
1	199.00	43.00
1+	1.00	91.00
1+	2.00	90.00
1+	3.00	89.00
1+	4.00	88.00
1+	5.00	87.00
1+	6.00	86.00
1+	7.00	85.00
1+	8.00	84.00
1+	9.00	83.00
1+	10.00	82.00
1+	11.00	81.00
1+	12.00	80.00
1+	13.00	79.00
1+	14.00	79.00
1+	15.00	78.00
1+	16.00	77.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	76.00
1+	18.00	75.00
1+	19.00	74.00
1+	20.00	73.00
1+	21.00	72.00
1+	22.00	71.00
1+	23.00	70.00
1+	24.00	69.00
1+	25.00	68.00
1+	26.00	67.00
1+	27.00	66.00
1+	28.00	65.00
1+	29.00	64.00
1+	30.00	63.00
1+	31.00	62.00
1+	32.00	61.00
1+	33.00	60.00
1+	34.00	59.00
1+	35.00	58.00
1+	36.00	57.00
1+	37.00	56.00
1+	38.00	55.00
1+	39.00	55.00
1+	40.00	54.00
1+	41.00	53.00
1+	42.00	52.00
1+	43.00	51.00
1+	44.00	50.00
1+	45.00	49.00
1+	46.00	48.00
1+	47.00	47.00
1+	48.00	46.00
1+	49.00	45.00
1+	50.00	44.00
1+	51.00	43.00
1+	52.00	43.00
1+	53.00	43.00
1+	54.00	43.00
1+	55.00	43.00
1+	56.00	43.00
1+	57.00	43.00
1+	58.00	43.00
1+	59.00	43.00
1+	60.00	43.00
1+	61.00	43.00
1+	62.00	43.00
1+	63.00	43.00
1+	64.00	43.00
1+	65.00	43.00
1+	66.00	43.00
1+	67.00	43.00
1+	68.00	43.00
1+	69.00	43.00
1+	70.00	43.00
1+	71.00	43.00
1+	199.00	43.00
1-	1.00	91.00
1-	2.00	90.00
1-	3.00	89.00
1-	4.00	88.00
1-	5.00	87.00
1-	6.00	86.00
1-	7.00	85.00
1-	8.00	84.00
1-	9.00	83.00
1-	10.00	82.00
1-	11.00	81.00
1-	12.00	80.00
1-	13.00	79.00
1-	14.00	79.00
1-	15.00	78.00
1-	16.00	77.00
1-	17.00	76.00
1-	18.00	75.00
1-	19.00	74.00
1-	20.00	73.00
1-	21.00	72.00
1-	22.00	71.00
1-	23.00	70.00
1-	24.00	69.00
1-	25.00	68.00
1-	26.00	67.00
1-	27.00	66.00
1-	28.00	65.00
1-	29.00	64.00
1-	30.00	63.00
1-	31.00	62.00
1-	32.00	61.00
1-	33.00	60.00
1-	34.00	59.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	58.00
1-	36.00	57.00
1-	37.00	56.00
1-	38.00	55.00
1-	39.00	55.00
1-	40.00	54.00
1-	41.00	53.00
1-	42.00	52.00
1-	43.00	51.00
1-	44.00	50.00
1-	45.00	49.00
1-	46.00	48.00
1-	47.00	47.00
1-	48.00	46.00
1-	49.00	45.00
1-	50.00	44.00
1-	51.00	43.00
1-	52.00	43.00
1-	53.00	43.00
1-	54.00	43.00
1-	55.00	43.00
1-	56.00	43.00
1-	57.00	43.00
1-	58.00	43.00
1-	59.00	43.00
1-	60.00	43.00
1-	61.00	43.00
1-	62.00	43.00
1-	63.00	43.00
1-	64.00	43.00
1-	65.00	43.00
1-	66.00	43.00
1-	67.00	43.00
1-	68.00	43.00
1-	69.00	43.00
1-	70.00	43.00
1-	71.00	43.00
1-	199.00	43.00
2	1.00	91.00
2	2.00	90.00
2	3.00	89.00
2	4.00	88.00
2	5.00	87.00
2	6.00	86.00
2	7.00	85.00
2	8.00	84.00
2	9.00	83.00
2	10.00	82.00
2	11.00	81.00
2	12.00	80.00
2	13.00	79.00
2	14.00	79.00
2	15.00	78.00
2	16.00	77.00
2	17.00	76.00
2	18.00	75.00
2	19.00	74.00
2	20.00	73.00
2	21.00	72.00
2	22.00	71.00
2	23.00	70.00
2	24.00	69.00
2	25.00	68.00
2	26.00	67.00
2	27.00	66.00
2	28.00	65.00
2	29.00	64.00
2	30.00	63.00
2	31.00	62.00
2	32.00	61.00
2	33.00	60.00
2	34.00	59.00
2	35.00	58.00
2	36.00	57.00
2	37.00	56.00
2	38.00	55.00
2	39.00	55.00
2	40.00	54.00
2	41.00	53.00
2	42.00	52.00
2	43.00	51.00
2	44.00	50.00
2	45.00	49.00
2	46.00	48.00
2	47.00	47.00
2	48.00	46.00
2	49.00	45.00
2	50.00	44.00
2	51.00	43.00
2	52.00	43.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	43.00
2	54.00	43.00
2	55.00	43.00
2	56.00	43.00
2	57.00	43.00
2	58.00	43.00
2	59.00	43.00
2	60.00	43.00
2	61.00	43.00
2	62.00	43.00
2	63.00	43.00
2	64.00	43.00
2	65.00	43.00
2	66.00	43.00
2	67.00	43.00
2	68.00	43.00
2	69.00	43.00
2	70.00	43.00
2	71.00	43.00
2	199.00	43.00
2+	1.00	91.00
2+	2.00	90.00
2+	3.00	89.00
2+	4.00	88.00
2+	5.00	87.00
2+	6.00	86.00
2+	7.00	85.00
2+	8.00	84.00
2+	9.00	83.00
2+	10.00	82.00
2+	11.00	81.00
2+	12.00	80.00
2+	13.00	79.00
2+	14.00	79.00
2+	15.00	78.00
2+	16.00	77.00
2+	17.00	76.00
2+	18.00	75.00
2+	19.00	74.00
2+	20.00	73.00
2+	21.00	72.00
2+	22.00	71.00
2+	23.00	70.00
2+	24.00	69.00
2+	25.00	68.00
2+	26.00	67.00
2+	27.00	66.00
2+	28.00	65.00
2+	29.00	64.00
2+	30.00	63.00
2+	31.00	62.00
2+	32.00	61.00
2+	33.00	60.00
2+	34.00	59.00
2+	35.00	58.00
2+	36.00	57.00
2+	37.00	56.00
2+	38.00	55.00
2+	39.00	55.00
2+	40.00	54.00
2+	41.00	53.00
2+	42.00	52.00
2+	43.00	51.00
2+	44.00	50.00
2+	45.00	49.00
2+	46.00	48.00
2+	47.00	47.00
2+	48.00	46.00
2+	49.00	45.00
2+	50.00	44.00
2+	51.00	43.00
2+	52.00	43.00
2+	53.00	43.00
2+	54.00	43.00
2+	55.00	43.00
2+	56.00	43.00
2+	57.00	43.00
2+	58.00	43.00
2+	59.00	43.00
2+	60.00	43.00
2+	61.00	43.00
2+	62.00	43.00
2+	63.00	43.00
2+	64.00	43.00
2+	65.00	43.00
2+	66.00	43.00
2+	67.00	43.00
2+	68.00	43.00
2+	69.00	43.00
2+	70.00	43.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	43.00
2+	199.00	43.00
2-	1.00	91.00
2-	2.00	90.00
2-	3.00	89.00
2-	4.00	88.00
2-	5.00	87.00
2-	6.00	86.00
2-	7.00	85.00
2-	8.00	84.00
2-	9.00	83.00
2-	10.00	82.00
2-	11.00	81.00
2-	12.00	80.00
2-	13.00	79.00
2-	14.00	79.00
2-	15.00	78.00
2-	16.00	77.00
2-	17.00	76.00
2-	18.00	75.00
2-	19.00	74.00
2-	20.00	73.00
2-	21.00	72.00
2-	22.00	71.00
2-	23.00	70.00
2-	24.00	69.00
2-	25.00	68.00
2-	26.00	67.00
2-	27.00	66.00
2-	28.00	65.00
2-	29.00	64.00
2-	30.00	63.00
2-	31.00	62.00
2-	32.00	61.00
2-	33.00	60.00
2-	34.00	59.00
2-	35.00	58.00
2-	36.00	57.00
2-	37.00	56.00
2-	38.00	55.00
2-	39.00	55.00
2-	40.00	54.00
2-	41.00	53.00
2-	42.00	52.00
2-	43.00	51.00
2-	44.00	50.00
2-	45.00	49.00
2-	46.00	48.00
2-	47.00	47.00
2-	48.00	46.00
2-	49.00	45.00
2-	50.00	44.00
2-	51.00	43.00
2-	52.00	43.00
2-	53.00	43.00
2-	54.00	43.00
2-	55.00	43.00
2-	56.00	43.00
2-	57.00	43.00
2-	58.00	43.00
2-	59.00	43.00
2-	60.00	43.00
2-	61.00	43.00
2-	62.00	43.00
2-	63.00	43.00
2-	64.00	43.00
2-	65.00	43.00
2-	66.00	43.00
2-	67.00	43.00
2-	68.00	43.00
2-	69.00	43.00
2-	70.00	43.00
2-	71.00	43.00
2-	199.00	43.00
3	1.00	91.00
3	2.00	90.00
3	3.00	89.00
3	4.00	88.00
3	5.00	88.00
3	6.00	87.00
3	7.00	86.00
3	8.00	85.00
3	9.00	84.00
3	10.00	83.00
3	11.00	82.00
3	12.00	81.00
3	13.00	81.00
3	14.00	80.00
3	15.00	79.00
3	16.00	78.00

Sched:

Matrix: DEPR FR X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	77.00
3	18.00	76.00
3	19.00	75.00
3	20.00	74.00
3	21.00	74.00
3	22.00	73.00
3	23.00	72.00
3	24.00	71.00
3	25.00	70.00
3	26.00	69.00
3	27.00	68.00
3	28.00	67.00
3	29.00	67.00
3	30.00	66.00
3	31.00	65.00
3	32.00	64.00
3	33.00	63.00
3	34.00	62.00
3	35.00	61.00
3	36.00	60.00
3	37.00	60.00
3	38.00	59.00
3	39.00	58.00
3	40.00	57.00
3	41.00	56.00
3	42.00	55.00
3	43.00	54.00
3	44.00	53.00
3	45.00	53.00
3	46.00	52.00
3	47.00	51.00
3	48.00	50.00
3	49.00	49.00
3	50.00	48.00
3	51.00	47.00
3	52.00	46.00
3	53.00	46.00
3	54.00	45.00
3	55.00	44.00
3	56.00	43.00
3	57.00	43.00
3	58.00	43.00
3	59.00	43.00
3	60.00	43.00
3	61.00	43.00
3	62.00	43.00
3	63.00	43.00
3	64.00	43.00
3	65.00	43.00
3	66.00	43.00
3	67.00	43.00
3	68.00	43.00
3	69.00	43.00
3	70.00	43.00
3	71.00	43.00
3	199.00	43.00
3+	1.00	91.00
3+	2.00	90.00
3+	3.00	89.00
3+	4.00	88.00
3+	5.00	88.00
3+	6.00	87.00
3+	7.00	86.00
3+	8.00	85.00
3+	9.00	84.00
3+	10.00	83.00
3+	11.00	82.00
3+	12.00	81.00
3+	13.00	81.00
3+	14.00	80.00
3+	15.00	79.00
3+	16.00	78.00
3+	17.00	77.00
3+	18.00	76.00
3+	19.00	75.00
3+	20.00	74.00
3+	21.00	74.00
3+	22.00	73.00
3+	23.00	72.00
3+	24.00	71.00
3+	25.00	70.00
3+	26.00	69.00
3+	27.00	68.00
3+	28.00	67.00
3+	29.00	67.00
3+	30.00	66.00
3+	31.00	65.00
3+	32.00	64.00
3+	33.00	63.00
3+	34.00	62.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	61.00
3+	36.00	60.00
3+	37.00	60.00
3+	38.00	59.00
3+	39.00	58.00
3+	40.00	57.00
3+	41.00	56.00
3+	42.00	55.00
3+	43.00	54.00
3+	44.00	53.00
3+	45.00	53.00
3+	46.00	52.00
3+	47.00	51.00
3+	48.00	50.00
3+	49.00	49.00
3+	50.00	48.00
3+	51.00	47.00
3+	52.00	46.00
3+	53.00	46.00
3+	54.00	45.00
3+	55.00	44.00
3+	56.00	43.00
3+	57.00	43.00
3+	58.00	43.00
3+	59.00	43.00
3+	60.00	43.00
3+	61.00	43.00
3+	62.00	43.00
3+	63.00	43.00
3+	64.00	43.00
3+	65.00	43.00
3+	66.00	43.00
3+	67.00	43.00
3+	68.00	43.00
3+	69.00	43.00
3+	70.00	43.00
3+	71.00	43.00
3+	199.00	43.00
3-	1.00	91.00
3-	2.00	90.00
3-	3.00	89.00
3-	4.00	88.00
3-	5.00	88.00
3-	6.00	87.00
3-	7.00	86.00
3-	8.00	85.00
3-	9.00	84.00
3-	10.00	83.00
3-	11.00	82.00
3-	12.00	81.00
3-	13.00	81.00
3-	14.00	80.00
3-	15.00	79.00
3-	16.00	78.00
3-	17.00	77.00
3-	18.00	76.00
3-	19.00	75.00
3-	20.00	74.00
3-	21.00	74.00
3-	22.00	73.00
3-	23.00	72.00
3-	24.00	71.00
3-	25.00	70.00
3-	26.00	69.00
3-	27.00	68.00
3-	28.00	67.00
3-	29.00	67.00
3-	30.00	66.00
3-	31.00	65.00
3-	32.00	64.00
3-	33.00	63.00
3-	34.00	62.00
3-	35.00	61.00
3-	36.00	60.00
3-	37.00	60.00
3-	38.00	59.00
3-	39.00	58.00
3-	40.00	57.00
3-	41.00	56.00
3-	42.00	55.00
3-	43.00	54.00
3-	44.00	53.00
3-	45.00	53.00
3-	46.00	52.00
3-	47.00	51.00
3-	48.00	50.00
3-	49.00	49.00
3-	50.00	48.00
3-	51.00	47.00
3-	52.00	46.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	46.00
3-	54.00	45.00
3-	55.00	44.00
3-	56.00	43.00
3-	57.00	43.00
3-	58.00	43.00
3-	59.00	43.00
3-	60.00	43.00
3-	61.00	43.00
3-	62.00	43.00
3-	63.00	43.00
3-	64.00	43.00
3-	65.00	43.00
3-	66.00	43.00
3-	67.00	43.00
3-	68.00	43.00
3-	69.00	43.00
3-	70.00	43.00
3-	71.00	43.00
3-	199.00	43.00
4	1.00	91.00
4	2.00	90.00
4	3.00	89.00
4	4.00	89.00
4	5.00	88.00
4	6.00	87.00
4	7.00	86.00
4	8.00	85.00
4	9.00	85.00
4	10.00	84.00
4	11.00	83.00
4	12.00	82.00
4	13.00	81.00
4	14.00	81.00
4	15.00	80.00
4	16.00	79.00
4	17.00	78.00
4	18.00	77.00
4	19.00	77.00
4	20.00	76.00
4	21.00	75.00
4	22.00	74.00
4	23.00	73.00
4	24.00	73.00
4	25.00	72.00
4	26.00	71.00
4	27.00	70.00
4	28.00	69.00
4	29.00	69.00
4	30.00	68.00
4	31.00	67.00
4	32.00	66.00
4	33.00	65.00
4	34.00	65.00
4	35.00	64.00
4	36.00	63.00
4	37.00	62.00
4	38.00	61.00
4	39.00	61.00
4	40.00	60.00
4	41.00	59.00
4	42.00	58.00
4	43.00	57.00
4	44.00	57.00
4	45.00	56.00
4	46.00	55.00
4	47.00	54.00
4	48.00	53.00
4	49.00	53.00
4	50.00	52.00
4	51.00	51.00
4	52.00	50.00
4	53.00	49.00
4	54.00	49.00
4	55.00	48.00
4	56.00	47.00
4	57.00	46.00
4	58.00	45.00
4	59.00	45.00
4	60.00	44.00
4	61.00	43.00
4	62.00	43.00
4	63.00	43.00
4	64.00	43.00
4	65.00	43.00
4	66.00	43.00
4	67.00	43.00
4	68.00	43.00
4	69.00	43.00
4	70.00	43.00

Sched:
Matrix: DEPR FR
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	43.00
4	199.00	43.00
4+	1.00	91.00
4+	2.00	90.00
4+	3.00	89.00
4+	4.00	89.00
4+	5.00	88.00
4+	6.00	87.00
4+	7.00	86.00
4+	8.00	85.00
4+	9.00	85.00
4+	10.00	84.00
4+	11.00	83.00
4+	12.00	82.00
4+	13.00	81.00
4+	14.00	81.00
4+	15.00	80.00
4+	16.00	79.00
4+	17.00	78.00
4+	18.00	77.00
4+	19.00	77.00
4+	20.00	76.00
4+	21.00	75.00
4+	22.00	74.00
4+	23.00	73.00
4+	24.00	73.00
4+	25.00	72.00
4+	26.00	71.00
4+	27.00	70.00
4+	28.00	69.00
4+	29.00	69.00
4+	30.00	68.00
4+	31.00	67.00
4+	32.00	66.00
4+	33.00	65.00
4+	34.00	65.00
4+	35.00	64.00
4+	36.00	63.00
4+	37.00	62.00
4+	38.00	61.00
4+	39.00	61.00
4+	40.00	60.00
4+	41.00	59.00
4+	42.00	58.00
4+	43.00	57.00
4+	44.00	57.00
4+	45.00	56.00
4+	46.00	55.00
4+	47.00	54.00
4+	48.00	53.00
4+	49.00	53.00
4+	50.00	52.00
4+	51.00	51.00
4+	52.00	50.00
4+	53.00	49.00
4+	54.00	49.00
4+	55.00	48.00
4+	56.00	47.00
4+	57.00	46.00
4+	58.00	45.00
4+	59.00	45.00
4+	60.00	44.00
4+	61.00	43.00
4+	62.00	43.00
4+	63.00	43.00
4+	64.00	43.00
4+	65.00	43.00
4+	66.00	43.00
4+	67.00	43.00
4+	68.00	43.00
4+	69.00	43.00
4+	70.00	43.00
4+	71.00	43.00
4+	199.00	43.00
4-	1.00	91.00
4-	2.00	90.00
4-	3.00	89.00
4-	4.00	89.00
4-	5.00	88.00
4-	6.00	87.00
4-	7.00	86.00
4-	8.00	85.00
4-	9.00	85.00
4-	10.00	84.00
4-	11.00	83.00
4-	12.00	82.00
4-	13.00	81.00
4-	14.00	81.00
4-	15.00	80.00
4-	16.00	79.00

Sched:
Matrix: DEPR FR X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	78.00
4-	18.00	77.00
4-	19.00	77.00
4-	20.00	76.00
4-	21.00	75.00
4-	22.00	74.00
4-	23.00	73.00
4-	24.00	73.00
4-	25.00	72.00
4-	26.00	71.00
4-	27.00	70.00
4-	28.00	69.00
4-	29.00	69.00
4-	30.00	68.00
4-	31.00	67.00
4-	32.00	66.00
4-	33.00	65.00
4-	34.00	65.00
4-	35.00	64.00
4-	36.00	63.00
4-	37.00	62.00
4-	38.00	61.00
4-	39.00	61.00
4-	40.00	60.00
4-	41.00	59.00
4-	42.00	58.00
4-	43.00	57.00
4-	44.00	57.00
4-	45.00	56.00
4-	46.00	55.00
4-	47.00	54.00
4-	48.00	53.00
4-	49.00	53.00
4-	50.00	52.00
4-	51.00	51.00
4-	52.00	50.00
4-	53.00	49.00
4-	54.00	49.00
4-	55.00	48.00
4-	56.00	47.00
4-	57.00	46.00
4-	58.00	45.00
4-	59.00	45.00
4-	60.00	44.00
4-	61.00	43.00
4-	62.00	43.00
4-	63.00	43.00
4-	64.00	43.00
4-	65.00	43.00
4-	66.00	43.00
4-	67.00	43.00
4-	68.00	43.00
4-	69.00	43.00
4-	70.00	43.00
4-	71.00	43.00
4-	199.00	43.00
5	1.00	91.00
5	2.00	90.00
5	3.00	90.00
5	4.00	89.00
5	5.00	88.00
5	6.00	87.00
5	7.00	87.00
5	8.00	86.00
5	9.00	85.00
5	10.00	84.00
5	11.00	84.00
5	12.00	83.00
5	13.00	82.00
5	14.00	81.00
5	15.00	81.00
5	16.00	80.00
5	17.00	79.00
5	18.00	78.00
5	19.00	78.00
5	20.00	77.00
5	21.00	76.00
5	22.00	75.00
5	23.00	75.00
5	24.00	74.00
5	25.00	73.00
5	26.00	73.00
5	27.00	72.00
5	28.00	71.00
5	29.00	70.00
5	30.00	70.00
5	31.00	69.00
5	32.00	68.00
5	33.00	67.00
5	34.00	67.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	66.00
5	36.00	65.00
5	37.00	64.00
5	38.00	64.00
5	39.00	63.00
5	40.00	62.00
5	41.00	61.00
5	42.00	61.00
5	43.00	60.00
5	44.00	59.00
5	45.00	59.00
5	46.00	58.00
5	47.00	57.00
5	48.00	56.00
5	49.00	56.00
5	50.00	55.00
5	51.00	54.00
5	52.00	53.00
5	53.00	53.00
5	54.00	52.00
5	55.00	51.00
5	56.00	50.00
5	57.00	50.00
5	58.00	49.00
5	59.00	48.00
5	60.00	47.00
5	61.00	47.00
5	62.00	46.00
5	63.00	45.00
5	64.00	44.00
5	65.00	44.00
5	66.00	43.00
5	67.00	43.00
5	68.00	43.00
5	69.00	43.00
5	70.00	43.00
5	71.00	43.00
5	199.00	43.00
5+	1.00	91.00
5+	2.00	90.00
5+	3.00	90.00
5+	4.00	89.00
5+	5.00	88.00
5+	6.00	87.00
5+	7.00	87.00
5+	8.00	86.00
5+	9.00	85.00
5+	10.00	84.00
5+	11.00	84.00
5+	12.00	83.00
5+	13.00	82.00
5+	14.00	81.00
5+	15.00	81.00
5+	16.00	80.00
5+	17.00	79.00
5+	18.00	78.00
5+	19.00	78.00
5+	20.00	77.00
5+	21.00	76.00
5+	22.00	75.00
5+	23.00	75.00
5+	24.00	74.00
5+	25.00	73.00
5+	26.00	73.00
5+	27.00	72.00
5+	28.00	71.00
5+	29.00	70.00
5+	30.00	70.00
5+	31.00	69.00
5+	32.00	68.00
5+	33.00	67.00
5+	34.00	67.00
5+	35.00	66.00
5+	36.00	65.00
5+	37.00	64.00
5+	38.00	64.00
5+	39.00	63.00
5+	40.00	62.00
5+	41.00	61.00
5+	42.00	61.00
5+	43.00	60.00
5+	44.00	59.00
5+	45.00	59.00
5+	46.00	58.00
5+	47.00	57.00
5+	48.00	56.00
5+	49.00	56.00
5+	50.00	55.00
5+	51.00	54.00
5+	52.00	53.00

Sched: Matrix: DEPR FR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	53.00
5+	54.00	52.00
5+	55.00	51.00
5+	56.00	50.00
5+	57.00	50.00
5+	58.00	49.00
5+	59.00	48.00
5+	60.00	47.00
5+	61.00	47.00
5+	62.00	46.00
5+	63.00	45.00
5+	64.00	44.00
5+	65.00	44.00
5+	66.00	43.00
5+	67.00	43.00
5+	68.00	43.00
5+	69.00	43.00
5+	70.00	43.00
5+	71.00	43.00
5+	199.00	43.00
5-	1.00	91.00
5-	2.00	90.00
5-	3.00	90.00
5-	4.00	89.00
5-	5.00	88.00
5-	6.00	87.00
5-	7.00	87.00
5-	8.00	86.00
5-	9.00	85.00
5-	10.00	84.00
5-	11.00	84.00
5-	12.00	83.00
5-	13.00	82.00
5-	14.00	81.00
5-	15.00	81.00
5-	16.00	80.00
5-	17.00	79.00
5-	18.00	78.00
5-	19.00	78.00
5-	20.00	77.00
5-	21.00	76.00
5-	22.00	75.00
5-	23.00	75.00
5-	24.00	74.00
5-	25.00	73.00
5-	26.00	73.00
5-	27.00	72.00
5-	28.00	71.00
5-	29.00	70.00
5-	30.00	70.00
5-	31.00	69.00
5-	32.00	68.00
5-	33.00	67.00
5-	34.00	67.00
5-	35.00	66.00
5-	36.00	65.00
5-	37.00	64.00
5-	38.00	64.00
5-	39.00	63.00
5-	40.00	62.00
5-	41.00	61.00
5-	42.00	61.00
5-	43.00	60.00
5-	44.00	59.00
5-	45.00	59.00
5-	46.00	58.00
5-	47.00	57.00
5-	48.00	56.00
5-	49.00	56.00
5-	50.00	55.00
5-	51.00	54.00
5-	52.00	53.00
5-	53.00	53.00
5-	54.00	52.00
5-	55.00	51.00
5-	56.00	50.00
5-	57.00	50.00
5-	58.00	49.00
5-	59.00	48.00
5-	60.00	47.00
5-	61.00	47.00
5-	62.00	46.00
5-	63.00	45.00
5-	64.00	44.00
5-	65.00	44.00
5-	66.00	43.00
5-	67.00	43.00
5-	68.00	43.00
5-	69.00	43.00
5-	70.00	43.00

Sched:
Matrix: DEPR FR X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	43.00
5-	199.00	43.00
6	1.00	91.00
6	2.00	90.00
6	3.00	90.00
6	4.00	89.00
6	5.00	88.00
6	6.00	88.00
6	7.00	87.00
6	8.00	86.00
6	9.00	86.00
6	10.00	85.00
6	11.00	84.00
6	12.00	83.00
6	13.00	83.00
6	14.00	82.00
6	15.00	81.00
6	16.00	81.00
6	17.00	80.00
6	18.00	79.00
6	19.00	79.00
6	20.00	78.00
6	21.00	77.00
6	22.00	77.00
6	23.00	76.00
6	24.00	75.00
6	25.00	75.00
6	26.00	74.00
6	27.00	73.00
6	28.00	72.00
6	29.00	72.00
6	30.00	71.00
6	31.00	70.00
6	32.00	70.00
6	33.00	69.00
6	34.00	68.00
6	35.00	68.00
6	36.00	67.00
6	37.00	66.00
6	38.00	66.00
6	39.00	65.00
6	40.00	64.00
6	41.00	64.00
6	42.00	63.00
6	43.00	62.00
6	44.00	62.00
6	45.00	61.00
6	46.00	60.00
6	47.00	59.00
6	48.00	59.00
6	49.00	58.00
6	50.00	57.00
6	51.00	57.00
6	52.00	56.00
6	53.00	55.00
6	54.00	55.00
6	55.00	54.00
6	56.00	53.00
6	57.00	53.00
6	58.00	52.00
6	59.00	51.00
6	60.00	51.00
6	61.00	50.00
6	62.00	49.00
6	63.00	48.00
6	64.00	48.00
6	65.00	47.00
6	66.00	46.00
6	67.00	46.00
6	68.00	45.00
6	69.00	44.00
6	70.00	44.00
6	71.00	43.00
6	199.00	43.00
6+	1.00	91.00
6+	2.00	90.00
6+	3.00	90.00
6+	4.00	89.00
6+	5.00	88.00
6+	6.00	88.00
6+	7.00	87.00
6+	8.00	86.00
6+	9.00	86.00
6+	10.00	85.00
6+	11.00	84.00
6+	12.00	83.00
6+	13.00	83.00
6+	14.00	82.00
6+	15.00	81.00
6+	16.00	81.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	80.00
6+	18.00	79.00
6+	19.00	79.00
6+	20.00	78.00
6+	21.00	77.00
6+	22.00	77.00
6+	23.00	76.00
6+	24.00	75.00
6+	25.00	75.00
6+	26.00	74.00
6+	27.00	73.00
6+	28.00	72.00
6+	29.00	72.00
6+	30.00	71.00
6+	31.00	70.00
6+	32.00	70.00
6+	33.00	69.00
6+	34.00	68.00
6+	35.00	68.00
6+	36.00	67.00
6+	37.00	66.00
6+	38.00	66.00
6+	39.00	65.00
6+	40.00	64.00
6+	41.00	64.00
6+	42.00	63.00
6+	43.00	62.00
6+	44.00	62.00
6+	45.00	61.00
6+	46.00	60.00
6+	47.00	59.00
6+	48.00	59.00
6+	49.00	58.00
6+	50.00	57.00
6+	51.00	57.00
6+	52.00	56.00
6+	53.00	55.00
6+	54.00	55.00
6+	55.00	54.00
6+	56.00	53.00
6+	57.00	53.00
6+	58.00	52.00
6+	59.00	51.00
6+	60.00	51.00
6+	61.00	50.00
6+	62.00	49.00
6+	63.00	48.00
6+	64.00	48.00
6+	65.00	47.00
6+	66.00	46.00
6+	67.00	46.00
6+	68.00	45.00
6+	69.00	44.00
6+	70.00	44.00
6+	71.00	43.00
6+	199.00	43.00
6-	1.00	91.00
6-	2.00	90.00
6-	3.00	90.00
6-	4.00	89.00
6-	5.00	88.00
6-	6.00	88.00
6-	7.00	87.00
6-	8.00	86.00
6-	9.00	86.00
6-	10.00	85.00
6-	11.00	84.00
6-	12.00	83.00
6-	13.00	83.00
6-	14.00	82.00
6-	15.00	81.00
6-	16.00	81.00
6-	17.00	80.00
6-	18.00	79.00
6-	19.00	79.00
6-	20.00	78.00
6-	21.00	77.00
6-	22.00	77.00
6-	23.00	76.00
6-	24.00	75.00
6-	25.00	75.00
6-	26.00	74.00
6-	27.00	73.00
6-	28.00	72.00
6-	29.00	72.00
6-	30.00	71.00
6-	31.00	70.00
6-	32.00	70.00
6-	33.00	69.00
6-	34.00	68.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	68.00
6-	36.00	67.00
6-	37.00	66.00
6-	38.00	66.00
6-	39.00	65.00
6-	40.00	64.00
6-	41.00	64.00
6-	42.00	63.00
6-	43.00	62.00
6-	44.00	62.00
6-	45.00	61.00
6-	46.00	60.00
6-	47.00	59.00
6-	48.00	59.00
6-	49.00	58.00
6-	50.00	57.00
6-	51.00	57.00
6-	52.00	56.00
6-	53.00	55.00
6-	54.00	55.00
6-	55.00	54.00
6-	56.00	53.00
6-	57.00	53.00
6-	58.00	52.00
6-	59.00	51.00
6-	60.00	51.00
6-	61.00	50.00
6-	62.00	49.00
6-	63.00	48.00
6-	64.00	48.00
6-	65.00	47.00
6-	66.00	46.00
6-	67.00	46.00
6-	68.00	45.00
6-	69.00	44.00
6-	70.00	44.00
6-	71.00	43.00
6-	199.00	43.00
7	1.00	91.00
7	2.00	90.00
7	3.00	90.00
7	4.00	89.00
7	5.00	88.00
7	6.00	88.00
7	7.00	87.00
7	8.00	86.00
7	9.00	86.00
7	10.00	85.00
7	11.00	84.00
7	12.00	83.00
7	13.00	83.00
7	14.00	82.00
7	15.00	81.00
7	16.00	81.00
7	17.00	80.00
7	18.00	79.00
7	19.00	79.00
7	20.00	78.00
7	21.00	77.00
7	22.00	77.00
7	23.00	76.00
7	24.00	75.00
7	25.00	75.00
7	26.00	74.00
7	27.00	73.00
7	28.00	72.00
7	29.00	72.00
7	30.00	71.00
7	31.00	70.00
7	32.00	70.00
7	33.00	69.00
7	34.00	68.00
7	35.00	68.00
7	36.00	67.00
7	37.00	66.00
7	38.00	66.00
7	39.00	65.00
7	40.00	64.00
7	41.00	64.00
7	42.00	63.00
7	43.00	62.00
7	44.00	62.00
7	45.00	61.00
7	46.00	60.00
7	47.00	59.00
7	48.00	59.00
7	49.00	58.00
7	50.00	57.00
7	51.00	57.00
7	52.00	56.00

Sched: Matrix: DEPR FR X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	55.00
7	54.00	55.00
7	55.00	54.00
7	56.00	53.00
7	57.00	53.00
7	58.00	52.00
7	59.00	51.00
7	60.00	51.00
7	61.00	50.00
7	62.00	49.00
7	63.00	48.00
7	64.00	48.00
7	65.00	47.00
7	66.00	46.00
7	67.00	46.00
7	68.00	45.00
7	69.00	44.00
7	70.00	44.00
7	71.00	43.00
7	199.00	43.00
7+	1.00	91.00
7+	2.00	90.00
7+	3.00	90.00
7+	4.00	89.00
7+	5.00	88.00
7+	6.00	88.00
7+	7.00	87.00
7+	8.00	86.00
7+	9.00	86.00
7+	10.00	85.00
7+	11.00	84.00
7+	12.00	83.00
7+	13.00	83.00
7+	14.00	82.00
7+	15.00	81.00
7+	16.00	81.00
7+	17.00	80.00
7+	18.00	79.00
7+	19.00	79.00
7+	20.00	78.00
7+	21.00	77.00
7+	22.00	77.00
7+	23.00	76.00
7+	24.00	75.00
7+	25.00	75.00
7+	26.00	74.00
7+	27.00	73.00
7+	28.00	72.00
7+	29.00	72.00
7+	30.00	71.00
7+	31.00	70.00
7+	32.00	70.00
7+	33.00	69.00
7+	34.00	68.00
7+	35.00	68.00
7+	36.00	67.00
7+	37.00	66.00
7+	38.00	66.00
7+	39.00	65.00
7+	40.00	64.00
7+	41.00	64.00
7+	42.00	63.00
7+	43.00	62.00
7+	44.00	62.00
7+	45.00	61.00
7+	46.00	60.00
7+	47.00	59.00
7+	48.00	59.00
7+	49.00	58.00
7+	50.00	57.00
7+	51.00	57.00
7+	52.00	56.00
7+	53.00	55.00
7+	54.00	55.00
7+	55.00	54.00
7+	56.00	53.00
7+	57.00	53.00
7+	58.00	52.00
7+	59.00	51.00
7+	60.00	51.00
7+	61.00	50.00
7+	62.00	49.00
7+	63.00	48.00
7+	64.00	48.00
7+	65.00	47.00
7+	66.00	46.00
7+	67.00	46.00
7+	68.00	45.00
7+	69.00	44.00
7+	70.00	44.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	43.00
7+	199.00	43.00
7-	1.00	91.00
7-	2.00	90.00
7-	3.00	90.00
7-	4.00	89.00
7-	5.00	88.00
7-	6.00	88.00
7-	7.00	87.00
7-	8.00	86.00
7-	9.00	86.00
7-	10.00	85.00
7-	11.00	84.00
7-	12.00	83.00
7-	13.00	83.00
7-	14.00	82.00
7-	15.00	81.00
7-	16.00	81.00
7-	17.00	80.00
7-	18.00	79.00
7-	19.00	79.00
7-	20.00	78.00
7-	21.00	77.00
7-	22.00	77.00
7-	23.00	76.00
7-	24.00	75.00
7-	25.00	75.00
7-	26.00	74.00
7-	27.00	73.00
7-	28.00	72.00
7-	29.00	72.00
7-	30.00	71.00
7-	31.00	70.00
7-	32.00	70.00
7-	33.00	69.00
7-	34.00	68.00
7-	35.00	68.00
7-	36.00	67.00
7-	37.00	66.00
7-	38.00	66.00
7-	39.00	65.00
7-	40.00	64.00
7-	41.00	64.00
7-	42.00	63.00
7-	43.00	62.00
7-	44.00	62.00
7-	45.00	61.00
7-	46.00	60.00
7-	47.00	59.00
7-	48.00	59.00
7-	49.00	58.00
7-	50.00	57.00
7-	51.00	57.00
7-	52.00	56.00
7-	53.00	55.00
7-	54.00	55.00
7-	55.00	54.00
7-	56.00	53.00
7-	57.00	53.00
7-	58.00	52.00
7-	59.00	51.00
7-	60.00	51.00
7-	61.00	50.00
7-	62.00	49.00
7-	63.00	48.00
7-	64.00	48.00
7-	65.00	47.00
7-	66.00	46.00
7-	67.00	46.00
7-	68.00	45.00
7-	69.00	44.00
7-	70.00	44.00
7-	71.00	43.00
7-	199.00	43.00
8	1.00	91.00
8	2.00	90.00
8	3.00	90.00
8	4.00	89.00
8	5.00	88.00
8	6.00	88.00
8	7.00	87.00
8	8.00	86.00
8	9.00	86.00
8	10.00	85.00
8	11.00	84.00
8	12.00	83.00
8	13.00	83.00
8	14.00	82.00
8	15.00	81.00
8	16.00	81.00

Sched:			
Matrix:	DEPR FR	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	80.00
8	18.00	79.00
8	19.00	79.00
8	20.00	78.00
8	21.00	77.00
8	22.00	77.00
8	23.00	76.00
8	24.00	75.00
8	25.00	75.00
8	26.00	74.00
8	27.00	73.00
8	28.00	72.00
8	29.00	72.00
8	30.00	71.00
8	31.00	70.00
8	32.00	70.00
8	33.00	69.00
8	34.00	68.00
8	35.00	68.00
8	36.00	67.00
8	37.00	66.00
8	38.00	66.00
8	39.00	65.00
8	40.00	64.00
8	41.00	64.00
8	42.00	63.00
8	43.00	62.00
8	44.00	62.00
8	45.00	61.00
8	46.00	60.00
8	47.00	59.00
8	48.00	59.00
8	49.00	58.00
8	50.00	57.00
8	51.00	57.00
8	52.00	56.00
8	53.00	55.00
8	54.00	55.00
8	55.00	54.00
8	56.00	53.00
8	57.00	53.00
8	58.00	52.00
8	59.00	51.00
8	60.00	51.00
8	61.00	50.00
8	62.00	49.00
8	63.00	48.00
8	64.00	48.00
8	65.00	47.00
8	66.00	46.00
8	67.00	46.00
8	68.00	45.00
8	69.00	44.00
8	70.00	44.00
8	71.00	43.00
8	199.00	43.00
8+	1.00	91.00
8+	2.00	90.00
8+	3.00	90.00
8+	4.00	89.00
8+	5.00	88.00
8+	6.00	88.00
8+	7.00	87.00
8+	8.00	86.00
8+	9.00	86.00
8+	10.00	85.00
8+	11.00	84.00
8+	12.00	83.00
8+	13.00	83.00
8+	14.00	82.00
8+	15.00	81.00
8+	16.00	81.00
8+	17.00	80.00
8+	18.00	79.00
8+	19.00	79.00
8+	20.00	78.00
8+	21.00	77.00
8+	22.00	77.00
8+	23.00	76.00
8+	24.00	75.00
8+	25.00	75.00
8+	26.00	74.00
8+	27.00	73.00
8+	28.00	72.00
8+	29.00	72.00
8+	30.00	71.00
8+	31.00	70.00
8+	32.00	70.00
8+	33.00	69.00
8+	34.00	68.00

Sched:

Matrix: DEPR FR X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	68.00
8+	36.00	67.00
8+	37.00	66.00
8+	38.00	66.00
8+	39.00	65.00
8+	40.00	64.00
8+	41.00	64.00
8+	42.00	63.00
8+	43.00	62.00
8+	44.00	62.00
8+	45.00	61.00
8+	46.00	60.00
8+	47.00	59.00
8+	48.00	59.00
8+	49.00	58.00
8+	50.00	57.00
8+	51.00	57.00
8+	52.00	56.00
8+	53.00	55.00
8+	54.00	55.00
8+	55.00	54.00
8+	56.00	53.00
8+	57.00	53.00
8+	58.00	52.00
8+	59.00	51.00
8+	60.00	51.00
8+	61.00	50.00
8+	62.00	49.00
8+	63.00	48.00
8+	64.00	48.00
8+	65.00	47.00
8+	66.00	46.00
8+	67.00	46.00
8+	68.00	45.00
8+	69.00	44.00
8+	70.00	44.00
8+	71.00	43.00
8+	199.00	43.00
8-	1.00	91.00
8-	2.00	90.00
8-	3.00	90.00
8-	4.00	89.00
8-	5.00	88.00
8-	6.00	88.00
8-	7.00	87.00
8-	8.00	86.00
8-	9.00	86.00
8-	10.00	85.00
8-	11.00	84.00
8-	12.00	83.00
8-	13.00	83.00
8-	14.00	82.00
8-	15.00	81.00
8-	16.00	81.00
8-	17.00	80.00
8-	18.00	79.00
8-	19.00	79.00
8-	20.00	78.00
8-	21.00	77.00
8-	22.00	77.00
8-	23.00	76.00
8-	24.00	75.00
8-	25.00	75.00
8-	26.00	74.00
8-	27.00	73.00
8-	28.00	72.00
8-	29.00	72.00
8-	30.00	71.00
8-	31.00	70.00
8-	32.00	70.00
8-	33.00	69.00
8-	34.00	68.00
8-	35.00	68.00
8-	36.00	67.00
8-	37.00	66.00
8-	38.00	66.00
8-	39.00	65.00
8-	40.00	64.00
8-	41.00	64.00
8-	42.00	63.00
8-	43.00	62.00
8-	44.00	62.00
8-	45.00	61.00
8-	46.00	60.00
8-	47.00	59.00
8-	48.00	59.00
8-	49.00	58.00
8-	50.00	57.00
8-	51.00	57.00
8-	52.00	56.00

Sched:

Matrix: DEPR FR

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	55.00
8-	54.00	55.00
8-	55.00	54.00
8-	56.00	53.00
8-	57.00	53.00
8-	58.00	52.00
8-	59.00	51.00
8-	60.00	51.00
8-	61.00	50.00
8-	62.00	49.00
8-	63.00	48.00
8-	64.00	48.00
8-	65.00	47.00
8-	66.00	46.00
8-	67.00	46.00
8-	68.00	45.00
8-	69.00	44.00
8-	70.00	44.00
8-	71.00	43.00
8-	199.00	43.00

Matrix Schedule

Sched:

Matrix: DEPR AV

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	98.00
1	2.00	97.00
1	3.00	96.00
1	4.00	95.00
1	5.00	94.00
1	6.00	93.00
1	7.00	92.00
1	8.00	91.00
1	9.00	90.00
1	10.00	89.00
1	11.00	88.00
1	12.00	87.00
1	13.00	86.00
1	14.00	86.00
1	15.00	85.00
1	16.00	84.00
1	17.00	83.00
1	18.00	82.00
1	19.00	81.00
1	20.00	80.00
1	21.00	79.00
1	22.00	78.00
1	23.00	77.00
1	24.00	76.00
1	25.00	75.00
1	26.00	74.00
1	27.00	73.00
1	28.00	72.00
1	29.00	71.00
1	30.00	70.00
1	31.00	69.00
1	32.00	68.00
1	33.00	67.00
1	34.00	66.00
1	35.00	65.00
1	36.00	64.00
1	37.00	63.00
1	38.00	62.00
1	39.00	62.00
1	40.00	61.00
1	41.00	60.00
1	42.00	59.00
1	43.00	58.00
1	44.00	57.00
1	45.00	56.00
1	46.00	55.00
1	47.00	54.00
1	48.00	53.00
1	49.00	52.00
1	50.00	51.00
1	51.00	50.00
1	52.00	50.00
1	53.00	50.00
1	54.00	50.00
1	55.00	50.00
1	56.00	50.00
1	57.00	50.00
1	58.00	50.00
1	59.00	50.00
1	60.00	50.00
1	61.00	50.00
1	62.00	50.00
1	63.00	50.00
1	64.00	50.00
1	65.00	50.00
1	66.00	50.00
1	67.00	50.00
1	68.00	50.00
1	69.00	50.00
1	70.00	50.00
1	71.00	50.00
1	199.00	50.00
1+	1.00	98.00
1+	2.00	97.00
1+	3.00	96.00
1+	4.00	95.00
1+	5.00	94.00
1+	6.00	93.00
1+	7.00	92.00
1+	8.00	91.00
1+	9.00	90.00
1+	10.00	89.00
1+	11.00	88.00
1+	12.00	87.00
1+	13.00	86.00
1+	14.00	86.00
1+	15.00	85.00
1+	16.00	84.00

Sched:
Matrix: DEPR AV X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	83.00
1+	18.00	82.00
1+	19.00	81.00
1+	20.00	80.00
1+	21.00	79.00
1+	22.00	78.00
1+	23.00	77.00
1+	24.00	76.00
1+	25.00	75.00
1+	26.00	74.00
1+	27.00	73.00
1+	28.00	72.00
1+	29.00	71.00
1+	30.00	70.00
1+	31.00	69.00
1+	32.00	68.00
1+	33.00	67.00
1+	34.00	66.00
1+	35.00	65.00
1+	36.00	64.00
1+	37.00	63.00
1+	38.00	62.00
1+	39.00	62.00
1+	40.00	61.00
1+	41.00	60.00
1+	42.00	59.00
1+	43.00	58.00
1+	44.00	57.00
1+	45.00	56.00
1+	46.00	55.00
1+	47.00	54.00
1+	48.00	53.00
1+	49.00	52.00
1+	50.00	51.00
1+	51.00	50.00
1+	52.00	50.00
1+	53.00	50.00
1+	54.00	50.00
1+	55.00	50.00
1+	56.00	50.00
1+	57.00	50.00
1+	58.00	50.00
1+	59.00	50.00
1+	60.00	50.00
1+	61.00	50.00
1+	62.00	50.00
1+	63.00	50.00
1+	64.00	50.00
1+	65.00	50.00
1+	66.00	50.00
1+	67.00	50.00
1+	68.00	50.00
1+	69.00	50.00
1+	70.00	50.00
1+	71.00	50.00
1+	199.00	50.00
1-	1.00	98.00
1-	2.00	97.00
1-	3.00	96.00
1-	4.00	95.00
1-	5.00	94.00
1-	6.00	93.00
1-	7.00	92.00
1-	8.00	91.00
1-	9.00	90.00
1-	10.00	89.00
1-	11.00	88.00
1-	12.00	87.00
1-	13.00	86.00
1-	14.00	86.00
1-	15.00	85.00
1-	16.00	84.00
1-	17.00	83.00
1-	18.00	82.00
1-	19.00	81.00
1-	20.00	80.00
1-	21.00	79.00
1-	22.00	78.00
1-	23.00	77.00
1-	24.00	76.00
1-	25.00	75.00
1-	26.00	74.00
1-	27.00	73.00
1-	28.00	72.00
1-	29.00	71.00
1-	30.00	70.00
1-	31.00	69.00
1-	32.00	68.00
1-	33.00	67.00
1-	34.00	66.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	65.00
1-	36.00	64.00
1-	37.00	63.00
1-	38.00	62.00
1-	39.00	62.00
1-	40.00	61.00
1-	41.00	60.00
1-	42.00	59.00
1-	43.00	58.00
1-	44.00	57.00
1-	45.00	56.00
1-	46.00	55.00
1-	47.00	54.00
1-	48.00	53.00
1-	49.00	52.00
1-	50.00	51.00
1-	51.00	50.00
1-	52.00	50.00
1-	53.00	50.00
1-	54.00	50.00
1-	55.00	50.00
1-	56.00	50.00
1-	57.00	50.00
1-	58.00	50.00
1-	59.00	50.00
1-	60.00	50.00
1-	61.00	50.00
1-	62.00	50.00
1-	63.00	50.00
1-	64.00	50.00
1-	65.00	50.00
1-	66.00	50.00
1-	67.00	50.00
1-	68.00	50.00
1-	69.00	50.00
1-	70.00	50.00
1-	71.00	50.00
1-	199.00	50.00
2	1.00	98.00
2	2.00	97.00
2	3.00	96.00
2	4.00	95.00
2	5.00	94.00
2	6.00	93.00
2	7.00	92.00
2	8.00	91.00
2	9.00	90.00
2	10.00	89.00
2	11.00	88.00
2	12.00	87.00
2	13.00	86.00
2	14.00	86.00
2	15.00	85.00
2	16.00	84.00
2	17.00	83.00
2	18.00	82.00
2	19.00	81.00
2	20.00	80.00
2	21.00	79.00
2	22.00	78.00
2	23.00	77.00
2	24.00	76.00
2	25.00	75.00
2	26.00	74.00
2	27.00	73.00
2	28.00	72.00
2	29.00	71.00
2	30.00	70.00
2	31.00	69.00
2	32.00	68.00
2	33.00	67.00
2	34.00	66.00
2	35.00	65.00
2	36.00	64.00
2	37.00	63.00
2	38.00	62.00
2	39.00	62.00
2	40.00	61.00
2	41.00	60.00
2	42.00	59.00
2	43.00	58.00
2	44.00	57.00
2	45.00	56.00
2	46.00	55.00
2	47.00	54.00
2	48.00	53.00
2	49.00	52.00
2	50.00	51.00
2	51.00	50.00
2	52.00	50.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	50.00
2	54.00	50.00
2	55.00	50.00
2	56.00	50.00
2	57.00	50.00
2	58.00	50.00
2	59.00	50.00
2	60.00	50.00
2	61.00	50.00
2	62.00	50.00
2	63.00	50.00
2	64.00	50.00
2	65.00	50.00
2	66.00	50.00
2	67.00	50.00
2	68.00	50.00
2	69.00	50.00
2	70.00	50.00
2	71.00	50.00
2	199.00	50.00
2+	1.00	98.00
2+	2.00	97.00
2+	3.00	96.00
2+	4.00	95.00
2+	5.00	94.00
2+	6.00	93.00
2+	7.00	92.00
2+	8.00	91.00
2+	9.00	90.00
2+	10.00	89.00
2+	11.00	88.00
2+	12.00	87.00
2+	13.00	86.00
2+	14.00	86.00
2+	15.00	85.00
2+	16.00	84.00
2+	17.00	83.00
2+	18.00	82.00
2+	19.00	81.00
2+	20.00	80.00
2+	21.00	79.00
2+	22.00	78.00
2+	23.00	77.00
2+	24.00	76.00
2+	25.00	75.00
2+	26.00	74.00
2+	27.00	73.00
2+	28.00	72.00
2+	29.00	71.00
2+	30.00	70.00
2+	31.00	69.00
2+	32.00	68.00
2+	33.00	67.00
2+	34.00	66.00
2+	35.00	65.00
2+	36.00	64.00
2+	37.00	63.00
2+	38.00	62.00
2+	39.00	62.00
2+	40.00	61.00
2+	41.00	60.00
2+	42.00	59.00
2+	43.00	58.00
2+	44.00	57.00
2+	45.00	56.00
2+	46.00	55.00
2+	47.00	54.00
2+	48.00	53.00
2+	49.00	52.00
2+	50.00	51.00
2+	51.00	50.00
2+	52.00	50.00
2+	53.00	50.00
2+	54.00	50.00
2+	55.00	50.00
2+	56.00	50.00
2+	57.00	50.00
2+	58.00	50.00
2+	59.00	50.00
2+	60.00	50.00
2+	61.00	50.00
2+	62.00	50.00
2+	63.00	50.00
2+	64.00	50.00
2+	65.00	50.00
2+	66.00	50.00
2+	67.00	50.00
2+	68.00	50.00
2+	69.00	50.00
2+	70.00	50.00

Sched: Matrix: DEPR AV X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	50.00
2+	199.00	50.00
2-	1.00	98.00
2-	2.00	97.00
2-	3.00	96.00
2-	4.00	95.00
2-	5.00	94.00
2-	6.00	93.00
2-	7.00	92.00
2-	8.00	91.00
2-	9.00	90.00
2-	10.00	89.00
2-	11.00	88.00
2-	12.00	87.00
2-	13.00	86.00
2-	14.00	86.00
2-	15.00	85.00
2-	16.00	84.00
2-	17.00	83.00
2-	18.00	82.00
2-	19.00	81.00
2-	20.00	80.00
2-	21.00	79.00
2-	22.00	78.00
2-	23.00	77.00
2-	24.00	76.00
2-	25.00	75.00
2-	26.00	74.00
2-	27.00	73.00
2-	28.00	72.00
2-	29.00	71.00
2-	30.00	70.00
2-	31.00	69.00
2-	32.00	68.00
2-	33.00	67.00
2-	34.00	66.00
2-	35.00	65.00
2-	36.00	64.00
2-	37.00	63.00
2-	38.00	62.00
2-	39.00	62.00
2-	40.00	61.00
2-	41.00	60.00
2-	42.00	59.00
2-	43.00	58.00
2-	44.00	57.00
2-	45.00	56.00
2-	46.00	55.00
2-	47.00	54.00
2-	48.00	53.00
2-	49.00	52.00
2-	50.00	51.00
2-	51.00	50.00
2-	52.00	50.00
2-	53.00	50.00
2-	54.00	50.00
2-	55.00	50.00
2-	56.00	50.00
2-	57.00	50.00
2-	58.00	50.00
2-	59.00	50.00
2-	60.00	50.00
2-	61.00	50.00
2-	62.00	50.00
2-	63.00	50.00
2-	64.00	50.00
2-	65.00	50.00
2-	66.00	50.00
2-	67.00	50.00
2-	68.00	50.00
2-	69.00	50.00
2-	70.00	50.00
2-	71.00	50.00
2-	199.00	50.00
3	1.00	98.00
3	2.00	97.00
3	3.00	96.00
3	4.00	95.00
3	5.00	95.00
3	6.00	94.00
3	7.00	93.00
3	8.00	92.00
3	9.00	91.00
3	10.00	90.00
3	11.00	89.00
3	12.00	88.00
3	13.00	88.00
3	14.00	87.00
3	15.00	86.00
3	16.00	85.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	84.00
3	18.00	83.00
3	19.00	82.00
3	20.00	81.00
3	21.00	81.00
3	22.00	80.00
3	23.00	79.00
3	24.00	78.00
3	25.00	77.00
3	26.00	76.00
3	27.00	75.00
3	28.00	74.00
3	29.00	74.00
3	30.00	73.00
3	31.00	72.00
3	32.00	71.00
3	33.00	70.00
3	34.00	69.00
3	35.00	68.00
3	36.00	67.00
3	37.00	67.00
3	38.00	66.00
3	39.00	65.00
3	40.00	64.00
3	41.00	63.00
3	42.00	62.00
3	43.00	61.00
3	44.00	60.00
3	45.00	60.00
3	46.00	59.00
3	47.00	58.00
3	48.00	57.00
3	49.00	56.00
3	50.00	55.00
3	51.00	54.00
3	52.00	53.00
3	53.00	53.00
3	54.00	52.00
3	55.00	51.00
3	56.00	50.00
3	57.00	50.00
3	58.00	50.00
3	59.00	50.00
3	60.00	50.00
3	61.00	50.00
3	62.00	50.00
3	63.00	50.00
3	64.00	50.00
3	65.00	50.00
3	66.00	50.00
3	67.00	50.00
3	68.00	50.00
3	69.00	50.00
3	70.00	50.00
3	71.00	50.00
3	199.00	50.00
3+	1.00	98.00
3+	2.00	97.00
3+	3.00	96.00
3+	4.00	95.00
3+	5.00	95.00
3+	6.00	94.00
3+	7.00	93.00
3+	8.00	92.00
3+	9.00	91.00
3+	10.00	90.00
3+	11.00	89.00
3+	12.00	88.00
3+	13.00	88.00
3+	14.00	87.00
3+	15.00	86.00
3+	16.00	85.00
3+	17.00	84.00
3+	18.00	83.00
3+	19.00	82.00
3+	20.00	81.00
3+	21.00	81.00
3+	22.00	80.00
3+	23.00	79.00
3+	24.00	78.00
3+	25.00	77.00
3+	26.00	76.00
3+	27.00	75.00
3+	28.00	74.00
3+	29.00	74.00
3+	30.00	73.00
3+	31.00	72.00
3+	32.00	71.00
3+	33.00	70.00
3+	34.00	69.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	68.00
3+	36.00	67.00
3+	37.00	67.00
3+	38.00	66.00
3+	39.00	65.00
3+	40.00	64.00
3+	41.00	63.00
3+	42.00	62.00
3+	43.00	61.00
3+	44.00	60.00
3+	45.00	60.00
3+	46.00	59.00
3+	47.00	58.00
3+	48.00	57.00
3+	49.00	56.00
3+	50.00	55.00
3+	51.00	54.00
3+	52.00	53.00
3+	53.00	53.00
3+	54.00	52.00
3+	55.00	51.00
3+	56.00	50.00
3+	57.00	50.00
3+	58.00	50.00
3+	59.00	50.00
3+	60.00	50.00
3+	61.00	50.00
3+	62.00	50.00
3+	63.00	50.00
3+	64.00	50.00
3+	65.00	50.00
3+	66.00	50.00
3+	67.00	50.00
3+	68.00	50.00
3+	69.00	50.00
3+	70.00	50.00
3+	71.00	50.00
3+	199.00	50.00
3-	1.00	98.00
3-	2.00	97.00
3-	3.00	96.00
3-	4.00	95.00
3-	5.00	95.00
3-	6.00	94.00
3-	7.00	93.00
3-	8.00	92.00
3-	9.00	91.00
3-	10.00	90.00
3-	11.00	89.00
3-	12.00	88.00
3-	13.00	88.00
3-	14.00	87.00
3-	15.00	86.00
3-	16.00	85.00
3-	17.00	84.00
3-	18.00	83.00
3-	19.00	82.00
3-	20.00	81.00
3-	21.00	81.00
3-	22.00	80.00
3-	23.00	79.00
3-	24.00	78.00
3-	25.00	77.00
3-	26.00	76.00
3-	27.00	75.00
3-	28.00	74.00
3-	29.00	74.00
3-	30.00	73.00
3-	31.00	72.00
3-	32.00	71.00
3-	33.00	70.00
3-	34.00	69.00
3-	35.00	68.00
3-	36.00	67.00
3-	37.00	67.00
3-	38.00	66.00
3-	39.00	65.00
3-	40.00	64.00
3-	41.00	63.00
3-	42.00	62.00
3-	43.00	61.00
3-	44.00	60.00
3-	45.00	60.00
3-	46.00	59.00
3-	47.00	58.00
3-	48.00	57.00
3-	49.00	56.00
3-	50.00	55.00
3-	51.00	54.00
3-	52.00	53.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	53.00
3-	54.00	52.00
3-	55.00	51.00
3-	56.00	50.00
3-	57.00	50.00
3-	58.00	50.00
3-	59.00	50.00
3-	60.00	50.00
3-	61.00	50.00
3-	62.00	50.00
3-	63.00	50.00
3-	64.00	50.00
3-	65.00	50.00
3-	66.00	50.00
3-	67.00	50.00
3-	68.00	50.00
3-	69.00	50.00
3-	70.00	50.00
3-	71.00	50.00
3-	199.00	50.00
4	1.00	98.00
4	2.00	97.00
4	3.00	96.00
4	4.00	96.00
4	5.00	95.00
4	6.00	94.00
4	7.00	93.00
4	8.00	92.00
4	9.00	92.00
4	10.00	91.00
4	11.00	90.00
4	12.00	89.00
4	13.00	88.00
4	14.00	88.00
4	15.00	87.00
4	16.00	86.00
4	17.00	85.00
4	18.00	84.00
4	19.00	84.00
4	20.00	83.00
4	21.00	82.00
4	22.00	81.00
4	23.00	80.00
4	24.00	80.00
4	25.00	79.00
4	26.00	78.00
4	27.00	77.00
4	28.00	76.00
4	29.00	76.00
4	30.00	75.00
4	31.00	74.00
4	32.00	73.00
4	33.00	72.00
4	34.00	72.00
4	35.00	71.00
4	36.00	70.00
4	37.00	69.00
4	38.00	68.00
4	39.00	68.00
4	40.00	67.00
4	41.00	66.00
4	42.00	65.00
4	43.00	64.00
4	44.00	64.00
4	45.00	63.00
4	46.00	62.00
4	47.00	61.00
4	48.00	60.00
4	49.00	60.00
4	50.00	59.00
4	51.00	58.00
4	52.00	57.00
4	53.00	56.00
4	54.00	56.00
4	55.00	55.00
4	56.00	54.00
4	57.00	53.00
4	58.00	52.00
4	59.00	52.00
4	60.00	51.00
4	61.00	50.00
4	62.00	50.00
4	63.00	50.00
4	64.00	50.00
4	65.00	50.00
4	66.00	50.00
4	67.00	50.00
4	68.00	50.00
4	69.00	50.00
4	70.00	50.00

Sched: Matrix: DEPR AV X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	50.00
4	199.00	50.00
4+	1.00	98.00
4+	2.00	97.00
4+	3.00	96.00
4+	4.00	96.00
4+	5.00	95.00
4+	6.00	94.00
4+	7.00	93.00
4+	8.00	92.00
4+	9.00	92.00
4+	10.00	91.00
4+	11.00	90.00
4+	12.00	89.00
4+	13.00	88.00
4+	14.00	88.00
4+	15.00	87.00
4+	16.00	86.00
4+	17.00	85.00
4+	18.00	84.00
4+	19.00	84.00
4+	20.00	83.00
4+	21.00	82.00
4+	22.00	81.00
4+	23.00	80.00
4+	24.00	80.00
4+	25.00	79.00
4+	26.00	78.00
4+	27.00	77.00
4+	28.00	76.00
4+	29.00	76.00
4+	30.00	75.00
4+	31.00	74.00
4+	32.00	73.00
4+	33.00	72.00
4+	34.00	72.00
4+	35.00	71.00
4+	36.00	70.00
4+	37.00	69.00
4+	38.00	68.00
4+	39.00	68.00
4+	40.00	67.00
4+	41.00	66.00
4+	42.00	65.00
4+	43.00	64.00
4+	44.00	64.00
4+	45.00	63.00
4+	46.00	62.00
4+	47.00	61.00
4+	48.00	60.00
4+	49.00	60.00
4+	50.00	59.00
4+	51.00	58.00
4+	52.00	57.00
4+	53.00	56.00
4+	54.00	56.00
4+	55.00	55.00
4+	56.00	54.00
4+	57.00	53.00
4+	58.00	52.00
4+	59.00	52.00
4+	60.00	51.00
4+	61.00	50.00
4+	62.00	50.00
4+	63.00	50.00
4+	64.00	50.00
4+	65.00	50.00
4+	66.00	50.00
4+	67.00	50.00
4+	68.00	50.00
4+	69.00	50.00
4+	70.00	50.00
4+	71.00	50.00
4+	199.00	50.00
4-	1.00	98.00
4-	2.00	97.00
4-	3.00	96.00
4-	4.00	96.00
4-	5.00	95.00
4-	6.00	94.00
4-	7.00	93.00
4-	8.00	92.00
4-	9.00	92.00
4-	10.00	91.00
4-	11.00	90.00
4-	12.00	89.00
4-	13.00	88.00
4-	14.00	88.00
4-	15.00	87.00
4-	16.00	86.00

Sched:
Matrix: DEPR AV X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	85.00
4-	18.00	84.00
4-	19.00	84.00
4-	20.00	83.00
4-	21.00	82.00
4-	22.00	81.00
4-	23.00	80.00
4-	24.00	80.00
4-	25.00	79.00
4-	26.00	78.00
4-	27.00	77.00
4-	28.00	76.00
4-	29.00	76.00
4-	30.00	75.00
4-	31.00	74.00
4-	32.00	73.00
4-	33.00	72.00
4-	34.00	72.00
4-	35.00	71.00
4-	36.00	70.00
4-	37.00	69.00
4-	38.00	68.00
4-	39.00	68.00
4-	40.00	67.00
4-	41.00	66.00
4-	42.00	65.00
4-	43.00	64.00
4-	44.00	64.00
4-	45.00	63.00
4-	46.00	62.00
4-	47.00	61.00
4-	48.00	60.00
4-	49.00	60.00
4-	50.00	59.00
4-	51.00	58.00
4-	52.00	57.00
4-	53.00	56.00
4-	54.00	56.00
4-	55.00	55.00
4-	56.00	54.00
4-	57.00	53.00
4-	58.00	52.00
4-	59.00	52.00
4-	60.00	51.00
4-	61.00	50.00
4-	62.00	50.00
4-	63.00	50.00
4-	64.00	50.00
4-	65.00	50.00
4-	66.00	50.00
4-	67.00	50.00
4-	68.00	50.00
4-	69.00	50.00
4-	70.00	50.00
4-	71.00	50.00
4-	199.00	50.00
5	1.00	98.00
5	2.00	97.00
5	3.00	97.00
5	4.00	96.00
5	5.00	95.00
5	6.00	94.00
5	7.00	94.00
5	8.00	93.00
5	9.00	92.00
5	10.00	91.00
5	11.00	91.00
5	12.00	90.00
5	13.00	89.00
5	14.00	88.00
5	15.00	88.00
5	16.00	87.00
5	17.00	86.00
5	18.00	85.00
5	19.00	85.00
5	20.00	84.00
5	21.00	83.00
5	22.00	82.00
5	23.00	82.00
5	24.00	81.00
5	25.00	80.00
5	26.00	80.00
5	27.00	79.00
5	28.00	78.00
5	29.00	77.00
5	30.00	77.00
5	31.00	76.00
5	32.00	75.00
5	33.00	74.00
5	34.00	74.00

Sched: Matrix: DEPR AV X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	73.00
5	36.00	72.00
5	37.00	71.00
5	38.00	71.00
5	39.00	70.00
5	40.00	69.00
5	41.00	68.00
5	42.00	68.00
5	43.00	67.00
5	44.00	66.00
5	45.00	66.00
5	46.00	65.00
5	47.00	64.00
5	48.00	63.00
5	49.00	63.00
5	50.00	62.00
5	51.00	61.00
5	52.00	60.00
5	53.00	60.00
5	54.00	59.00
5	55.00	58.00
5	56.00	57.00
5	57.00	57.00
5	58.00	56.00
5	59.00	55.00
5	60.00	54.00
5	61.00	54.00
5	62.00	53.00
5	63.00	52.00
5	64.00	51.00
5	65.00	51.00
5	66.00	50.00
5	67.00	50.00
5	68.00	50.00
5	69.00	50.00
5	70.00	50.00
5	71.00	50.00
5	199.00	50.00
5+	1.00	98.00
5+	2.00	97.00
5+	3.00	97.00
5+	4.00	96.00
5+	5.00	95.00
5+	6.00	94.00
5+	7.00	94.00
5+	8.00	93.00
5+	9.00	92.00
5+	10.00	91.00
5+	11.00	91.00
5+	12.00	90.00
5+	13.00	89.00
5+	14.00	88.00
5+	15.00	88.00
5+	16.00	87.00
5+	17.00	86.00
5+	18.00	85.00
5+	19.00	85.00
5+	20.00	84.00
5+	21.00	83.00
5+	22.00	82.00
5+	23.00	82.00
5+	24.00	81.00
5+	25.00	80.00
5+	26.00	80.00
5+	27.00	79.00
5+	28.00	78.00
5+	29.00	77.00
5+	30.00	77.00
5+	31.00	76.00
5+	32.00	75.00
5+	33.00	74.00
5+	34.00	74.00
5+	35.00	73.00
5+	36.00	72.00
5+	37.00	71.00
5+	38.00	71.00
5+	39.00	70.00
5+	40.00	69.00
5+	41.00	68.00
5+	42.00	68.00
5+	43.00	67.00
5+	44.00	66.00
5+	45.00	66.00
5+	46.00	65.00
5+	47.00	64.00
5+	48.00	63.00
5+	49.00	63.00
5+	50.00	62.00
5+	51.00	61.00
5+	52.00	60.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	60.00
5+	54.00	59.00
5+	55.00	58.00
5+	56.00	57.00
5+	57.00	57.00
5+	58.00	56.00
5+	59.00	55.00
5+	60.00	54.00
5+	61.00	54.00
5+	62.00	53.00
5+	63.00	52.00
5+	64.00	51.00
5+	65.00	51.00
5+	66.00	50.00
5+	67.00	50.00
5+	68.00	50.00
5+	69.00	50.00
5+	70.00	50.00
5+	71.00	50.00
5+	199.00	50.00
5-	1.00	98.00
5-	2.00	97.00
5-	3.00	97.00
5-	4.00	96.00
5-	5.00	95.00
5-	6.00	94.00
5-	7.00	94.00
5-	8.00	93.00
5-	9.00	92.00
5-	10.00	91.00
5-	11.00	91.00
5-	12.00	90.00
5-	13.00	89.00
5-	14.00	88.00
5-	15.00	88.00
5-	16.00	87.00
5-	17.00	86.00
5-	18.00	85.00
5-	19.00	85.00
5-	20.00	84.00
5-	21.00	83.00
5-	22.00	82.00
5-	23.00	82.00
5-	24.00	81.00
5-	25.00	80.00
5-	26.00	80.00
5-	27.00	79.00
5-	28.00	78.00
5-	29.00	77.00
5-	30.00	77.00
5-	31.00	76.00
5-	32.00	75.00
5-	33.00	74.00
5-	34.00	74.00
5-	35.00	73.00
5-	36.00	72.00
5-	37.00	71.00
5-	38.00	71.00
5-	39.00	70.00
5-	40.00	69.00
5-	41.00	68.00
5-	42.00	68.00
5-	43.00	67.00
5-	44.00	66.00
5-	45.00	66.00
5-	46.00	65.00
5-	47.00	64.00
5-	48.00	63.00
5-	49.00	63.00
5-	50.00	62.00
5-	51.00	61.00
5-	52.00	60.00
5-	53.00	60.00
5-	54.00	59.00
5-	55.00	58.00
5-	56.00	57.00
5-	57.00	57.00
5-	58.00	56.00
5-	59.00	55.00
5-	60.00	54.00
5-	61.00	54.00
5-	62.00	53.00
5-	63.00	52.00
5-	64.00	51.00
5-	65.00	51.00
5-	66.00	50.00
5-	67.00	50.00
5-	68.00	50.00
5-	69.00	50.00
5-	70.00	50.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	50.00
5-	199.00	50.00
6	1.00	98.00
6	2.00	97.00
6	3.00	97.00
6	4.00	96.00
6	5.00	95.00
6	6.00	95.00
6	7.00	94.00
6	8.00	93.00
6	9.00	93.00
6	10.00	92.00
6	11.00	91.00
6	12.00	90.00
6	13.00	90.00
6	14.00	89.00
6	15.00	88.00
6	16.00	88.00
6	17.00	87.00
6	18.00	86.00
6	19.00	86.00
6	20.00	85.00
6	21.00	84.00
6	22.00	84.00
6	23.00	83.00
6	24.00	82.00
6	25.00	82.00
6	26.00	81.00
6	27.00	80.00
6	28.00	79.00
6	29.00	79.00
6	30.00	78.00
6	31.00	77.00
6	32.00	77.00
6	33.00	76.00
6	34.00	75.00
6	35.00	75.00
6	36.00	74.00
6	37.00	73.00
6	38.00	73.00
6	39.00	72.00
6	40.00	71.00
6	41.00	71.00
6	42.00	70.00
6	43.00	69.00
6	44.00	69.00
6	45.00	68.00
6	46.00	67.00
6	47.00	66.00
6	48.00	66.00
6	49.00	65.00
6	50.00	64.00
6	51.00	64.00
6	52.00	63.00
6	53.00	62.00
6	54.00	62.00
6	55.00	61.00
6	56.00	60.00
6	57.00	60.00
6	58.00	59.00
6	59.00	58.00
6	60.00	58.00
6	61.00	57.00
6	62.00	56.00
6	63.00	55.00
6	64.00	55.00
6	65.00	54.00
6	66.00	53.00
6	67.00	53.00
6	68.00	52.00
6	69.00	51.00
6	70.00	51.00
6	71.00	50.00
6	199.00	50.00
6+	1.00	98.00
6+	2.00	97.00
6+	3.00	97.00
6+	4.00	96.00
6+	5.00	95.00
6+	6.00	95.00
6+	7.00	94.00
6+	8.00	93.00
6+	9.00	93.00
6+	10.00	92.00
6+	11.00	91.00
6+	12.00	90.00
6+	13.00	90.00
6+	14.00	89.00
6+	15.00	88.00
6+	16.00	88.00

Sched:

Matrix: DEPR AV X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	87.00
6+	18.00	86.00
6+	19.00	86.00
6+	20.00	85.00
6+	21.00	84.00
6+	22.00	84.00
6+	23.00	83.00
6+	24.00	82.00
6+	25.00	82.00
6+	26.00	81.00
6+	27.00	80.00
6+	28.00	79.00
6+	29.00	79.00
6+	30.00	78.00
6+	31.00	77.00
6+	32.00	77.00
6+	33.00	76.00
6+	34.00	75.00
6+	35.00	75.00
6+	36.00	74.00
6+	37.00	73.00
6+	38.00	73.00
6+	39.00	72.00
6+	40.00	71.00
6+	41.00	71.00
6+	42.00	70.00
6+	43.00	69.00
6+	44.00	69.00
6+	45.00	68.00
6+	46.00	67.00
6+	47.00	66.00
6+	48.00	66.00
6+	49.00	65.00
6+	50.00	64.00
6+	51.00	64.00
6+	52.00	63.00
6+	53.00	62.00
6+	54.00	62.00
6+	55.00	61.00
6+	56.00	60.00
6+	57.00	60.00
6+	58.00	59.00
6+	59.00	58.00
6+	60.00	58.00
6+	61.00	57.00
6+	62.00	56.00
6+	63.00	55.00
6+	64.00	55.00
6+	65.00	54.00
6+	66.00	53.00
6+	67.00	53.00
6+	68.00	52.00
6+	69.00	51.00
6+	70.00	51.00
6+	71.00	50.00
6+	199.00	50.00
6-	1.00	98.00
6-	2.00	97.00
6-	3.00	97.00
6-	4.00	96.00
6-	5.00	95.00
6-	6.00	95.00
6-	7.00	94.00
6-	8.00	93.00
6-	9.00	93.00
6-	10.00	92.00
6-	11.00	91.00
6-	12.00	90.00
6-	13.00	90.00
6-	14.00	89.00
6-	15.00	88.00
6-	16.00	88.00
6-	17.00	87.00
6-	18.00	86.00
6-	19.00	86.00
6-	20.00	85.00
6-	21.00	84.00
6-	22.00	84.00
6-	23.00	83.00
6-	24.00	82.00
6-	25.00	82.00
6-	26.00	81.00
6-	27.00	80.00
6-	28.00	79.00
6-	29.00	79.00
6-	30.00	78.00
6-	31.00	77.00
6-	32.00	77.00
6-	33.00	76.00
6-	34.00	75.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	75.00
6-	36.00	74.00
6-	37.00	73.00
6-	38.00	73.00
6-	39.00	72.00
6-	40.00	71.00
6-	41.00	71.00
6-	42.00	70.00
6-	43.00	69.00
6-	44.00	69.00
6-	45.00	68.00
6-	46.00	67.00
6-	47.00	66.00
6-	48.00	66.00
6-	49.00	65.00
6-	50.00	64.00
6-	51.00	64.00
6-	52.00	63.00
6-	53.00	62.00
6-	54.00	62.00
6-	55.00	61.00
6-	56.00	60.00
6-	57.00	60.00
6-	58.00	59.00
6-	59.00	58.00
6-	60.00	58.00
6-	61.00	57.00
6-	62.00	56.00
6-	63.00	55.00
6-	64.00	55.00
6-	65.00	54.00
6-	66.00	53.00
6-	67.00	53.00
6-	68.00	52.00
6-	69.00	51.00
6-	70.00	51.00
6-	71.00	50.00
6-	199.00	50.00
7	1.00	98.00
7	2.00	97.00
7	3.00	97.00
7	4.00	96.00
7	5.00	95.00
7	6.00	95.00
7	7.00	94.00
7	8.00	93.00
7	9.00	93.00
7	10.00	92.00
7	11.00	91.00
7	12.00	90.00
7	13.00	90.00
7	14.00	89.00
7	15.00	88.00
7	16.00	88.00
7	17.00	87.00
7	18.00	86.00
7	19.00	86.00
7	20.00	85.00
7	21.00	84.00
7	22.00	84.00
7	23.00	83.00
7	24.00	82.00
7	25.00	82.00
7	26.00	81.00
7	27.00	80.00
7	28.00	79.00
7	29.00	79.00
7	30.00	78.00
7	31.00	77.00
7	32.00	77.00
7	33.00	76.00
7	34.00	75.00
7	35.00	75.00
7	36.00	74.00
7	37.00	73.00
7	38.00	73.00
7	39.00	72.00
7	40.00	71.00
7	41.00	71.00
7	42.00	70.00
7	43.00	69.00
7	44.00	69.00
7	45.00	68.00
7	46.00	67.00
7	47.00	66.00
7	48.00	66.00
7	49.00	65.00
7	50.00	64.00
7	51.00	64.00
7	52.00	63.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	62.00
7	54.00	62.00
7	55.00	61.00
7	56.00	60.00
7	57.00	60.00
7	58.00	59.00
7	59.00	58.00
7	60.00	58.00
7	61.00	57.00
7	62.00	56.00
7	63.00	55.00
7	64.00	55.00
7	65.00	54.00
7	66.00	53.00
7	67.00	53.00
7	68.00	52.00
7	69.00	51.00
7	70.00	51.00
7	71.00	50.00
7	199.00	50.00
7+	1.00	98.00
7+	2.00	97.00
7+	3.00	97.00
7+	4.00	96.00
7+	5.00	95.00
7+	6.00	95.00
7+	7.00	94.00
7+	8.00	93.00
7+	9.00	93.00
7+	10.00	92.00
7+	11.00	91.00
7+	12.00	90.00
7+	13.00	90.00
7+	14.00	89.00
7+	15.00	88.00
7+	16.00	88.00
7+	17.00	87.00
7+	18.00	86.00
7+	19.00	86.00
7+	20.00	85.00
7+	21.00	84.00
7+	22.00	84.00
7+	23.00	83.00
7+	24.00	82.00
7+	25.00	82.00
7+	26.00	81.00
7+	27.00	80.00
7+	28.00	79.00
7+	29.00	79.00
7+	30.00	78.00
7+	31.00	77.00
7+	32.00	77.00
7+	33.00	76.00
7+	34.00	75.00
7+	35.00	75.00
7+	36.00	74.00
7+	37.00	73.00
7+	38.00	73.00
7+	39.00	72.00
7+	40.00	71.00
7+	41.00	71.00
7+	42.00	70.00
7+	43.00	69.00
7+	44.00	69.00
7+	45.00	68.00
7+	46.00	67.00
7+	47.00	66.00
7+	48.00	66.00
7+	49.00	65.00
7+	50.00	64.00
7+	51.00	64.00
7+	52.00	63.00
7+	53.00	62.00
7+	54.00	62.00
7+	55.00	61.00
7+	56.00	60.00
7+	57.00	60.00
7+	58.00	59.00
7+	59.00	58.00
7+	60.00	58.00
7+	61.00	57.00
7+	62.00	56.00
7+	63.00	55.00
7+	64.00	55.00
7+	65.00	54.00
7+	66.00	53.00
7+	67.00	53.00
7+	68.00	52.00
7+	69.00	51.00
7+	70.00	51.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	50.00
7+	199.00	50.00
7-	1.00	98.00
7-	2.00	97.00
7-	3.00	97.00
7-	4.00	96.00
7-	5.00	95.00
7-	6.00	95.00
7-	7.00	94.00
7-	8.00	93.00
7-	9.00	93.00
7-	10.00	92.00
7-	11.00	91.00
7-	12.00	90.00
7-	13.00	90.00
7-	14.00	89.00
7-	15.00	88.00
7-	16.00	88.00
7-	17.00	87.00
7-	18.00	86.00
7-	19.00	86.00
7-	20.00	85.00
7-	21.00	84.00
7-	22.00	84.00
7-	23.00	83.00
7-	24.00	82.00
7-	25.00	82.00
7-	26.00	81.00
7-	27.00	80.00
7-	28.00	79.00
7-	29.00	79.00
7-	30.00	78.00
7-	31.00	77.00
7-	32.00	77.00
7-	33.00	76.00
7-	34.00	75.00
7-	35.00	75.00
7-	36.00	74.00
7-	37.00	73.00
7-	38.00	73.00
7-	39.00	72.00
7-	40.00	71.00
7-	41.00	71.00
7-	42.00	70.00
7-	43.00	69.00
7-	44.00	69.00
7-	45.00	68.00
7-	46.00	67.00
7-	47.00	66.00
7-	48.00	66.00
7-	49.00	65.00
7-	50.00	64.00
7-	51.00	64.00
7-	52.00	63.00
7-	53.00	62.00
7-	54.00	62.00
7-	55.00	61.00
7-	56.00	60.00
7-	57.00	60.00
7-	58.00	59.00
7-	59.00	58.00
7-	60.00	58.00
7-	61.00	57.00
7-	62.00	56.00
7-	63.00	55.00
7-	64.00	55.00
7-	65.00	54.00
7-	66.00	53.00
7-	67.00	53.00
7-	68.00	52.00
7-	69.00	51.00
7-	70.00	51.00
7-	71.00	50.00
7-	199.00	50.00
8	1.00	98.00
8	2.00	97.00
8	3.00	97.00
8	4.00	96.00
8	5.00	95.00
8	6.00	95.00
8	7.00	94.00
8	8.00	93.00
8	9.00	93.00
8	10.00	92.00
8	11.00	91.00
8	12.00	90.00
8	13.00	90.00
8	14.00	89.00
8	15.00	88.00
8	16.00	88.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	87.00
8	18.00	86.00
8	19.00	86.00
8	20.00	85.00
8	21.00	84.00
8	22.00	84.00
8	23.00	83.00
8	24.00	82.00
8	25.00	82.00
8	26.00	81.00
8	27.00	80.00
8	28.00	79.00
8	29.00	79.00
8	30.00	78.00
8	31.00	77.00
8	32.00	77.00
8	33.00	76.00
8	34.00	75.00
8	35.00	75.00
8	36.00	74.00
8	37.00	73.00
8	38.00	73.00
8	39.00	72.00
8	40.00	71.00
8	41.00	71.00
8	42.00	70.00
8	43.00	69.00
8	44.00	69.00
8	45.00	68.00
8	46.00	67.00
8	47.00	66.00
8	48.00	66.00
8	49.00	65.00
8	50.00	64.00
8	51.00	64.00
8	52.00	63.00
8	53.00	62.00
8	54.00	62.00
8	55.00	61.00
8	56.00	60.00
8	57.00	60.00
8	58.00	59.00
8	59.00	58.00
8	60.00	58.00
8	61.00	57.00
8	62.00	56.00
8	63.00	55.00
8	64.00	55.00
8	65.00	54.00
8	66.00	53.00
8	67.00	53.00
8	68.00	52.00
8	69.00	51.00
8	70.00	51.00
8	71.00	50.00
8	199.00	50.00
8+	1.00	98.00
8+	2.00	97.00
8+	3.00	97.00
8+	4.00	96.00
8+	5.00	95.00
8+	6.00	95.00
8+	7.00	94.00
8+	8.00	93.00
8+	9.00	93.00
8+	10.00	92.00
8+	11.00	91.00
8+	12.00	90.00
8+	13.00	90.00
8+	14.00	89.00
8+	15.00	88.00
8+	16.00	88.00
8+	17.00	87.00
8+	18.00	86.00
8+	19.00	86.00
8+	20.00	85.00
8+	21.00	84.00
8+	22.00	84.00
8+	23.00	83.00
8+	24.00	82.00
8+	25.00	82.00
8+	26.00	81.00
8+	27.00	80.00
8+	28.00	79.00
8+	29.00	79.00
8+	30.00	78.00
8+	31.00	77.00
8+	32.00	77.00
8+	33.00	76.00
8+	34.00	75.00

Sched:			
Matrix:	DEPR AV	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	75.00
8+	36.00	74.00
8+	37.00	73.00
8+	38.00	73.00
8+	39.00	72.00
8+	40.00	71.00
8+	41.00	71.00
8+	42.00	70.00
8+	43.00	69.00
8+	44.00	69.00
8+	45.00	68.00
8+	46.00	67.00
8+	47.00	66.00
8+	48.00	66.00
8+	49.00	65.00
8+	50.00	64.00
8+	51.00	64.00
8+	52.00	63.00
8+	53.00	62.00
8+	54.00	62.00
8+	55.00	61.00
8+	56.00	60.00
8+	57.00	60.00
8+	58.00	59.00
8+	59.00	58.00
8+	60.00	58.00
8+	61.00	57.00
8+	62.00	56.00
8+	63.00	55.00
8+	64.00	55.00
8+	65.00	54.00
8+	66.00	53.00
8+	67.00	53.00
8+	68.00	52.00
8+	69.00	51.00
8+	70.00	51.00
8+	71.00	50.00
8+	199.00	50.00
8-	1.00	98.00
8-	2.00	97.00
8-	3.00	97.00
8-	4.00	96.00
8-	5.00	95.00
8-	6.00	95.00
8-	7.00	94.00
8-	8.00	93.00
8-	9.00	93.00
8-	10.00	92.00
8-	11.00	91.00
8-	12.00	90.00
8-	13.00	90.00
8-	14.00	89.00
8-	15.00	88.00
8-	16.00	88.00
8-	17.00	87.00
8-	18.00	86.00
8-	19.00	86.00
8-	20.00	85.00
8-	21.00	84.00
8-	22.00	84.00
8-	23.00	83.00
8-	24.00	82.00
8-	25.00	82.00
8-	26.00	81.00
8-	27.00	80.00
8-	28.00	79.00
8-	29.00	79.00
8-	30.00	78.00
8-	31.00	77.00
8-	32.00	77.00
8-	33.00	76.00
8-	34.00	75.00
8-	35.00	75.00
8-	36.00	74.00
8-	37.00	73.00
8-	38.00	73.00
8-	39.00	72.00
8-	40.00	71.00
8-	41.00	71.00
8-	42.00	70.00
8-	43.00	69.00
8-	44.00	69.00
8-	45.00	68.00
8-	46.00	67.00
8-	47.00	66.00
8-	48.00	66.00
8-	49.00	65.00
8-	50.00	64.00
8-	51.00	64.00
8-	52.00	63.00

Sched:
Matrix: DEPR AV
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	62.00
8-	54.00	62.00
8-	55.00	61.00
8-	56.00	60.00
8-	57.00	60.00
8-	58.00	59.00
8-	59.00	58.00
8-	60.00	58.00
8-	61.00	57.00
8-	62.00	56.00
8-	63.00	55.00
8-	64.00	55.00
8-	65.00	54.00
8-	66.00	53.00
8-	67.00	53.00
8-	68.00	52.00
8-	69.00	51.00
8-	70.00	51.00
8-	71.00	50.00
8-	199.00	50.00

Matrix Schedule

Sched:

Matrix: DEPR GD

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	99.00
1	2.00	98.00
1	3.00	97.00
1	4.00	96.00
1	5.00	95.00
1	6.00	95.00
1	7.00	94.00
1	8.00	93.00
1	9.00	92.00
1	10.00	91.00
1	11.00	90.00
1	12.00	89.00
1	13.00	88.00
1	14.00	88.00
1	15.00	87.00
1	16.00	86.00
1	17.00	85.00
1	18.00	84.00
1	19.00	83.00
1	20.00	82.00
1	21.00	81.00
1	22.00	81.00
1	23.00	80.00
1	24.00	79.00
1	25.00	78.00
1	26.00	77.00
1	27.00	76.00
1	28.00	75.00
1	29.00	74.00
1	30.00	73.00
1	31.00	73.00
1	32.00	72.00
1	33.00	71.00
1	34.00	70.00
1	35.00	69.00
1	36.00	68.00
1	37.00	67.00
1	38.00	66.00
1	39.00	66.00
1	40.00	65.00
1	41.00	64.00
1	42.00	63.00
1	43.00	62.00
1	44.00	61.00
1	45.00	60.00
1	46.00	59.00
1	47.00	59.00
1	48.00	58.00
1	49.00	57.00
1	50.00	56.00
1	51.00	55.00
1	52.00	55.00
1	53.00	55.00
1	54.00	55.00
1	55.00	55.00
1	56.00	55.00
1	57.00	55.00
1	58.00	55.00
1	59.00	55.00
1	60.00	55.00
1	61.00	55.00
1	62.00	55.00
1	63.00	55.00
1	64.00	55.00
1	65.00	55.00
1	66.00	55.00
1	67.00	55.00
1	68.00	55.00
1	69.00	55.00
1	70.00	55.00
1	71.00	55.00
1	199.00	55.00
1+	1.00	99.00
1+	2.00	98.00
1+	3.00	97.00
1+	4.00	96.00
1+	5.00	95.00
1+	6.00	95.00
1+	7.00	94.00
1+	8.00	93.00
1+	9.00	92.00
1+	10.00	91.00
1+	11.00	90.00
1+	12.00	89.00
1+	13.00	88.00
1+	14.00	88.00
1+	15.00	87.00
1+	16.00	86.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	85.00
1+	18.00	84.00
1+	19.00	83.00
1+	20.00	82.00
1+	21.00	81.00
1+	22.00	81.00
1+	23.00	80.00
1+	24.00	79.00
1+	25.00	78.00
1+	26.00	77.00
1+	27.00	76.00
1+	28.00	75.00
1+	29.00	74.00
1+	30.00	73.00
1+	31.00	73.00
1+	32.00	72.00
1+	33.00	71.00
1+	34.00	70.00
1+	35.00	69.00
1+	36.00	68.00
1+	37.00	67.00
1+	38.00	66.00
1+	39.00	66.00
1+	40.00	65.00
1+	41.00	64.00
1+	42.00	63.00
1+	43.00	62.00
1+	44.00	61.00
1+	45.00	60.00
1+	46.00	59.00
1+	47.00	59.00
1+	48.00	58.00
1+	49.00	57.00
1+	50.00	56.00
1+	51.00	55.00
1+	52.00	55.00
1+	53.00	55.00
1+	54.00	55.00
1+	55.00	55.00
1+	56.00	55.00
1+	57.00	55.00
1+	58.00	55.00
1+	59.00	55.00
1+	60.00	55.00
1+	61.00	55.00
1+	62.00	55.00
1+	63.00	55.00
1+	64.00	55.00
1+	65.00	55.00
1+	66.00	55.00
1+	67.00	55.00
1+	68.00	55.00
1+	69.00	55.00
1+	70.00	55.00
1+	71.00	55.00
1+	199.00	55.00
1-	1.00	99.00
1-	2.00	98.00
1-	3.00	97.00
1-	4.00	96.00
1-	5.00	95.00
1-	6.00	95.00
1-	7.00	94.00
1-	8.00	93.00
1-	9.00	92.00
1-	10.00	91.00
1-	11.00	90.00
1-	12.00	89.00
1-	13.00	88.00
1-	14.00	88.00
1-	15.00	87.00
1-	16.00	86.00
1-	17.00	85.00
1-	18.00	84.00
1-	19.00	83.00
1-	20.00	82.00
1-	21.00	81.00
1-	22.00	81.00
1-	23.00	80.00
1-	24.00	79.00
1-	25.00	78.00
1-	26.00	77.00
1-	27.00	76.00
1-	28.00	75.00
1-	29.00	74.00
1-	30.00	73.00
1-	31.00	73.00
1-	32.00	72.00
1-	33.00	71.00
1-	34.00	70.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	69.00
1-	36.00	68.00
1-	37.00	67.00
1-	38.00	66.00
1-	39.00	66.00
1-	40.00	65.00
1-	41.00	64.00
1-	42.00	63.00
1-	43.00	62.00
1-	44.00	61.00
1-	45.00	60.00
1-	46.00	59.00
1-	47.00	59.00
1-	48.00	58.00
1-	49.00	57.00
1-	50.00	56.00
1-	51.00	55.00
1-	52.00	55.00
1-	53.00	55.00
1-	54.00	55.00
1-	55.00	55.00
1-	56.00	55.00
1-	57.00	55.00
1-	58.00	55.00
1-	59.00	55.00
1-	60.00	55.00
1-	61.00	55.00
1-	62.00	55.00
1-	63.00	55.00
1-	64.00	55.00
1-	65.00	55.00
1-	66.00	55.00
1-	67.00	55.00
1-	68.00	55.00
1-	69.00	55.00
1-	70.00	55.00
1-	71.00	55.00
1-	199.00	55.00
2	1.00	99.00
2	2.00	98.00
2	3.00	97.00
2	4.00	96.00
2	5.00	95.00
2	6.00	95.00
2	7.00	94.00
2	8.00	93.00
2	9.00	92.00
2	10.00	91.00
2	11.00	90.00
2	12.00	89.00
2	13.00	88.00
2	14.00	88.00
2	15.00	87.00
2	16.00	86.00
2	17.00	85.00
2	18.00	84.00
2	19.00	83.00
2	20.00	82.00
2	21.00	81.00
2	22.00	81.00
2	23.00	80.00
2	24.00	79.00
2	25.00	78.00
2	26.00	77.00
2	27.00	76.00
2	28.00	75.00
2	29.00	74.00
2	30.00	73.00
2	31.00	73.00
2	32.00	72.00
2	33.00	71.00
2	34.00	70.00
2	35.00	69.00
2	36.00	68.00
2	37.00	67.00
2	38.00	66.00
2	39.00	66.00
2	40.00	65.00
2	41.00	64.00
2	42.00	63.00
2	43.00	62.00
2	44.00	61.00
2	45.00	60.00
2	46.00	59.00
2	47.00	59.00
2	48.00	58.00
2	49.00	57.00
2	50.00	56.00
2	51.00	55.00
2	52.00	55.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	55.00
2	54.00	55.00
2	55.00	55.00
2	56.00	55.00
2	57.00	55.00
2	58.00	55.00
2	59.00	55.00
2	60.00	55.00
2	61.00	55.00
2	62.00	55.00
2	63.00	55.00
2	64.00	55.00
2	65.00	55.00
2	66.00	55.00
2	67.00	55.00
2	68.00	55.00
2	69.00	55.00
2	70.00	55.00
2	71.00	55.00
2	199.00	55.00
2+	1.00	99.00
2+	2.00	98.00
2+	3.00	97.00
2+	4.00	96.00
2+	5.00	95.00
2+	6.00	95.00
2+	7.00	94.00
2+	8.00	93.00
2+	9.00	92.00
2+	10.00	91.00
2+	11.00	90.00
2+	12.00	89.00
2+	13.00	88.00
2+	14.00	88.00
2+	15.00	87.00
2+	16.00	86.00
2+	17.00	85.00
2+	18.00	84.00
2+	19.00	83.00
2+	20.00	82.00
2+	21.00	81.00
2+	22.00	81.00
2+	23.00	80.00
2+	24.00	79.00
2+	25.00	78.00
2+	26.00	77.00
2+	27.00	76.00
2+	28.00	75.00
2+	29.00	74.00
2+	30.00	73.00
2+	31.00	73.00
2+	32.00	72.00
2+	33.00	71.00
2+	34.00	70.00
2+	35.00	69.00
2+	36.00	68.00
2+	37.00	67.00
2+	38.00	66.00
2+	39.00	66.00
2+	40.00	65.00
2+	41.00	64.00
2+	42.00	63.00
2+	43.00	62.00
2+	44.00	61.00
2+	45.00	60.00
2+	46.00	59.00
2+	47.00	59.00
2+	48.00	58.00
2+	49.00	57.00
2+	50.00	56.00
2+	51.00	55.00
2+	52.00	55.00
2+	53.00	55.00
2+	54.00	55.00
2+	55.00	55.00
2+	56.00	55.00
2+	57.00	55.00
2+	58.00	55.00
2+	59.00	55.00
2+	60.00	55.00
2+	61.00	55.00
2+	62.00	55.00
2+	63.00	55.00
2+	64.00	55.00
2+	65.00	55.00
2+	66.00	55.00
2+	67.00	55.00
2+	68.00	55.00
2+	69.00	55.00
2+	70.00	55.00

Sched:

Matrix: DEPR GD X Axis: CLASS Label: DEPR

Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	55.00
2+	199.00	55.00
2-	1.00	99.00
2-	2.00	98.00
2-	3.00	97.00
2-	4.00	96.00
2-	5.00	95.00
2-	6.00	95.00
2-	7.00	94.00
2-	8.00	93.00
2-	9.00	92.00
2-	10.00	91.00
2-	11.00	90.00
2-	12.00	89.00
2-	13.00	88.00
2-	14.00	88.00
2-	15.00	87.00
2-	16.00	86.00
2-	17.00	85.00
2-	18.00	84.00
2-	19.00	83.00
2-	20.00	82.00
2-	21.00	81.00
2-	22.00	81.00
2-	23.00	80.00
2-	24.00	79.00
2-	25.00	78.00
2-	26.00	77.00
2-	27.00	76.00
2-	28.00	75.00
2-	29.00	74.00
2-	30.00	73.00
2-	31.00	73.00
2-	32.00	72.00
2-	33.00	71.00
2-	34.00	70.00
2-	35.00	69.00
2-	36.00	68.00
2-	37.00	67.00
2-	38.00	66.00
2-	39.00	66.00
2-	40.00	65.00
2-	41.00	64.00
2-	42.00	63.00
2-	43.00	62.00
2-	44.00	61.00
2-	45.00	60.00
2-	46.00	59.00
2-	47.00	59.00
2-	48.00	58.00
2-	49.00	57.00
2-	50.00	56.00
2-	51.00	55.00
2-	52.00	55.00
2-	53.00	55.00
2-	54.00	55.00
2-	55.00	55.00
2-	56.00	55.00
2-	57.00	55.00
2-	58.00	55.00
2-	59.00	55.00
2-	60.00	55.00
2-	61.00	55.00
2-	62.00	55.00
2-	63.00	55.00
2-	64.00	55.00
2-	65.00	55.00
2-	66.00	55.00
2-	67.00	55.00
2-	68.00	55.00
2-	69.00	55.00
2-	70.00	55.00
2-	71.00	55.00
2-	199.00	55.00
3	1.00	99.00
3	2.00	98.00
3	3.00	97.00
3	4.00	97.00
3	5.00	96.00
3	6.00	95.00
3	7.00	94.00
3	8.00	93.00
3	9.00	93.00
3	10.00	92.00
3	11.00	91.00
3	12.00	90.00
3	13.00	89.00
3	14.00	89.00
3	15.00	88.00
3	16.00	87.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	86.00
3	18.00	85.00
3	19.00	85.00
3	20.00	84.00
3	21.00	83.00
3	22.00	82.00
3	23.00	81.00
3	24.00	81.00
3	25.00	80.00
3	26.00	79.00
3	27.00	78.00
3	28.00	77.00
3	29.00	77.00
3	30.00	76.00
3	31.00	75.00
3	32.00	74.00
3	33.00	73.00
3	34.00	73.00
3	35.00	72.00
3	36.00	71.00
3	37.00	70.00
3	38.00	69.00
3	39.00	69.00
3	40.00	68.00
3	41.00	67.00
3	42.00	66.00
3	43.00	65.00
3	44.00	65.00
3	45.00	64.00
3	46.00	63.00
3	47.00	62.00
3	48.00	61.00
3	49.00	61.00
3	50.00	60.00
3	51.00	59.00
3	52.00	58.00
3	53.00	57.00
3	54.00	57.00
3	55.00	56.00
3	56.00	55.00
3	57.00	55.00
3	58.00	55.00
3	59.00	55.00
3	60.00	55.00
3	61.00	55.00
3	62.00	55.00
3	63.00	55.00
3	64.00	55.00
3	65.00	55.00
3	66.00	55.00
3	67.00	55.00
3	68.00	55.00
3	69.00	55.00
3	70.00	55.00
3	71.00	55.00
3	199.00	55.00
3+	1.00	99.00
3+	2.00	98.00
3+	3.00	97.00
3+	4.00	97.00
3+	5.00	96.00
3+	6.00	95.00
3+	7.00	94.00
3+	8.00	93.00
3+	9.00	93.00
3+	10.00	92.00
3+	11.00	91.00
3+	12.00	90.00
3+	13.00	89.00
3+	14.00	89.00
3+	15.00	88.00
3+	16.00	87.00
3+	17.00	86.00
3+	18.00	85.00
3+	19.00	85.00
3+	20.00	84.00
3+	21.00	83.00
3+	22.00	82.00
3+	23.00	81.00
3+	24.00	81.00
3+	25.00	80.00
3+	26.00	79.00
3+	27.00	78.00
3+	28.00	77.00
3+	29.00	77.00
3+	30.00	76.00
3+	31.00	75.00
3+	32.00	74.00
3+	33.00	73.00
3+	34.00	73.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	72.00
3+	36.00	71.00
3+	37.00	70.00
3+	38.00	69.00
3+	39.00	69.00
3+	40.00	68.00
3+	41.00	67.00
3+	42.00	66.00
3+	43.00	65.00
3+	44.00	65.00
3+	45.00	64.00
3+	46.00	63.00
3+	47.00	62.00
3+	48.00	61.00
3+	49.00	61.00
3+	50.00	60.00
3+	51.00	59.00
3+	52.00	58.00
3+	53.00	57.00
3+	54.00	57.00
3+	55.00	56.00
3+	56.00	55.00
3+	57.00	55.00
3+	58.00	55.00
3+	59.00	55.00
3+	60.00	55.00
3+	61.00	55.00
3+	62.00	55.00
3+	63.00	55.00
3+	64.00	55.00
3+	65.00	55.00
3+	66.00	55.00
3+	67.00	55.00
3+	68.00	55.00
3+	69.00	55.00
3+	70.00	55.00
3+	71.00	55.00
3+	199.00	55.00
3-	1.00	99.00
3-	2.00	98.00
3-	3.00	97.00
3-	4.00	97.00
3-	5.00	96.00
3-	6.00	95.00
3-	7.00	94.00
3-	8.00	93.00
3-	9.00	93.00
3-	10.00	92.00
3-	11.00	91.00
3-	12.00	90.00
3-	13.00	89.00
3-	14.00	89.00
3-	15.00	88.00
3-	16.00	87.00
3-	17.00	86.00
3-	18.00	85.00
3-	19.00	85.00
3-	20.00	84.00
3-	21.00	83.00
3-	22.00	82.00
3-	23.00	81.00
3-	24.00	81.00
3-	25.00	80.00
3-	26.00	79.00
3-	27.00	78.00
3-	28.00	77.00
3-	29.00	77.00
3-	30.00	76.00
3-	31.00	75.00
3-	32.00	74.00
3-	33.00	73.00
3-	34.00	73.00
3-	35.00	72.00
3-	36.00	71.00
3-	37.00	70.00
3-	38.00	69.00
3-	39.00	69.00
3-	40.00	68.00
3-	41.00	67.00
3-	42.00	66.00
3-	43.00	65.00
3-	44.00	65.00
3-	45.00	64.00
3-	46.00	63.00
3-	47.00	62.00
3-	48.00	61.00
3-	49.00	61.00
3-	50.00	60.00
3-	51.00	59.00
3-	52.00	58.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	57.00
3-	54.00	57.00
3-	55.00	56.00
3-	56.00	55.00
3-	57.00	55.00
3-	58.00	55.00
3-	59.00	55.00
3-	60.00	55.00
3-	61.00	55.00
3-	62.00	55.00
3-	63.00	55.00
3-	64.00	55.00
3-	65.00	55.00
3-	66.00	55.00
3-	67.00	55.00
3-	68.00	55.00
3-	69.00	55.00
3-	70.00	55.00
3-	71.00	55.00
3-	199.00	55.00
4	1.00	99.00
4	2.00	98.00
4	3.00	98.00
4	4.00	97.00
4	5.00	96.00
4	6.00	95.00
4	7.00	95.00
4	8.00	94.00
4	9.00	93.00
4	10.00	92.00
4	11.00	92.00
4	12.00	91.00
4	13.00	90.00
4	14.00	89.00
4	15.00	89.00
4	16.00	88.00
4	17.00	87.00
4	18.00	87.00
4	19.00	86.00
4	20.00	85.00
4	21.00	84.00
4	22.00	84.00
4	23.00	83.00
4	24.00	82.00
4	25.00	81.00
4	26.00	81.00
4	27.00	80.00
4	28.00	79.00
4	29.00	78.00
4	30.00	78.00
4	31.00	77.00
4	32.00	76.00
4	33.00	76.00
4	34.00	75.00
4	35.00	74.00
4	36.00	73.00
4	37.00	73.00
4	38.00	72.00
4	39.00	71.00
4	40.00	70.00
4	41.00	70.00
4	42.00	69.00
4	43.00	68.00
4	44.00	67.00
4	45.00	67.00
4	46.00	66.00
4	47.00	65.00
4	48.00	65.00
4	49.00	64.00
4	50.00	63.00
4	51.00	62.00
4	52.00	62.00
4	53.00	61.00
4	54.00	60.00
4	55.00	59.00
4	56.00	59.00
4	57.00	58.00
4	58.00	57.00
4	59.00	56.00
4	60.00	56.00
4	61.00	55.00
4	62.00	55.00
4	63.00	55.00
4	64.00	55.00
4	65.00	55.00
4	66.00	55.00
4	67.00	55.00
4	68.00	55.00
4	69.00	55.00
4	70.00	55.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	55.00
4	199.00	55.00
4+	1.00	99.00
4+	2.00	98.00
4+	3.00	98.00
4+	4.00	97.00
4+	5.00	96.00
4+	6.00	95.00
4+	7.00	95.00
4+	8.00	94.00
4+	9.00	93.00
4+	10.00	92.00
4+	11.00	92.00
4+	12.00	91.00
4+	13.00	90.00
4+	14.00	89.00
4+	15.00	89.00
4+	16.00	88.00
4+	17.00	87.00
4+	18.00	87.00
4+	19.00	86.00
4+	20.00	85.00
4+	21.00	84.00
4+	22.00	84.00
4+	23.00	83.00
4+	24.00	82.00
4+	25.00	81.00
4+	26.00	81.00
4+	27.00	80.00
4+	28.00	79.00
4+	29.00	78.00
4+	30.00	78.00
4+	31.00	77.00
4+	32.00	76.00
4+	33.00	76.00
4+	34.00	75.00
4+	35.00	74.00
4+	36.00	73.00
4+	37.00	73.00
4+	38.00	72.00
4+	39.00	71.00
4+	40.00	70.00
4+	41.00	70.00
4+	42.00	69.00
4+	43.00	68.00
4+	44.00	67.00
4+	45.00	67.00
4+	46.00	66.00
4+	47.00	65.00
4+	48.00	65.00
4+	49.00	64.00
4+	50.00	63.00
4+	51.00	62.00
4+	52.00	62.00
4+	53.00	61.00
4+	54.00	60.00
4+	55.00	59.00
4+	56.00	59.00
4+	57.00	58.00
4+	58.00	57.00
4+	59.00	56.00
4+	60.00	56.00
4+	61.00	55.00
4+	62.00	55.00
4+	63.00	55.00
4+	64.00	55.00
4+	65.00	55.00
4+	66.00	55.00
4+	67.00	55.00
4+	68.00	55.00
4+	69.00	55.00
4+	70.00	55.00
4+	71.00	55.00
4+	199.00	55.00
4-	1.00	99.00
4-	2.00	98.00
4-	3.00	98.00
4-	4.00	97.00
4-	5.00	96.00
4-	6.00	95.00
4-	7.00	95.00
4-	8.00	94.00
4-	9.00	93.00
4-	10.00	92.00
4-	11.00	92.00
4-	12.00	91.00
4-	13.00	90.00
4-	14.00	89.00
4-	15.00	89.00
4-	16.00	88.00

Sched:
Matrix: DEPR GD X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	87.00
4-	18.00	87.00
4-	19.00	86.00
4-	20.00	85.00
4-	21.00	84.00
4-	22.00	84.00
4-	23.00	83.00
4-	24.00	82.00
4-	25.00	81.00
4-	26.00	81.00
4-	27.00	80.00
4-	28.00	79.00
4-	29.00	78.00
4-	30.00	78.00
4-	31.00	77.00
4-	32.00	76.00
4-	33.00	76.00
4-	34.00	75.00
4-	35.00	74.00
4-	36.00	73.00
4-	37.00	73.00
4-	38.00	72.00
4-	39.00	71.00
4-	40.00	70.00
4-	41.00	70.00
4-	42.00	69.00
4-	43.00	68.00
4-	44.00	67.00
4-	45.00	67.00
4-	46.00	66.00
4-	47.00	65.00
4-	48.00	65.00
4-	49.00	64.00
4-	50.00	63.00
4-	51.00	62.00
4-	52.00	62.00
4-	53.00	61.00
4-	54.00	60.00
4-	55.00	59.00
4-	56.00	59.00
4-	57.00	58.00
4-	58.00	57.00
4-	59.00	56.00
4-	60.00	56.00
4-	61.00	55.00
4-	62.00	55.00
4-	63.00	55.00
4-	64.00	55.00
4-	65.00	55.00
4-	66.00	55.00
4-	67.00	55.00
4-	68.00	55.00
4-	69.00	55.00
4-	70.00	55.00
4-	71.00	55.00
4-	199.00	55.00
5	1.00	99.00
5	2.00	98.00
5	3.00	98.00
5	4.00	97.00
5	5.00	96.00
5	6.00	96.00
5	7.00	95.00
5	8.00	94.00
5	9.00	94.00
5	10.00	93.00
5	11.00	92.00
5	12.00	92.00
5	13.00	91.00
5	14.00	90.00
5	15.00	90.00
5	16.00	89.00
5	17.00	88.00
5	18.00	87.00
5	19.00	87.00
5	20.00	86.00
5	21.00	85.00
5	22.00	85.00
5	23.00	84.00
5	24.00	83.00
5	25.00	83.00
5	26.00	82.00
5	27.00	81.00
5	28.00	81.00
5	29.00	80.00
5	30.00	79.00
5	31.00	79.00
5	32.00	78.00
5	33.00	77.00
5	34.00	77.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	76.00
5	36.00	75.00
5	37.00	75.00
5	38.00	74.00
5	39.00	73.00
5	40.00	73.00
5	41.00	72.00
5	42.00	71.00
5	43.00	71.00
5	44.00	70.00
5	45.00	69.00
5	46.00	69.00
5	47.00	68.00
5	48.00	67.00
5	49.00	67.00
5	50.00	66.00
5	51.00	65.00
5	52.00	64.00
5	53.00	64.00
5	54.00	63.00
5	55.00	62.00
5	56.00	62.00
5	57.00	61.00
5	58.00	60.00
5	59.00	60.00
5	60.00	59.00
5	61.00	58.00
5	62.00	58.00
5	63.00	57.00
5	64.00	56.00
5	65.00	56.00
5	66.00	55.00
5	67.00	55.00
5	68.00	55.00
5	69.00	55.00
5	70.00	55.00
5	71.00	55.00
5	199.00	55.00
5+	1.00	99.00
5+	2.00	98.00
5+	3.00	98.00
5+	4.00	97.00
5+	5.00	96.00
5+	6.00	96.00
5+	7.00	95.00
5+	8.00	94.00
5+	9.00	94.00
5+	10.00	93.00
5+	11.00	92.00
5+	12.00	92.00
5+	13.00	91.00
5+	14.00	90.00
5+	15.00	90.00
5+	16.00	89.00
5+	17.00	88.00
5+	18.00	87.00
5+	19.00	87.00
5+	20.00	86.00
5+	21.00	85.00
5+	22.00	85.00
5+	23.00	84.00
5+	24.00	83.00
5+	25.00	83.00
5+	26.00	82.00
5+	27.00	81.00
5+	28.00	81.00
5+	29.00	80.00
5+	30.00	79.00
5+	31.00	79.00
5+	32.00	78.00
5+	33.00	77.00
5+	34.00	77.00
5+	35.00	76.00
5+	36.00	75.00
5+	37.00	75.00
5+	38.00	74.00
5+	39.00	73.00
5+	40.00	73.00
5+	41.00	72.00
5+	42.00	71.00
5+	43.00	71.00
5+	44.00	70.00
5+	45.00	69.00
5+	46.00	69.00
5+	47.00	68.00
5+	48.00	67.00
5+	49.00	67.00
5+	50.00	66.00
5+	51.00	65.00
5+	52.00	64.00

Sched:

Matrix: DEPR GD

Adj Factor: N/A

X Axis: CLASS

Y Axis: YEAR

Label: DEPR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	64.00
5+	54.00	63.00
5+	55.00	62.00
5+	56.00	62.00
5+	57.00	61.00
5+	58.00	60.00
5+	59.00	60.00
5+	60.00	59.00
5+	61.00	58.00
5+	62.00	58.00
5+	63.00	57.00
5+	64.00	56.00
5+	65.00	56.00
5+	66.00	55.00
5+	67.00	55.00
5+	68.00	55.00
5+	69.00	55.00
5+	70.00	55.00
5+	71.00	55.00
5+	199.00	55.00
5-	1.00	99.00
5-	2.00	98.00
5-	3.00	98.00
5-	4.00	97.00
5-	5.00	96.00
5-	6.00	96.00
5-	7.00	95.00
5-	8.00	94.00
5-	9.00	94.00
5-	10.00	93.00
5-	11.00	92.00
5-	12.00	92.00
5-	13.00	91.00
5-	14.00	90.00
5-	15.00	90.00
5-	16.00	89.00
5-	17.00	88.00
5-	18.00	87.00
5-	19.00	87.00
5-	20.00	86.00
5-	21.00	85.00
5-	22.00	85.00
5-	23.00	84.00
5-	24.00	83.00
5-	25.00	83.00
5-	26.00	82.00
5-	27.00	81.00
5-	28.00	81.00
5-	29.00	80.00
5-	30.00	79.00
5-	31.00	79.00
5-	32.00	78.00
5-	33.00	77.00
5-	34.00	77.00
5-	35.00	76.00
5-	36.00	75.00
5-	37.00	75.00
5-	38.00	74.00
5-	39.00	73.00
5-	40.00	73.00
5-	41.00	72.00
5-	42.00	71.00
5-	43.00	71.00
5-	44.00	70.00
5-	45.00	69.00
5-	46.00	69.00
5-	47.00	68.00
5-	48.00	67.00
5-	49.00	67.00
5-	50.00	66.00
5-	51.00	65.00
5-	52.00	64.00
5-	53.00	64.00
5-	54.00	63.00
5-	55.00	62.00
5-	56.00	62.00
5-	57.00	61.00
5-	58.00	60.00
5-	59.00	60.00
5-	60.00	59.00
5-	61.00	58.00
5-	62.00	58.00
5-	63.00	57.00
5-	64.00	56.00
5-	65.00	56.00
5-	66.00	55.00
5-	67.00	55.00
5-	68.00	55.00
5-	69.00	55.00
5-	70.00	55.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	55.00
5-	199.00	55.00
6	1.00	99.00
6	2.00	98.00
6	3.00	98.00
6	4.00	97.00
6	5.00	96.00
6	6.00	96.00
6	7.00	95.00
6	8.00	95.00
6	9.00	94.00
6	10.00	93.00
6	11.00	93.00
6	12.00	92.00
6	13.00	91.00
6	14.00	91.00
6	15.00	90.00
6	16.00	90.00
6	17.00	89.00
6	18.00	88.00
6	19.00	88.00
6	20.00	87.00
6	21.00	86.00
6	22.00	86.00
6	23.00	85.00
6	24.00	85.00
6	25.00	84.00
6	26.00	83.00
6	27.00	83.00
6	28.00	82.00
6	29.00	81.00
6	30.00	81.00
6	31.00	80.00
6	32.00	80.00
6	33.00	79.00
6	34.00	78.00
6	35.00	78.00
6	36.00	77.00
6	37.00	76.00
6	38.00	76.00
6	39.00	75.00
6	40.00	74.00
6	41.00	74.00
6	42.00	73.00
6	43.00	73.00
6	44.00	72.00
6	45.00	71.00
6	46.00	71.00
6	47.00	70.00
6	48.00	69.00
6	49.00	69.00
6	50.00	68.00
6	51.00	68.00
6	52.00	67.00
6	53.00	66.00
6	54.00	66.00
6	55.00	65.00
6	56.00	64.00
6	57.00	64.00
6	58.00	63.00
6	59.00	63.00
6	60.00	62.00
6	61.00	61.00
6	62.00	61.00
6	63.00	60.00
6	64.00	59.00
6	65.00	59.00
6	66.00	58.00
6	67.00	58.00
6	68.00	57.00
6	69.00	56.00
6	70.00	56.00
6	71.00	55.00
6	199.00	55.00
6+	1.00	99.00
6+	2.00	98.00
6+	3.00	98.00
6+	4.00	97.00
6+	5.00	96.00
6+	6.00	96.00
6+	7.00	95.00
6+	8.00	95.00
6+	9.00	94.00
6+	10.00	93.00
6+	11.00	93.00
6+	12.00	92.00
6+	13.00	91.00
6+	14.00	91.00
6+	15.00	90.00
6+	16.00	90.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	89.00
6+	18.00	88.00
6+	19.00	88.00
6+	20.00	87.00
6+	21.00	86.00
6+	22.00	86.00
6+	23.00	85.00
6+	24.00	85.00
6+	25.00	84.00
6+	26.00	83.00
6+	27.00	83.00
6+	28.00	82.00
6+	29.00	81.00
6+	30.00	81.00
6+	31.00	80.00
6+	32.00	80.00
6+	33.00	79.00
6+	34.00	78.00
6+	35.00	78.00
6+	36.00	77.00
6+	37.00	76.00
6+	38.00	76.00
6+	39.00	75.00
6+	40.00	74.00
6+	41.00	74.00
6+	42.00	73.00
6+	43.00	73.00
6+	44.00	72.00
6+	45.00	71.00
6+	46.00	71.00
6+	47.00	70.00
6+	48.00	69.00
6+	49.00	69.00
6+	50.00	68.00
6+	51.00	68.00
6+	52.00	67.00
6+	53.00	66.00
6+	54.00	66.00
6+	55.00	65.00
6+	56.00	64.00
6+	57.00	64.00
6+	58.00	63.00
6+	59.00	63.00
6+	60.00	62.00
6+	61.00	61.00
6+	62.00	61.00
6+	63.00	60.00
6+	64.00	59.00
6+	65.00	59.00
6+	66.00	58.00
6+	67.00	58.00
6+	68.00	57.00
6+	69.00	56.00
6+	70.00	56.00
6+	71.00	55.00
6+	199.00	55.00
6-	1.00	99.00
6-	2.00	98.00
6-	3.00	98.00
6-	4.00	97.00
6-	5.00	96.00
6-	6.00	96.00
6-	7.00	95.00
6-	8.00	95.00
6-	9.00	94.00
6-	10.00	93.00
6-	11.00	93.00
6-	12.00	92.00
6-	13.00	91.00
6-	14.00	91.00
6-	15.00	90.00
6-	16.00	90.00
6-	17.00	89.00
6-	18.00	88.00
6-	19.00	88.00
6-	20.00	87.00
6-	21.00	86.00
6-	22.00	86.00
6-	23.00	85.00
6-	24.00	85.00
6-	25.00	84.00
6-	26.00	83.00
6-	27.00	83.00
6-	28.00	82.00
6-	29.00	81.00
6-	30.00	81.00
6-	31.00	80.00
6-	32.00	80.00
6-	33.00	79.00
6-	34.00	78.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	78.00
6-	36.00	77.00
6-	37.00	76.00
6-	38.00	76.00
6-	39.00	75.00
6-	40.00	74.00
6-	41.00	74.00
6-	42.00	73.00
6-	43.00	73.00
6-	44.00	72.00
6-	45.00	71.00
6-	46.00	71.00
6-	47.00	70.00
6-	48.00	69.00
6-	49.00	69.00
6-	50.00	68.00
6-	51.00	68.00
6-	52.00	67.00
6-	53.00	66.00
6-	54.00	66.00
6-	55.00	65.00
6-	56.00	64.00
6-	57.00	64.00
6-	58.00	63.00
6-	59.00	63.00
6-	60.00	62.00
6-	61.00	61.00
6-	62.00	61.00
6-	63.00	60.00
6-	64.00	59.00
6-	65.00	59.00
6-	66.00	58.00
6-	67.00	58.00
6-	68.00	57.00
6-	69.00	56.00
6-	70.00	56.00
6-	71.00	55.00
6-	199.00	55.00
7	1.00	99.00
7	2.00	98.00
7	3.00	98.00
7	4.00	97.00
7	5.00	96.00
7	6.00	96.00
7	7.00	95.00
7	8.00	95.00
7	9.00	94.00
7	10.00	93.00
7	11.00	93.00
7	12.00	92.00
7	13.00	91.00
7	14.00	91.00
7	15.00	90.00
7	16.00	90.00
7	17.00	89.00
7	18.00	88.00
7	19.00	88.00
7	20.00	87.00
7	21.00	86.00
7	22.00	86.00
7	23.00	85.00
7	24.00	85.00
7	25.00	84.00
7	26.00	83.00
7	27.00	83.00
7	28.00	82.00
7	29.00	81.00
7	30.00	81.00
7	31.00	80.00
7	32.00	80.00
7	33.00	79.00
7	34.00	78.00
7	35.00	78.00
7	36.00	77.00
7	37.00	76.00
7	38.00	76.00
7	39.00	75.00
7	40.00	74.00
7	41.00	74.00
7	42.00	73.00
7	43.00	73.00
7	44.00	72.00
7	45.00	71.00
7	46.00	71.00
7	47.00	70.00
7	48.00	69.00
7	49.00	69.00
7	50.00	68.00
7	51.00	68.00
7	52.00	67.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	66.00
7	54.00	66.00
7	55.00	65.00
7	56.00	64.00
7	57.00	64.00
7	58.00	63.00
7	59.00	63.00
7	60.00	62.00
7	61.00	61.00
7	62.00	61.00
7	63.00	60.00
7	64.00	59.00
7	65.00	59.00
7	66.00	58.00
7	67.00	58.00
7	68.00	57.00
7	69.00	56.00
7	70.00	56.00
7	71.00	55.00
7	199.00	55.00
7+	1.00	99.00
7+	2.00	98.00
7+	3.00	98.00
7+	4.00	97.00
7+	5.00	96.00
7+	6.00	96.00
7+	7.00	95.00
7+	8.00	95.00
7+	9.00	94.00
7+	10.00	93.00
7+	11.00	93.00
7+	12.00	92.00
7+	13.00	91.00
7+	14.00	91.00
7+	15.00	90.00
7+	16.00	90.00
7+	17.00	89.00
7+	18.00	88.00
7+	19.00	88.00
7+	20.00	87.00
7+	21.00	86.00
7+	22.00	86.00
7+	23.00	85.00
7+	24.00	85.00
7+	25.00	84.00
7+	26.00	83.00
7+	27.00	83.00
7+	28.00	82.00
7+	29.00	81.00
7+	30.00	81.00
7+	31.00	80.00
7+	32.00	80.00
7+	33.00	79.00
7+	34.00	78.00
7+	35.00	78.00
7+	36.00	77.00
7+	37.00	76.00
7+	38.00	76.00
7+	39.00	75.00
7+	40.00	74.00
7+	41.00	74.00
7+	42.00	73.00
7+	43.00	73.00
7+	44.00	72.00
7+	45.00	71.00
7+	46.00	71.00
7+	47.00	70.00
7+	48.00	69.00
7+	49.00	69.00
7+	50.00	68.00
7+	51.00	68.00
7+	52.00	67.00
7+	53.00	66.00
7+	54.00	66.00
7+	55.00	65.00
7+	56.00	64.00
7+	57.00	64.00
7+	58.00	63.00
7+	59.00	63.00
7+	60.00	62.00
7+	61.00	61.00
7+	62.00	61.00
7+	63.00	60.00
7+	64.00	59.00
7+	65.00	59.00
7+	66.00	58.00
7+	67.00	58.00
7+	68.00	57.00
7+	69.00	56.00
7+	70.00	56.00

Sched:			
Matrix:	DEPR GD	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	55.00
7+	199.00	55.00
7-	1.00	99.00
7-	2.00	98.00
7-	3.00	98.00
7-	4.00	97.00
7-	5.00	96.00
7-	6.00	96.00
7-	7.00	95.00
7-	8.00	95.00
7-	9.00	94.00
7-	10.00	93.00
7-	11.00	93.00
7-	12.00	92.00
7-	13.00	91.00
7-	14.00	91.00
7-	15.00	90.00
7-	16.00	90.00
7-	17.00	89.00
7-	18.00	88.00
7-	19.00	88.00
7-	20.00	87.00
7-	21.00	86.00
7-	22.00	86.00
7-	23.00	85.00
7-	24.00	85.00
7-	25.00	84.00
7-	26.00	83.00
7-	27.00	83.00
7-	28.00	82.00
7-	29.00	81.00
7-	30.00	81.00
7-	31.00	80.00
7-	32.00	80.00
7-	33.00	79.00
7-	34.00	78.00
7-	35.00	78.00
7-	36.00	77.00
7-	37.00	76.00
7-	38.00	76.00
7-	39.00	75.00
7-	40.00	74.00
7-	41.00	74.00
7-	42.00	73.00
7-	43.00	73.00
7-	44.00	72.00
7-	45.00	71.00
7-	46.00	71.00
7-	47.00	70.00
7-	48.00	69.00
7-	49.00	69.00
7-	50.00	68.00
7-	51.00	68.00
7-	52.00	67.00
7-	53.00	66.00
7-	54.00	66.00
7-	55.00	65.00
7-	56.00	64.00
7-	57.00	64.00
7-	58.00	63.00
7-	59.00	63.00
7-	60.00	62.00
7-	61.00	61.00
7-	62.00	61.00
7-	63.00	60.00
7-	64.00	59.00
7-	65.00	59.00
7-	66.00	58.00
7-	67.00	58.00
7-	68.00	57.00
7-	69.00	56.00
7-	70.00	56.00
7-	71.00	55.00
7-	199.00	55.00
8	1.00	99.00
8	2.00	98.00
8	3.00	98.00
8	4.00	97.00
8	5.00	96.00
8	6.00	96.00
8	7.00	95.00
8	8.00	95.00
8	9.00	94.00
8	10.00	93.00
8	11.00	93.00
8	12.00	92.00
8	13.00	91.00
8	14.00	91.00
8	15.00	90.00
8	16.00	90.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	89.00
8	18.00	88.00
8	19.00	88.00
8	20.00	87.00
8	21.00	86.00
8	22.00	86.00
8	23.00	85.00
8	24.00	85.00
8	25.00	84.00
8	26.00	83.00
8	27.00	83.00
8	28.00	82.00
8	29.00	81.00
8	30.00	81.00
8	31.00	80.00
8	32.00	80.00
8	33.00	79.00
8	34.00	78.00
8	35.00	78.00
8	36.00	77.00
8	37.00	76.00
8	38.00	76.00
8	39.00	75.00
8	40.00	74.00
8	41.00	74.00
8	42.00	73.00
8	43.00	73.00
8	44.00	72.00
8	45.00	71.00
8	46.00	71.00
8	47.00	70.00
8	48.00	69.00
8	49.00	69.00
8	50.00	68.00
8	51.00	68.00
8	52.00	67.00
8	53.00	66.00
8	54.00	66.00
8	55.00	65.00
8	56.00	64.00
8	57.00	64.00
8	58.00	63.00
8	59.00	63.00
8	60.00	62.00
8	61.00	61.00
8	62.00	61.00
8	63.00	60.00
8	64.00	59.00
8	65.00	59.00
8	66.00	58.00
8	67.00	58.00
8	68.00	57.00
8	69.00	56.00
8	70.00	56.00
8	71.00	55.00
8	199.00	55.00
8+	1.00	99.00
8+	2.00	98.00
8+	3.00	98.00
8+	4.00	97.00
8+	5.00	96.00
8+	6.00	96.00
8+	7.00	95.00
8+	8.00	95.00
8+	9.00	94.00
8+	10.00	93.00
8+	11.00	93.00
8+	12.00	92.00
8+	13.00	91.00
8+	14.00	91.00
8+	15.00	90.00
8+	16.00	90.00
8+	17.00	89.00
8+	18.00	88.00
8+	19.00	88.00
8+	20.00	87.00
8+	21.00	86.00
8+	22.00	86.00
8+	23.00	85.00
8+	24.00	85.00
8+	25.00	84.00
8+	26.00	83.00
8+	27.00	83.00
8+	28.00	82.00
8+	29.00	81.00
8+	30.00	81.00
8+	31.00	80.00
8+	32.00	80.00
8+	33.00	79.00
8+	34.00	78.00

Sched: Matrix: DEPR GD X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	78.00
8+	36.00	77.00
8+	37.00	76.00
8+	38.00	76.00
8+	39.00	75.00
8+	40.00	74.00
8+	41.00	74.00
8+	42.00	73.00
8+	43.00	73.00
8+	44.00	72.00
8+	45.00	71.00
8+	46.00	71.00
8+	47.00	70.00
8+	48.00	69.00
8+	49.00	69.00
8+	50.00	68.00
8+	51.00	68.00
8+	52.00	67.00
8+	53.00	66.00
8+	54.00	66.00
8+	55.00	65.00
8+	56.00	64.00
8+	57.00	64.00
8+	58.00	63.00
8+	59.00	63.00
8+	60.00	62.00
8+	61.00	61.00
8+	62.00	61.00
8+	63.00	60.00
8+	64.00	59.00
8+	65.00	59.00
8+	66.00	58.00
8+	67.00	58.00
8+	68.00	57.00
8+	69.00	56.00
8+	70.00	56.00
8+	71.00	55.00
8+	199.00	55.00
8-	1.00	99.00
8-	2.00	98.00
8-	3.00	98.00
8-	4.00	97.00
8-	5.00	96.00
8-	6.00	96.00
8-	7.00	95.00
8-	8.00	95.00
8-	9.00	94.00
8-	10.00	93.00
8-	11.00	93.00
8-	12.00	92.00
8-	13.00	91.00
8-	14.00	91.00
8-	15.00	90.00
8-	16.00	90.00
8-	17.00	89.00
8-	18.00	88.00
8-	19.00	88.00
8-	20.00	87.00
8-	21.00	86.00
8-	22.00	86.00
8-	23.00	85.00
8-	24.00	85.00
8-	25.00	84.00
8-	26.00	83.00
8-	27.00	83.00
8-	28.00	82.00
8-	29.00	81.00
8-	30.00	81.00
8-	31.00	80.00
8-	32.00	80.00
8-	33.00	79.00
8-	34.00	78.00
8-	35.00	78.00
8-	36.00	77.00
8-	37.00	76.00
8-	38.00	76.00
8-	39.00	75.00
8-	40.00	74.00
8-	41.00	74.00
8-	42.00	73.00
8-	43.00	73.00
8-	44.00	72.00
8-	45.00	71.00
8-	46.00	71.00
8-	47.00	70.00
8-	48.00	69.00
8-	49.00	69.00
8-	50.00	68.00
8-	51.00	68.00
8-	52.00	67.00

Sched:
Matrix: DEPR GD
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	66.00
8-	54.00	66.00
8-	55.00	65.00
8-	56.00	64.00
8-	57.00	64.00
8-	58.00	63.00
8-	59.00	63.00
8-	60.00	62.00
8-	61.00	61.00
8-	62.00	61.00
8-	63.00	60.00
8-	64.00	59.00
8-	65.00	59.00
8-	66.00	58.00
8-	67.00	58.00
8-	68.00	57.00
8-	69.00	56.00
8-	70.00	56.00
8-	71.00	55.00
8-	199.00	55.00

Matrix Schedule

Sched:

Matrix: DEPR VG

Adj Factor: N/A

X Axis: CLASS

Y Axis: YEAR

Label: DEPR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	100.00
1	2.00	99.00
1	3.00	98.00
1	4.00	98.00
1	5.00	97.00
1	6.00	96.00
1	7.00	95.00
1	8.00	94.00
1	9.00	94.00
1	10.00	93.00
1	11.00	92.00
1	12.00	91.00
1	13.00	90.00
1	14.00	90.00
1	15.00	89.00
1	16.00	88.00
1	17.00	87.00
1	18.00	86.00
1	19.00	86.00
1	20.00	85.00
1	21.00	84.00
1	22.00	83.00
1	23.00	82.00
1	24.00	82.00
1	25.00	81.00
1	26.00	80.00
1	27.00	79.00
1	28.00	78.00
1	29.00	78.00
1	30.00	77.00
1	31.00	76.00
1	32.00	75.00
1	33.00	74.00
1	34.00	74.00
1	35.00	73.00
1	36.00	72.00
1	37.00	71.00
1	38.00	70.00
1	39.00	70.00
1	40.00	69.00
1	41.00	68.00
1	42.00	67.00
1	43.00	66.00
1	44.00	66.00
1	45.00	65.00
1	46.00	64.00
1	47.00	63.00
1	48.00	62.00
1	49.00	62.00
1	50.00	61.00
1	51.00	60.00
1	52.00	60.00
1	53.00	60.00
1	54.00	60.00
1	55.00	60.00
1	56.00	60.00
1	57.00	60.00
1	58.00	60.00
1	59.00	60.00
1	60.00	60.00
1	61.00	60.00
1	62.00	60.00
1	63.00	60.00
1	64.00	60.00
1	65.00	60.00
1	66.00	60.00
1	67.00	60.00
1	68.00	60.00
1	69.00	60.00
1	70.00	60.00
1	71.00	60.00
1	199.00	60.00
1+	1.00	100.00
1+	2.00	99.00
1+	3.00	98.00
1+	4.00	98.00
1+	5.00	97.00
1+	6.00	96.00
1+	7.00	95.00
1+	8.00	94.00
1+	9.00	94.00
1+	10.00	93.00
1+	11.00	92.00
1+	12.00	91.00
1+	13.00	90.00
1+	14.00	90.00
1+	15.00	89.00
1+	16.00	88.00

Sched:
Matrix: DEPR VG X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	87.00
1+	18.00	86.00
1+	19.00	86.00
1+	20.00	85.00
1+	21.00	84.00
1+	22.00	83.00
1+	23.00	82.00
1+	24.00	82.00
1+	25.00	81.00
1+	26.00	80.00
1+	27.00	79.00
1+	28.00	78.00
1+	29.00	78.00
1+	30.00	77.00
1+	31.00	76.00
1+	32.00	75.00
1+	33.00	74.00
1+	34.00	74.00
1+	35.00	73.00
1+	36.00	72.00
1+	37.00	71.00
1+	38.00	70.00
1+	39.00	70.00
1+	40.00	69.00
1+	41.00	68.00
1+	42.00	67.00
1+	43.00	66.00
1+	44.00	66.00
1+	45.00	65.00
1+	46.00	64.00
1+	47.00	63.00
1+	48.00	62.00
1+	49.00	62.00
1+	50.00	61.00
1+	51.00	60.00
1+	52.00	60.00
1+	53.00	60.00
1+	54.00	60.00
1+	55.00	60.00
1+	56.00	60.00
1+	57.00	60.00
1+	58.00	60.00
1+	59.00	60.00
1+	60.00	60.00
1+	61.00	60.00
1+	62.00	60.00
1+	63.00	60.00
1+	64.00	60.00
1+	65.00	60.00
1+	66.00	60.00
1+	67.00	60.00
1+	68.00	60.00
1+	69.00	60.00
1+	70.00	60.00
1+	71.00	60.00
1+	199.00	60.00
1-	1.00	100.00
1-	2.00	99.00
1-	3.00	98.00
1-	4.00	98.00
1-	5.00	97.00
1-	6.00	96.00
1-	7.00	95.00
1-	8.00	94.00
1-	9.00	94.00
1-	10.00	93.00
1-	11.00	92.00
1-	12.00	91.00
1-	13.00	90.00
1-	14.00	90.00
1-	15.00	89.00
1-	16.00	88.00
1-	17.00	87.00
1-	18.00	86.00
1-	19.00	86.00
1-	20.00	85.00
1-	21.00	84.00
1-	22.00	83.00
1-	23.00	82.00
1-	24.00	82.00
1-	25.00	81.00
1-	26.00	80.00
1-	27.00	79.00
1-	28.00	78.00
1-	29.00	78.00
1-	30.00	77.00
1-	31.00	76.00
1-	32.00	75.00
1-	33.00	74.00
1-	34.00	74.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	73.00
1-	36.00	72.00
1-	37.00	71.00
1-	38.00	70.00
1-	39.00	70.00
1-	40.00	69.00
1-	41.00	68.00
1-	42.00	67.00
1-	43.00	66.00
1-	44.00	66.00
1-	45.00	65.00
1-	46.00	64.00
1-	47.00	63.00
1-	48.00	62.00
1-	49.00	62.00
1-	50.00	61.00
1-	51.00	60.00
1-	52.00	60.00
1-	53.00	60.00
1-	54.00	60.00
1-	55.00	60.00
1-	56.00	60.00
1-	57.00	60.00
1-	58.00	60.00
1-	59.00	60.00
1-	60.00	60.00
1-	61.00	60.00
1-	62.00	60.00
1-	63.00	60.00
1-	64.00	60.00
1-	65.00	60.00
1-	66.00	60.00
1-	67.00	60.00
1-	68.00	60.00
1-	69.00	60.00
1-	70.00	60.00
1-	71.00	60.00
1-	199.00	60.00
2	1.00	100.00
2	2.00	99.00
2	3.00	98.00
2	4.00	98.00
2	5.00	97.00
2	6.00	96.00
2	7.00	95.00
2	8.00	94.00
2	9.00	94.00
2	10.00	93.00
2	11.00	92.00
2	12.00	91.00
2	13.00	90.00
2	14.00	90.00
2	15.00	89.00
2	16.00	88.00
2	17.00	87.00
2	18.00	86.00
2	19.00	86.00
2	20.00	85.00
2	21.00	84.00
2	22.00	83.00
2	23.00	82.00
2	24.00	82.00
2	25.00	81.00
2	26.00	80.00
2	27.00	79.00
2	28.00	78.00
2	29.00	78.00
2	30.00	77.00
2	31.00	76.00
2	32.00	75.00
2	33.00	74.00
2	34.00	74.00
2	35.00	73.00
2	36.00	72.00
2	37.00	71.00
2	38.00	70.00
2	39.00	70.00
2	40.00	69.00
2	41.00	68.00
2	42.00	67.00
2	43.00	66.00
2	44.00	66.00
2	45.00	65.00
2	46.00	64.00
2	47.00	63.00
2	48.00	62.00
2	49.00	62.00
2	50.00	61.00
2	51.00	60.00
2	52.00	60.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	60.00
2	54.00	60.00
2	55.00	60.00
2	56.00	60.00
2	57.00	60.00
2	58.00	60.00
2	59.00	60.00
2	60.00	60.00
2	61.00	60.00
2	62.00	60.00
2	63.00	60.00
2	64.00	60.00
2	65.00	60.00
2	66.00	60.00
2	67.00	60.00
2	68.00	60.00
2	69.00	60.00
2	70.00	60.00
2	71.00	60.00
2	199.00	60.00
2+	1.00	100.00
2+	2.00	99.00
2+	3.00	98.00
2+	4.00	98.00
2+	5.00	97.00
2+	6.00	96.00
2+	7.00	95.00
2+	8.00	94.00
2+	9.00	94.00
2+	10.00	93.00
2+	11.00	92.00
2+	12.00	91.00
2+	13.00	90.00
2+	14.00	90.00
2+	15.00	89.00
2+	16.00	88.00
2+	17.00	87.00
2+	18.00	86.00
2+	19.00	86.00
2+	20.00	85.00
2+	21.00	84.00
2+	22.00	83.00
2+	23.00	82.00
2+	24.00	82.00
2+	25.00	81.00
2+	26.00	80.00
2+	27.00	79.00
2+	28.00	78.00
2+	29.00	78.00
2+	30.00	77.00
2+	31.00	76.00
2+	32.00	75.00
2+	33.00	74.00
2+	34.00	74.00
2+	35.00	73.00
2+	36.00	72.00
2+	37.00	71.00
2+	38.00	70.00
2+	39.00	70.00
2+	40.00	69.00
2+	41.00	68.00
2+	42.00	67.00
2+	43.00	66.00
2+	44.00	66.00
2+	45.00	65.00
2+	46.00	64.00
2+	47.00	63.00
2+	48.00	62.00
2+	49.00	62.00
2+	50.00	61.00
2+	51.00	60.00
2+	52.00	60.00
2+	53.00	60.00
2+	54.00	60.00
2+	55.00	60.00
2+	56.00	60.00
2+	57.00	60.00
2+	58.00	60.00
2+	59.00	60.00
2+	60.00	60.00
2+	61.00	60.00
2+	62.00	60.00
2+	63.00	60.00
2+	64.00	60.00
2+	65.00	60.00
2+	66.00	60.00
2+	67.00	60.00
2+	68.00	60.00
2+	69.00	60.00
2+	70.00	60.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	60.00
2+	199.00	60.00
2-	1.00	100.00
2-	2.00	99.00
2-	3.00	98.00
2-	4.00	98.00
2-	5.00	97.00
2-	6.00	96.00
2-	7.00	95.00
2-	8.00	94.00
2-	9.00	94.00
2-	10.00	93.00
2-	11.00	92.00
2-	12.00	91.00
2-	13.00	90.00
2-	14.00	90.00
2-	15.00	89.00
2-	16.00	88.00
2-	17.00	87.00
2-	18.00	86.00
2-	19.00	86.00
2-	20.00	85.00
2-	21.00	84.00
2-	22.00	83.00
2-	23.00	82.00
2-	24.00	82.00
2-	25.00	81.00
2-	26.00	80.00
2-	27.00	79.00
2-	28.00	78.00
2-	29.00	78.00
2-	30.00	77.00
2-	31.00	76.00
2-	32.00	75.00
2-	33.00	74.00
2-	34.00	74.00
2-	35.00	73.00
2-	36.00	72.00
2-	37.00	71.00
2-	38.00	70.00
2-	39.00	70.00
2-	40.00	69.00
2-	41.00	68.00
2-	42.00	67.00
2-	43.00	66.00
2-	44.00	66.00
2-	45.00	65.00
2-	46.00	64.00
2-	47.00	63.00
2-	48.00	62.00
2-	49.00	62.00
2-	50.00	61.00
2-	51.00	60.00
2-	52.00	60.00
2-	53.00	60.00
2-	54.00	60.00
2-	55.00	60.00
2-	56.00	60.00
2-	57.00	60.00
2-	58.00	60.00
2-	59.00	60.00
2-	60.00	60.00
2-	61.00	60.00
2-	62.00	60.00
2-	63.00	60.00
2-	64.00	60.00
2-	65.00	60.00
2-	66.00	60.00
2-	67.00	60.00
2-	68.00	60.00
2-	69.00	60.00
2-	70.00	60.00
2-	71.00	60.00
2-	199.00	60.00
3	1.00	100.00
3	2.00	99.00
3	3.00	99.00
3	4.00	98.00
3	5.00	97.00
3	6.00	96.00
3	7.00	96.00
3	8.00	95.00
3	9.00	94.00
3	10.00	93.00
3	11.00	93.00
3	12.00	92.00
3	13.00	91.00
3	14.00	91.00
3	15.00	90.00
3	16.00	89.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	88.00
3	18.00	88.00
3	19.00	87.00
3	20.00	86.00
3	21.00	85.00
3	22.00	85.00
3	23.00	84.00
3	24.00	83.00
3	25.00	83.00
3	26.00	82.00
3	27.00	81.00
3	28.00	80.00
3	29.00	80.00
3	30.00	79.00
3	31.00	78.00
3	32.00	77.00
3	33.00	77.00
3	34.00	76.00
3	35.00	75.00
3	36.00	75.00
3	37.00	74.00
3	38.00	73.00
3	39.00	72.00
3	40.00	72.00
3	41.00	71.00
3	42.00	70.00
3	43.00	69.00
3	44.00	69.00
3	45.00	68.00
3	46.00	67.00
3	47.00	67.00
3	48.00	66.00
3	49.00	65.00
3	50.00	64.00
3	51.00	64.00
3	52.00	63.00
3	53.00	62.00
3	54.00	61.00
3	55.00	61.00
3	56.00	60.00
3	57.00	60.00
3	58.00	60.00
3	59.00	60.00
3	60.00	60.00
3	61.00	60.00
3	62.00	60.00
3	63.00	60.00
3	64.00	60.00
3	65.00	60.00
3	66.00	60.00
3	67.00	60.00
3	68.00	60.00
3	69.00	60.00
3	70.00	60.00
3	71.00	60.00
3	199.00	60.00
3+	1.00	100.00
3+	2.00	99.00
3+	3.00	99.00
3+	4.00	98.00
3+	5.00	97.00
3+	6.00	96.00
3+	7.00	96.00
3+	8.00	95.00
3+	9.00	94.00
3+	10.00	93.00
3+	11.00	93.00
3+	12.00	92.00
3+	13.00	91.00
3+	14.00	91.00
3+	15.00	90.00
3+	16.00	89.00
3+	17.00	88.00
3+	18.00	88.00
3+	19.00	87.00
3+	20.00	86.00
3+	21.00	85.00
3+	22.00	85.00
3+	23.00	84.00
3+	24.00	83.00
3+	25.00	83.00
3+	26.00	82.00
3+	27.00	81.00
3+	28.00	80.00
3+	29.00	80.00
3+	30.00	79.00
3+	31.00	78.00
3+	32.00	77.00
3+	33.00	77.00
3+	34.00	76.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	75.00
3+	36.00	75.00
3+	37.00	74.00
3+	38.00	73.00
3+	39.00	72.00
3+	40.00	72.00
3+	41.00	71.00
3+	42.00	70.00
3+	43.00	69.00
3+	44.00	69.00
3+	45.00	68.00
3+	46.00	67.00
3+	47.00	67.00
3+	48.00	66.00
3+	49.00	65.00
3+	50.00	64.00
3+	51.00	64.00
3+	52.00	63.00
3+	53.00	62.00
3+	54.00	61.00
3+	55.00	61.00
3+	56.00	60.00
3+	57.00	60.00
3+	58.00	60.00
3+	59.00	60.00
3+	60.00	60.00
3+	61.00	60.00
3+	62.00	60.00
3+	63.00	60.00
3+	64.00	60.00
3+	65.00	60.00
3+	66.00	60.00
3+	67.00	60.00
3+	68.00	60.00
3+	69.00	60.00
3+	70.00	60.00
3+	71.00	60.00
3+	199.00	60.00
3-	1.00	100.00
3-	2.00	99.00
3-	3.00	99.00
3-	4.00	98.00
3-	5.00	97.00
3-	6.00	96.00
3-	7.00	96.00
3-	8.00	95.00
3-	9.00	94.00
3-	10.00	93.00
3-	11.00	93.00
3-	12.00	92.00
3-	13.00	91.00
3-	14.00	91.00
3-	15.00	90.00
3-	16.00	89.00
3-	17.00	88.00
3-	18.00	88.00
3-	19.00	87.00
3-	20.00	86.00
3-	21.00	85.00
3-	22.00	85.00
3-	23.00	84.00
3-	24.00	83.00
3-	25.00	83.00
3-	26.00	82.00
3-	27.00	81.00
3-	28.00	80.00
3-	29.00	80.00
3-	30.00	79.00
3-	31.00	78.00
3-	32.00	77.00
3-	33.00	77.00
3-	34.00	76.00
3-	35.00	75.00
3-	36.00	75.00
3-	37.00	74.00
3-	38.00	73.00
3-	39.00	72.00
3-	40.00	72.00
3-	41.00	71.00
3-	42.00	70.00
3-	43.00	69.00
3-	44.00	69.00
3-	45.00	68.00
3-	46.00	67.00
3-	47.00	67.00
3-	48.00	66.00
3-	49.00	65.00
3-	50.00	64.00
3-	51.00	64.00
3-	52.00	63.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	62.00
3-	54.00	61.00
3-	55.00	61.00
3-	56.00	60.00
3-	57.00	60.00
3-	58.00	60.00
3-	59.00	60.00
3-	60.00	60.00
3-	61.00	60.00
3-	62.00	60.00
3-	63.00	60.00
3-	64.00	60.00
3-	65.00	60.00
3-	66.00	60.00
3-	67.00	60.00
3-	68.00	60.00
3-	69.00	60.00
3-	70.00	60.00
3-	71.00	60.00
3-	199.00	60.00
4	1.00	100.00
4	2.00	99.00
4	3.00	99.00
4	4.00	98.00
4	5.00	97.00
4	6.00	97.00
4	7.00	96.00
4	8.00	95.00
4	9.00	95.00
4	10.00	94.00
4	11.00	93.00
4	12.00	93.00
4	13.00	92.00
4	14.00	91.00
4	15.00	91.00
4	16.00	90.00
4	17.00	89.00
4	18.00	89.00
4	19.00	88.00
4	20.00	87.00
4	21.00	87.00
4	22.00	86.00
4	23.00	85.00
4	24.00	85.00
4	25.00	84.00
4	26.00	83.00
4	27.00	83.00
4	28.00	82.00
4	29.00	81.00
4	30.00	81.00
4	31.00	80.00
4	32.00	79.00
4	33.00	79.00
4	34.00	78.00
4	35.00	77.00
4	36.00	77.00
4	37.00	76.00
4	38.00	75.00
4	39.00	75.00
4	40.00	74.00
4	41.00	73.00
4	42.00	73.00
4	43.00	72.00
4	44.00	71.00
4	45.00	71.00
4	46.00	70.00
4	47.00	69.00
4	48.00	69.00
4	49.00	68.00
4	50.00	67.00
4	51.00	67.00
4	52.00	66.00
4	53.00	65.00
4	54.00	65.00
4	55.00	64.00
4	56.00	63.00
4	57.00	63.00
4	58.00	62.00
4	59.00	61.00
4	60.00	61.00
4	61.00	60.00
4	62.00	60.00
4	63.00	60.00
4	64.00	60.00
4	65.00	60.00
4	66.00	60.00
4	67.00	60.00
4	68.00	60.00
4	69.00	60.00
4	70.00	60.00

Sched: Matrix: DEPR VG X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	60.00
4	199.00	60.00
4+	1.00	100.00
4+	2.00	99.00
4+	3.00	99.00
4+	4.00	98.00
4+	5.00	97.00
4+	6.00	97.00
4+	7.00	96.00
4+	8.00	95.00
4+	9.00	95.00
4+	10.00	94.00
4+	11.00	93.00
4+	12.00	93.00
4+	13.00	92.00
4+	14.00	91.00
4+	15.00	91.00
4+	16.00	90.00
4+	17.00	89.00
4+	18.00	89.00
4+	19.00	88.00
4+	20.00	87.00
4+	21.00	87.00
4+	22.00	86.00
4+	23.00	85.00
4+	24.00	85.00
4+	25.00	84.00
4+	26.00	83.00
4+	27.00	83.00
4+	28.00	82.00
4+	29.00	81.00
4+	30.00	81.00
4+	31.00	80.00
4+	32.00	79.00
4+	33.00	79.00
4+	34.00	78.00
4+	35.00	77.00
4+	36.00	77.00
4+	37.00	76.00
4+	38.00	75.00
4+	39.00	75.00
4+	40.00	74.00
4+	41.00	73.00
4+	42.00	73.00
4+	43.00	72.00
4+	44.00	71.00
4+	45.00	71.00
4+	46.00	70.00
4+	47.00	69.00
4+	48.00	69.00
4+	49.00	68.00
4+	50.00	67.00
4+	51.00	67.00
4+	52.00	66.00
4+	53.00	65.00
4+	54.00	65.00
4+	55.00	64.00
4+	56.00	63.00
4+	57.00	63.00
4+	58.00	62.00
4+	59.00	61.00
4+	60.00	61.00
4+	61.00	60.00
4+	62.00	60.00
4+	63.00	60.00
4+	64.00	60.00
4+	65.00	60.00
4+	66.00	60.00
4+	67.00	60.00
4+	68.00	60.00
4+	69.00	60.00
4+	70.00	60.00
4+	71.00	60.00
4+	199.00	60.00
4-	1.00	100.00
4-	2.00	99.00
4-	3.00	99.00
4-	4.00	98.00
4-	5.00	97.00
4-	6.00	97.00
4-	7.00	96.00
4-	8.00	95.00
4-	9.00	95.00
4-	10.00	94.00
4-	11.00	93.00
4-	12.00	93.00
4-	13.00	92.00
4-	14.00	91.00
4-	15.00	91.00
4-	16.00	90.00

Sched:
Matrix: DEPR VG X Axis: CLASS Label: DEPR
Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	89.00
4-	18.00	89.00
4-	19.00	88.00
4-	20.00	87.00
4-	21.00	87.00
4-	22.00	86.00
4-	23.00	85.00
4-	24.00	85.00
4-	25.00	84.00
4-	26.00	83.00
4-	27.00	83.00
4-	28.00	82.00
4-	29.00	81.00
4-	30.00	81.00
4-	31.00	80.00
4-	32.00	79.00
4-	33.00	79.00
4-	34.00	78.00
4-	35.00	77.00
4-	36.00	77.00
4-	37.00	76.00
4-	38.00	75.00
4-	39.00	75.00
4-	40.00	74.00
4-	41.00	73.00
4-	42.00	73.00
4-	43.00	72.00
4-	44.00	71.00
4-	45.00	71.00
4-	46.00	70.00
4-	47.00	69.00
4-	48.00	69.00
4-	49.00	68.00
4-	50.00	67.00
4-	51.00	67.00
4-	52.00	66.00
4-	53.00	65.00
4-	54.00	65.00
4-	55.00	64.00
4-	56.00	63.00
4-	57.00	63.00
4-	58.00	62.00
4-	59.00	61.00
4-	60.00	61.00
4-	61.00	60.00
4-	62.00	60.00
4-	63.00	60.00
4-	64.00	60.00
4-	65.00	60.00
4-	66.00	60.00
4-	67.00	60.00
4-	68.00	60.00
4-	69.00	60.00
4-	70.00	60.00
4-	71.00	60.00
4-	199.00	60.00
5	1.00	100.00
5	2.00	99.00
5	3.00	99.00
5	4.00	98.00
5	5.00	98.00
5	6.00	97.00
5	7.00	96.00
5	8.00	96.00
5	9.00	95.00
5	10.00	94.00
5	11.00	94.00
5	12.00	93.00
5	13.00	93.00
5	14.00	92.00
5	15.00	91.00
5	16.00	91.00
5	17.00	90.00
5	18.00	90.00
5	19.00	89.00
5	20.00	88.00
5	21.00	88.00
5	22.00	87.00
5	23.00	86.00
5	24.00	86.00
5	25.00	85.00
5	26.00	85.00
5	27.00	84.00
5	28.00	83.00
5	29.00	83.00
5	30.00	82.00
5	31.00	82.00
5	32.00	81.00
5	33.00	80.00
5	34.00	80.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	79.00
5	36.00	78.00
5	37.00	78.00
5	38.00	77.00
5	39.00	77.00
5	40.00	76.00
5	41.00	75.00
5	42.00	75.00
5	43.00	74.00
5	44.00	74.00
5	45.00	73.00
5	46.00	72.00
5	47.00	72.00
5	48.00	71.00
5	49.00	70.00
5	50.00	70.00
5	51.00	69.00
5	52.00	69.00
5	53.00	68.00
5	54.00	67.00
5	55.00	67.00
5	56.00	66.00
5	57.00	66.00
5	58.00	65.00
5	59.00	64.00
5	60.00	64.00
5	61.00	63.00
5	62.00	62.00
5	63.00	62.00
5	64.00	61.00
5	65.00	61.00
5	66.00	60.00
5	67.00	60.00
5	68.00	60.00
5	69.00	60.00
5	70.00	60.00
5	71.00	60.00
5	199.00	60.00
5+	1.00	100.00
5+	2.00	99.00
5+	3.00	99.00
5+	4.00	98.00
5+	5.00	98.00
5+	6.00	97.00
5+	7.00	96.00
5+	8.00	96.00
5+	9.00	95.00
5+	10.00	94.00
5+	11.00	94.00
5+	12.00	93.00
5+	13.00	93.00
5+	14.00	92.00
5+	15.00	91.00
5+	16.00	91.00
5+	17.00	90.00
5+	18.00	90.00
5+	19.00	89.00
5+	20.00	88.00
5+	21.00	88.00
5+	22.00	87.00
5+	23.00	86.00
5+	24.00	86.00
5+	25.00	85.00
5+	26.00	85.00
5+	27.00	84.00
5+	28.00	83.00
5+	29.00	83.00
5+	30.00	82.00
5+	31.00	82.00
5+	32.00	81.00
5+	33.00	80.00
5+	34.00	80.00
5+	35.00	79.00
5+	36.00	78.00
5+	37.00	78.00
5+	38.00	77.00
5+	39.00	77.00
5+	40.00	76.00
5+	41.00	75.00
5+	42.00	75.00
5+	43.00	74.00
5+	44.00	74.00
5+	45.00	73.00
5+	46.00	72.00
5+	47.00	72.00
5+	48.00	71.00
5+	49.00	70.00
5+	50.00	70.00
5+	51.00	69.00
5+	52.00	69.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	68.00
5+	54.00	67.00
5+	55.00	67.00
5+	56.00	66.00
5+	57.00	66.00
5+	58.00	65.00
5+	59.00	64.00
5+	60.00	64.00
5+	61.00	63.00
5+	62.00	62.00
5+	63.00	62.00
5+	64.00	61.00
5+	65.00	61.00
5+	66.00	60.00
5+	67.00	60.00
5+	68.00	60.00
5+	69.00	60.00
5+	70.00	60.00
5+	71.00	60.00
5+	199.00	60.00
5-	1.00	100.00
5-	2.00	99.00
5-	3.00	99.00
5-	4.00	98.00
5-	5.00	98.00
5-	6.00	97.00
5-	7.00	96.00
5-	8.00	96.00
5-	9.00	95.00
5-	10.00	94.00
5-	11.00	94.00
5-	12.00	93.00
5-	13.00	93.00
5-	14.00	92.00
5-	15.00	91.00
5-	16.00	91.00
5-	17.00	90.00
5-	18.00	90.00
5-	19.00	89.00
5-	20.00	88.00
5-	21.00	88.00
5-	22.00	87.00
5-	23.00	86.00
5-	24.00	86.00
5-	25.00	85.00
5-	26.00	85.00
5-	27.00	84.00
5-	28.00	83.00
5-	29.00	83.00
5-	30.00	82.00
5-	31.00	82.00
5-	32.00	81.00
5-	33.00	80.00
5-	34.00	80.00
5-	35.00	79.00
5-	36.00	78.00
5-	37.00	78.00
5-	38.00	77.00
5-	39.00	77.00
5-	40.00	76.00
5-	41.00	75.00
5-	42.00	75.00
5-	43.00	74.00
5-	44.00	74.00
5-	45.00	73.00
5-	46.00	72.00
5-	47.00	72.00
5-	48.00	71.00
5-	49.00	70.00
5-	50.00	70.00
5-	51.00	69.00
5-	52.00	69.00
5-	53.00	68.00
5-	54.00	67.00
5-	55.00	67.00
5-	56.00	66.00
5-	57.00	66.00
5-	58.00	65.00
5-	59.00	64.00
5-	60.00	64.00
5-	61.00	63.00
5-	62.00	62.00
5-	63.00	62.00
5-	64.00	61.00
5-	65.00	61.00
5-	66.00	60.00
5-	67.00	60.00
5-	68.00	60.00
5-	69.00	60.00
5-	70.00	60.00

Sched: Matrix: DEPR VG X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	60.00
5-	199.00	60.00
6	1.00	100.00
6	2.00	99.00
6	3.00	99.00
6	4.00	98.00
6	5.00	98.00
6	6.00	97.00
6	7.00	97.00
6	8.00	96.00
6	9.00	95.00
6	10.00	95.00
6	11.00	94.00
6	12.00	94.00
6	13.00	93.00
6	14.00	93.00
6	15.00	92.00
6	16.00	91.00
6	17.00	91.00
6	18.00	90.00
6	19.00	90.00
6	20.00	89.00
6	21.00	89.00
6	22.00	88.00
6	23.00	87.00
6	24.00	87.00
6	25.00	86.00
6	26.00	86.00
6	27.00	85.00
6	28.00	85.00
6	29.00	84.00
6	30.00	83.00
6	31.00	83.00
6	32.00	82.00
6	33.00	82.00
6	34.00	81.00
6	35.00	81.00
6	36.00	80.00
6	37.00	79.00
6	38.00	79.00
6	39.00	78.00
6	40.00	78.00
6	41.00	77.00
6	42.00	77.00
6	43.00	76.00
6	44.00	75.00
6	45.00	75.00
6	46.00	74.00
6	47.00	74.00
6	48.00	73.00
6	49.00	73.00
6	50.00	72.00
6	51.00	71.00
6	52.00	71.00
6	53.00	70.00
6	54.00	70.00
6	55.00	69.00
6	56.00	69.00
6	57.00	68.00
6	58.00	67.00
6	59.00	67.00
6	60.00	66.00
6	61.00	66.00
6	62.00	65.00
6	63.00	65.00
6	64.00	64.00
6	65.00	63.00
6	66.00	63.00
6	67.00	62.00
6	68.00	62.00
6	69.00	61.00
6	70.00	61.00
6	71.00	60.00
6	199.00	60.00
6+	1.00	100.00
6+	2.00	99.00
6+	3.00	99.00
6+	4.00	98.00
6+	5.00	98.00
6+	6.00	97.00
6+	7.00	97.00
6+	8.00	96.00
6+	9.00	95.00
6+	10.00	95.00
6+	11.00	94.00
6+	12.00	94.00
6+	13.00	93.00
6+	14.00	93.00
6+	15.00	92.00
6+	16.00	91.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	91.00
6+	18.00	90.00
6+	19.00	90.00
6+	20.00	89.00
6+	21.00	89.00
6+	22.00	88.00
6+	23.00	87.00
6+	24.00	87.00
6+	25.00	86.00
6+	26.00	86.00
6+	27.00	85.00
6+	28.00	85.00
6+	29.00	84.00
6+	30.00	83.00
6+	31.00	83.00
6+	32.00	82.00
6+	33.00	82.00
6+	34.00	81.00
6+	35.00	81.00
6+	36.00	80.00
6+	37.00	79.00
6+	38.00	79.00
6+	39.00	78.00
6+	40.00	78.00
6+	41.00	77.00
6+	42.00	77.00
6+	43.00	76.00
6+	44.00	75.00
6+	45.00	75.00
6+	46.00	74.00
6+	47.00	74.00
6+	48.00	73.00
6+	49.00	73.00
6+	50.00	72.00
6+	51.00	71.00
6+	52.00	71.00
6+	53.00	70.00
6+	54.00	70.00
6+	55.00	69.00
6+	56.00	69.00
6+	57.00	68.00
6+	58.00	67.00
6+	59.00	67.00
6+	60.00	66.00
6+	61.00	66.00
6+	62.00	65.00
6+	63.00	65.00
6+	64.00	64.00
6+	65.00	63.00
6+	66.00	63.00
6+	67.00	62.00
6+	68.00	62.00
6+	69.00	61.00
6+	70.00	61.00
6+	71.00	60.00
6+	199.00	60.00
6-	1.00	100.00
6-	2.00	99.00
6-	3.00	99.00
6-	4.00	98.00
6-	5.00	98.00
6-	6.00	97.00
6-	7.00	97.00
6-	8.00	96.00
6-	9.00	95.00
6-	10.00	95.00
6-	11.00	94.00
6-	12.00	94.00
6-	13.00	93.00
6-	14.00	93.00
6-	15.00	92.00
6-	16.00	91.00
6-	17.00	91.00
6-	18.00	90.00
6-	19.00	90.00
6-	20.00	89.00
6-	21.00	89.00
6-	22.00	88.00
6-	23.00	87.00
6-	24.00	87.00
6-	25.00	86.00
6-	26.00	86.00
6-	27.00	85.00
6-	28.00	85.00
6-	29.00	84.00
6-	30.00	83.00
6-	31.00	83.00
6-	32.00	82.00
6-	33.00	82.00
6-	34.00	81.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	81.00
6-	36.00	80.00
6-	37.00	79.00
6-	38.00	79.00
6-	39.00	78.00
6-	40.00	78.00
6-	41.00	77.00
6-	42.00	77.00
6-	43.00	76.00
6-	44.00	75.00
6-	45.00	75.00
6-	46.00	74.00
6-	47.00	74.00
6-	48.00	73.00
6-	49.00	73.00
6-	50.00	72.00
6-	51.00	71.00
6-	52.00	71.00
6-	53.00	70.00
6-	54.00	70.00
6-	55.00	69.00
6-	56.00	69.00
6-	57.00	68.00
6-	58.00	67.00
6-	59.00	67.00
6-	60.00	66.00
6-	61.00	66.00
6-	62.00	65.00
6-	63.00	65.00
6-	64.00	64.00
6-	65.00	63.00
6-	66.00	63.00
6-	67.00	62.00
6-	68.00	62.00
6-	69.00	61.00
6-	70.00	61.00
6-	71.00	60.00
6-	199.00	60.00
7	1.00	100.00
7	2.00	99.00
7	3.00	99.00
7	4.00	98.00
7	5.00	98.00
7	6.00	97.00
7	7.00	97.00
7	8.00	96.00
7	9.00	95.00
7	10.00	95.00
7	11.00	94.00
7	12.00	94.00
7	13.00	93.00
7	14.00	93.00
7	15.00	92.00
7	16.00	91.00
7	17.00	91.00
7	18.00	90.00
7	19.00	90.00
7	20.00	89.00
7	21.00	89.00
7	22.00	88.00
7	23.00	87.00
7	24.00	87.00
7	25.00	86.00
7	26.00	86.00
7	27.00	85.00
7	28.00	85.00
7	29.00	84.00
7	30.00	83.00
7	31.00	83.00
7	32.00	82.00
7	33.00	82.00
7	34.00	81.00
7	35.00	81.00
7	36.00	80.00
7	37.00	79.00
7	38.00	79.00
7	39.00	78.00
7	40.00	78.00
7	41.00	77.00
7	42.00	77.00
7	43.00	76.00
7	44.00	75.00
7	45.00	75.00
7	46.00	74.00
7	47.00	74.00
7	48.00	73.00
7	49.00	73.00
7	50.00	72.00
7	51.00	71.00
7	52.00	71.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	70.00
7	54.00	70.00
7	55.00	69.00
7	56.00	69.00
7	57.00	68.00
7	58.00	67.00
7	59.00	67.00
7	60.00	66.00
7	61.00	66.00
7	62.00	65.00
7	63.00	65.00
7	64.00	64.00
7	65.00	63.00
7	66.00	63.00
7	67.00	62.00
7	68.00	62.00
7	69.00	61.00
7	70.00	61.00
7	71.00	60.00
7	199.00	60.00
7+	1.00	100.00
7+	2.00	99.00
7+	3.00	99.00
7+	4.00	98.00
7+	5.00	98.00
7+	6.00	97.00
7+	7.00	97.00
7+	8.00	96.00
7+	9.00	95.00
7+	10.00	95.00
7+	11.00	94.00
7+	12.00	94.00
7+	13.00	93.00
7+	14.00	93.00
7+	15.00	92.00
7+	16.00	91.00
7+	17.00	91.00
7+	18.00	90.00
7+	19.00	90.00
7+	20.00	89.00
7+	21.00	89.00
7+	22.00	88.00
7+	23.00	87.00
7+	24.00	87.00
7+	25.00	86.00
7+	26.00	86.00
7+	27.00	85.00
7+	28.00	85.00
7+	29.00	84.00
7+	30.00	83.00
7+	31.00	83.00
7+	32.00	82.00
7+	33.00	82.00
7+	34.00	81.00
7+	35.00	81.00
7+	36.00	80.00
7+	37.00	79.00
7+	38.00	79.00
7+	39.00	78.00
7+	40.00	78.00
7+	41.00	77.00
7+	42.00	77.00
7+	43.00	76.00
7+	44.00	75.00
7+	45.00	75.00
7+	46.00	74.00
7+	47.00	74.00
7+	48.00	73.00
7+	49.00	73.00
7+	50.00	72.00
7+	51.00	71.00
7+	52.00	71.00
7+	53.00	70.00
7+	54.00	70.00
7+	55.00	69.00
7+	56.00	69.00
7+	57.00	68.00
7+	58.00	67.00
7+	59.00	67.00
7+	60.00	66.00
7+	61.00	66.00
7+	62.00	65.00
7+	63.00	65.00
7+	64.00	64.00
7+	65.00	63.00
7+	66.00	63.00
7+	67.00	62.00
7+	68.00	62.00
7+	69.00	61.00
7+	70.00	61.00

Sched: Matrix: DEPR VG X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	60.00
7+	199.00	60.00
7-	1.00	100.00
7-	2.00	99.00
7-	3.00	99.00
7-	4.00	98.00
7-	5.00	98.00
7-	6.00	97.00
7-	7.00	97.00
7-	8.00	96.00
7-	9.00	95.00
7-	10.00	95.00
7-	11.00	94.00
7-	12.00	94.00
7-	13.00	93.00
7-	14.00	93.00
7-	15.00	92.00
7-	16.00	91.00
7-	17.00	91.00
7-	18.00	90.00
7-	19.00	90.00
7-	20.00	89.00
7-	21.00	89.00
7-	22.00	88.00
7-	23.00	87.00
7-	24.00	87.00
7-	25.00	86.00
7-	26.00	86.00
7-	27.00	85.00
7-	28.00	85.00
7-	29.00	84.00
7-	30.00	83.00
7-	31.00	83.00
7-	32.00	82.00
7-	33.00	82.00
7-	34.00	81.00
7-	35.00	81.00
7-	36.00	80.00
7-	37.00	79.00
7-	38.00	79.00
7-	39.00	78.00
7-	40.00	78.00
7-	41.00	77.00
7-	42.00	77.00
7-	43.00	76.00
7-	44.00	75.00
7-	45.00	75.00
7-	46.00	74.00
7-	47.00	74.00
7-	48.00	73.00
7-	49.00	73.00
7-	50.00	72.00
7-	51.00	71.00
7-	52.00	71.00
7-	53.00	70.00
7-	54.00	70.00
7-	55.00	69.00
7-	56.00	69.00
7-	57.00	68.00
7-	58.00	67.00
7-	59.00	67.00
7-	60.00	66.00
7-	61.00	66.00
7-	62.00	65.00
7-	63.00	65.00
7-	64.00	64.00
7-	65.00	63.00
7-	66.00	63.00
7-	67.00	62.00
7-	68.00	62.00
7-	69.00	61.00
7-	70.00	61.00
7-	71.00	60.00
7-	199.00	60.00
8	1.00	100.00
8	2.00	99.00
8	3.00	99.00
8	4.00	98.00
8	5.00	98.00
8	6.00	97.00
8	7.00	97.00
8	8.00	96.00
8	9.00	95.00
8	10.00	95.00
8	11.00	94.00
8	12.00	94.00
8	13.00	93.00
8	14.00	93.00
8	15.00	92.00
8	16.00	91.00

Sched:
 Matrix: DEPR VG X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	91.00
8	18.00	90.00
8	19.00	90.00
8	20.00	89.00
8	21.00	89.00
8	22.00	88.00
8	23.00	87.00
8	24.00	87.00
8	25.00	86.00
8	26.00	86.00
8	27.00	85.00
8	28.00	85.00
8	29.00	84.00
8	30.00	83.00
8	31.00	83.00
8	32.00	82.00
8	33.00	82.00
8	34.00	81.00
8	35.00	81.00
8	36.00	80.00
8	37.00	79.00
8	38.00	79.00
8	39.00	78.00
8	40.00	78.00
8	41.00	77.00
8	42.00	77.00
8	43.00	76.00
8	44.00	75.00
8	45.00	75.00
8	46.00	74.00
8	47.00	74.00
8	48.00	73.00
8	49.00	73.00
8	50.00	72.00
8	51.00	71.00
8	52.00	71.00
8	53.00	70.00
8	54.00	70.00
8	55.00	69.00
8	56.00	69.00
8	57.00	68.00
8	58.00	67.00
8	59.00	67.00
8	60.00	66.00
8	61.00	66.00
8	62.00	65.00
8	63.00	65.00
8	64.00	64.00
8	65.00	63.00
8	66.00	63.00
8	67.00	62.00
8	68.00	62.00
8	69.00	61.00
8	70.00	61.00
8	71.00	60.00
8	199.00	60.00
8+	1.00	100.00
8+	2.00	99.00
8+	3.00	99.00
8+	4.00	98.00
8+	5.00	98.00
8+	6.00	97.00
8+	7.00	97.00
8+	8.00	96.00
8+	9.00	95.00
8+	10.00	95.00
8+	11.00	94.00
8+	12.00	94.00
8+	13.00	93.00
8+	14.00	93.00
8+	15.00	92.00
8+	16.00	91.00
8+	17.00	91.00
8+	18.00	90.00
8+	19.00	90.00
8+	20.00	89.00
8+	21.00	89.00
8+	22.00	88.00
8+	23.00	87.00
8+	24.00	87.00
8+	25.00	86.00
8+	26.00	86.00
8+	27.00	85.00
8+	28.00	85.00
8+	29.00	84.00
8+	30.00	83.00
8+	31.00	83.00
8+	32.00	82.00
8+	33.00	82.00
8+	34.00	81.00

Sched:			
Matrix:	DEPR VG	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	81.00
8+	36.00	80.00
8+	37.00	79.00
8+	38.00	79.00
8+	39.00	78.00
8+	40.00	78.00
8+	41.00	77.00
8+	42.00	77.00
8+	43.00	76.00
8+	44.00	75.00
8+	45.00	75.00
8+	46.00	74.00
8+	47.00	74.00
8+	48.00	73.00
8+	49.00	73.00
8+	50.00	72.00
8+	51.00	71.00
8+	52.00	71.00
8+	53.00	70.00
8+	54.00	70.00
8+	55.00	69.00
8+	56.00	69.00
8+	57.00	68.00
8+	58.00	67.00
8+	59.00	67.00
8+	60.00	66.00
8+	61.00	66.00
8+	62.00	65.00
8+	63.00	65.00
8+	64.00	64.00
8+	65.00	63.00
8+	66.00	63.00
8+	67.00	62.00
8+	68.00	62.00
8+	69.00	61.00
8+	70.00	61.00
8+	71.00	60.00
8+	199.00	60.00
8-	1.00	100.00
8-	2.00	99.00
8-	3.00	99.00
8-	4.00	98.00
8-	5.00	98.00
8-	6.00	97.00
8-	7.00	97.00
8-	8.00	96.00
8-	9.00	95.00
8-	10.00	95.00
8-	11.00	94.00
8-	12.00	94.00
8-	13.00	93.00
8-	14.00	93.00
8-	15.00	92.00
8-	16.00	91.00
8-	17.00	91.00
8-	18.00	90.00
8-	19.00	90.00
8-	20.00	89.00
8-	21.00	89.00
8-	22.00	88.00
8-	23.00	87.00
8-	24.00	87.00
8-	25.00	86.00
8-	26.00	86.00
8-	27.00	85.00
8-	28.00	85.00
8-	29.00	84.00
8-	30.00	83.00
8-	31.00	83.00
8-	32.00	82.00
8-	33.00	82.00
8-	34.00	81.00
8-	35.00	81.00
8-	36.00	80.00
8-	37.00	79.00
8-	38.00	79.00
8-	39.00	78.00
8-	40.00	78.00
8-	41.00	77.00
8-	42.00	77.00
8-	43.00	76.00
8-	44.00	75.00
8-	45.00	75.00
8-	46.00	74.00
8-	47.00	74.00
8-	48.00	73.00
8-	49.00	73.00
8-	50.00	72.00
8-	51.00	71.00
8-	52.00	71.00

Sched:
Matrix: DEPR VG
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	70.00
8-	54.00	70.00
8-	55.00	69.00
8-	56.00	69.00
8-	57.00	68.00
8-	58.00	67.00
8-	59.00	67.00
8-	60.00	66.00
8-	61.00	66.00
8-	62.00	65.00
8-	63.00	65.00
8-	64.00	64.00
8-	65.00	63.00
8-	66.00	63.00
8-	67.00	62.00
8-	68.00	62.00
8-	69.00	61.00
8-	70.00	61.00
8-	71.00	60.00
8-	199.00	60.00

Matrix Schedule

Sched:

Matrix: DEPR EX

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1	1.00	100.00
1	2.00	99.00
1	3.00	99.00
1	4.00	99.00
1	5.00	98.00
1	6.00	97.00
1	7.00	97.00
1	8.00	96.00
1	9.00	95.00
1	10.00	94.00
1	11.00	94.00
1	12.00	93.00
1	13.00	92.00
1	14.00	92.00
1	15.00	91.00
1	16.00	90.00
1	17.00	90.00
1	18.00	89.00
1	19.00	88.00
1	20.00	87.00
1	21.00	87.00
1	22.00	86.00
1	23.00	85.00
1	24.00	85.00
1	25.00	84.00
1	26.00	83.00
1	27.00	82.00
1	28.00	82.00
1	29.00	81.00
1	30.00	80.00
1	31.00	80.00
1	32.00	79.00
1	33.00	78.00
1	34.00	78.00
1	35.00	77.00
1	36.00	76.00
1	37.00	75.00
1	38.00	75.00
1	39.00	74.00
1	40.00	73.00
1	41.00	73.00
1	42.00	72.00
1	43.00	71.00
1	44.00	71.00
1	45.00	70.00
1	46.00	69.00
1	47.00	68.00
1	48.00	68.00
1	49.00	67.00
1	50.00	66.00
1	51.00	66.00
1	52.00	65.00
1	53.00	65.00
1	54.00	65.00
1	55.00	65.00
1	56.00	65.00
1	57.00	65.00
1	58.00	65.00
1	59.00	65.00
1	60.00	65.00
1	61.00	65.00
1	62.00	65.00
1	63.00	65.00
1	64.00	65.00
1	65.00	65.00
1	66.00	65.00
1	67.00	65.00
1	68.00	65.00
1	69.00	65.00
1	70.00	65.00
1	71.00	65.00
1	199.00	65.00
1+	1.00	100.00
1+	2.00	99.00
1+	3.00	99.00
1+	4.00	99.00
1+	5.00	98.00
1+	6.00	97.00
1+	7.00	97.00
1+	8.00	96.00
1+	9.00	95.00
1+	10.00	94.00
1+	11.00	94.00
1+	12.00	93.00
1+	13.00	92.00
1+	14.00	92.00
1+	15.00	91.00
1+	16.00	90.00
1+	16.00	90.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1+	17.00	89.00
1+	18.00	88.00
1+	19.00	87.00
1+	20.00	87.00
1+	21.00	86.00
1+	22.00	85.00
1+	23.00	85.00
1+	24.00	84.00
1+	25.00	83.00
1+	26.00	82.00
1+	27.00	82.00
1+	28.00	81.00
1+	29.00	80.00
1+	30.00	80.00
1+	31.00	79.00
1+	32.00	78.00
1+	33.00	78.00
1+	34.00	77.00
1+	35.00	76.00
1+	36.00	75.00
1+	37.00	75.00
1+	38.00	74.00
1+	39.00	73.00
1+	40.00	73.00
1+	41.00	72.00
1+	42.00	71.00
1+	43.00	71.00
1+	44.00	70.00
1+	45.00	69.00
1+	46.00	68.00
1+	47.00	68.00
1+	48.00	67.00
1+	49.00	66.00
1+	50.00	66.00
1+	51.00	65.00
1+	52.00	65.00
1+	53.00	65.00
1+	54.00	65.00
1+	55.00	65.00
1+	56.00	65.00
1+	57.00	65.00
1+	58.00	65.00
1+	59.00	65.00
1+	60.00	65.00
1+	61.00	65.00
1+	62.00	65.00
1+	63.00	65.00
1+	64.00	65.00
1+	65.00	65.00
1+	66.00	65.00
1+	67.00	65.00
1+	68.00	65.00
1+	69.00	65.00
1+	70.00	65.00
1+	71.00	65.00
1+	199.00	65.00
1-	1.00	100.00
1-	2.00	99.00
1-	3.00	99.00
1-	4.00	98.00
1-	5.00	97.00
1-	6.00	97.00
1-	7.00	96.00
1-	8.00	95.00
1-	9.00	94.00
1-	10.00	94.00
1-	11.00	93.00
1-	12.00	92.00
1-	13.00	92.00
1-	14.00	91.00
1-	15.00	90.00
1-	16.00	90.00
1-	17.00	89.00
1-	18.00	88.00
1-	19.00	87.00
1-	20.00	87.00
1-	21.00	86.00
1-	22.00	85.00
1-	23.00	85.00
1-	24.00	84.00
1-	25.00	83.00
1-	26.00	82.00
1-	27.00	82.00
1-	28.00	81.00
1-	29.00	80.00
1-	30.00	80.00
1-	31.00	79.00
1-	32.00	78.00
1-	33.00	78.00
1-	34.00	77.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
1-	35.00	76.00
1-	36.00	75.00
1-	37.00	75.00
1-	38.00	74.00
1-	39.00	73.00
1-	40.00	73.00
1-	41.00	72.00
1-	42.00	71.00
1-	43.00	71.00
1-	44.00	70.00
1-	45.00	69.00
1-	46.00	68.00
1-	47.00	68.00
1-	48.00	67.00
1-	49.00	66.00
1-	50.00	66.00
1-	51.00	65.00
1-	52.00	65.00
1-	53.00	65.00
1-	54.00	65.00
1-	55.00	65.00
1-	56.00	65.00
1-	57.00	65.00
1-	58.00	65.00
1-	59.00	65.00
1-	60.00	65.00
1-	61.00	65.00
1-	62.00	65.00
1-	63.00	65.00
1-	64.00	65.00
1-	65.00	65.00
1-	66.00	65.00
1-	67.00	65.00
1-	68.00	65.00
1-	69.00	65.00
1-	70.00	65.00
1-	71.00	65.00
1-	199.00	65.00
2	1.00	100.00
2	2.00	99.00
2	3.00	99.00
2	4.00	98.00
2	5.00	97.00
2	6.00	97.00
2	7.00	96.00
2	8.00	95.00
2	9.00	94.00
2	10.00	94.00
2	11.00	93.00
2	12.00	92.00
2	13.00	92.00
2	14.00	91.00
2	15.00	90.00
2	16.00	90.00
2	17.00	89.00
2	18.00	88.00
2	19.00	87.00
2	20.00	87.00
2	21.00	86.00
2	22.00	85.00
2	23.00	85.00
2	24.00	84.00
2	25.00	83.00
2	26.00	82.00
2	27.00	82.00
2	28.00	81.00
2	29.00	80.00
2	30.00	80.00
2	31.00	79.00
2	32.00	78.00
2	33.00	78.00
2	34.00	77.00
2	35.00	76.00
2	36.00	75.00
2	37.00	75.00
2	38.00	74.00
2	39.00	73.00
2	40.00	73.00
2	41.00	72.00
2	42.00	71.00
2	43.00	71.00
2	44.00	70.00
2	45.00	69.00
2	46.00	68.00
2	47.00	68.00
2	48.00	67.00
2	49.00	66.00
2	50.00	66.00
2	51.00	65.00
2	52.00	65.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2	53.00	65.00
2	54.00	65.00
2	55.00	65.00
2	56.00	65.00
2	57.00	65.00
2	58.00	65.00
2	59.00	65.00
2	60.00	65.00
2	61.00	65.00
2	62.00	65.00
2	63.00	65.00
2	64.00	65.00
2	65.00	65.00
2	66.00	65.00
2	67.00	65.00
2	68.00	65.00
2	69.00	65.00
2	70.00	65.00
2	71.00	65.00
2	199.00	65.00
2+	1.00	100.00
2+	2.00	99.00
2+	3.00	99.00
2+	4.00	98.00
2+	5.00	97.00
2+	6.00	97.00
2+	7.00	96.00
2+	8.00	95.00
2+	9.00	94.00
2+	10.00	94.00
2+	11.00	93.00
2+	12.00	92.00
2+	13.00	92.00
2+	14.00	91.00
2+	15.00	90.00
2+	16.00	90.00
2+	17.00	89.00
2+	18.00	88.00
2+	19.00	87.00
2+	20.00	87.00
2+	21.00	86.00
2+	22.00	85.00
2+	23.00	85.00
2+	24.00	84.00
2+	25.00	83.00
2+	26.00	82.00
2+	27.00	82.00
2+	28.00	81.00
2+	29.00	80.00
2+	30.00	80.00
2+	31.00	79.00
2+	32.00	78.00
2+	33.00	78.00
2+	34.00	77.00
2+	35.00	76.00
2+	36.00	75.00
2+	37.00	75.00
2+	38.00	74.00
2+	39.00	73.00
2+	40.00	73.00
2+	41.00	72.00
2+	42.00	71.00
2+	43.00	71.00
2+	44.00	70.00
2+	45.00	69.00
2+	46.00	68.00
2+	47.00	68.00
2+	48.00	67.00
2+	49.00	66.00
2+	50.00	66.00
2+	51.00	65.00
2+	52.00	65.00
2+	53.00	65.00
2+	54.00	65.00
2+	55.00	65.00
2+	56.00	65.00
2+	57.00	65.00
2+	58.00	65.00
2+	59.00	65.00
2+	60.00	65.00
2+	61.00	65.00
2+	62.00	65.00
2+	63.00	65.00
2+	64.00	65.00
2+	65.00	65.00
2+	66.00	65.00
2+	67.00	65.00
2+	68.00	65.00
2+	69.00	65.00
2+	70.00	65.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
2+	71.00	65.00
2+	199.00	65.00
2-	1.00	100.00
2-	2.00	99.00
2-	3.00	99.00
2-	4.00	98.00
2-	5.00	97.00
2-	6.00	97.00
2-	7.00	96.00
2-	8.00	95.00
2-	9.00	94.00
2-	10.00	94.00
2-	11.00	93.00
2-	12.00	92.00
2-	13.00	92.00
2-	14.00	91.00
2-	15.00	90.00
2-	16.00	90.00
2-	17.00	89.00
2-	18.00	88.00
2-	19.00	87.00
2-	20.00	87.00
2-	21.00	86.00
2-	22.00	85.00
2-	23.00	85.00
2-	24.00	84.00
2-	25.00	83.00
2-	26.00	82.00
2-	27.00	82.00
2-	28.00	81.00
2-	29.00	80.00
2-	30.00	80.00
2-	31.00	79.00
2-	32.00	78.00
2-	33.00	78.00
2-	34.00	77.00
2-	35.00	76.00
2-	36.00	75.00
2-	37.00	75.00
2-	38.00	74.00
2-	39.00	73.00
2-	40.00	73.00
2-	41.00	72.00
2-	42.00	71.00
2-	43.00	71.00
2-	44.00	70.00
2-	45.00	69.00
2-	46.00	68.00
2-	47.00	68.00
2-	48.00	67.00
2-	49.00	66.00
2-	50.00	66.00
2-	51.00	65.00
2-	52.00	65.00
2-	53.00	65.00
2-	54.00	65.00
2-	55.00	65.00
2-	56.00	65.00
2-	57.00	65.00
2-	58.00	65.00
2-	59.00	65.00
2-	60.00	65.00
2-	61.00	65.00
2-	62.00	65.00
2-	63.00	65.00
2-	64.00	65.00
2-	65.00	65.00
2-	66.00	65.00
2-	67.00	65.00
2-	68.00	65.00
2-	69.00	65.00
2-	70.00	65.00
2-	71.00	65.00
2-	199.00	65.00
3	1.00	100.00
3	2.00	99.00
3	3.00	99.00
3	4.00	98.00
3	5.00	97.00
3	6.00	97.00
3	7.00	96.00
3	8.00	96.00
3	9.00	95.00
3	10.00	94.00
3	11.00	94.00
3	12.00	93.00
3	13.00	92.00
3	14.00	92.00
3	15.00	91.00
3	16.00	90.00

Sched: Matrix: DEPR EX X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3	17.00	90.00
3	18.00	89.00
3	19.00	89.00
3	20.00	88.00
3	21.00	87.00
3	22.00	87.00
3	23.00	86.00
3	24.00	85.00
3	25.00	85.00
3	26.00	84.00
3	27.00	83.00
3	28.00	83.00
3	29.00	82.00
3	30.00	82.00
3	31.00	81.00
3	32.00	80.00
3	33.00	80.00
3	34.00	79.00
3	35.00	78.00
3	36.00	78.00
3	37.00	77.00
3	38.00	76.00
3	39.00	76.00
3	40.00	75.00
3	41.00	75.00
3	42.00	74.00
3	43.00	73.00
3	44.00	73.00
3	45.00	72.00
3	46.00	71.00
3	47.00	71.00
3	48.00	70.00
3	49.00	69.00
3	50.00	69.00
3	51.00	68.00
3	52.00	68.00
3	53.00	67.00
3	54.00	66.00
3	55.00	66.00
3	56.00	65.00
3	57.00	65.00
3	58.00	65.00
3	59.00	65.00
3	60.00	65.00
3	61.00	65.00
3	62.00	65.00
3	63.00	65.00
3	64.00	65.00
3	65.00	65.00
3	66.00	65.00
3	67.00	65.00
3	68.00	65.00
3	69.00	65.00
3	70.00	65.00
3	71.00	65.00
3	199.00	65.00
3+	1.00	100.00
3+	2.00	99.00
3+	3.00	99.00
3+	4.00	98.00
3+	5.00	97.00
3+	6.00	97.00
3+	7.00	96.00
3+	8.00	96.00
3+	9.00	95.00
3+	10.00	94.00
3+	11.00	94.00
3+	12.00	93.00
3+	13.00	92.00
3+	14.00	92.00
3+	15.00	91.00
3+	16.00	90.00
3+	17.00	90.00
3+	18.00	89.00
3+	19.00	89.00
3+	20.00	88.00
3+	21.00	87.00
3+	22.00	87.00
3+	23.00	86.00
3+	24.00	85.00
3+	25.00	85.00
3+	26.00	84.00
3+	27.00	83.00
3+	28.00	83.00
3+	29.00	82.00
3+	30.00	82.00
3+	31.00	81.00
3+	32.00	80.00
3+	33.00	80.00
3+	34.00	79.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3+	35.00	78.00
3+	36.00	78.00
3+	37.00	77.00
3+	38.00	76.00
3+	39.00	76.00
3+	40.00	75.00
3+	41.00	75.00
3+	42.00	74.00
3+	43.00	73.00
3+	44.00	73.00
3+	45.00	72.00
3+	46.00	71.00
3+	47.00	71.00
3+	48.00	70.00
3+	49.00	69.00
3+	50.00	69.00
3+	51.00	68.00
3+	52.00	68.00
3+	53.00	67.00
3+	54.00	66.00
3+	55.00	66.00
3+	56.00	65.00
3+	57.00	65.00
3+	58.00	65.00
3+	59.00	65.00
3+	60.00	65.00
3+	61.00	65.00
3+	62.00	65.00
3+	63.00	65.00
3+	64.00	65.00
3+	65.00	65.00
3+	66.00	65.00
3+	67.00	65.00
3+	68.00	65.00
3+	69.00	65.00
3+	70.00	65.00
3+	71.00	65.00
3+	199.00	65.00
3-	1.00	100.00
3-	2.00	99.00
3-	3.00	99.00
3-	4.00	98.00
3-	5.00	97.00
3-	6.00	97.00
3-	7.00	96.00
3-	8.00	96.00
3-	9.00	95.00
3-	10.00	94.00
3-	11.00	94.00
3-	12.00	93.00
3-	13.00	92.00
3-	14.00	92.00
3-	15.00	91.00
3-	16.00	90.00
3-	17.00	90.00
3-	18.00	89.00
3-	19.00	89.00
3-	20.00	88.00
3-	21.00	87.00
3-	22.00	87.00
3-	23.00	86.00
3-	24.00	85.00
3-	25.00	85.00
3-	26.00	84.00
3-	27.00	83.00
3-	28.00	83.00
3-	29.00	82.00
3-	30.00	82.00
3-	31.00	81.00
3-	32.00	80.00
3-	33.00	80.00
3-	34.00	79.00
3-	35.00	78.00
3-	36.00	78.00
3-	37.00	77.00
3-	38.00	76.00
3-	39.00	76.00
3-	40.00	75.00
3-	41.00	75.00
3-	42.00	74.00
3-	43.00	73.00
3-	44.00	73.00
3-	45.00	72.00
3-	46.00	71.00
3-	47.00	71.00
3-	48.00	70.00
3-	49.00	69.00
3-	50.00	69.00
3-	51.00	68.00
3-	52.00	68.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
3-	53.00	67.00
3-	54.00	66.00
3-	55.00	66.00
3-	56.00	65.00
3-	57.00	65.00
3-	58.00	65.00
3-	59.00	65.00
3-	60.00	65.00
3-	61.00	65.00
3-	62.00	65.00
3-	63.00	65.00
3-	64.00	65.00
3-	65.00	65.00
3-	66.00	65.00
3-	67.00	65.00
3-	68.00	65.00
3-	69.00	65.00
3-	70.00	65.00
3-	71.00	65.00
3-	199.00	65.00
4	1.00	100.00
4	2.00	99.00
4	3.00	99.00
4	4.00	98.00
4	5.00	98.00
4	6.00	97.00
4	7.00	97.00
4	8.00	96.00
4	9.00	95.00
4	10.00	95.00
4	11.00	94.00
4	12.00	94.00
4	13.00	93.00
4	14.00	92.00
4	15.00	92.00
4	16.00	91.00
4	17.00	91.00
4	18.00	90.00
4	19.00	90.00
4	20.00	89.00
4	21.00	88.00
4	22.00	88.00
4	23.00	87.00
4	24.00	87.00
4	25.00	86.00
4	26.00	85.00
4	27.00	85.00
4	28.00	84.00
4	29.00	84.00
4	30.00	83.00
4	31.00	83.00
4	32.00	82.00
4	33.00	81.00
4	34.00	81.00
4	35.00	80.00
4	36.00	80.00
4	37.00	79.00
4	38.00	78.00
4	39.00	78.00
4	40.00	77.00
4	41.00	77.00
4	42.00	76.00
4	43.00	76.00
4	44.00	75.00
4	45.00	74.00
4	46.00	74.00
4	47.00	73.00
4	48.00	73.00
4	49.00	72.00
4	50.00	71.00
4	51.00	71.00
4	52.00	70.00
4	53.00	70.00
4	54.00	69.00
4	55.00	69.00
4	56.00	68.00
4	57.00	67.00
4	58.00	67.00
4	59.00	66.00
4	60.00	66.00
4	61.00	65.00
4	62.00	65.00
4	63.00	65.00
4	64.00	65.00
4	65.00	65.00
4	66.00	65.00
4	67.00	65.00
4	68.00	65.00
4	69.00	65.00
4	70.00	65.00

Sched: Matrix: DEPR EX X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4	71.00	65.00
4	199.00	65.00
4+	1.00	100.00
4+	2.00	99.00
4+	3.00	99.00
4+	4.00	98.00
4+	5.00	98.00
4+	6.00	97.00
4+	7.00	97.00
4+	8.00	96.00
4+	9.00	95.00
4+	10.00	95.00
4+	11.00	94.00
4+	12.00	94.00
4+	13.00	93.00
4+	14.00	92.00
4+	15.00	92.00
4+	16.00	91.00
4+	17.00	91.00
4+	18.00	90.00
4+	19.00	90.00
4+	20.00	89.00
4+	21.00	88.00
4+	22.00	88.00
4+	23.00	87.00
4+	24.00	87.00
4+	25.00	86.00
4+	26.00	85.00
4+	27.00	85.00
4+	28.00	84.00
4+	29.00	84.00
4+	30.00	83.00
4+	31.00	83.00
4+	32.00	82.00
4+	33.00	81.00
4+	34.00	81.00
4+	35.00	80.00
4+	36.00	80.00
4+	37.00	79.00
4+	38.00	78.00
4+	39.00	78.00
4+	40.00	77.00
4+	41.00	77.00
4+	42.00	76.00
4+	43.00	76.00
4+	44.00	75.00
4+	45.00	74.00
4+	46.00	74.00
4+	47.00	73.00
4+	48.00	73.00
4+	49.00	72.00
4+	50.00	71.00
4+	51.00	71.00
4+	52.00	70.00
4+	53.00	70.00
4+	54.00	69.00
4+	55.00	69.00
4+	56.00	68.00
4+	57.00	67.00
4+	58.00	67.00
4+	59.00	66.00
4+	60.00	66.00
4+	61.00	65.00
4+	62.00	65.00
4+	63.00	65.00
4+	64.00	65.00
4+	65.00	65.00
4+	66.00	65.00
4+	67.00	65.00
4+	68.00	65.00
4+	69.00	65.00
4+	70.00	65.00
4+	71.00	65.00
4+	199.00	65.00
4-	1.00	100.00
4-	2.00	99.00
4-	3.00	99.00
4-	4.00	98.00
4-	5.00	98.00
4-	6.00	97.00
4-	7.00	97.00
4-	8.00	96.00
4-	9.00	95.00
4-	10.00	95.00
4-	11.00	94.00
4-	12.00	94.00
4-	13.00	93.00
4-	14.00	92.00
4-	15.00	92.00
4-	16.00	91.00

Sched:

Matrix: DEPR EX

X Axis: CLASS

Label: DEPR

Adj Factor: N/A

Y Axis: YEAR

Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
4-	17.00	91.00
4-	18.00	90.00
4-	19.00	90.00
4-	20.00	89.00
4-	21.00	88.00
4-	22.00	88.00
4-	23.00	87.00
4-	24.00	87.00
4-	25.00	86.00
4-	26.00	85.00
4-	27.00	85.00
4-	28.00	84.00
4-	29.00	84.00
4-	30.00	83.00
4-	31.00	83.00
4-	32.00	82.00
4-	33.00	81.00
4-	34.00	81.00
4-	35.00	80.00
4-	36.00	80.00
4-	37.00	79.00
4-	38.00	78.00
4-	39.00	78.00
4-	40.00	77.00
4-	41.00	77.00
4-	42.00	76.00
4-	43.00	76.00
4-	44.00	75.00
4-	45.00	74.00
4-	46.00	74.00
4-	47.00	73.00
4-	48.00	73.00
4-	49.00	72.00
4-	50.00	71.00
4-	51.00	71.00
4-	52.00	70.00
4-	53.00	70.00
4-	54.00	69.00
4-	55.00	69.00
4-	56.00	68.00
4-	57.00	67.00
4-	58.00	67.00
4-	59.00	66.00
4-	60.00	66.00
4-	61.00	65.00
4-	62.00	65.00
4-	63.00	65.00
4-	64.00	65.00
4-	65.00	65.00
4-	66.00	65.00
4-	67.00	65.00
4-	68.00	65.00
4-	69.00	65.00
4-	70.00	65.00
4-	71.00	65.00
4-	199.00	65.00
5	1.00	100.00
5	2.00	99.00
5	3.00	99.00
5	4.00	98.00
5	5.00	98.00
5	6.00	97.00
5	7.00	97.00
5	8.00	96.00
5	9.00	96.00
5	10.00	95.00
5	11.00	95.00
5	12.00	94.00
5	13.00	94.00
5	14.00	93.00
5	15.00	92.00
5	16.00	92.00
5	17.00	91.00
5	18.00	91.00
5	19.00	90.00
5	20.00	90.00
5	21.00	89.00
5	22.00	89.00
5	23.00	88.00
5	24.00	88.00
5	25.00	87.00
5	26.00	87.00
5	27.00	86.00
5	28.00	85.00
5	29.00	85.00
5	30.00	84.00
5	31.00	84.00
5	32.00	83.00
5	33.00	83.00
5	34.00	82.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5	35.00	82.00
5	36.00	81.00
5	37.00	81.00
5	38.00	80.00
5	39.00	80.00
5	40.00	79.00
5	41.00	78.00
5	42.00	78.00
5	43.00	77.00
5	44.00	77.00
5	45.00	76.00
5	46.00	76.00
5	47.00	75.00
5	48.00	75.00
5	49.00	74.00
5	50.00	74.00
5	51.00	73.00
5	52.00	73.00
5	53.00	72.00
5	54.00	71.00
5	55.00	71.00
5	56.00	70.00
5	57.00	70.00
5	58.00	69.00
5	59.00	69.00
5	60.00	68.00
5	61.00	68.00
5	62.00	67.00
5	63.00	67.00
5	64.00	66.00
5	65.00	66.00
5	66.00	65.00
5	67.00	65.00
5	68.00	65.00
5	69.00	65.00
5	70.00	65.00
5	71.00	65.00
5	199.00	65.00
5+	1.00	100.00
5+	2.00	99.00
5+	3.00	99.00
5+	4.00	98.00
5+	5.00	98.00
5+	6.00	97.00
5+	7.00	97.00
5+	8.00	96.00
5+	9.00	96.00
5+	10.00	95.00
5+	11.00	95.00
5+	12.00	94.00
5+	13.00	94.00
5+	14.00	93.00
5+	15.00	92.00
5+	16.00	92.00
5+	17.00	91.00
5+	18.00	91.00
5+	19.00	90.00
5+	20.00	90.00
5+	21.00	89.00
5+	22.00	89.00
5+	23.00	88.00
5+	24.00	88.00
5+	25.00	87.00
5+	26.00	87.00
5+	27.00	86.00
5+	28.00	85.00
5+	29.00	85.00
5+	30.00	84.00
5+	31.00	84.00
5+	32.00	83.00
5+	33.00	83.00
5+	34.00	82.00
5+	35.00	82.00
5+	36.00	81.00
5+	37.00	81.00
5+	38.00	80.00
5+	39.00	80.00
5+	40.00	79.00
5+	41.00	78.00
5+	42.00	78.00
5+	43.00	77.00
5+	44.00	77.00
5+	45.00	76.00
5+	46.00	76.00
5+	47.00	75.00
5+	48.00	75.00
5+	49.00	74.00
5+	50.00	74.00
5+	51.00	73.00
5+	52.00	73.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5+	53.00	72.00
5+	54.00	71.00
5+	55.00	71.00
5+	56.00	70.00
5+	57.00	70.00
5+	58.00	69.00
5+	59.00	69.00
5+	60.00	68.00
5+	61.00	68.00
5+	62.00	67.00
5+	63.00	67.00
5+	64.00	66.00
5+	65.00	66.00
5+	66.00	65.00
5+	67.00	65.00
5+	68.00	65.00
5+	69.00	65.00
5+	70.00	65.00
5+	71.00	65.00
5+	199.00	65.00
5-	1.00	100.00
5-	2.00	99.00
5-	3.00	99.00
5-	4.00	98.00
5-	5.00	98.00
5-	6.00	97.00
5-	7.00	97.00
5-	8.00	96.00
5-	9.00	96.00
5-	10.00	95.00
5-	11.00	95.00
5-	12.00	94.00
5-	13.00	94.00
5-	14.00	93.00
5-	15.00	92.00
5-	16.00	92.00
5-	17.00	91.00
5-	18.00	91.00
5-	19.00	90.00
5-	20.00	90.00
5-	21.00	89.00
5-	22.00	89.00
5-	23.00	88.00
5-	24.00	88.00
5-	25.00	87.00
5-	26.00	87.00
5-	27.00	86.00
5-	28.00	85.00
5-	29.00	85.00
5-	30.00	84.00
5-	31.00	84.00
5-	32.00	83.00
5-	33.00	83.00
5-	34.00	82.00
5-	35.00	82.00
5-	36.00	81.00
5-	37.00	81.00
5-	38.00	80.00
5-	39.00	80.00
5-	40.00	79.00
5-	41.00	78.00
5-	42.00	78.00
5-	43.00	77.00
5-	44.00	77.00
5-	45.00	76.00
5-	46.00	76.00
5-	47.00	75.00
5-	48.00	75.00
5-	49.00	74.00
5-	50.00	74.00
5-	51.00	73.00
5-	52.00	73.00
5-	53.00	72.00
5-	54.00	71.00
5-	55.00	71.00
5-	56.00	70.00
5-	57.00	70.00
5-	58.00	69.00
5-	59.00	69.00
5-	60.00	68.00
5-	61.00	68.00
5-	62.00	67.00
5-	63.00	67.00
5-	64.00	66.00
5-	65.00	66.00
5-	66.00	65.00
5-	67.00	65.00
5-	68.00	65.00
5-	69.00	65.00
5-	70.00	65.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
5-	71.00	65.00
5-	199.00	65.00
6	1.00	100.00
6	2.00	100.00
6	3.00	99.00
6	4.00	99.00
6	5.00	98.00
6	6.00	98.00
6	7.00	97.00
6	8.00	97.00
6	9.00	96.00
6	10.00	96.00
6	11.00	95.00
6	12.00	95.00
6	13.00	94.00
6	14.00	94.00
6	15.00	93.00
6	16.00	93.00
6	17.00	92.00
6	18.00	92.00
6	19.00	91.00
6	20.00	91.00
6	21.00	90.00
6	22.00	90.00
6	23.00	89.00
6	24.00	89.00
6	25.00	88.00
6	26.00	88.00
6	27.00	87.00
6	28.00	87.00
6	29.00	86.00
6	30.00	86.00
6	31.00	85.00
6	32.00	85.00
6	33.00	84.00
6	34.00	84.00
6	35.00	83.00
6	36.00	83.00
6	37.00	82.00
6	38.00	82.00
6	39.00	81.00
6	40.00	81.00
6	41.00	80.00
6	42.00	80.00
6	43.00	79.00
6	44.00	79.00
6	45.00	78.00
6	46.00	78.00
6	47.00	77.00
6	48.00	77.00
6	49.00	76.00
6	50.00	76.00
6	51.00	75.00
6	52.00	75.00
6	53.00	74.00
6	54.00	74.00
6	55.00	73.00
6	56.00	73.00
6	57.00	72.00
6	58.00	72.00
6	59.00	71.00
6	60.00	71.00
6	61.00	70.00
6	62.00	70.00
6	63.00	69.00
6	64.00	69.00
6	65.00	68.00
6	66.00	68.00
6	67.00	67.00
6	68.00	67.00
6	69.00	66.00
6	70.00	66.00
6	71.00	65.00
6	199.00	65.00
6+	1.00	100.00
6+	2.00	100.00
6+	3.00	99.00
6+	4.00	99.00
6+	5.00	98.00
6+	6.00	98.00
6+	7.00	97.00
6+	8.00	97.00
6+	9.00	96.00
6+	10.00	96.00
6+	11.00	95.00
6+	12.00	95.00
6+	13.00	94.00
6+	14.00	94.00
6+	15.00	93.00
6+	16.00	93.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6+	17.00	92.00
6+	18.00	92.00
6+	19.00	91.00
6+	20.00	91.00
6+	21.00	90.00
6+	22.00	90.00
6+	23.00	89.00
6+	24.00	89.00
6+	25.00	88.00
6+	26.00	88.00
6+	27.00	87.00
6+	28.00	87.00
6+	29.00	86.00
6+	30.00	86.00
6+	31.00	85.00
6+	32.00	85.00
6+	33.00	84.00
6+	34.00	84.00
6+	35.00	83.00
6+	36.00	83.00
6+	37.00	82.00
6+	38.00	82.00
6+	39.00	81.00
6+	40.00	81.00
6+	41.00	80.00
6+	42.00	80.00
6+	43.00	79.00
6+	44.00	79.00
6+	45.00	78.00
6+	46.00	78.00
6+	47.00	77.00
6+	48.00	77.00
6+	49.00	76.00
6+	50.00	76.00
6+	51.00	75.00
6+	52.00	75.00
6+	53.00	74.00
6+	54.00	74.00
6+	55.00	73.00
6+	56.00	73.00
6+	57.00	72.00
6+	58.00	72.00
6+	59.00	71.00
6+	60.00	71.00
6+	61.00	70.00
6+	62.00	70.00
6+	63.00	69.00
6+	64.00	69.00
6+	65.00	68.00
6+	66.00	68.00
6+	67.00	67.00
6+	68.00	67.00
6+	69.00	66.00
6+	70.00	66.00
6+	71.00	65.00
6+	199.00	65.00
6-	1.00	100.00
6-	2.00	100.00
6-	3.00	99.00
6-	4.00	99.00
6-	5.00	98.00
6-	6.00	98.00
6-	7.00	97.00
6-	8.00	97.00
6-	9.00	96.00
6-	10.00	96.00
6-	11.00	95.00
6-	12.00	95.00
6-	13.00	94.00
6-	14.00	94.00
6-	15.00	93.00
6-	16.00	93.00
6-	17.00	92.00
6-	18.00	92.00
6-	19.00	91.00
6-	20.00	91.00
6-	21.00	90.00
6-	22.00	90.00
6-	23.00	89.00
6-	24.00	89.00
6-	25.00	88.00
6-	26.00	88.00
6-	27.00	87.00
6-	28.00	87.00
6-	29.00	86.00
6-	30.00	86.00
6-	31.00	85.00
6-	32.00	85.00
6-	33.00	84.00
6-	34.00	84.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
6-	35.00	83.00
6-	36.00	83.00
6-	37.00	82.00
6-	38.00	82.00
6-	39.00	81.00
6-	40.00	81.00
6-	41.00	80.00
6-	42.00	80.00
6-	43.00	79.00
6-	44.00	79.00
6-	45.00	78.00
6-	46.00	78.00
6-	47.00	77.00
6-	48.00	77.00
6-	49.00	76.00
6-	50.00	76.00
6-	51.00	75.00
6-	52.00	75.00
6-	53.00	74.00
6-	54.00	74.00
6-	55.00	73.00
6-	56.00	73.00
6-	57.00	72.00
6-	58.00	72.00
6-	59.00	71.00
6-	60.00	71.00
6-	61.00	70.00
6-	62.00	70.00
6-	63.00	69.00
6-	64.00	69.00
6-	65.00	68.00
6-	66.00	68.00
6-	67.00	67.00
6-	68.00	67.00
6-	69.00	66.00
6-	70.00	66.00
6-	71.00	65.00
6-	199.00	65.00
7	1.00	100.00
7	2.00	100.00
7	3.00	99.00
7	4.00	99.00
7	5.00	98.00
7	6.00	98.00
7	7.00	97.00
7	8.00	97.00
7	9.00	96.00
7	10.00	96.00
7	11.00	95.00
7	12.00	95.00
7	13.00	94.00
7	14.00	94.00
7	15.00	93.00
7	16.00	93.00
7	17.00	92.00
7	18.00	92.00
7	19.00	91.00
7	20.00	91.00
7	21.00	90.00
7	22.00	90.00
7	23.00	89.00
7	24.00	89.00
7	25.00	88.00
7	26.00	88.00
7	27.00	87.00
7	28.00	87.00
7	29.00	86.00
7	30.00	86.00
7	31.00	85.00
7	32.00	85.00
7	33.00	84.00
7	34.00	84.00
7	35.00	83.00
7	36.00	83.00
7	37.00	82.00
7	38.00	82.00
7	39.00	81.00
7	40.00	81.00
7	41.00	80.00
7	42.00	80.00
7	43.00	79.00
7	44.00	79.00
7	45.00	78.00
7	46.00	78.00
7	47.00	77.00
7	48.00	77.00
7	49.00	76.00
7	50.00	76.00
7	51.00	75.00
7	52.00	75.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7	53.00	74.00
7	54.00	74.00
7	55.00	73.00
7	56.00	73.00
7	57.00	72.00
7	58.00	72.00
7	59.00	71.00
7	60.00	71.00
7	61.00	70.00
7	62.00	70.00
7	63.00	69.00
7	64.00	69.00
7	65.00	68.00
7	66.00	68.00
7	67.00	67.00
7	68.00	67.00
7	69.00	66.00
7	70.00	66.00
7	71.00	65.00
7	199.00	65.00
7+	1.00	100.00
7+	2.00	100.00
7+	3.00	99.00
7+	4.00	99.00
7+	5.00	98.00
7+	6.00	98.00
7+	7.00	97.00
7+	8.00	97.00
7+	9.00	96.00
7+	10.00	96.00
7+	11.00	95.00
7+	12.00	95.00
7+	13.00	94.00
7+	14.00	94.00
7+	15.00	93.00
7+	16.00	93.00
7+	17.00	92.00
7+	18.00	92.00
7+	19.00	91.00
7+	20.00	91.00
7+	21.00	90.00
7+	22.00	90.00
7+	23.00	89.00
7+	24.00	89.00
7+	25.00	88.00
7+	26.00	88.00
7+	27.00	87.00
7+	28.00	87.00
7+	29.00	86.00
7+	30.00	86.00
7+	31.00	85.00
7+	32.00	85.00
7+	33.00	84.00
7+	34.00	84.00
7+	35.00	83.00
7+	36.00	83.00
7+	37.00	82.00
7+	38.00	82.00
7+	39.00	81.00
7+	40.00	81.00
7+	41.00	80.00
7+	42.00	80.00
7+	43.00	79.00
7+	44.00	79.00
7+	45.00	78.00
7+	46.00	78.00
7+	47.00	77.00
7+	48.00	77.00
7+	49.00	76.00
7+	50.00	76.00
7+	51.00	75.00
7+	52.00	75.00
7+	53.00	74.00
7+	54.00	74.00
7+	55.00	73.00
7+	56.00	73.00
7+	57.00	72.00
7+	58.00	72.00
7+	59.00	71.00
7+	60.00	71.00
7+	61.00	70.00
7+	62.00	70.00
7+	63.00	69.00
7+	64.00	69.00
7+	65.00	68.00
7+	66.00	68.00
7+	67.00	67.00
7+	68.00	67.00
7+	69.00	66.00
7+	70.00	66.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
7+	71.00	65.00
7+	199.00	65.00
7-	1.00	100.00
7-	2.00	100.00
7-	3.00	99.00
7-	4.00	99.00
7-	5.00	98.00
7-	6.00	98.00
7-	7.00	97.00
7-	8.00	97.00
7-	9.00	96.00
7-	10.00	96.00
7-	11.00	95.00
7-	12.00	95.00
7-	13.00	94.00
7-	14.00	94.00
7-	15.00	93.00
7-	16.00	93.00
7-	17.00	92.00
7-	18.00	92.00
7-	19.00	91.00
7-	20.00	91.00
7-	21.00	90.00
7-	22.00	90.00
7-	23.00	89.00
7-	24.00	89.00
7-	25.00	88.00
7-	26.00	88.00
7-	27.00	87.00
7-	28.00	87.00
7-	29.00	86.00
7-	30.00	86.00
7-	31.00	85.00
7-	32.00	85.00
7-	33.00	84.00
7-	34.00	84.00
7-	35.00	83.00
7-	36.00	83.00
7-	37.00	82.00
7-	38.00	82.00
7-	39.00	81.00
7-	40.00	81.00
7-	41.00	80.00
7-	42.00	80.00
7-	43.00	79.00
7-	44.00	79.00
7-	45.00	78.00
7-	46.00	78.00
7-	47.00	77.00
7-	48.00	77.00
7-	49.00	76.00
7-	50.00	76.00
7-	51.00	75.00
7-	52.00	75.00
7-	53.00	74.00
7-	54.00	74.00
7-	55.00	73.00
7-	56.00	73.00
7-	57.00	72.00
7-	58.00	72.00
7-	59.00	71.00
7-	60.00	71.00
7-	61.00	70.00
7-	62.00	70.00
7-	63.00	69.00
7-	64.00	69.00
7-	65.00	68.00
7-	66.00	68.00
7-	67.00	67.00
7-	68.00	67.00
7-	69.00	66.00
7-	70.00	66.00
7-	71.00	65.00
7-	199.00	65.00
8	1.00	100.00
8	2.00	100.00
8	3.00	99.00
8	4.00	99.00
8	5.00	98.00
8	6.00	98.00
8	7.00	97.00
8	8.00	97.00
8	9.00	96.00
8	10.00	96.00
8	11.00	95.00
8	12.00	95.00
8	13.00	94.00
8	14.00	94.00
8	15.00	93.00
8	16.00	93.00

Sched:			
Matrix:	DEPR EX	X Axis: CLASS	Label: DEPR
Adj Factor:	N/A	Y Axis: YEAR	Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8	17.00	92.00
8	18.00	92.00
8	19.00	91.00
8	20.00	91.00
8	21.00	90.00
8	22.00	90.00
8	23.00	89.00
8	24.00	89.00
8	25.00	88.00
8	26.00	88.00
8	27.00	87.00
8	28.00	87.00
8	29.00	86.00
8	30.00	86.00
8	31.00	85.00
8	32.00	85.00
8	33.00	84.00
8	34.00	84.00
8	35.00	83.00
8	36.00	83.00
8	37.00	82.00
8	38.00	82.00
8	39.00	81.00
8	40.00	81.00
8	41.00	80.00
8	42.00	80.00
8	43.00	79.00
8	44.00	79.00
8	45.00	78.00
8	46.00	78.00
8	47.00	77.00
8	48.00	77.00
8	49.00	76.00
8	50.00	76.00
8	51.00	75.00
8	52.00	75.00
8	53.00	74.00
8	54.00	74.00
8	55.00	73.00
8	56.00	73.00
8	57.00	72.00
8	58.00	72.00
8	59.00	71.00
8	60.00	71.00
8	61.00	70.00
8	62.00	70.00
8	63.00	69.00
8	64.00	69.00
8	65.00	68.00
8	66.00	68.00
8	67.00	67.00
8	68.00	67.00
8	69.00	66.00
8	70.00	66.00
8	71.00	65.00
8	199.00	65.00
8+	1.00	100.00
8+	2.00	100.00
8+	3.00	99.00
8+	4.00	99.00
8+	5.00	98.00
8+	6.00	98.00
8+	7.00	97.00
8+	8.00	97.00
8+	9.00	96.00
8+	10.00	96.00
8+	11.00	95.00
8+	12.00	95.00
8+	13.00	94.00
8+	14.00	94.00
8+	15.00	93.00
8+	16.00	93.00
8+	17.00	92.00
8+	18.00	92.00
8+	19.00	91.00
8+	20.00	91.00
8+	21.00	90.00
8+	22.00	90.00
8+	23.00	89.00
8+	24.00	89.00
8+	25.00	88.00
8+	26.00	88.00
8+	27.00	87.00
8+	28.00	87.00
8+	29.00	86.00
8+	30.00	86.00
8+	31.00	85.00
8+	32.00	85.00
8+	33.00	84.00
8+	34.00	84.00

Sched: Matrix: DEPR EX X Axis: CLASS Label: DEPR
 Adj Factor: N/A Y Axis: YEAR Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8+	35.00	83.00
8+	36.00	83.00
8+	37.00	82.00
8+	38.00	82.00
8+	39.00	81.00
8+	40.00	81.00
8+	41.00	80.00
8+	42.00	80.00
8+	43.00	79.00
8+	44.00	79.00
8+	45.00	78.00
8+	46.00	78.00
8+	47.00	77.00
8+	48.00	77.00
8+	49.00	76.00
8+	50.00	76.00
8+	51.00	75.00
8+	52.00	75.00
8+	53.00	74.00
8+	54.00	74.00
8+	55.00	73.00
8+	56.00	73.00
8+	57.00	72.00
8+	58.00	72.00
8+	59.00	71.00
8+	60.00	71.00
8+	61.00	70.00
8+	62.00	70.00
8+	63.00	69.00
8+	64.00	69.00
8+	65.00	68.00
8+	66.00	68.00
8+	67.00	67.00
8+	68.00	67.00
8+	69.00	66.00
8+	70.00	66.00
8+	71.00	65.00
8+	199.00	65.00
8-	1.00	100.00
8-	2.00	100.00
8-	3.00	99.00
8-	4.00	99.00
8-	5.00	98.00
8-	6.00	98.00
8-	7.00	97.00
8-	8.00	97.00
8-	9.00	96.00
8-	10.00	96.00
8-	11.00	95.00
8-	12.00	95.00
8-	13.00	94.00
8-	14.00	94.00
8-	15.00	93.00
8-	16.00	93.00
8-	17.00	92.00
8-	18.00	92.00
8-	19.00	91.00
8-	20.00	91.00
8-	21.00	90.00
8-	22.00	90.00
8-	23.00	89.00
8-	24.00	89.00
8-	25.00	88.00
8-	26.00	88.00
8-	27.00	87.00
8-	28.00	87.00
8-	29.00	86.00
8-	30.00	86.00
8-	31.00	85.00
8-	32.00	85.00
8-	33.00	84.00
8-	34.00	84.00
8-	35.00	83.00
8-	36.00	83.00
8-	37.00	82.00
8-	38.00	82.00
8-	39.00	81.00
8-	40.00	81.00
8-	41.00	80.00
8-	42.00	80.00
8-	43.00	79.00
8-	44.00	79.00
8-	45.00	78.00
8-	46.00	78.00
8-	47.00	77.00
8-	48.00	77.00
8-	49.00	76.00
8-	50.00	76.00
8-	51.00	75.00
8-	52.00	75.00

Sched:
Matrix: DEPR EX
Adj Factor: N/A

X Axis: CLASS
Y Axis: YEAR

Label: DEPR
Operator: end

<u>CLASS</u>	<u>YEAR</u>	<u>VALUE</u>
8-	53.00	74.00
8-	54.00	74.00
8-	55.00	73.00
8-	56.00	73.00
8-	57.00	72.00
8-	58.00	72.00
8-	59.00	71.00
8-	60.00	71.00
8-	61.00	70.00
8-	62.00	70.00
8-	63.00	69.00
8-	64.00	69.00
8-	65.00	68.00
8-	66.00	68.00
8-	67.00	67.00
8-	68.00	67.00
8-	69.00	66.00
8-	70.00	66.00
8-	71.00	65.00
8-	199.00	65.00

Matrix Schedule

Sched:
 Matrix: Exterior Wall X Axis: CLASS Label: MOD
 Adj Factor: N/A Y Axis: EXTERIOR WALL Operator: multiplicative

<u>CLASS</u>	<u>EXTERIOR WALL</u>	<u>VALUE</u>
1	R1	110.37
1	R2	103.68
1	R3	102.64
1	R4	101.33
1	R5	100.00
1	R6	100.00
1	R7	100.09
1	R8	100.00
1	R9	107.58
1	R10	105.81
1+	R1	111.41
1+	R2	104.09
1+	R3	103.23
1+	R4	101.37
1+	R5	100.00
1+	R6	100.00
1+	R7	100.10
1+	R8	100.00
1+	R9	107.85
1+	R10	106.42
1-	R1	109.26
1-	R2	103.23
1-	R3	102.00
1-	R4	101.28
1-	R5	100.00
1-	R6	100.00
1-	R7	100.08
1-	R8	100.00
1-	R9	107.30
1-	R10	105.15
2	R1	110.37
2	R2	103.68
2	R3	102.64
2	R4	101.33
2	R5	100.00
2	R6	100.00
2	R7	100.09
2	R8	100.00
2	R9	107.58
2	R10	105.81
2+	R1	111.41
2+	R2	104.09
2+	R3	103.23
2+	R4	101.37
2+	R5	100.00
2+	R6	100.00
2+	R7	100.10
2+	R8	100.00
2+	R9	107.85
2+	R10	106.42
2-	R1	109.26
2-	R2	103.23
2-	R3	102.00
2-	R4	101.28
2-	R5	100.00
2-	R6	100.00
2-	R7	100.08
2-	R8	100.00
2-	R9	107.30
2-	R10	105.15
3	R1	113.99
3	R2	105.28
3	R3	104.79
3	R4	101.46
3	R5	100.00
3	R6	100.00
3	R7	100.13
3	R8	100.00
3	R9	108.41
3	R10	108.03
3+	R1	113.33
3+	R2	105.18
3+	R3	105.61
3+	R4	101.51
3+	R5	100.00
3+	R6	100.00
3+	R7	100.14
3+	R8	100.00
3+	R9	108.85
3+	R10	108.88
3-	R1	113.07
3-	R2	104.91
3-	R3	104.27
3-	R4	101.42
3-	R5	100.00
3-	R6	100.00
3-	R7	100.12
3-	R8	100.00

Sched:			
Matrix:	Exterior Wall	X Axis: CLASS	Label: MOD
Adj Factor:	N/A	Y Axis: EXTERIOR WALL	Operator: multiplicative

<u>CLASS</u>	<u>EXTERIOR WALL</u>	<u>VALUE</u>
3-	R9	108.17
3-	R10	107.49
4	R1	110.84
4	R2	104.56
4	R3	107.20
4	R4	101.59
4	R5	100.00
4	R6	100.00
4	R7	100.17
4	R8	100.00
4	R9	109.44
4	R10	110.52
4+	R1	112.70
4+	R2	104.78
4+	R3	109.35
4+	R4	101.52
4+	R5	100.00
4+	R6	100.00
4+	R7	100.00
4+	R8	100.00
4+	R9	109.83
4+	R10	112.73
4-	R1	111.30
4-	R2	104.68
4-	R3	106.59
4-	R4	101.55
4-	R5	100.00
4-	R6	100.00
4-	R7	100.16
4-	R8	100.00
4-	R9	109.12
4-	R10	109.88
5	R1	110.84
5	R2	104.56
5	R3	107.20
5	R4	101.59
5	R5	100.00
5	R6	100.00
5	R7	100.17
5	R8	100.00
5	R9	109.44
5	R10	110.52
5+	R1	112.70
5+	R2	104.78
5+	R3	109.35
5+	R4	101.52
5+	R5	100.00
5+	R6	100.00
5+	R7	100.00
5+	R8	100.00
5+	R9	109.83
5+	R10	112.73
5-	R1	111.30
5-	R2	104.68
5-	R3	106.59
5-	R4	101.55
5-	R5	100.00
5-	R6	100.00
5-	R7	100.16
5-	R8	100.00
5-	R9	109.12
5-	R10	109.88
6	R1	116.92
6	R2	105.29
6	R3	114.22
6	R4	101.38
6	R5	100.00
6	R6	100.00
6	R7	99.62
6	R8	100.00
6	R9	110.72
6	R10	117.75
6+	R1	116.90
6+	R2	108.11
6+	R3	109.50
6+	R4	106.91
6+	R5	100.00
6+	R6	100.00
6+	R7	99.99
6+	R8	100.00
6+	R9	110.17
6+	R10	112.89
6-	R1	115.70
6-	R2	105.14
6-	R3	112.81
6-	R4	101.42
6-	R5	100.00
6-	R6	100.00
6-	R7	99.73
6-	R8	100.00

Sched:
Matrix: Exterior Wall
Adj Factor: N/A

X Axis: CLASS
Y Axis: EXTERIOR WALL

Label: MOD
Operator: multiplicative

<u>CLASS</u>	<u>EXTERIOR WALL</u>	<u>VALUE</u>
6-	R9	110.47
6-	R10	116.30
7	R1	108.54
7	R2	103.17
7	R3	116.10
7	R4	100.00
7	R5	95.00
7	R6	100.00
7	R7	100.91
7	R8	100.00
7	R9	107.47
7	R10	120.55
7+	R1	107.38
7+	R2	102.95
7+	R3	115.96
7+	R4	100.00
7+	R5	95.00
7+	R6	100.00
7+	R7	100.77
7+	R8	100.00
7+	R9	107.24
7+	R10	119.95
7-	R1	108.97
7-	R2	101.92
7-	R3	112.95
7-	R4	100.00
7-	R5	95.00
7-	R6	100.00
7-	R7	100.63
7-	R8	100.00
7-	R9	106.17
7-	R10	116.37
8	R1	106.60
8	R2	102.34
8	R3	115.30
8	R4	100.00
8	R5	95.00
8	R6	100.00
8	R7	100.46
8	R8	100.00
8	R9	104.86
8	R10	118.34
8+	R1	106.60
8+	R2	102.34
8+	R3	115.30
8+	R4	100.00
8+	R5	95.00
8+	R6	100.00
8+	R7	100.46
8+	R8	100.00
8+	R9	104.86
8+	R10	118.34
8-	R1	106.73
8-	R2	102.46
8-	R3	115.39
8-	R4	100.00
8-	R5	95.00
8-	R6	100.00
8-	R7	100.54
8-	R8	100.00
8-	R9	105.49
8-	R10	118.70

Matrix Schedule

Sched:

Matrix: Factor 1

X Axis: FACTOR 1

Label: MOD

Adj Factor: N/A

Y Axis: CLASS

Operator: multiplicative

<u>FACTOR 1</u>	<u>CLASS</u>	<u>VALUE</u>
1.5	1	92.00
1.5	1+	92.00
1.5	2	92.00
1.5	1-	92.00
1.5	2	92.00
1.5	2+	92.00
1.5	2-	92.00
1.5	3	92.00
1.5	3+	92.00
1.5	3-	92.00
1.5	4	92.00
1.5	4+	92.00
1.5	4-	92.00
1.5	5	92.00
1.5	5+	92.00
1.5	5-	92.00
1.5	6	92.00
1.5	6+	92.00
1.5	6-	92.00
1.5	7	92.00
1.5	7+	92.00
1.5	7-	92.00
1.5	8	92.00
1.5	8+	92.00
1.5	8-	92.00
2	1	95.00
2	1+	95.00
2	2	95.00
2	1-	95.00
2	2	95.00
2	2+	95.00
2	2-	95.00
2	3	95.00
2	3+	95.00
2	3-	95.00
2	4	95.00
2	4+	95.00
2	4-	95.00
2	5	95.00
2	5+	95.00
2	5-	95.00
2	6	95.00
2	6+	95.00
2	6-	95.00
2	7	95.00
2	7+	95.00
2	7-	95.00
2	8	95.00
2	8+	95.00
2	8-	95.00
2.5	1	92.00
2.5	1+	92.00
2.5	2	92.00
2.5	1-	92.00
2.5	2	92.00
2.5	2+	92.00
2.5	2-	92.00
2.5	3	92.00
2.5	3+	92.00
2.5	3-	92.00
2.5	4	92.00
2.5	4+	92.00
2.5	4-	92.00
2.5	5	92.00
2.5	5+	92.00
2.5	5-	92.00
2.5	6	92.00
2.5	6+	92.00
2.5	6-	92.00
2.5	7	92.00
2.5	7+	92.00
2.5	7-	92.00
2.5	8	92.00
2.5	8+	92.00
2.5	8-	92.00

Matrix Schedule

Sched:				
Matrix:	Fireplace	X Axis:	FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis:	CLASS	Operator: special
	<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>	
	1M1	1	760.00	
	1M1	1+	760.00	
	1M1	1-	760.00	
	1M1	2	950.00	
	1M1	2+	950.00	
	1M1	2-	950.00	
	1M1	3	1,520.00	
	1M1	3+	1,520.00	
	1M1	3-	1,520.00	
	1M1	4	1,900.00	
	1M1	4+	2,090.00	
	1M1	4-	1,900.00	
	1M1	5	1,900.00	
	1M1	5+	2,090.00	
	1M1	5-	1,900.00	
	1M1	6	2,090.00	
	1M1	6+	2,090.00	
	1M1	6-	1,900.00	
	1M1	7	2,570.00	
	1M1	7+	2,570.00	
	1M1	7-	2,570.00	
	1M1	8	3,140.00	
	1M1	8+	3,140.00	
	1M1	8-	3,140.00	
	1M2	1	990.00	
	1M2	1+	990.00	
	1M2	1-	990.00	
	1M2	2	1,240.00	
	1M2	2+	1,240.00	
	1M2	2-	1,240.00	
	1M2	3	1,980.00	
	1M2	3+	1,980.00	
	1M2	3-	1,980.00	
	1M2	4	2,470.00	
	1M2	4+	2,720.00	
	1M2	4-	2,470.00	
	1M2	5	2,470.00	
	1M2	5+	2,720.00	
	1M2	5-	2,470.00	
	1M2	6	2,720.00	
	1M2	6+	2,720.00	
	1M2	6-	2,470.00	
	1M2	7	3,330.00	
	1M2	7+	3,330.00	
	1M2	7-	3,330.00	
	1M2	8	4,090.00	
	1M2	8+	4,090.00	
	1M2	8-	4,090.00	
	1M3	1	990.00	
	1M3	1+	990.00	
	1M3	1-	990.00	
	1M3	2	1,240.00	
	1M3	2+	1,240.00	
	1M3	2-	1,240.00	
	1M3	3	1,980.00	
	1M3	3+	1,980.00	
	1M3	3-	1,980.00	
	1M3	4	2,470.00	
	1M3	4+	2,720.00	
	1M3	4-	2,470.00	
	1M3	5	2,470.00	
	1M3	5+	2,720.00	
	1M3	5-	2,470.00	
	1M3	6	2,720.00	
	1M3	6+	2,720.00	
	1M3	6-	2,470.00	
	1M3	7	3,330.00	
	1M3	7+	3,330.00	
	1M3	7-	3,330.00	
	1M3	8	4,090.00	
	1M3	8+	4,090.00	
	1M3	8-	4,090.00	
	1M4	1	990.00	
	1M4	1+	990.00	
	1M4	1-	990.00	
	1M4	2	1,240.00	
	1M4	2+	1,240.00	
	1M4	2-	1,240.00	
	1M4	3	1,980.00	
	1M4	3+	1,980.00	
	1M4	3-	1,980.00	
	1M4	4	2,470.00	
	1M4	4+	2,720.00	
	1M4	4-	2,470.00	
	1M4	5	2,470.00	
	1M4	5+	2,720.00	
	1M4	5-	2,470.00	
	1M4	6	2,720.00	

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
1M4	6+	2,720.00
1M4	6-	2,470.00
1M4	7	3,330.00
1M4	7+	3,330.00
1M4	7-	3,330.00
1M4	8	4,090.00
1M4	8+	4,090.00
1M4	8-	4,090.00
1P1	1	480.00
1P1	1+	480.00
1P1	1-	480.00
1P1	2	620.00
1P1	2+	620.00
1P1	2-	620.00
1P1	3	990.00
1P1	3+	990.00
1P1	3-	990.00
1P1	4	1,240.00
1P1	4+	1,360.00
1P1	4-	1,240.00
1P1	5	1,240.00
1P1	5+	1,360.00
1P1	5-	1,240.00
1P1	6	1,360.00
1P1	6+	1,360.00
1P1	6-	1,240.00
1P1	7	1,660.00
1P1	7+	1,660.00
1P1	7-	1,660.00
1P1	8	2,030.00
1P1	8+	2,030.00
1P1	8-	2,030.00
1P2	1	620.00
1P2	1+	620.00
1P2	1-	620.00
1P2	2	810.00
1P2	2+	810.00
1P2	2-	810.00
1P2	3	1,280.00
1P2	3+	1,280.00
1P2	3-	1,280.00
1P2	4	1,610.00
1P2	4+	1,770.00
1P2	4-	1,610.00
1P2	5	1,610.00
1P2	5+	1,770.00
1P2	5-	1,610.00
1P2	6	1,770.00
1P2	6+	1,770.00
1P2	6-	1,610.00
1P2	7	2,160.00
1P2	7+	2,160.00
1P2	7-	2,160.00
1P2	8	2,640.00
1P2	8+	2,640.00
1P2	8-	2,640.00
1P3	1	620.00
1P3	1+	620.00
1P3	1-	620.00
1P3	2	810.00
1P3	2+	810.00
1P3	2-	810.00
1P3	3	1,280.00
1P3	3+	1,280.00
1P3	3-	1,280.00
1P3	4	1,610.00
1P3	4+	1,770.00
1P3	4-	1,610.00
1P3	5	1,610.00
1P3	5+	1,770.00
1P3	5-	1,610.00
1P3	6	1,770.00
1P3	6+	1,770.00
1P3	6-	1,610.00
1P3	7	2,160.00
1P3	7+	2,160.00
1P3	7-	2,160.00
1P3	8	2,640.00
1P3	8+	2,640.00
1P3	8-	2,640.00
1P4	1	620.00
1P4	1+	620.00
1P4	1-	620.00
1P4	2	810.00
1P4	2+	810.00
1P4	2-	810.00
1P4	3	1,280.00
1P4	3+	1,280.00
1P4	3-	1,280.00
1P4	4	1,610.00

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
1P4	4+	1,770.00
1P4	4-	1,610.00
1P4	5	1,610.00
1P4	5+	1,770.00
1P4	5-	1,610.00
1P4	6	1,770.00
1P4	6+	1,770.00
1P4	6-	1,610.00
1P4	7	2,160.00
1P4	7+	2,160.00
1P4	7-	2,160.00
1P4	8	2,640.00
1P4	8+	2,640.00
1P4	8-	2,640.00
2M1	1	1,520.00
2M1	1+	1,520.00
2M1	1-	1,520.00
2M1	2	1,900.00
2M1	2+	1,900.00
2M1	2-	1,900.00
2M1	3	3,040.00
2M1	3+	3,040.00
2M1	3-	3,040.00
2M1	4	3,800.00
2M1	4+	4,180.00
2M1	4-	3,800.00
2M1	5	3,800.00
2M1	5+	4,180.00
2M1	5-	3,800.00
2M1	6	4,180.00
2M1	6+	4,180.00
2M1	6-	3,800.00
2M1	7	5,140.00
2M1	7+	5,140.00
2M1	7-	5,140.00
2M1	8	6,280.00
2M1	8+	6,280.00
2M1	8-	6,280.00
2M2	1	1,980.00
2M2	1+	1,980.00
2M2	1-	1,980.00
2M2	2	2,480.00
2M2	2+	2,480.00
2M2	2-	2,480.00
2M2	3	3,960.00
2M2	3+	3,960.00
2M2	3-	3,960.00
2M2	4	4,940.00
2M2	4+	5,440.00
2M2	4-	4,940.00
2M2	5	4,940.00
2M2	5+	5,440.00
2M2	5-	4,940.00
2M2	6	5,440.00
2M2	6+	5,440.00
2M2	6-	4,940.00
2M2	7	6,660.00
2M2	7+	6,660.00
2M2	7-	6,660.00
2M2	8	8,180.00
2M2	8+	8,180.00
2M2	8-	8,180.00
2M3	1	1,980.00
2M3	1+	1,980.00
2M3	1-	1,980.00
2M3	2	2,480.00
2M3	2+	2,480.00
2M3	2-	2,480.00
2M3	3	3,960.00
2M3	3+	3,960.00
2M3	3-	3,960.00
2M3	4	4,940.00
2M3	4+	5,440.00
2M3	4-	4,940.00
2M3	5	4,940.00
2M3	5+	5,440.00
2M3	5-	4,940.00
2M3	6	5,440.00
2M3	6+	5,440.00
2M3	6-	4,940.00
2M3	7	6,660.00
2M3	7+	6,660.00
2M3	7-	6,660.00
2M3	8	8,180.00
2M3	8+	8,180.00
2M3	8-	8,180.00
2P1	1	960.00
2P1	1+	960.00
2P1	1-	960.00
2P1	2	1,240.00

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
2P1	2+	1,240.00
2P1	2-	1,240.00
2P1	3	1,980.00
2P1	3+	1,980.00
2P1	3-	1,980.00
2P1	4	2,480.00
2P1	4+	2,720.00
2P1	4-	2,480.00
2P1	5	2,480.00
2P1	5+	2,720.00
2P1	5-	2,480.00
2P1	6	2,720.00
2P1	6+	2,720.00
2P1	6-	2,480.00
2P1	7	3,320.00
2P1	7+	3,320.00
2P1	7-	3,320.00
2P1	8	4,060.00
2P1	8+	4,060.00
2P1	8-	4,060.00
2P2	1	1,240.00
2P2	1+	1,240.00
2P2	1-	1,240.00
2P2	2	1,620.00
2P2	2+	1,620.00
2P2	2-	1,620.00
2P2	3	2,560.00
2P2	3+	2,560.00
2P2	3-	2,560.00
2P2	4	3,220.00
2P2	4+	3,540.00
2P2	4-	3,220.00
2P2	5	3,220.00
2P2	5+	3,540.00
2P2	5-	3,220.00
2P2	6	3,540.00
2P2	6+	3,540.00
2P2	6-	3,220.00
2P2	7	4,320.00
2P2	7+	4,320.00
2P2	7-	4,320.00
2P2	8	5,280.00
2P2	8+	5,280.00
2P2	8-	5,280.00
2P3	1	1,240.00
2P3	1+	1,240.00
2P3	1-	1,240.00
2P3	2	1,620.00
2P3	2+	1,620.00
2P3	2-	1,620.00
2P3	3	2,560.00
2P3	3+	2,560.00
2P3	3-	2,560.00
2P3	4	3,220.00
2P3	4+	3,540.00
2P3	4-	3,220.00
2P3	5	3,220.00
2P3	5+	3,540.00
2P3	5-	3,220.00
2P3	6	3,540.00
2P3	6+	3,540.00
2P3	6-	3,220.00
2P3	7	4,320.00
2P3	7+	4,320.00
2P3	7-	4,320.00
2P3	8	5,280.00
2P3	8+	5,280.00
2P3	8-	5,280.00
3M1	1	2,280.00
3M1	1+	2,280.00
3M1	1-	2,280.00
3M1	2	2,850.00
3M1	2+	2,850.00
3M1	2-	2,850.00
3M1	3	4,560.00
3M1	3+	4,560.00
3M1	3-	4,560.00
3M1	4	5,700.00
3M1	4+	6,270.00
3M1	4-	5,700.00
3M1	5	5,700.00
3M1	5+	6,270.00
3M1	5-	5,700.00
3M1	6	6,270.00
3M1	6+	6,270.00
3M1	6-	5,700.00
3M1	7	7,710.00
3M1	7+	7,710.00
3M1	7-	7,710.00
3M1	8	9,420.00

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
3M1	8+	9,420.00
3M1	8-	9,420.00
3M2	1	2,970.00
3M2	1+	2,970.00
3M2	1-	2,970.00
3M2	2	3,720.00
3M2	2+	3,720.00
3M2	2-	3,720.00
3M2	3	5,940.00
3M2	3+	5,940.00
3M2	3-	5,940.00
3M2	4	7,410.00
3M2	4+	8,160.00
3M2	4-	7,410.00
3M2	5	7,410.00
3M2	5+	8,160.00
3M2	5-	7,410.00
3M2	6	8,160.00
3M2	6+	8,160.00
3M2	6-	7,410.00
3M2	7	9,990.00
3M2	7+	9,990.00
3M2	7-	9,990.00
3M2	8	12,270.00
3M2	8+	12,270.00
3M2	8-	12,270.00
3M3	1	2,970.00
3M3	1+	2,970.00
3M3	1-	2,970.00
3M3	2	3,720.00
3M3	2+	3,720.00
3M3	2-	3,720.00
3M3	3	5,940.00
3M3	3+	5,940.00
3M3	3-	5,940.00
3M3	4	7,410.00
3M3	4+	8,160.00
3M3	4-	7,410.00
3M3	5	7,410.00
3M3	5+	8,160.00
3M3	5-	7,410.00
3M3	6	8,160.00
3M3	6+	8,160.00
3M3	6-	7,410.00
3M3	7	999.00
3M3	7+	999.00
3M3	7-	999.00
3M3	8	12,270.00
3M3	8+	12,270.00
3M3	8-	12,270.00
3P1	1	1,440.00
3P1	1+	1,440.00
3P1	1-	1,440.00
3P1	2	1,860.00
3P1	2+	1,860.00
3P1	2-	1,860.00
3P1	3	2,970.00
3P1	3+	2,970.00
3P1	3-	2,970.00
3P1	4	3,720.00
3P1	4+	4,080.00
3P1	4-	3,720.00
3P1	5	3,720.00
3P1	5+	4,080.00
3P1	5-	3,720.00
3P1	6	4,080.00
3P1	6+	4,080.00
3P1	6-	3,720.00
3P1	7	4,980.00
3P1	7+	4,980.00
3P1	7-	4,980.00
3P1	8	6,090.00
3P1	8+	6,090.00
3P1	8-	6,090.00
3P2	1	1,860.00
3P2	1+	1,860.00
3P2	1-	1,860.00
3P2	2	2,430.00
3P2	2+	2,430.00
3P2	2-	2,430.00
3P2	3	3,840.00
3P2	3+	3,840.00
3P2	3-	3,840.00
3P2	4	4,830.00
3P2	4+	5,310.00
3P2	4-	4,830.00
3P2	5	4,830.00
3P2	5+	5,310.00
3P2	5-	4,830.00
3P2	6	5,310.00

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
3P2	6+	5,310.00
3P2	6-	4,830.00
3P2	7	64,860.00
3P2	7+	64,860.00
3P2	7-	64,860.00
3P2	8	7,920.00
3P2	8+	7,920.00
3P2	8-	7,920.00
3P3	1	1,860.00
3P3	1+	1,860.00
3P3	1-	1,860.00
3P3	2	2,430.00
3P3	2+	2,430.00
3P3	2-	2,430.00
3P3	3	3,840.00
3P3	3+	3,840.00
3P3	3-	3,840.00
3P3	4	4,830.00
3P3	4+	5,310.00
3P3	4-	4,830.00
3P3	5	4,830.00
3P3	5+	5,310.00
3P3	5-	4,830.00
3P3	6	5,310.00
3P3	6+	5,310.00
3P3	6-	4,830.00
3P3	7	6,480.00
3P3	7+	6,480.00
3P3	7-	6,480.00
3P3	8	7,920.00
3P3	8+	7,920.00
3P3	8-	7,920.00
4M1	1	3,040.00
4M1	1+	3,040.00
4M1	1-	3,040.00
4M1	2	3,800.00
4M1	2+	3,800.00
4M1	2-	3,800.00
4M1	3	6,080.00
4M1	3+	6,080.00
4M1	3-	6,080.00
4M1	4	7,600.00
4M1	4+	8,360.00
4M1	4-	7,600.00
4M1	5	7,600.00
4M1	5+	8,360.00
4M1	5-	7,600.00
4M1	6	8,360.00
4M1	6+	8,360.00
4M1	6-	7,600.00
4M1	7	10,280.00
4M1	7+	10,280.00
4M1	7-	10,280.00
4M1	8	12,560.00
4M1	8+	12,560.00
4M1	8-	12,560.00
4M2	1	3,960.00
4M2	1+	3,960.00
4M2	1-	3,960.00
4M2	2	4,960.00
4M2	2+	4,960.00
4M2	2-	4,960.00
4M2	3	7,920.00
4M2	3+	7,920.00
4M2	3-	7,920.00
4M2	4	9,880.00
4M2	4+	10,880.00
4M2	4-	9,880.00
4M2	5	9,880.00
4M2	5+	10,880.00
4M2	5-	9,880.00
4M2	6	10,880.00
4M2	6+	10,880.00
4M2	6-	9,880.00
4M2	7	13,320.00
4M2	7+	13,320.00
4M2	7-	13,320.00
4M2	8	16,360.00
4M2	8+	16,360.00
4M2	8-	16,360.00
4M3	1	3,960.00
4M3	1+	3,960.00
4M3	1-	3,960.00
4M3	2	4,960.00
4M3	2+	4,960.00
4M3	2-	4,960.00
4M3	3	7,920.00
4M3	3+	7,920.00
4M3	3-	7,920.00
4M3	4	9,880.00

Sched:			
Matrix:	Fireplace	X Axis: FIREPLACE	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
4M3	4+	10,880.00
4M3	4-	9,880.00
4M3	5	9,880.00
4M3	5+	10,880.00
4M3	5-	9,880.00
4M3	6	10,880.00
4M3	6+	10,880.00
4M3	6-	9,880.00
4M3	7	13,320.00
4M3	7+	13,320.00
4M3	7-	13,320.00
4M3	8	16,360.00
4M3	8+	16,360.00
4M3	8-	16,360.00
4P1	1	1,920.00
4P1	1+	1,920.00
4P1	1-	1,920.00
4P1	2	2,480.00
4P1	2+	2,480.00
4P1	2-	2,480.00
4P1	3	3,960.00
4P1	3+	3,960.00
4P1	3-	3,960.00
4P1	4	4,960.00
4P1	4+	5,440.00
4P1	4-	4,960.00
4P1	5	4,960.00
4P1	5+	5,440.00
4P1	5-	4,960.00
4P1	6	5,440.00
4P1	6+	5,440.00
4P1	6-	4,960.00
4P1	7	6,640.00
4P1	7+	6,640.00
4P1	7-	6,640.00
4P1	8	8,120.00
4P1	8+	8,120.00
4P1	8-	8,120.00
4P2	1	2,480.00
4P2	1+	2,480.00
4P2	1-	2,480.00
4P2	2	3,240.00
4P2	2+	3,240.00
4P2	2-	3,240.00
4P2	3	5,120.00
4P2	3+	5,120.00
4P2	3-	5,120.00
4P2	4	6,440.00
4P2	4+	7,080.00
4P2	4-	6,440.00
4P2	5	6,440.00
4P2	5+	7,080.00
4P2	5-	6,440.00
4P2	6	7,080.00
4P2	6+	7,080.00
4P2	6-	6,440.00
4P2	7	8,640.00
4P2	7+	8,640.00
4P2	7-	8,640.00
4P2	8	10,560.00
4P2	8+	10,560.00
4P2	8-	10,560.00
4P3	1	2,480.00
4P3	1+	2,480.00
4P3	1-	2,480.00
4P3	2	3,240.00
4P3	2+	3,240.00
4P3	2-	3,240.00
4P3	3	5,120.00
4P3	3+	5,120.00
4P3	3-	5,120.00
4P3	4	6,440.00
4P3	4+	7,080.00
4P3	4-	6,440.00
4P3	5	6,440.00
4P3	5+	7,080.00
4P3	5-	6,440.00
4P3	6	7,080.00
4P3	6+	7,080.00
4P3	6-	6,440.00
4P3	7	8,640.00
4P3	7+	8,640.00
4P3	7-	8,640.00
4P3	8	10,560.00
4P3	8+	10,560.00
4P3	8-	10,560.00
5M1	1	3,040.00
5M1	1+	3,040.00
5M1	1-	3,040.00
5M1	2	3,800.00

Sched: Matrix: Fireplace X Axis: FIREPLACE Label: FEATURE_UC
 Adj Factor: N/A Y Axis: CLASS Operator: special

<u>FIREPLACE</u>	<u>CLASS</u>	<u>VALUE</u>
5M1	2+	3,800.00
5M1	2-	3,800.00
5M1	3	6,080.00
5M1	3+	6,080.00
5M1	3-	6,080.00
5M1	4	7,600.00
5M1	4+	8,360.00
5M1	4-	7,600.00
5M1	5	7,600.00
5M1	5+	8,360.00
5M1	5-	7,600.00
5M1	6	8,360.00
5M1	6+	8,360.00
5M1	6-	7,600.00
5M1	7	10,280.00
5M1	7+	10,280.00
5M1	7-	10,280.00
5M1	8	12,560.00
5M1	8+	12,560.00
5M1	8-	12,560.00
5P2	1	2,480.00
5P2	1+	2,480.00
5P2	1-	2,480.00
5P2	2	3,240.00
5P2	2+	3,240.00
5P2	2-	3,240.00
5P2	3	5,120.00
5P2	3+	5,120.00
5P2	3-	5,120.00
5P2	4	6,440.00
5P2	4+	7,080.00
5P2	4-	6,440.00
5P2	5	6,400.00
5P2	5+	7,080.00
5P2	5-	6,440.00
5P2	6	7,080.00
5P2	6+	7,080.00
5P2	6-	6,440.00
5P2	7	8,640.00
5P2	7+	8,640.00
5P2	7-	8,640.00
5P2	8	10,560.00
5P2	8+	10,560.00
5P2	8-	10,560.00

Matrix Schedule

Sched:				
Matrix:	Generator	X Axis:	GENERATOR	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis:	SINGLE AXIS	Operator: special
	<u>GENERATOR</u>		<u>SINGLE AXIS</u>	
	G1		*	
	G2		*	
			<u>VALUE</u>	
			3,000.00	
			5,000.00	

Matrix Schedule

Sched:

Matrix: Cooling

Adj Factor: N/A

X Axis: COOLING

Y Axis: CLASS

Label: MOD

Operator: addition

<u>COOLING</u>	<u>CLASS</u>	<u>VALUE</u>
RC0	1	0.00
RC0	1+	0.00
RC0	1-	0.00
RC0	2	0.00
RC0	2+	0.00
RC0	2-	0.00
RC0	3	-1.15
RC0	3+	-1.15
RC0	3-	-1.15
RC0	4	-1.40
RC0	4+	-1.68
RC0	4-	-1.40
RC0	5	-1.40
RC0	5+	-1.68
RC0	5-	-1.40
RC0	6	-1.68
RC0	6+	-1.68
RC0	6-	-1.40
RC0	7	-2.10
RC0	7+	-2.10
RC0	7-	-2.10
RC0	8	-2.50
RC0	8+	-2.50
RC0	8-	-2.50
RC1	1	0.94
RC1	1+	0.94
RC1	1-	0.94
RC1	2	1.19
RC1	2+	1.19
RC1	2-	1.19
RC1	3	0.00
RC1	3+	0.00
RC1	3-	0.00
RC1	4	0.00
RC1	4+	0.00
RC1	4-	0.00
RC1	5	0.00
RC1	5+	0.00
RC1	5-	0.00
RC1	6	0.00
RC1	6+	0.00
RC1	6-	0.00
RC1	7	0.00
RC1	7+	0.00
RC1	7-	0.00
RC1	8	0.00
RC1	8+	0.00
RC1	8-	0.00
RC2	1	0.94
RC2	1+	0.94
RC2	1-	0.94
RC2	2	1.19
RC2	2+	1.19
RC2	2-	1.19
RC2	3	0.00
RC2	3+	0.00
RC2	3-	0.00
RC2	4	0.00
RC2	4+	0.00
RC2	4-	0.00
RC2	5	0.00
RC2	5+	0.00
RC2	5-	0.00
RC2	6	0.00
RC2	6+	0.00
RC2	6-	0.00
RC2	7	0.00
RC2	7+	0.00
RC2	7-	0.00
RC2	8	0.00
RC2	8+	0.00
RC2	8-	0.00

Matrix Schedule

Sched:

Matrix: Heating

Adj Factor: N/A

X Axis: CLASS

Y Axis: Heating

Label: MOD

Operator: addition

<u>CLASS</u>	<u>Heating</u>	<u>VALUE</u>
1	RC0	0.00
1	RC1	0.94
1	RC2	0.94
1	RH0	0.00
1	RH1	1.30
1	RH2	1.30
1	RH3	0.00
1	RH4	0.00
1+	RC0	0.00
1+	RC1	0.94
1+	RC2	0.94
1+	RH0	0.00
1+	RH1	1.30
1+	RH2	1.30
1+	RH3	0.00
1+	RH4	0.00
1-	RC0	0.00
1-	RC1	0.94
1-	RC2	0.94
1-	RH0	0.00
1-	RH1	1.30
1-	RH2	1.30
1-	RH3	0.00
1-	RH4	0.00
2	RC0	0.00
2	RC1	1.19
2	RC2	1.19
2	RH0	0.00
2	RH1	1.23
2	RH2	1.23
2	RH3	0.00
2	RH4	0.00
2+	RC0	0.00
2+	RC1	1.19
2+	RC2	1.19
2+	RH0	0.00
2+	RH1	1.23
2+	RH2	1.23
2+	RH3	0.00
2+	RH4	0.00
2-	RC0	0.00
2-	RC1	1.19
2-	RC2	1.19
2-	RH0	0.00
2-	RH1	1.23
2-	RH2	1.23
2-	RH3	0.00
2-	RH4	0.00
3	RC0	-1.15
3	RC1	0.00
3	RC2	0.00
3	RH0	0.00
3	RH1	1.23
3	RH2	1.23
3	RH3	0.00
3	RH4	0.00
3+	RC0	-1.15
3+	RC1	0.00
3+	RC2	0.00
3+	RH0	0.00
3+	RH1	1.23
3+	RH2	1.23
3+	RH3	0.00
3+	RH4	0.00
3-	RC0	-1.15
3-	RC1	0.00
3-	RC2	0.00
3-	RH0	0.00
3-	RH1	1.23
3-	RH2	1.23
3-	RH3	0.00
3-	RH4	0.00
4	RC0	-1.40
4	RC1	0.00
4	RC2	0.00
4	RH0	-1.40
4	RH1	0.00
4	RH2	0.00
4	RH3	-1.40
4	RH4	-1.40
4+	RC0	-1.68
4+	RC1	0.00
4+	RC2	0.00
4+	RH0	-1.68
4+	RH1	0.00
4+	RH2	0.00
4+	RH3	-1.68

Sched:

Matrix: Heating

Adj Factor: N/A

X Axis: CLASS

Y Axis: Heating

Label: MOD

Operator: addition

<u>CLASS</u>	<u>Heating</u>	<u>VALUE</u>
4+	RH4	-1.68
4-	RC0	-1.40
4-	RC1	0.00
4-	RC2	0.00
4-	RH0	-1.40
4-	RH1	0.00
4-	RH2	0.00
4-	RH3	-1.40
4-	RH4	-1.40
5	RC0	-1.40
5	RC1	0.00
5	RC2	0.00
5	RH0	-1.40
5	RH1	0.00
5	RH2	0.00
5	RH3	-1.40
5	RH4	-1.40
5+	RC0	-1.68
5+	RC1	0.00
5+	RC2	0.00
5+	RH0	-1.68
5+	RH1	0.00
5+	RH2	0.00
5+	RH3	-1.68
5+	RH4	-1.68
5-	RC0	-1.40
5-	RC1	0.00
5-	RC2	0.00
5-	RH0	-1.40
5-	RH1	0.00
5-	RH2	0.00
5-	RH3	-1.40
5-	RH4	-1.40
6	RC0	-1.68
6	RC1	0.00
6	RC2	0.00
6	RH0	-1.68
6	RH1	0.00
6	RH2	0.00
6	RH3	-1.68
6	RH4	-1.68
6+	RC0	-1.68
6+	RC1	0.00
6+	RC2	0.00
6+	RH0	-1.68
6+	RH1	0.00
6+	RH2	0.00
6+	RH3	-1.68
6+	RH4	-1.68
6-	RC0	-1.40
6-	RC1	0.00
6-	RC2	0.00
6-	RH0	-1.40
6-	RH1	0.00
6-	RH2	0.00
6-	RH3	-1.40
6-	RH4	-1.40
7	RC0	-2.10
7	RC1	0.00
7	RC2	0.00
7	RH0	-2.10
7	RH1	0.00
7	RH2	0.00
7	RH3	-2.10
7	RH4	-2.10
7+	RC0	-2.10
7+	RC1	0.00
7+	RC2	0.00
7+	RH0	-2.10
7+	RH1	0.00
7+	RH2	0.00
7+	RH3	-2.10
7+	RH4	-2.10
7-	RC0	-2.10
7-	RC1	0.00
7-	RC2	0.00
7-	RH0	-2.10
7-	RH1	0.00
7-	RH2	0.00
7-	RH3	-2.10
7-	RH4	-2.10
8	RC0	-2.50
8	RC1	0.00
8	RC2	0.00
8	RH0	-2.50
8	RH1	0.00
8	RH2	0.00
8	RH3	-2.50
8	RH4	-2.50

Sched:
Matrix: Heating
Adj Factor: N/A

X Axis: CLASS
Y Axis: Heating

Label: MOD
Operator: addition

<u>CLASS</u>	<u>Heating</u>	<u>VALUE</u>
8+	RC0	-2.50
8+	RC1	0.00
8+	RC2	0.00
8+	RH0	-2.50
8+	RH1	0.00
8+	RH2	0.00
8+	RH3	-2.50
8+	RH4	-2.50
8-	RC0	-2.50
8-	RC1	0.00
8-	RC2	0.00
8-	RH0	-2.50
8-	RH1	0.00
8-	RH2	0.00
8-	RH3	-2.50
8-	RH4	-2.50

Matrix Schedule

Sched: Matrix: Plumbing X Axis: PLUMBING Label: FEATURE_UC
 Adj Factor: N/A Y Axis: CLASS Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
1	1	-855.00
1	1	-855.00
1	1+	-855.00
1	1-	-855.00
1	2	1,328.00
1	2+	1,328.00
1	2-	-1,328.00
1	3	-1,520.00
1	3+	-1,520.00
1	3-	-1,520.00
1	4	-2,562.00
1	4+	-3,990.00
1	4-	-2,562.00
1	2	1,328.00
1	5	-2,562.00
1	5+	-3,990.00
1	5-	-2,562.00
1	6	-3,990.00
1	6+	-3,990.00
1	6-	-2,562.00
1	7	-4,948.00
1	7+	-4,948.00
1	7-	-4,948.00
1	8	-8,550.00
1	8+	-8,550.00
1	3	-1,520.00
1	8-	-8,550.00
1	4	-2,562.00
1	5	-2,562.00
1	6	-3,990.00
1	7	-4,948.00
1	8	-8,550.00
10	1	1,710.00
10	1	1,710.00
10	1+	1,710.00
10	1-	1,710.00
10	2	1,660.00
10	2+	1,660.00
10	2-	1,660.00
10	3	1,140.00
10	3+	1,140.00
10	3-	1,140.00
10	4	854.00
10	4+	0.00
10	4-	854.00
10	2	1,660.00
10	5	854.00
10	5+	0.00
10	5-	854.00
10	6	0.00
10	6+	0.00
10	6-	854.00
10	7	0.00
10	7+	0.00
10	7-	0.00
10	8	-855.00
10	8+	-855.00
10	3	1,140.00
10	8-	-855.00
10	4	854.00
10	5	854.00
10	6	0.00
10	7	0.00
10	8	-855.00
11	1	1,995.00
11	1	1,995.00
11	1+	1,995.00
11	1-	1,995.00
11	2	1,992.00
11	2+	1,992.00
11	2-	1,992.00
11	3	1,520.00
11	3+	1,520.00
11	3-	1,520.00
11	4	1,281.00
11	4+	570.00
11	4-	1,281.00
11	2	1,992.00
11	5	1,281.00
11	5+	570.00
11	5-	1,281.00
11	6	570.00
11	6+	570.00
11	6-	1,281.00
11	7	0.00
11	7+	0.00
11	7-	0.00
11	8	0.00
11	8+	0.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
11	3	1,520.00
11	8-	0.00
11	4	1,281.00
11	5	1,281.00
11	6	570.00
11	7	0.00
11	8	0.00
12	1	2,280.00
12	1	2,280.00
12	1+	2,280.00
12	1-	2,280.00
12	2	2,324.00
12	2+	2,324.00
12	2-	2,324.00
12	3	1,900.00
12	3+	1,900.00
12	3-	1,900.00
12	4	1,708.00
12	4+	1,140.00
12	4-	1,708.00
12	2	2,324.00
12	5	1,708.00
12	5+	1,140.00
12	5-	1,708.00
12	6	1,140.00
12	6+	1,140.00
12	6-	1,708.00
12	7	712.00
12	7+	712.00
12	7-	712.00
12	8	0.00
12	8+	0.00
12	3	1,900.00
12	8-	0.00
12	4	1,708.00
12	5	1,708.00
12	6	1,140.00
12	7	712.00
12	8	0.00
13	1	2,565.00
13	1	2,565.00
13	1+	2,565.00
13	1-	2,565.00
13	2	2,656.00
13	2+	2,656.00
13	2-	2,656.00
13	3	2,280.00
13	3+	2,280.00
13	3-	2,280.00
13	4	2,135.00
13	4+	1,710.00
13	4-	2,135.00
13	2	2,656.00
13	5	2,135.00
13	5+	1,710.00
13	5-	2,135.00
13	6	1,710.00
13	6+	1,710.00
13	6-	2,135.00
13	7	1,424.00
13	7+	1,424.00
13	7-	1,424.00
13	8	0.00
13	8+	0.00
13	3	2,280.00
13	8-	0.00
13	4	2,135.00
13	5	2,135.00
13	6	1,710.00
13	7	1,424.00
13	8	0.00
14	1	2,850.00
14	1	2,850.00
14	1+	2,850.00
14	1-	2,850.00
14	2	2,988.00
14	2+	2,988.00
14	2-	2,988.00
14	3	2,660.00
14	3+	2,660.00
14	3-	2,660.00
14	4	2,562.00
14	4+	2,280.00
14	4-	2,562.00
14	2	2,988.00
14	5	2,562.00
14	5+	2,280.00
14	5-	2,562.00
14	6	2,280.00
14	6+	2,280.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
14	6-	2,562.00
14	7	2,136.00
14	7+	2,136.00
14	7-	2,136.00
14	8	0.00
14	8+	0.00
14	3	2,660.00
14	8-	0.00
14	4	2,562.00
14	5	2,562.00
14	6	2,280.00
14	7	2,136.00
14	8	0.00
15	1	3,135.00
15	1	3,135.00
15	1+	3,135.00
15	1-	3,135.00
15	2	3,320.00
15	2+	3,320.00
15	2-	3,320.00
15	3	3,040.00
15	3+	3,040.00
15	3-	3,040.00
15	4	2,989.00
15	4+	2,850.00
15	4-	2,989.00
15	2	3,320.00
15	5	2,989.00
15	5+	2,850.00
15	5-	2,989.00
15	6	2,850.00
15	6+	2,850.00
15	6-	2,989.00
15	7	2,880.00
15	7+	2,880.00
15	7-	2,880.00
15	8	855.00
15	8+	855.00
15	3	3,040.00
15	8-	855.00
15	4	2,989.00
15	5	2,989.00
15	6	2,850.00
15	7	2,880.00
15	8	855.00
16	1	3,420.00
16	1	3,420.00
16	1+	3,420.00
16	1-	3,420.00
16	2	3,652.00
16	2+	3,652.00
16	2-	3,652.00
16	3	3,420.00
16	3+	3,420.00
16	3-	3,420.00
16	4	3,416.00
16	4+	3,420.00
16	4-	3,416.00
16	2	3,652.00
16	5	3,416.00
16	5+	3,420.00
16	5-	3,416.00
16	6	3,420.00
16	6+	3,420.00
16	6-	3,416.00
16	7	3,560.00
16	7+	3,560.00
16	7-	3,560.00
16	8	1,710.00
16	8+	1,710.00
16	3	3,420.00
16	8-	1,710.00
16	4	3,416.00
16	5	3,416.00
16	6	3,420.00
16	7	3,560.00
16	8	1,710.00
17	1	3,705.00
17	1	3,705.00
17	1+	3,705.00
17	1-	3,705.00
17	2	3,984.00
17	2+	3,984.00
17	2-	3,984.00
17	3	3,800.00
17	3+	3,800.00
17	3-	3,800.00
17	4	3,843.00
17	4+	3,990.00
17	4-	3,843.00
17	2	3,984.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
17	5	3,843.00
17	5+	3,990.00
17	5-	3,843.00
17	6	3,990.00
17	6+	3,990.00
17	6-	3,843.00
17	7	4,272.00
17	7+	4,272.00
17	7-	4,272.00
17	8	2,565.00
17	8+	2,565.00
17	3	3,800.00
17	8-	2,565.00
17	4	3,843.00
17	5	3,843.00
17	6	3,990.00
17	7	4,272.00
17	8	2,565.00
18	1	3,990.00
18	1	3,990.00
18	1+	3,990.00
18	1-	3,990.00
18	2	4,316.00
18	2+	4,316.00
18	2-	4,316.00
18	3	4,180.00
18	3+	4,180.00
18	3-	4,180.00
18	4	4,270.00
18	4+	4,560.00
18	4-	4,270.00
18	2	4,316.00
18	5	4,270.00
18	5+	4,560.00
18	5-	4,270.00
18	6	4,560.00
18	6+	4,560.00
18	6-	4,270.00
18	7	4,984.00
18	7+	4,984.00
18	7-	4,984.00
18	8	3,420.00
18	8+	3,420.00
18	3	4,180.00
18	8-	3,420.00
18	4	4,270.00
18	5	4,270.00
18	6	4,560.00
18	7	4,984.00
18	8	3,420.00
19	1	4,275.00
19	1	4,275.00
19	1+	4,275.00
19	1-	4,275.00
19	2	4,648.00
19	2+	4,648.00
19	2-	4,648.00
19	3	4,560.00
19	3+	4,560.00
19	3-	4,560.00
19	4	4,697.00
19	4+	5,130.00
19	4-	4,697.00
19	2	4,648.00
19	5	4,697.00
19	5+	5,130.00
19	5-	4,697.00
19	6	5,130.00
19	6+	5,130.00
19	6-	4,697.00
19	7	5,696.00
19	7+	5,696.00
19	7-	5,696.00
19	8	4,275.00
19	8+	4,275.00
19	3	4,560.00
19	8-	4,275.00
19	4	4,697.00
19	5	4,697.00
19	6	5,130.00
19	7	5,696.00
19	8	4,275.00
2	1	-570.00
2	1	-570.00
2	1+	-570.00
2	1-	-570.00
2	2	-996.00
2	2+	-996.00
2	2-	-996.00
2	3	-1,140.00

Sched:		X Axis:	PLUMBING	Label:	FEATURE_UC
Matrix:	Plumbing	Y Axis:	CLASS	Operator:	special
Adj Factor:	N/A				

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
2	3+	-1,140.00
2	3-	-1,140.00
2	4	-2,135.00
2	4+	-3,420.00
2	4-	-2,135.00
2	2	-996.00
2	5	-2,135.00
2	5+	-3,420.00
2	5-	-2,135.00
2	6	-3,420.00
2	6+	-3,420.00
2	6-	-2,135.00
2	7	-4,272.00
2	7+	-4,272.00
2	7-	-4,272.00
2	8	-7,695.00
2	8+	-7,695.00
2	3	-1,140.00
2	8-	-7,695.00
2	4	-2,135.00
2	5	-2,135.00
2	6	-3,420.00
2	7	-4,272.00
2	8	-7,695.00
20	1	4,560.00
20	1	4,560.00
20	1+	4,560.00
20	1-	4,560.00
20	2	4,980.00
20	2+	4,980.00
20	2-	4,980.00
20	3	4,940.00
20	3+	4,940.00
20	3-	4,940.00
20	4	5,124.00
20	4+	5,700.00
20	4-	5,124.00
20	2	4,980.00
20	5	5,124.00
20	5+	5,700.00
20	5-	5,124.00
20	6	5,700.00
20	6+	5,700.00
20	6-	5,124.00
20	7	6,408.00
20	7+	6,408.00
20	7-	6,408.00
20	8	5,130.00
20	8+	5,130.00
20	3	4,940.00
20	8-	5,130.00
20	4	5,124.00
20	5	5,124.00
20	6	5,700.00
20	7	6,408.00
20	8	5,130.00
21	1	0.00
21	1	0.00
21	1+	0.00
21	1-	0.00
21	2	0.00
21	2+	0.00
21	2-	0.00
21	3	0.00
21	3+	0.00
21	3-	0.00
21	4	5,551.00
21	4+	6,270.00
21	4-	5,551.00
21	2	0.00
21	5	5,551.00
21	5+	6,270.00
21	5-	5,551.00
21	6	6,270.00
21	6+	6,270.00
21	6-	5,551.00
21	7	7,120.00
21	7+	7,120.00
21	7-	7,120.00
21	8	5,985.00
21	8+	5,985.00
21	3	0.00
21	8-	5,985.00
21	4	5,551.00
21	5	5,551.00
21	6	6,270.00
21	7	7,120.00
21	8	5,985.00
22	1	0.00
22	1	0.00
22	1+	0.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
22	1-	0.00
22	2	0.00
22	2+	0.00
22	2-	0.00
22	3	0.00
22	3+	0.00
22	3-	0.00
22	4	5,978.00
22	4+	6,840.00
22	4-	0.00
22	2	0.00
22	5	5,978.00
22	5+	6,840.00
22	5-	0.00
22	6	6,840.00
22	6+	6,840.00
22	6-	5,978.00
22	7	7,832.00
22	7+	7,832.00
22	7-	7,832.00
22	8	6,840.00
22	8+	6,840.00
22	3	0.00
22	8-	6,840.00
22	4	5,978.00
22	5	5,978.00
22	6	6,840.00
22	7	7,832.00
22	8	6,840.00
23	1	0.00
23	1	0.00
23	1+	0.00
23	1-	0.00
23	2	0.00
23	2+	0.00
23	2-	0.00
23	3	0.00
23	3+	0.00
23	3-	0.00
23	4	6,405.00
23	4+	7,410.00
23	4-	6,405.00
23	2	0.00
23	5	6,405.00
23	5+	7,410.00
23	5-	6,405.00
23	6	7,410.00
23	6+	7,410.00
23	6-	6,405.00
23	7	8,544.00
23	7+	8,544.00
23	7-	8,544.00
23	8	7,695.00
23	8+	7,695.00
23	3	0.00
23	8-	7,695.00
23	4	6,405.00
23	5	6,405.00
23	6	7,410.00
23	7	8,544.00
23	8	7,695.00
24	1	0.00
24	1	0.00
24	1+	0.00
24	1-	0.00
24	2	0.00
24	2+	0.00
24	2-	0.00
24	3	0.00
24	3+	0.00
24	3-	0.00
24	4	6,832.00
24	4+	7,980.00
24	4-	6,832.00
24	2	0.00
24	5	6,832.00
24	5+	7,980.00
24	5-	6,832.00
24	6	7,980.00
24	6+	7,980.00
24	6-	6,832.00
24	7	9,256.00
24	7+	9,256.00
24	7-	9,256.00
24	8	8,550.00
24	8+	8,550.00
24	3	0.00
24	8-	8,550.00
24	4	6,832.00
24	5	6,832.00
24	6	7,980.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
24	7	9,256.00
24	8	8,550.00
25	1	0.00
25	1	0.00
25	1+	0.00
25	1-	0.00
25	2	0.00
25	2+	0.00
25	2-	0.00
25	3	0.00
25	3+	0.00
25	3-	0.00
25	4	7,259.00
25	4+	8,550.00
25	4-	7,259.00
25	2	0.00
25	5	7,259.00
25	5+	8,550.00
25	5-	7,259.00
25	6	8,550.00
25	6+	8,550.00
25	6-	7,259.00
25	7	9,968.00
25	7+	9,968.00
25	7-	9,968.00
25	8	9,405.00
25	8+	9,405.00
25	3	0.00
25	8-	9,405.00
25	4	7,259.00
25	5	7,259.00
25	6	8,550.00
25	7	9,968.00
25	8	9,405.00
26	1	0.00
26	1	0.00
26	1+	0.00
26	1-	0.00
26	2	0.00
26	2+	0.00
26	2-	0.00
26	3	0.00
26	3+	0.00
26	3-	0.00
26	4	7,686.00
26	4+	9,120.00
26	4-	7,686.00
26	2	0.00
26	5	7,686.00
26	5+	9,120.00
26	5-	7,686.00
26	6	9,120.00
26	6+	9,120.00
26	6-	7,686.00
26	7	10,680.00
26	7+	10,680.00
26	7-	10,680.00
26	8	10,260.00
26	8+	10,260.00
26	3	0.00
26	8-	10,260.00
26	4	7,686.00
26	5	7,686.00
26	6	9,120.00
26	7	10,680.00
26	8	10,260.00
27	1	0.00
27	1	0.00
27	1+	0.00
27	1-	0.00
27	2	0.00
27	2+	0.00
27	2-	0.00
27	3	0.00
27	3+	0.00
27	3-	0.00
27	4	8,113.00
27	4+	9,690.00
27	4-	8,113.00
27	2	0.00
27	5	8,113.00
27	5+	9,690.00
27	5-	8,113.00
27	6	9,690.00
27	6+	9,690.00
27	6-	8,113.00
27	7	11,392.00
27	7+	11,392.00
27	7-	11,392.00
27	8	11,115.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
27	8+	11,115.00
27	3	0.00
27	8-	11,115.00
27	4	8,113.00
27	5	8,113.00
27	6	9,690.00
27	7	11,392.00
27	8	11,115.00
28	1	0.00
28	1	0.00
28	1+	0.00
28	1-	0.00
28	2	0.00
28	2+	0.00
28	2-	0.00
28	3	0.00
28	3+	0.00
28	3-	0.00
28	4	8,540.00
28	4+	10,260.00
28	4-	8,540.00
28	2	0.00
28	5	8,540.00
28	5+	10,260.00
28	5-	8,540.00
28	6	10,260.00
28	6+	10,260.00
28	6-	8,540.00
28	7	12,104.00
28	7+	12,104.00
28	7-	12,104.00
28	8	11,970.00
28	8+	11,970.00
28	3	0.00
28	8-	11,970.00
28	4	8,540.00
28	5	8,540.00
28	6	10,260.00
28	7	12,104.00
28	8	11,970.00
29	1	0.00
29	1	0.00
29	1+	0.00
29	1-	0.00
29	2	0.00
29	2+	0.00
29	2-	0.00
29	3	0.00
29	3+	0.00
29	3-	0.00
29	4	8,967.00
29	4+	10,830.00
29	4-	8,967.00
29	2	0.00
29	5	8,967.00
29	5+	10,830.00
29	5-	8,967.00
29	6	10,830.00
29	6+	10,830.00
29	6-	8,967.00
29	7	12,816.00
29	7+	12,816.00
29	7-	12,816.00
29	8	12,825.00
29	8+	12,825.00
29	3	0.00
29	8-	12,825.00
29	4	8,967.00
29	5	8,967.00
29	6	10,830.00
29	7	12,816.00
29	8	12,825.00
3	1	-284.00
3	1	-284.00
3	1+	-284.00
3	1-	-284.00
3	2	-664.00
3	2+	-664.00
3	2-	-664.00
3	3	-760.00
3	3+	-760.00
3	3-	-760.00
3	4	-1,708.00
3	4+	-2,850.00
3	4-	-1,708.00
3	2	-664.00
3	5	-1,708.00
3	5+	-2,850.00
3	5-	-1,708.00
3	6	-2,850.00
3	6+	-2,850.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
3	6-	-1,708.00
3	7	-3,560.00
3	7+	-3,560.00
3	7-	-3,560.00
3	8	-6,840.00
3	8+	-6,840.00
3	3	-760.00
3	8-	-6,840.00
3	4	-1,708.00
3	5	-1,708.00
3	6	-2,850.00
3	7	-3,560.00
3	8	-6,840.00
30	1	0.00
30	1	0.00
30	1+	0.00
30	1-	0.00
30	2	0.00
30	2+	0.00
30	2-	0.00
30	3	0.00
30	3+	0.00
30	3-	0.00
30	4	9,394.00
30	4+	11,400.00
30	4-	9,394.00
30	2	0.00
30	5	9,394.00
30	5+	11,400.00
30	5-	9,394.00
30	6	11,400.00
30	6+	11,400.00
30	6-	9,394.00
30	7	13,528.00
30	7+	13,528.00
30	7-	13,528.00
30	8	13,680.00
30	8+	13,680.00
30	3	0.00
30	8-	13,680.00
30	4	9,394.00
30	5	9,394.00
30	6	11,400.00
30	7	13,528.00
30	8	13,680.00
4	1	0.00
4	1	0.00
4	1+	0.00
4	1-	0.00
4	2	-332.00
4	2+	-332.00
4	2-	-332.00
4	3	-380.00
4	3+	-380.00
4	3-	-380.00
4	4	-1,281.00
4	4+	-2,280.00
4	4-	-1,281.00
4	2	-332.00
4	5	-1,281.00
4	5+	-2,280.00
4	5-	-1,281.00
4	6	-2,280.00
4	6+	-2,280.00
4	6-	-1,281.00
4	7	-2,848.00
4	7+	-2,848.00
4	7-	-2,848.00
4	8	-5,985.00
4	8+	-5,985.00
4	3	-380.00
4	8-	-5,985.00
4	4	-1,281.00
4	5	-1,281.00
4	6	-2,280.00
4	7	-2,848.00
4	8	-5,985.00
5	1	285.00
5	1	285.00
5	1+	285.00
5	1-	285.00
5	2	0.00
5	2+	0.00
5	2-	0.00
5	3	-190.00
5	3+	-190.00
5	3-	-190.00
5	4	-854.00
5	4+	-1,710.00
5	4-	-854.00

Sched:		X Axis:	PLUMBING	Label:	FEATURE_UC
Matrix:	Plumbing	Y Axis:	CLASS	Operator:	special
Adj Factor:	N/A				

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
5	2	0.00
5	5	-854.00
5	5+	-1,710.00
5	5-	-854.00
5	6	-1,710.00
5	6+	-1,710.00
5	6-	-854.00
5	7	-2,136.00
5	7+	-2,136.00
5	7-	-2,136.00
5	8	-5,130.00
5	8+	-5,130.00
5	3	-190.00
5	8-	-5,130.00
5	4	-854.00
5	5	-854.00
5	6	-1,710.00
5	7	-2,136.00
5	8	-5,130.00
6	1	570.00
6	1	570.00
6	1+	570.00
6	1-	570.00
6	2	332.00
6	2+	332.00
6	2-	332.00
6	3	0.00
6	3+	0.00
6	3-	0.00
6	4	-427.00
6	4+	-1,140.00
6	4-	-427.00
6	2	332.00
6	5	-427.00
6	5+	-1,140.00
6	5-	-427.00
6	6	-1,140.00
6	6+	-1,140.00
6	6-	-427.00
6	7	-1,424.00
6	7+	-1,424.00
6	7-	-1,424.00
6	8	-4,275.00
6	8+	-4,275.00
6	3	0.00
6	8-	-4,275.00
6	4	-427.00
6	5	-427.00
6	6	-1,140.00
6	7	-1,424.00
6	8	-4,275.00
7	1	855.00
7	1	855.00
7	1+	855.00
7	1-	855.00
7	2	664.00
7	2+	664.00
7	2-	664.00
7	3	190.00
7	3+	190.00
7	3-	190.00
7	4	-213.00
7	4+	-570.00
7	4-	-213.00
7	2	664.00
7	5	-213.00
7	5+	-570.00
7	5-	-213.00
7	6	-570.00
7	6+	-570.00
7	6-	-213.00
7	7	-712.00
7	7+	-712.00
7	7-	-712.00
7	8	-3,420.00
7	8+	-3,420.00
7	3	190.00
7	8-	-3,420.00
7	4	-213.00
7	5	-213.00
7	6	-570.00
7	7	-712.00
7	8	-3,420.00
8	1	1,140.00
8	1	1,140.00
8	1+	1,140.00
8	1-	1,140.00
8	2	996.00
8	2+	996.00
8	2-	996.00

Sched:			
Matrix:	Plumbing	X Axis: PLUMBING	Label: FEATURE_UC
Adj Factor:	N/A	Y Axis: CLASS	Operator: special

<u>PLUMBING</u>	<u>CLASS</u>	<u>VALUE</u>
8	3	380.00
8	3+	380.00
8	3-	380.00
8	4	0.00
8	4+	-380.00
8	4-	0.00
8	2	996.00
8	5	0.00
8	5+	-380.00
8	5-	0.00
8	6	-380.00
8	6+	-380.00
8	6-	0.00
8	7	0.00
8	7+	0.00
8	7-	0.00
8	8	-2,565.00
8	8+	-2,565.00
8	3	380.00
8	8-	-2,565.00
8	4	0.00
8	5	0.00
8	6	-380.00
8	7	0.00
8	8	-2,565.00
9	1	1,425.00
9	1	1,425.00
9	1+	1,425.00
9	1-	1,425.00
9	2	1,328.00
9	2+	1,328.00
9	2-	1,328.00
9	3	760.00
9	3+	760.00
9	3-	760.00
9	4	427.00
9	4+	-190.00
9	4-	427.00
9	2	1,328.00
9	5	427.00
9	5+	-190.00
9	5-	427.00
9	6	-190.00
9	6+	-190.00
9	6-	427.00
9	7	0.00
9	7+	0.00
9	7-	0.00
9	8	-1,710.00
9	8+	-1,710.00
9	3	760.00
9	8-	-1,710.00
9	4	427.00
9	5	427.00
9	6	-190.00
9	7	0.00
9	8	-1,710.00

Glossary

Absolute Value—the value of a number (or variable) regardless of its sign. For example, 3 and –3 both have the absolute value of 3. The mathematical symbol for absolute value is one vertical bar on each side of the number in question for example, $|3|$.

Abstract—(1) To reduce a legal description of a property to another form. (2) To identify a property from its legal description.

Abstraction Method—A method used to estimate the value of property from a knowledge of normal net income, discount rate, remaining economic life of the property, value of the building, income path attributable to the building, and income path attributable to the land. The method estimates total value by discounting the income stream attributable to the land and adding the result to an independent estimate of the value of the building. Also called land residual technique.

Accrued Depreciation—The amount of depreciation, from any and all sources, that affect the value of the property in question.

Accuracy—The closeness of a measurement, computation, or estimate to the true, exact, or accepted value. Accuracy also can be expressed as a range about the true value. See also **precision** and **statistical** accuracy.

Acquisition Value—An assessed value based on the cost of acquiring the property; increases in this value are usually limited until the next qualifying sale.

Adaptive Estimation Procedure—A computerized procedure using properties for which sale prices are known to produce a model that can be used to value properties for which sales prices are not known. Also called feedback.

Additive Model—A model in which the dependent variable is estimated by multiplying each independent variable by its coefficient and adding each product to a constant.

Address—(1) In a computer file, a specific juncture of circuits in computer machinery at which information is stored in the form of magnetic polarities. (2) Also, the name a programmer uses to refer to such a juncture. In a file of human-readable information, one must establish rules about whether and how to record various relevant addresses, including the situs address, owner's address, and mortgage's address.

Adjusted Sale Price—The sale price that results from adjustments made to the stated sale price to account for the effects of time, personal property, financing, or the like.

Adjustments—Modifications in the reported value of a variable, such as price or gross income, such that the adjustments can be used to estimate market value; in the sales comparison approach, for example, by adjustments for differences between comparables and subject properties.

Ad Valorem Tax—A tax levied in proportion to the value of the thing(s) being taxed. Exclusive of exemptions, use-value assessment laws, and the like, the property tax is an ad valorem tax.

Aerial Photograph—A photograph of a part of the earth's surface taken by an aircraft-supported camera.

After-Tax Cash Flow—See **cash flow**.

Age—See **chronological age**; **economic life**; **effective age**.

Age/Life Method—A method of estimating accrued depreciation founded on the premise that, in the aggregate, a neat mathematical function can be used to infer accrued depreciation from the age of a property and its economic life.

Agents of Production—See **factors of production**.

Aggregate Mean—See **weighted mean**.

Agricultural Property—Improved or unimproved land devoted to or available for the production of crops or other agricultural products, livestock, and agricultural support buildings.

Air Rights—The rights to use space above real estate.

Algorithm—A precisely defined set of steps that, if followed exactly, will produce a pre-specified result.

Allocation Method—A method used to value land, in the absence of vacant land sales, by using a typical ratio of land to improvement value. Also called land ratio method.

Amortize—(1) To consider, for accounting and management purposes, one unusually large investment at a single time as really being a series of smaller expenses over a period of time. (2) To repay a loan, for example, a mortgage by means of a series of small payments, usually a combination of principle repayment and interest charges, rather than one lump sum at the end of the term.

Annuity—A series of payments (often, but not necessarily, equal) receivable at regular intervals.

Anticipation—The principle that value depends on the expectation of benefits to be derived in the future.

Appeal—A process in which a property owner contests an assessment either informally or formally.

Appraisal—"The act or process of developing an opinion of value; an opinion of value" (USPAP 1999). The act of estimating the money value of property. The money value of property as estimated by an appraiser.

Appraisal Date—The date as of which a property's value is estimated. See also **assessment date**.

Appraisal Foundation, The—The organization authorized by the United State Congress as the source of appraisal standards and appraiser qualifications.

Appraisal Principles—The economic concepts underlying appraisal: supply, demand, change, balance, conformity, competition, contribution, anticipation, substitution, highest and best use, surplus productivity, and variable proportions.

Appraisal Ratio—(1) The ratio of the appraised value to an indicator of market value. (2) By extension, an

estimated fractional relationship between the appraisals and market values of a group of properties. See also **level of appraisal**.

Appraisal Ratio Study—A ratio study using independent expert appraisals as indicators of market value.

Appraisal-Sale Price Ratio—The ratio of the appraised value to the sale price (or adjusted sale price) of a property; a simple indication of appraisal accuracy.

Appraised Value—The estimate of the value of a property before application of any fractional assessment ratio, partial exemption, or other adjustments.

Appreciation—Increase in value of a property, in terms of money, from all causes. For example, a farm may appreciate if a shopping center is built nearby, and property of any sort may appreciate as a result of inflation.

Arithmetic Mean—A measure of central tendency. The result of adding all the values of a variable and dividing by the number of values. For example, the arithmetic mean of 3, 5, and 10 is 18 divided by 3 or 6. Also see mean.

Arm's Length Sale—A sale between two unrelated parties, both seeking to maximize their positions from the transaction.

Array—an ordered arrangement of data, such as a listing of sales ratios, or order of magnitude.

Assessed Value—(1) A value set on real estate and personal property by a government as a basis for levying taxes. (2) The momentary amount at which a property is put on the assessment roll for purposes of computing the tax levy. Assessed values differ from the assessor's estimate of actual (market) value for four major reasons: fractional assessment ratios, partial exemptions, preferential assessments, and decision by assessing officials to override market value.

Assessment—(1) In general, the official acts of determining the amount of tax base. (2) As applied to property taxes, the official act of discovering, listing, and appraising property, which performed by an assessor, a board of review, or a court. (3) The value placed on property in the course of such act.

Assessment-Appraisal Ratio—The ratio of the assessed value of a property to an independent appraisal.

Assessment Cycle—A legally sanctioned reappraisal period generally ranging from one to ten years.

Assessment Date—The status date for tax purposes. Appraised values reflect the status of the property and any partially completed construction as of this date.

Assessment Equity—The degree to which assessments bear a consistent relationship to market value.

Assessment Map—See cadastral map.

Assessment Progressivity (Regressivity)—An appraisal bias such that high-value properties are appraised higher (or lower) than low-value properties in relation to market values. See also **priced-related differential**.

Assessment Ratio—(1) The fractional relationship of an assessed value to the market value of the property in

question. (2) By extension, the fractional relationship of the total of the assessment roll to the total market value of all taxable property in a jurisdiction. See also **level of assessment**.

Assessment-Sale Price Ratio—The ratio of the assessed value to the sale price (or adjusted sale price) of a property.

Assessment Ratio Study—Ratio study, sales ratio study, and appraisal ratio study are preferred.

Assessment Review—The re-examination of assessments by a governmental agency that has the authority to alter individual assessments on its own motion. See also **appeal**.

Assessment Roll—The basis on which the property tax levy is allocated among the property owners in a jurisdiction with taxing powers. The assessment roll usually lists an identifier for each taxable parcel in the jurisdiction, the name of the owner of record, the address of the parcel or the owner, the assessed value of the land, the assessed value of the improvement(s), applicable exemption codes if any, and the total assessed value. Synonyms include cadastre, list, grand list, abstract of ratables, and rendition.

Assessment-Sale Price Ratio—The ratio of assessed value to sale price (or adjusted sale price) of a property.

Assessment Year—The 365 days beginning with the appraisal date.

Audit—A systematic investigation or appraisal of procedures or operations for the purpose of determining conformity with specifically prescribed criteria.

Audit, Performance—An analysis of an organization to determine whether or not the quantity and quality of work performed meets standards. Ratio Studies are an important part of performance audits of an assessing organization.

Audit, Procedural—An examination of an organization to determine whether established or recommended procedures are being followed.

Audit Program—The procedures undertaken or particular work done by an accountant in conducting an examination.

Audit Trail—A set of records of the changes made to another set of records.

Automated Valuation Model—A computer program for property valuation that analyzes data using an automated process. See also Computer-assisted Mass Appraisal.

Average—The arithmetic mean.

Average Absolute Deviation—See average deviation.

Average Deviation—The arithmetic mean of the absolute deviations of a set of numbers from a measure of central tendency such as the median. Taking absolute values is generally understood without being stated. The average deviation of the numbers 4, 6, and 10 about their median (6) is $(2+0+4)$ divided by $3 = 2$. The average deviation is used in computing the coefficient of dispersion (COD).

Balance—The principle that markets tend to move toward equilibrium after a change in one of the determinants of supply or demand.

Balloon Mortgage—A mortgage not fully amortized at maturity and requiring a lump sum or balloon payment.

Band-of-Investment Analysis—A perspective on (and a technique for estimating) the discount rate. The discount rate is viewed as being composed of two components, each weighted in proportion to typical financing terms for properties of the type in question. For example, if 75 percent loans are available at 9 percent interest and investors are known to seek a 14 percent return on equity, then the discount rate is 10.25 percent, that is, $(0.75 \times 0.09 = 0.0675) + (0.25 \times 14 = 0.0350) = 0.1025 = 10.25$ percent

Base-Lot Method—A method of appraising land parcels whereby each parcel to be appraised is compared with a parcel of known value, called the base lot, and differences between the two in terms of location, size, shape, topography, and the like are analyzed by the appraiser in estimating the value of the lot to be appraised.

Base Year Value—In a nonmarket-value assessment system, the assessed value established as of a specific year.

Before-Tax Cash Flow—See cash flow.

Benchmark—(1) a term used in land surveying to mean a known point of reference. (2) In property appraisal, a property of known value, and of known effective age and replacement cost. (3) By extension, a model property to be used in determining by comparison the grade or quality of class of other properties.

Bernard Rule—A method of appraising corner lots whereby each lot is assumed to be two identical lots (one facing each of the streets), which are appraised using the appropriate average-unit-value rates. The values are summed to get the total value of the lot.

Bias—A type of non-sampling error in which a calculated statistic differs systematically from the population parameter. A process is biased if it produces results that vary systematically with some factor that should be irrelevant. In assessment administration, assessment progressivity (regressivity) is one kind of possible bias.

Binary Variable—A variable for which only two values are possible, such as results from a yes-or-no question, for example, Does this building have any fireplaces? Used in models to separate the influence of categorical variables. Also called a dichotomous variable or a dummy variable. See also **discrete variable** and **continuous variable**.

Block Face—The long edges of two city blocks that adjoin a street for the length of one block.

Bootstrap—A computer-intensive method of statistical inference that is based on a repeated resampling of data to provide more information about the population characteristics. The bootstrap is a data driven procedure that is particularly useful for confidence interval approximation when no traditional formulas are available or the sample has been drawn from a population that does not conform to the normal distribution.

Breakdown Method—See **observed condition breakdown method**.

Building Residual Technique—A technique used to estimate the value of a property from a knowledge of its

net operating income, discount rate, remaining economic life, land value, the income path attributable to the building, and the income path attributable to the land. The technique estimates total value by discounting the income stream attributable to the building and adding the results to an independent estimate of the value of the land.

Bullet Loan—Gap financing offered when a construction loan has expired but permanent financing has not yet been found.

Cadastral Map—A scale map showing the dimensions of each parcel and related information such as parcel identifier, survey lines, and easements. Annotations on recent sales prices and land values are sometimes added.

Cadastre—An inventory of the land in an area by ownership, description, and value. See also **assessment roll**.

Calibration—The process of estimating the coefficients in a mass appraisal model.

CAMA—See **computer-assisted mass appraisal**

Capital Market—The interaction of buyers and sellers as they buy and sell long-term financial instruments, such as mortgages, bonds, and stocks.

Capitalization—The phenomenon whereby one or more events of economic consequence expected to happen in the future exert an economic effect on things in the present. Specifically, the conversion of expected income and rate of return into an estimated value in the income approach to value. Property taxes, anticipated changes, and land related government services may also be capitalized. See also **yield capitalization**.

Capitalization of Ground Rents—A method of estimating land value in the absence of comparable sales; applicable to farmland and commercial land leased on a net basis.

Capitalization Rate—Any rate used to convert an estimate of income to an estimate of market value; the ratio of net operating income to market value.

Cash-Equivalent Sale Price—An indicator of market value that is a refinement over the raw sale price, in that the effects of unusual financing arrangements and extraneous transfers of personal property have been removed. See also **adjusted sale price**.

Cash Flow—Amount of money left after subtracting operating expenses and debt service from rents collected. Before-tax cash flow (also called cash throw-off) signifies that income tax effect has not been considered; after-tax cash flow includes income tax saving generated by ownership.

Cash Throw-Off—See **cash flow**.

Central Tendency—(1) The tendency of most kinds of data to cluster around some typical or central value, such as the mean or median. (2) By extension, any or all such statistics. Some kinds of data, however, such as the weights of cars and trucks, may cluster about two or more values, and in such circumstances the meaning of central tendency becomes unclear. This may happen in ratio studies in which two or more classes of property are combined.

Central Tendency, Measure of—A single point in a range of observations, around which the observations tend to cluster. The three most commonly used measures of central tendency are the mean, median, and mode.

Change—The tendency of the social and economic forces affecting supply and demand to alter over time, thus influencing market value.

Chi-Square—A particular statistic, and a particular frequency distribution associated with it, of interest in inferential statistics.

Chronological Age—The number of years elapsed since an original structure was built. Synonyms are actual age and historical age. Contrast with effective age.

Class—A set of items defined by common characteristics. (1) In property taxation, property classes such as residential, agricultural, and industrial may be defined. (2) In assessment, building classification systems based on type of building design, quality of construction, or structural type are common. (3) In statistics, a predefined category into which data may be put for further analysis. For example, ratios may be grouped into the following classes: less than 0.500, 0.500 to 0.599, 0.600 to 0.699, and so forth.

Classified Property Tax System—(1) A system intended by law to tax various kinds of property at different effective tax rates. Thus two different kinds of property worth the same amount of money have different tax bills. Although this could be done by applying different tax rates to different kinds of property that share a common assessment ratio, the usual approach is to apply a uniform tax rate to all properties established by law what the assessment ratio should be for each class of property. (2) Loosely, by extension, a set of assessment practices that has this result contrary to laws requiring uniformity.

COD—See **coefficient of dispersion**.

Coding—The act of reducing a description of a unique object, such as a parcel of real estate, to a set of one or more measure or accounts of certain of its characteristics, such as square footage, number of bathrooms, and the like. Encoding, a related term, is used to refer to the act of translating coded descriptions useful to human beings into a form that can be processed by computers. Coding is sometimes also used to refer to the writing of instructions that direct the processing done by computers.

Coefficient—A number or quantity generally placed before and multiplying another quantity, a 5 in the expressing $5x$, or a dimensionless statistic, useful as a measure of change or relationship; for example, correlation coefficient.

Coefficient of Concentration—The percentage of observations falling within a specified percentage (say, 15 percent) of a measure of central tendency.

Coefficient of Correlation—See correlation coefficient.

Coefficient of Determination—A statistic that characterizes two or more sets of numbers. The coefficient of determination, when multiplied by 100, gives the percentage strength of the (linear) relationship between or among the sets of numbers. (See also correlation). For two variables, the coefficient of determination and the square of the correlation coefficient are identical; for three or more variables, the coefficient of determination measure the strength of the relationship between the dependent variable and all the independent variables.

combined.

Coefficient of Dispersion (COD)—The average deviation of a group of numbers from the median expressed as a percentage of the median. In ratio studies, the average percentage deviation from the median ratio.

Coefficient of Variation (COV)—A standard statistical measure of the relative dispersion of the sample data about the mean of the data; the standard deviation expressed as a percentage of the mean.

Commercial Paper—Short-term promise to pay issued by a corporation.

Commercial Property—Generally, any nonindustrial nonresidential realty of a commercial enterprise. Includes realty used as a retail or wholesale establishment, hotel or motel, service station, commercial garage, warehouse, theater, bank, nursing home, and the like.

Comparables; Comparable Sales—Recently sold properties that are similar in important respects to a property being appraised. The sale price and the physical, functional, and locational characteristics of each of the properties are compared to the property being appraised in order to arrive at an estimate of value. By extension, the term comparables is sometimes used to refer to properties with rent or income patterns comparable to the property being appraised.

Comparative Unit Method—(1) A method of appraising land parcels in which an average or typical value is estimated for each stratum of land. (2) A method of estimating replacement cost in which all the direct and indirect costs of a structure (except perhaps architect's fees) are aggregated and specified with reference to a unit of comparison such as ground area, floor area, or cubic content. Separate factors are commonly specified for different intervals of the unit of comparison and for different story heights, and separate schedules are commonly used for different building types and quality classes.

Competition—The attempt by two or more buyers or sellers to buy or sell similar commodities in the same market.

Complementary Commodities—Goods related in such a way that an increase in the consumption of one increases the consumption of the other.

Computer-Assisted Assessment System—A system for assessing real and personal property with the assistance of a computer. A computer may be used for example, in the appraisal process, in keeping track of ownership and exemption status, in printing the assessment roll, in coordinating the work load of real property appraisers and personal property appraisers with respect to the assessment of commercial and industrial properties, and in a number of other areas.

Computer-Assisted Mass Appraisal (CAMA)—A process that uses a system of integrated components and software tools necessary to support the appraisal of a universe of properties through the use of mathematical models that represent the relationship between property values and supply/demand factors.

Condition—a judgment of the depreciation of an improvement.

Confidence Interval—A range of values, calculated from the sample observations, that are believed, with a particular probability, to contain the true population parameter (mean, median, COD). The confidence interval is

not a measure of precision for the sample statistic or point estimate, but a measure of the precision of the sampling process (see **reliability**).

Confidence Level—The degree of probability associated with a statistical test or confidence interval, commonly 90, 95, or 99 percent. For example, a 95 percent confidence interval implies that were the estimation process repeated again and again, then 95 percent of the calculated intervals would be expected to contain the true population measure (such as the median, mean, or COD).

Conformity—The principle that the value of a property depends in part on its relationship to its surroundings.

Consideration—The amount of money and other valuable good or services upon which a buyer and a seller agree to consummate a sale.

Contingency Table—A table that shows how a dependent variable varies with respect to two independent variables.

Continuous Variable—A variable for which it is conceivable that, given any two observed values, a value lying between them may occur. For example, temperature and finished living area are continuous variables; quality class and number of fireplaces are not. See also **Binary variable** and **discrete variable**.

Contract Rent—The amount of rent per unit of time specified in a contract. For very old contracts, the contract rent may be substantially less than the rent the property would bring today.

Contribution—The principle that the value of a particular feature is measured by its contribution to the value of the whole property, rather than by its cost.

Contributory Value—The amount a component of a property contributes to the total market value. For improvements, contributory value must be distinguished from costs.

Coordinate System—(1) A system for locating any geographic point by determining its north-south and east-west distance from some known base point. (2) By extension, a system for identifying each assessable parcel of real estate by means of coordinates, usually by recording the coordinates of the center of each parcel.

Correlation—A statistical phenomenon (and a technique for estimating its strength) whereby knowledge of one fact about a thing implies some knowledge of a second fact about that thing. For example, since the volume of weight of water are correlated, knowing that a quantity of water is 1 gallon tells you that its weight is 8 1/3 pounds. Linear correlation, the kind most often encountered, means that an increase in one factor in some proportion (say, a doubling) changes the other in the same proportion. With curvilinear correlation, as between the radius and the area of a circle, this is not true, despite the fact that the correlation may be very strong in the sense that knowledge of one fact tells you precisely the other fact. These examples of variables perfectly correlated or nearly so; more often correlation is only partial—for example, the correlation between the age and height of a child. The correlation coefficient gives the strength of the linear relationship between the two variables.

Correlation Coefficient—A statistic that characterizes two or more sets of numbers and, when squared and multiplied by 100, gives the percentage strength of the (linear) relationship between the two sets of numbers. For example, if the coefficient of correlation between measure of the height and weight of a group of people were .09, then one would reduce that knowing the height of someone (loosely speaking) would explain (or

account for) 81 percent of the weight.

Cost—The money expended in obtaining an object or attaining an objective; generally used in appraisal to mean the expense, direct or indirect, of constructing an improvement.

Cost Approach—One of the three approaches to value, the cost approach is based on the principle of substitution—that a rational, informed purchaser would pay no more for a property than the cost of building an acceptable substitute with like utility. The cost approach seeks to determine the replacement cost of an improvement less depreciation plus land value.

Cost Index—An index showing the variations in construction costs over time; sometimes, by extension, a set of similar numbers showing the relative costs of construction in different geographic areas.

Cost Manual—A guide, containing pictures, specifications of structures, and cost schedules, used to help classify construction quality and estimate the cost of replacing a structure.

Cost-of-Development Method—A method of appraising undeveloped land, whereby an estimate is made of the probable proceeds to be obtained from selling the land as subdivided, developed parcels. The cost of developing the raw land is subtracted from the estimate to obtain an estimate of the value of raw land.

Cost Schedules—Charts, tables, factors, curves, equations, and the like intended to help estimate the cost of replacing a structure from a knowledge of some other factors, such as its quality class and number of square feet.

Cost Trend Factor—A factor derived from a cost index used to estimate the contemporary cost of something based on its historical cost.

COV—*See coefficient of variation.*

Critical Value—The value, found in a table, with which a computed statistic is compared to determine whether the null hypothesis is accepted or rejected at the specified confidence level.

Curable Depreciation—That part of depreciation that can be reversed by correcting deferred maintenance and remodeling the relieve functional obsolescence.

Current-Market-Value Appraisals—Appraisals that reflect contemporary market values rather than market values at some point in the past. Currency is commonly taken to be implicit in the term market value.

Data—Information expressed in any of a number of ways. Data is the general term for masses of numbers, codes, and symbols generally, and information is the term for meaningful data. Data is the plural of datum, one element of data.

Data Edit—The process of examining recorded data to ensure that each element of data is reasonable and is consistent with others recorded for the same object, such as a parcel of real estate. Data editing, which may be done by human beings or by computer, is essentially a mechanical process, distinct from verifying the correctness of the recorded information by calling or writing property owners.

Data Management—The procedures employed to ensure that no information is lost through negligent handling

of records from a file, that all information is properly supplemented and up to date, and that is easily accessible.

Date of Sale (date of transfer)—The date on which the sale was consummated. This is considered to be the date the deed, or other instrument of transfer, is signed. The date of recording can be used as a proxy if it is not unduly delayed as it would be in a land contract.

Debt Service—The total payments of principal and interest on a mortgage.

Deed of Trust—A document (or legal instrument) used to place the legal title to and control of a property in the hands of a trustee who is required under the conditions stated in the document to direct the use of the property for the benefit of some other person named in the document. A trust may be temporary, conditional, or permanent.

Deed Recordation—The process of registering a sale of real property with the appropriate public body, usually the county recorder's office.

Deferred Maintenance—Repairs and similar improvements that normally would have been made to a property but were not made to the property in question, thus increasing the amount of its depreciation.

Degrees of Freedom—The number of values, in a set of observations, that could be assigned arbitrarily within the specification of a system. For example, in stratifying a sample of n objects into k strata, there are $k-1$ degrees of freedom, because, if $k-1$ frequencies are specified, the other is determined by the total size n . The term is used in statistics in several slightly different senses but is important primarily only in connection with a certain aspect of inferential statistics, where it becomes a means of relating the value of a statistic calculated from a sample to a table of critical values for such statistics calculated for a wide range of potential sample sizes and amounts of information determined by the particular static of interest.

Demand—A schedule showing the amount of a good or productive service that would be purchased at various prices during a given period.

Denominator—In a fraction, the number by which another number (the numerator) is divided. For example, the denominator of $3/4$ is 4.

Dependent Variable—A variable, such as sale price, the value of which is predicted by the values of other variables, such as location and finished living area. Such a variable may be said to depend on the other (independent) variables.

Depletion—A decrease in land value due to the removal of trees, minerals, or other such resources.

Depreciation—Loss in value of an object, relative to its replacement cost, reproduction cost, or original cost, whatever the cause of the loss in value. Depreciation is sometimes subdivided into three types: physical deterioration (wear and tear), functional obsolescence (suboptimal design in light of current technologies or tastes), and economic obsolescence (poor location or radically diminished demand for the product).

Depreciation Schedules—Tables used in mass appraisal that show the typical loss in value at various ages or effective ages for different types of properties.

Depth Table; Depth Factor—A standard, mechanical technique for determining the value of a lot of urban land having a certain depth from the value of a base lot having different dimensions.

Descriptive Statistics—(1)The branch of the science of statistics that is concerned only with characterizing or describing a set of data (numbers). (2)By extension, the measures used to characterize a particular set of data. Contrast with inferential statistics.

Determinants of Supply and Demand—Factors that cause supply and demand to change.

Dichotomous Variable—See binary variable.

Differential Assessments—Assessments in a system of laws that require that different classes of property be assessed with different assessment ratios. The term differential assessments is usually reserved for systems where the classes are broad and easily visible, such as classified property tax systems and use-value farmland assessment systems, although much the same effect is achieved by partial homestead exemptions, temporary exemptions to encourage, rehabilitation or industrial location, and the like.

Direct Equalization—The process of converting ratio study results into adjustment factors (trends) and changing locally determined appraised or assessed values to more nearly reflect market value or the legally required level of assessment. *See also* **equalization** and **indirect equalization**.

Discount Rate—(1)The rate of return on investment; the rate an investor requires to discount future income to its present worth. It is made up of an interest rate and equity yield rate. Theoretical factors considered in setting a discount rate are the safe rate earned from a completely riskless investment (this rate may reflect anticipated loss of purchasing power due to inflation) and compensation for risk, lack of liquidity, and investment management expenses. The discount rate is most often estimated by band of investment analysis or a sales comparison analysis that estimates typical internal rates of return. (2) In monetary policy, the rate that the Federal Reserve Bank charges member banks to borrow.

Discovery—The process whereby the assessor identifies all taxable property in the jurisdiction and ensures that it is included on the assessment roll.

Discrete Variable—A variable for which it is not conceivable that, given any two observed values, a value lying between them may occur. For example, the number of rooms in a house is a discrete variable, but the living area of the house is not. *See also* binary variable and continuous variable.

Dispersion—The degree to which data are distributed either tightly or loosely around a measure of central tendency. Measures of dispersion include the range, average deviation, standard deviation, coefficient of dispersion, and coefficient of variation.

Dissimilarity Function—An algorithm used to assign an index of dissimilarity (or similarity) to properties as compared to a subject.

Distribution-Free Statistics—A set of robust nonparametric methods whose interpretation or reliability does not depend on stringent assumptions about the distribution of the underlying population from which the sample has been drawn. *See also* **parametric statistics**.

Dummy Variable—See binary variable.

Easement—A right held by one person to use the land of another for specific purpose, such as access to the property.

Economic Area—A geographic area, typically encompassing a group of neighbors, defined on the basis that the properties within its boundaries are more or less equally subject to a set of one or more economic forces that largely determine the value of the properties in question.

Economic Life—The period of time during which a given building or other improvement to property is expected to contribute (positively) to the value of the total property. This period is typically shorter than the period during which the improvement could be left on the property, that is, its physical life.

Economic Obsolescence—Loss in value of a property (relative to the cost of replacing it with a property of equal utility) that stems from factors external to the property. For example, buggy-whip factory, to the extent that it could not be used economically for anything else, suffered substantial economic obsolescence when automobiles replaced horse-drawn buggies.

Economic Rent—In economics, the payment received by an owner of something being bought or rented in excess of the minimum amount for which he would have sold or rented it.

Edit—See data edit; procedural edit.

Effective Age—The typical age of a structure equivalent to the one in question with respect to its utility and condition. Knowing the effective age of an old, rehabilitated structure or a building with substantial deferred maintenance is generally more informative than knowing its chronological age.

Effective Gross Income—Potential gross rent less vacancy and collection loss plus miscellaneous income.

Effective Tax Rate—The tax rate expressed as a percentage of market value. This will be different from the nominal tax rate when the assessment ratio is not equal to 1.

Emblements—Annual crops.

Equalization—The process by which an appropriate governmental body attempts to ensure that property under its jurisdiction is assessed at the same assessment ratio or at the ratio or ratios required by law. Equalization can be undertaken at many different levels. Equalization among use classes (such as agricultural and industrial property) can be undertaken at the local level, among properties in a school district and a transportation district; equalization among counties is usually undertaken by the state to ensure that its aid payments are distributed fairly. *See also* **direct equalization** and **indirect equalization**.

Equalized Values—Assessed values after they have all been multiplied by common factors during equalization.

Equilibrium—A state of rest achieved by a balance of the forces that impel change. A market is said to be in equilibrium when the factors of production are used in the production of an array of consumer good that maximize consumer welfare.

Equity—(1) The degree to which assessments bear a consistent relationship to market value. Measures include the coefficient of dispersion and coefficient of variation. (2) The net value of property after liens and other charges have been subtracted. *See also* horizontal inequity and vertical inequity.

Equity Dividend—A synonym for before tax cash flow.

Equity Yield Rate—See yield rate.

Error—The difference between the actual value of a variable and the expected value of the variable exclusive of sampling problems. Errors may be positive or negative, although in common speech taking the absolute value of the errors is sometimes implied. In multiple regression analysis, the term error is often used loosely to mean residual.

Escheat—The right to have property revert to the state for nonpayment of taxes or when there are no legal heirs of someone who dies without leaving a will.

Euclidean Distance Metric—A measure of distance based on the Pythagorean theorem; the distance between any two points as measured by the square of the length of the straight line connecting them.

Expense Ratio—The ratio of expenses to gross income. A “typical” expense ratio is the relationship of normal expenses to effective gross income.

Exploratory Data Analysis—That part of statistical practice concerned with reviewing the data set to isolate structures, uncover patterns, or reveal features that may improve the confirmatory analysis.

Exponent—A symbol usually written to the right and above an expression to indicate particular mathematical operations. For example, 6^2 means 6×6 , or six squared. Fractional exponents indicate inverse operations; for example, an exponent of $1/2$ signifies a square root. Exponents are also called powers. Valuation models make use of the following properties of exponents: A number raised to the exponent 0 is always 1.00; zero raised to any power is zero; any number raised to the power 1 is itself. Negative numbers can not have exponents less than 1.

External Diseconomies—Forces outside the activities of any single firm that cause resource prices to rise.

External Economies—Forces outside the activities of any single firm that cause resources prices to fall.

Factor—(1)An underlying characteristic of something (such as a house) that may contribute to the value of a variable (such as its sale price) but is observable only indirectly. For example, construction quality is a factor defined by workmanship, spacing of joists, an materials used. Factor definition and measurement may be done subjectively or by a computer assisted statistical algorithm known as factor analysis. (2) Loosely, any characteristic used in adjusting the sales prices of comparables. (3) The reciprocal of a rate. Assessment may be equalized by multiplying them by a factor equal to the reciprocal of the assessment ratio, and value can be estimated using the income approach by multiplying income by a factor equal to the reciprocal of the discount rate.

Factor of Production—The four ingredients available for the production of goods and services that satisfy human wants: land, labor, capital, and management. Also called agents of production.

Federal Rectangular Survey System—A rectangular grid system, the basic elements of which are townships approximately 6 miles on each side. Each township is divided into thirty-six sections, nominally 1 mile square

and containing 640 acres. Sections are further subdivided into quarter-sections, and so on.

Fee Appraisal—Appraisal of properties one at a time for a fee.

Feedback—See adaptive estimation procedure.

Fee Simple—In land ownership, complete interest in a property, subject only to governmental powers such as eminent domain. Also fee simple absolute.

Field Canvass—The practice of collecting the data needed in assessment operations by systematically going from property to property coding the specified information.

Field Review—The practice of reviewing the reasonableness of assessments by viewing the properties in question, sometimes by examining their interiors but more often by looking at their exteriors.

Fixed Costs—Cost of fixed resources used by a firm that do not vary with production levels and cannot be changed in the short run.

Fixture—An asset that has become part of real estate through attachment in such a manner that its removal would result in a loss in value to either the asset or the real estate to which the asset is affixed.

Flowchart—Any of a number of kinds of graphic descriptions of an algorithm, showing the operations, data flow, equipment, and so on.

Fractional Assessments—Assessments that by law or by practice have assessment ratios different from 1. Usually the assessment ratio is less than 1, and if assessment biases are present, different classes of property may have different fractional ratios.

Frequency Distribution—A table or chart showing the number or percentage of observations falling in the boundaries of a given set of classes. Used in ratio studies to summarize the distribution of the individual ratios. *See also class and histogram.*

Front Foot—The unit or standard of linear measure used in measuring frontage.

Full-Market-Value Assessment Standard—Assessments for which a law or other standard requires that the assessment ratio equal 1.

Functional Obsolescence—Loss in value of a property resulting from changes in tastes, preferences, technical innovations, or market standards.

Functional Organization—A method of organizing personnel and practices under which the primary division is what is done to achieve the goals of the organization (such as producing the assessment roll) rather than where the activities are done. The latter method is called geographical organization. Functional organization of assessment usually means that special divisions are responsible for appraising properties by type: personality, residential property, agricultural property, commercial property, industrial property, and vacant land. Improved land is generally the responsibility of the appraiser of the improvement.

Functional Specialization—In assessment, appraiser specialization by type of property being appraised;

sometimes also used to mean specialization by appraisal approach used, namely cost, income, or sales comparison. See also geographical specialization.

Future Worth of 1—(Also called the compound amount of 1 or the amount of 1 at compound interest). The amount to which one dollar will grow at compound interest over a specified number of years and at a specified interest rate.

Future Worth of 1 Per Period—(Also called compound amount or accumulation of 1 per period). The amount to which a series of equal periodic payments will accumulate at compound interest for a specified number of years and at a specified interest rate.

Gantt Chart—A form of bar chart used in project management. Each element (task) of a project is represented by a horizontal bar. The bars are placed on the chart according to a time scale. The left end of each bar indicates when the task is to begin. The length of each bar indicates the duration of the task. The right end of each bar indicates when the task is to be completed.

General Equilibrium—Simultaneous equilibrium of all individual economic units in the economy. Implies a condition in which consumers maximize their welfare given their income, producers maximize profits, and resources are used in their most productive use.

General Equilibrium Analysis—An economic analysis that attempts to understand how resources should be allocated to maximize a society's welfare.

Geocode—A code used to locate or identify a point, such as the center of a parcel of real estate, geographically. The code is composed of the east-west and north-south coordinates of the point relative to some standard point of reference.

Geodetic Control Network—A system of monuments that are used as reference points in calculating, through triangulation, the location of other points on surveys and maps.

Geographic Information System (GIS)—(1) A database management system used to store, retrieve, manipulate, analyze, and display spatial information. (2) One type of computerized mapping system capable of integrating spatial data (land information) and attribute data among different layers on a base map.

Geographical Specialization—Specialization of personnel, especially appraisers, by region rather than by type of property. Contrast Functional specialization.

Geometric Mean—A measure of central tendency computed by multiplying the values of all of the observations by one another and then taking the result to exponent equal to one divided by the number of observations. The geometric mean is particularly appropriate when a typical rate of change is being calculated, such as an inflation rate or a cost index.

GIM—Gross income multiplier.

Goodness-of-Fit Statistics—Statistics used in multiple regression analysis and other kinds of statistical modeling to express the amount, and hence the importance, of the errors or residuals for all the predicted and actual values of a variable.

Government Survey System—A general term referring to such surveys as the federal rectangular survey system in the United States.

Grade—See quality class.

GRM—Gross rent multiplier.

Gross Income—The payments to an owner that a property can generate before expenses are deducted.

Gross Income Multiplier—The factor by which gross income is multiplied in order to obtain an estimate of value.

Gross Leasable Area—All area within the outside walls, including lobbies, washrooms, janitor's closets, and so on, but excluding building stairs, fire towers, elevator shafts, flues, vents, stacks, pipe shafts, and vertical ducts if they serve more than one floor.

Gross National Product—The level of aggregated income of a country. The sum of consumer, investor, and government spending.

Gross Rent Multiplier—The factor by which gross rent is multiplied in order to obtain an estimate of value.

Heterogeneous—The opposite of homogeneous.

Heteroscedasticity—The opposite of homoscedasticity.

Highest and Best Use—A concept in appraisal and in assessment law requiring that each property be appraised as though it were being put to its most profitable use, given probable legal, physical, and financial constraints. The concept is most commonly discussed in connection with underutilized land.

Histogram—A bar chart or graph of a frequency distribution in which the frequencies of the various classes are indicated by horizontal or vertical bars whose lengths are proportional to the number or percentage of observations in each class.

Holding Period—The length of time an investor expects to own a given property before selling it to someone else.

Homogeneous—Possessing the quality of being alike in nature and therefore comparable with respect to the parts of elements; said of data if two or more sets of data seem to be drawn from the same population; also said of data if the data are of the same type (that is, if counts, ranks, and measure are not all mixed together).

Homoscedasticity—The quality of a dependent variable having constant variance for all values of independent variables. For example, if regression residuals were plotted against living area, a band of uniform width would indicate homoscedasticity; a trapezoid would indicate heteroscedasticity.

Horizontal Inequity—Differences based on criteria other than value range in the levels of assessment of groups of properties. For example, properties in one neighborhood may have a higher level of assessment than similar properties in another neighborhood. See vertical inequity.

Hotspot—A geographic area where sales activity is usually strong and, usually, market values are rising and assessment ratios are declining.

Hybrid Model—A model that incorporates both additive and multiplicative components. See also additive model and multiplicative model.

Hypothesis—A statement in inferential statistics, the truth of which the analyst is interested in determining.

Improper Expenses—Expenses incurred in the ownership of income-producing property that are not used to calculate value in the income approach.

Improvement—Anything done to raw land with the intention of increasing its value. Thus a structure erected on the property constitutes one very common type of improvement, although other actions, such as those taken to improve drainage, are also improvements. Although such cases are rarely intentional, “improvements” can conceivably diminish the value of the land; note, however, that easements restricting the use and value of land are not considered improvements.

Income—The payments to its owner that a property is able to produce in a given time span, usually a year, and usually net of certain expenses of the property.

Income Approach—One of the three approaches to value, the income approach uses capitalization to convert the anticipated benefits of the ownership of property into an estimate of present value.

Income Path—The series of payments from an investment expressed as a percentage of the first year’s payment; the plot or trajectory of the income stream.

Income Stream—The series of payments (usually net income payments) receivable from an investment over the life of the investment. The series, of course, may be of any conceivable nature, including a constant series of equal payments (level), a series of decreasing payments that decrease by equal amounts each period (arithmetically decreasing), a series of increasing payments that grow larger each period at a constant rate (geometrically increasing), and so on.

Independent appraisal. An estimate of value using a model different from that used for assessment purposes. Independent appraisals are used to supplement sales in sales ratio studies or in appraisal ratio studies.

Independent Variable—A variable whose values is not determined by other (dependent) variables.

Indirect Capitalization—See yield capitalization.

Indirect Equalization—The process of computing hypothetical values that represent the oversight agency’s best estimate of taxable value, given the legally required level of assessment or market value. Indirect equalization allows proper distribution of intergovernmental transfer payments between state or provincial and local governments despite different levels of appraisal between jurisdictions or property classes. *See also equalization and direct equalization.*

Industrial Property—Generally, any property used in a manufacturing activity, such as a factory, wholesale bakery, food processing plant, mill, mine, or quarry.

Inferential Statistics—The branch of statistical studies concerned with making predictions about the value of a large number of observations of a variable on the basis of a small number of observations of that variable and related facts. (2) By extension, the statistics calculated in such predictions.

Inferior Goods—Goods, the consumption of which decrease as consumer income increases.

Inputs—See factors of production

Instrument—A formal legal document such as a deed, contract, will, or lease.

Intangible Property—Evidence of ownership of value or the right to value, for example, notes, bonds, stocks, patents, mortgages, copyrights, insurance policies, and accounts receivable. A form of personal property that includes rights over tangible real and personal property, but not rights of use and possession.

Integrity—The quality of a data element or program being what it says it is; usually distinguished from validity, the quality of its being what it should be in terms of some ultimate purpose. After data are edited and encoded and programs are prepared, their integrity is ensured by safeguards that prevent accidental or unauthorized tampering with them.

Interactive—Possessing the quality of being able to get reactions to proposals or instructions one at a time rather than merely all at once at the end of a session; usually said of a kind of computer system.

Intercept—Graphically, the point at which a line, such as a regression line, intersects the axis on which the dependent variable is represented; the value of the predicted variable when the value of all other values in the model is zero.

Interest (Interest Rate)—The premium paid for the use of money; the equilibrium price in money markets. The interest rate usually incorporates a risk factor, an illiquidity factor, a time-preference factor, and inflation factor, and potentially others, too. See also discount rate.

Interest (Interest Transferred, Interest Acquired)—The ownership rights of a person in a property. Complete ownership is called fee simple interest. It is possible to sell (transfer) and to own separately the component interests, such as mineral rights and air rights, that make up the fee interest.

Internal Controls—The elements of a system for monitoring performance and ensuring integrity that are employed more routinely than procedural edits and are often performed automatically.

Internal Rate of Return—The rate that discounts all future cash flows to a present worth equal to the original investment. The internal rate of return is calculated, usually by trial and error, from a knowledge of the relevant cash flows.

Interquartile Range (IQR)—The result obtained by subtracting the first quartile from the third quartile. By definition 50 percent of the observations fall within the IQR.

Investment Value—The worth of an investment property to a particular investor.

Iteration—One repetition or repeated cycle in an iterative process; a process of estimating values as close as

possible to actual values by repeated approximations. The results of each approximation are used in the next one.

Kruskal-Wallis Test—A test in inferential statistics, valid for all types of numerical data, that seeks to determine whether the observations in a sample came from one population as opposed to three or more distinct, homogeneous subpopulations. It is used in assessment to analyze assessment ratios from three or more classes of property to determine whether significant assessment biases are present among the classes of property. When only two classes are being compared, the appropriate test is the Mann-Whitney test.

Land—(1) In economics, the surface of the earth and all the natural resources and natural productive powers over which possession of the earth's surface gives man control. (2) In law, a portion of the earth's surface, together with the earth below it, the space above it, and all things annexed thereto by nature or by man. See also Improvements.

Land Contract—An executor's contract for the purchase of real property under the terms of which legal title to the property is retained by the vendor until such time as all conditions stated in the contract have been fulfilled; commonly used for installment purchase of real property.

Land Ratio—The ratio of land area to building area. The land ratio can be an important factor in grouping properties for income approach appraisal by means of direct sales comparisons.

Land Ratio Method—See allocation method.

Land Residual Technique—See abstraction method.

Leasehold—The interests in a property that are associated with the lessee (the tenant) as opposed to the lessor (the property owner).

Least Cost Combination of Resources—A combination of resources at which the marginal physical product per dollar's worth of one resource is equal to the marginal physical product per dollar of every other resource.

Legal Description—A statement in words or codes indentifying land for all purposes of law.

Level of Appraisal—The common, or overall, ratio of appraised values to market values. Three concepts are usually of interest: the level required by law, the true or actual level, and the computed level based on a ratio study.

Level of Assessment—The common or overall ratio of assessed values to market values. See also level of appraisal. *Note:* The two terms are sometimes distinguished, but there is no convention determining their meanings when they are. Three concepts are commonly of interest: what the assessment ratio is legally required to be, what the assessment ratio for the population actually is, and what the assessment ratio for the population seems to be, on the basis of a sample and application of inferential statistics. When level of assessment is distinguished from assessment ratio, *level of assessment* usually means either the legal requirement or the true ratio, and *assessment ratio* usually means the true ratio or the sample statistic.

Levy—See property tax levy.

Lien Date—The date on which an obligation, such as a property tax bill (usually in an amount yet to be

determined), attaches to a property and the property thus becomes security against its payment. The term is usually synonymous with appraisal date but is not necessarily so.

Life Estate—An interest in property that lasts only for a specified person’s lifetime; thus the owner of a life estate is unable to leave the property to heirs.

Linear Regression—A kind of statistical analysis used to investigate whether a dependent variable and a set of one or more independent variables share a linear correlation and, if they do, to predict the value of the dependent variable on the basis of the values of the other variables. Regression analysis of one dependent variable and only one independent variable is called simple linear regression, but it is the word simple (not linear) that distinguishes it from multiple regression analysis with its multiple independent variables.

Listing—The process by which the assessor ensures that records for the taxable property identified during discovery are preserved with integrity, available for use in valuation activities, and ultimately reflected in the assessment roll.

Location—The numerical or other identification of a point (or object) sufficiently precise so the point can be situated. For example, the location of a point on a plane can be specified by a pair of numbers (plane coordinates) and the location of a point in space can be specified by a set of three numbers (space coordinates). However, location may also be specified in other terms than coordinates. A location may be specified as being at the intersection of two specific lines by identifying it with some prominent and known feature (for example, “on top of Pikes Peak” or “at the junction of the Potomac and Anacostia Rivers”).

Locational Obsolescence—A component of economic obsolescence; loss in value due to suboptimal siting of an improvement.

Location Variable—A variable, such as the distance to the nearest commercial district or the traffic count on an adjoining street, that seeks to measure the contribution of locational factors to the total property value.

Logarithm; Log—The number that, when used as an exponent for another number (called the base), results in a third number of some practical interest (called the antilogarithm). There are two bases that are used with any frequency; the base 10 produces what are called common logarithms, and the base 2.71828 (e) produces what are called natural logarithms. For example, $\log_{10}(100) = 2$; $10^2 = 100$. Logarithms were originally used to simplify complex calculations involving multiplications inasmuch as two numbers can be multiplied by adding their logarithms and taking the antilog of the result. Logarithms are also used as means of transforming variables in regression analysis.

Log-Linear Relationship—A correlation between two variables such that if the value of one variable changes by a certain percentage, the value of the other changes by a certain amount. (Recall that logarithms permit multiplication to be done by means of adding logs). For example, there is a log-linear relationship between x and y in the following sequence:

X	5	6	7	8
Y	20	30	45	67.5

Long Run—A planning period long enough for a firm to be able to vary quantities of all resources it uses.

Macroeconomics—The economics of the economy as a whole—the forces causing recession, depression, and inflation together with the forces resulting in economic growth.

Mann-Whitney Test—A test in inferential statistics, similar to the Kruskal-Wallis test, that seeks to determine whether the differences in values between two sets of observations from any population are statistically significant.

Map—A conventional representation, usually on a plane surface and at an established scale, of the physical features (natural, artificial, or both) of a part of the whole of the earth's surface. Features are identified by means of signs and symbols, and geographical orientation is indicated.

Map Book and Page System—A system for parcel identification in which a code (usually numeric) is used to identify each parcel, each code containing four elements: the volume or book of maps in which the parcel is to be found, the page on which it is to be found, the block, and the individual parcel on the block.

Map, Tax—A map drawn to scale and delineated for lot lines or property lines or both, with dimensions or areas and identifying numbers, letters, or names for all delineated lots or parcels.

Margin of Error—A measure of the uncertainty associated with statistical estimates of a parameter. It is typically linked to consumer surveys or political poll questions. A margin of error is a key component of a confidence interval. It reports a “plus or minus” percentage or proportion quantity in a confidence interval at a specified level of probability (typically 95 percent). *See also confidence interval.*

Marginal Cost—The change in a firm's total cost per unit change in its output level.

Marginal Physical Product—The change in total output of a firm resulting from a one-unit change in the employment of a resource, holding the quantities of other resources constant.

Marginal Revenue—The change in a firm's total revenue per unit change in its sales level. It is price in pure competition only.

Marginal Unit—The last unit added to any economic process.

Marginal Utility—The change in the total utility to a consumer that results from a one-unit change in the consumption level of an item.

Marginal Utility Theory—A theory of consumer choice that says that consumers will maximize welfare by allocation of their budget such that the marginal utility per dollar is equalized across all purchased goods.

Market—The “place” in which buyers and sellers interact. The collective body of buyers and sellers for a particular product.

Market Adjustment Factors—Market adjustment factors, reflecting supply and demand preferences, are often required to adjust values obtained from the cost approach to the market. These adjustments should be applied by type of property and area and are based on sales ratio studies or other market analyses. Accurate cost schedules, condition ratings, and depreciation schedules will minimize the need for market adjustment factors.

Market Analysis—A study of real estate market conditions for a specific type of property.

Market Area—See Economic Area.

Market Price—The price a particular buyer and seller agree to in a particular transaction.

Market Rent—The rent currently prevailing in the market for properties comparable to the subject property. Market rent is capitalized into an estimate of value in the income approach.

Market System—A type of economic system in which the questions of what to produce, for whom, and how are decided by the workings of an open and competitive market.

Market Value—The major focus of most real property appraisal assignments. Both economic and legal definitions of market value have been developed and refined. A current economic definition agreed upon by agencies that regulate federal financial institutions in the United States is: The most probable price (in terms of money) which a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus. Implicit in this definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby: The buyer and seller are typically motivated; Both parties are well informed or well advised, and acting in what they consider their best interests; A reasonable time is allowed for exposure in the open market; Payment is made in terms of cash in United States dollars or in terms of financial arrangements comparable thereto; The price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale. (See USPAP for additional comments.)

Market-Value Standard—A requirement of law or practice that the assessment ratio of all properties be equal to 1. Two issues are implicit here: that fractional assessment levels be avoided and that all property be assessed on the basis of its market value and not on the basis of its value in some particular use—for example, agriculture—unless that use is the only use to which the property can legally be put (in which case its use value would be equal to its market value).

Mass Appraisal—The process of valuing a universe of properties as of a given date using standard methodology, employing common data, and allowing for statistical testing (see *USPAP*)

Mean. See **arithmetic mean**.

Mass Appraisal Model—A mathematical expression of how supply and demand factors interact in a market.

Mean—The result of adding all the values of a variable and dividing by the number of values. For example, the arithmetic mean of 3, 5, and 10 is 18 divided by 3, or 6. Also called arithmetic mean.

Median—A measure of central tendency. The value of the middle item in an uneven number of items arranged or arrayed according to size; the arithmetic average of the two central items in an even number of items similarly arranged.

Median Absolute Deviation—The median of the absolute deviations from the median. In a symmetrical distribution, the measure approximates one-half the IQR.

Median Percent Deviation—The median of the absolute percent deviations from the median; calculated by dividing the median absolute deviation by one-hundredth of the median.

Mercator Projection—Refers to one of several mathematical projections of the curved surface of the earth on an imaginary cylinder, which is then flattened. The original Mercator projection was on a cylinder the axis of which was in a north-south direction. Transverse Mercator projections are on imaginary cylinders with an east-west orientation. Transverse Mercator projections are more common than the original Mercator projection. In addition to the universal transverse Mercator (UTM) projection, there are the modified transverse Mercator system (MTMS), and the state transverse Mercator (STM) system.

Metes and Bounds—Measurement of angles and distances; a description of a parcel of land accomplished by beginning at a known reference point, proceeding to a point on the perimeter of the property being described, and then tracing the boundaries until one returns to the first point on the perimeter, usually a corner. The angles are described by reference to points of the compass, and the distances are described in feet or chains; curves are treated as arcs on a circle

Microeconomics—The economics of units, such as firms and neighborhoods, of an economic system (as opposed to macroeconomics, which studies the economy as a whole).

Mill, Millage—One mill is one-thousandth of one dollar or one-tenth of one cent. In many states, the tax rate is expressed as mills per dollar. For example, a 2 percent tax rate is \$2 per \$100, \$20 per \$1000, or 20 mills per dollar.

Mineral Rights—The right to extract ore, petroleum, or other minerals from a property.

Minkowski Metric—Any of a family of possible ways of measuring distance. Euclidean distance, a member of this family, uses the straight-line distances (as the crow flies) squared. In mass appraisal model building, Minkowski metric usually refers to the sum of absolute differences (not squared) in each dimension, and resembles a “taxicab” or city block pattern. Other alternatives are possible, including the distance as calculated only for the dimension of greatest difference, but the city block distance is most common.

Mode—The value most often assumed by a variable. By extension for grouped data, the class in which a plurality of the observations fall.

Model—A representation of how something works. For purposes of appraisal, a representation (in words or an equation) that explains the relationship between value or estimated sale price and variables representing supply and demand factors.

Model Calibration—The development of adjustments, or coefficients, based on market analysis, that identifies specific factors with an actual effect on market value.

Model Specification—The formal development of a model in a statement or equation, based on data analysis and appraisal theory.

Money Market—The interaction of buyers and sellers of short-term credit instruments.

Monument—A term used in land surveying and geodesy to mean a permanent object placed in the ground

marking a point, the location of which is known, on the surface of the earth. See also geodetic control network.

Mortgage Coefficient—A component of the basic rate in the Ellwood variant of mortgage-equity analysis.

Mortgage Constant—Annual debt service expressed as a percentage of the initial principal amount of the loan.

Mortgage-Equity Analysis—A technique used to estimate the value of a property from a knowledge of the equity yield rate, typical mortgage terms (including the interest rate, the loan-to-value ratio, the term of the loan, and the amortization provisions), the holding period, and the percentage by which the property will appreciate or depreciate over the holding period.

Moving Average—A statistic used to smooth the values of a variable when those values are erratic over distance or time, as in the case of land values and mortgage commitments. For example, a five-block simple moving average of land value along a major street would assign to block 16 the average of the values for block 14-18; it would assign to block 17 the average of the values for block 15-19, and so on.

Multicollinearity—The phenomenon of two or more variables being correlated. If the two correlated variables are both independent variables (not that if they are correlated they are not truly independent in the relationship sense) used to predict the value of some other, dependent variable, then modeling problems will arise. If the multicollinearity is perfect, the multiple regression algorithms simply will not work; if the multicollinearity is serious but imperfect, the coefficients generated by the algorithm will be individually meaningless (although the model as a whole may still be useful).

Multiple Regression, Multiple Regression Analysis (MRA)—A particular statistical technique, similar to correlation, used to analyze data in order to predict the value of one variable (the dependent variable), such as market value, from the known values of other variables (called independent variables), such as lot size, number of rooms, and so on. If only one independent variable is used, the procedure is called simple regression analysis and differs from correlation analysis only in that correlation measures the strength of relationship, whereas regression predicts the value of one variable from the value of the other. When two or more variables are used, the procedure is called multiple regression analysis. See linear regression.

Multiplicative Model—A model in which the coefficients of independent variables serve as powers (exponents) to which the independent variables are raised or in which independent variables themselves serve as exponents; the results are then multiplied to estimate the value of the dependent variable.

Multiplicative Transformation—A transformation of a set of variables accomplished by multiplying a variable by one or more other variables. For example, room area is a multiplicative transformation of length and width.

Multivariate Statistical Technique—Any of a number of statistical analyses in which data (such as the information on a single property record card) containing a number of variables (such as lot size, number of rooms, and construction type) are analyzed to predict the value of some other variable. See also multiple regression analysis.

Municipal Notes—Short-term promises to pay issued by local governments.

Natural Logarithm—See logarithm.

Neighborhood—The environment of a subject property that has a direct and immediate effect on value. A

geographic area (in which there are typically fewer than several thousand properties) defined for some useful purpose, such as to ensure for later multiple regression modeling that the properties are homogeneous and share important locational characteristics.

Neighborhood Binary Variable—A binary variable used in a valuation model to separate the effects on value of distinct neighborhoods.

Net Income Multiplier—A factor expressing the relationship between value and net operating income; the reciprocal of the overall rate.

Net Operating Income—Annual net income after operating expenses are subtracted from effective gross income. Does not include payments for interest or principal.

NOI—See net operating income.

Nominal—Pertaining to the named or stated value of something.

Nominal Tax Rate—The stated tax rate, which does not necessarily correspond to the effective tax rate.

Nonparametric Statistics—A statistic whose interpretation or reliability does not depend on the distribution of the underlying data. *See also* **distribution-free statistics**.

Nonsampling Error—The error reflected in ratio study statistics from all sources other than sampling error. While nonsampling error is unavoidable due to the inefficiencies inherent in real property markets, the imperfections of the appraisal process, and the imperfections of conducting ratio studies, all practicable steps must be taken to minimize nonsampling error in ratio studies.

Normal Distribution—A theoretical distribution often approximated in real world situations. It is symmetrical and bell-shaped; 68 percent of the observations occur within one standard deviation of the mean and 95 percent within two standard deviations of the mean.

Normal Goods—Goods, the consumption of which increases as consumers' income increases.

Null Hypothesis—An hypothesis that one chooses to accept in the absence of sufficient evidence to the contrary.

Numerator—In a fractional expression, the number that is divided by some other number. For example, 3 is the numerator of the fraction $\frac{3}{4}$.

Objective—The quality of being definable specific criteria without the need for judgement. Quantitative variables are objective.

Observation—One recording or occurrence of the value of a variable, for example, one sale ratio among a sample of sales ratios.

Observed Condition Breakdown Method—A method for estimating total depreciation by specifying the amount of each kind of depreciation, often for each major building component.

Observed Depreciation Method—A method for estimating total depreciation intuitively, in the aggregate by, for example, specifying percent good.

Obsolescence—A kind of depreciation. See also economic obsolescence and function obsolescence

Off-Line Equipment—Computing machinery not under the direct control of the computer's central processing unit.

On-Line—See interactive.

Open Market—A freely competitive market in which any buyer or seller may trade and in which prices are determined by competition.

Operating Expenses—Expense necessary to maintain the flow of income from a property. These are deducted from effective gross income to obtain net operating income, which is then capitalized in the income approach to obtain an indication of market value. Such expenses generally include the cost of property insurance; heat, water and other utilities; repairs and maintenance; reserves for the replacement of such items as heat and air conditioning systems, water heaters, built-in appliances, elevators, roofing, floor coverings, and other items whose economic life will expire before that of the structure itself; management; and other miscellaneous items necessary to operate and maintain the property. Not considered operating expenses are depreciation charges, debt service, income taxes, capital improvement, and personal or business expenses of the owner. In addition, for assessment purposes property taxes are usually treated as an adjustment to the capitalization rate rather than an expense item.

Opportunity Cost—The principle that the cost of a resource for one use is the value of the resource in its best alternative use.

Optical Character Recognition—The ability of some kinds of computing machinery to translate a written symbol, such as a handwritten number or a letter typed on one of a few standard typewriters, into electrical pulses processable by the rest of the machinery, thereby avoiding the necessity for key punching.

Outliers—Observations that have unusual values, that is, differ markedly from a measure of central tendency. Some outliers occur naturally; others are due to data errors.

Outputs—(1) Good produced by a firm. (2) The information returned by a computer to its user.

Overall Rate (OAR)—A capitalization rate that blends all requirements of discount, recapture, and effective tax rates for both land and improvements.

Parameter—Numerical descriptive measure of the population, for example, the arithmetic mean or standard deviation. Parameters are generally unknown and estimated from statistics calculated from a sample of the population.

Parametric Statistics—Statistics whose interpretation or reliability depends on the distribution of the underlying data. See also **distribution-free statistics**.

Parcel—A contiguous area of land described in a single description or as one of a number of lots on a plat; separately owned, either publicly or privately; and capable of being separately conveyed.

Parcel Identification System—The scheme by which parcel identifiers are generated. Parcel identifiers are constructed from elements referring to surveying systems, map projection systems, map-page numbers, and geographic areas.

Parcel Identifier—A code, usually numerical, representing a specific land parcel's legal description. The purpose of parcel identifiers is to reduce legal descriptions to a uniform and manageable size, thereby facilitating record-keeping and handling. Also called parcel identification number (PIN).

Partial Equilibrium—Equilibrium of individual economic units or subsections of the economy in light of constraints imposed from outside the unit.

Partial Equilibrium Analysis—An analysis of one unit of the economy in light of constraints imposed by economic forces outside the unit. An example would be a highest and best use analysis of vacant land where the land use is limited by zoning.

Partial Interest—An interest (in property) that is less complete than a fee simple interest.

Partial Payment Factor—(Also known as the amortization or periodic repayment factor). The equal periodic payment that has a present worth of \$1, for specified number of periods and at a specified discount rate.

Percentage Lease—A lease that provides for rent payments to be based on a percentage of income (gross or net), usually with a guaranteed minimum payment.

Percentage Good—An estimate of the value of a property expressed as a percentage of its replacement cost, after depreciation of all kinds has been deducted.

Percentile—The values that divide a set of data into specified percentages when the data are arrayed in ascending order. The tenth percentile includes the lowest 10 percent of the values, the twentieth percentile includes the lowest 20 percent of the values, and so forth.

Perfect Competition—The requirement of pure competition plus an additional condition of perfect knowledge on the part of buyers and sellers about all activity in the marketplace.

Performance Bond—Insurance issued by a third party to guarantee the satisfactory completion of a contract.

Perimeter Sketch—A graphic presentation of the boundaries of a property, either the land or the buildings on the land.

Personal Property—Consists of every type of property that is not real property. Personal property is movable without damage to itself or the real estate and is subdivided into tangible and intangible.

Photogrammetry—The making of maps based on aerial photographs taken under rigidly controlled conditions.

Physical Deterioration—Loss in value caused by wear and tear.

Pilot Testing—Attempting to determine the workability of a system by testing it under realistic operating conditions before abandoning the former system.

Planimetric Map—An accurate depiction on a flat surface of the size and shape of a parcel from a curved surface.

Plat—A map intended to show the division of land into lots or parcels. Upon recordation with the appropriate authorities, land included in the plat can thenceforth be legally described by reference to the plat, omitting a metes-and-bounds description.

Plottage Value—The excess of the value of a large parcel of land formed by assemblage over the sum of the values of the unassembled parcels.

Point Estimate—A single numerical value that can be used to estimate a population parameter. It is calculated on the basis of information collected from a sample. Point estimates are generally constructed to provide the best unbiased estimate of the population parameter consistent with the sample data. However, the point estimate is only an estimate, and is unlikely to have the same value as the population parameter. (See **Confidence interval** and **Reliability** for discussion of precision of the sampling process.)

Points—Prepaid interest on a loan; one point is equal to 1 percent of the amount of the loan. It is common to deduct points in advance of the loan, so that an individual pays interest on 100 percent of the loan but gets cash on, say, only 99 percent.

Polygon—a line chart.

Pooled Regression—Combining two or more strata to form one regression model.

Population—All the items of interest, for example, all the properties in a jurisdiction or neighborhood; all the observations in a data set from which a sample may be drawn.

Potential Gross Income—The sum of potential gross rent and miscellaneous income, that is, the income from rent and other sources that a property could generate with normal management, before allowing for vacancies, collection losses, and normal operating expenses.

Potential Gross Rent—The total rent a property would produce if 100 percent occupied at market rent.

Precision—The level of detail in which a quantity or value is expressed or represented. It can be characterized as the number of digits used to record a measurement. A high level of represented precision may be used to imply a greater level of accuracy; however, this relationship may not be true. Precision also relates to the quality of an operation or degree of refinement by which results are obtained. A method of measurement is considered precise if repeated measurements yield the same or nearly the same numeric value. *See also accuracy and statistical precision.*

PRD—*See price-related differential.*

Present Worth—The value of something after discounting future payments and receipts.

Present Worth of 1—(also called the reversion factor). The lump sum amount that would have to be set aside to accumulate with compound interest to \$1 at the end of a specified number of years and at a specified rate of interest. Alternatively, it can be viewed as the present value of \$1 receivable at the end of a specified number of years and discounted at a specified rate.

Present Worth of 1 Per Period—(Also called the annuity factor, or Inwood coefficient). The present worth of a series of payments of \$1, receivable at the end of year, for a specified number of years and at a specified interest rate.

Price—The amount asked, offered, or paid for a property. (See USPAP [2004] for additional comments.)

Price, Adjusted Sale—The sale price that results from adjustments made to the stated sale price to account for the effects of time, personal property, atypical financing, and the like.

Price Equilibrium—In a specific period, that price at which the quantity that buyers want is exactly equal to the quantity that sellers want to sell.

Price-Related Differential—The mean divided by the weighted mean. The statistic has a slight bias upward. Price-related differentials above 1.03 tend to indicate assessment regressivity; price-related differentials below 0.98 tend to indicate assessment progressivity.

Procedural Edit—An audit, or review of operations, intended to discover erroneous and inefficient practices.

Progressivity—See **assessment progressivity (regressivity)**.

Property—An aggregate of things or rights to things. These rights are protected by law. There are two basic types of property: real and personal. Real property consists of the interests, benefits, and rights inherent in the ownership of land plus anything permanently attached to the land or legally defined as immovable; the bundle of rights with which ownership of real estate is endowed. To the extent that “real estate” commonly includes land and any permanent improvements, the two terms can be understood to have the same meaning. Also called *realty*. Personal property is defined as those items that generally are movable or all items not specifically defined as real property. Many states include as personal property the costs associated with placing personal property in service, such as sales tax, freight, and installation. Installation items include, but are not limited to, wiring, foundations, hookups, and attachments. Two commonly used tests for distinguishing real and personal property are (1) the intent of the parties and (2) whether the item may be removed from the real estate without damage to either.

Property Record Card (PRC)—An assessment document with blanks for the insertion of data for property indemnification and description, for value estimation, and for property owner satisfaction. The basic objectives of property record forms are, first, to serve as a repository of most of the information deemed necessary for identifying and describing a property, valuing a property, and assuring property owners that the assessor is conversant with their properties, and second, to document property appraisals. Use of properly designed property record forms permits an organized and uniform approach to amassing a property inventory.

Property Residual Technique—a technique used to estimate the value of a property from a knowledge of its net operating income, discount rate, remaining economic life, the amount of the reversion, and the income path attributable to the property over the holding period (generally the remaining economic life of the property). The technique estimates total value by discounting anticipated income and adding the result to the present worth of

the reversion.

Property Split—A result of the sale of a piece of property held by a single owner such that different pieces of the property are owned by different owners. Splits may or may not occur along plat lines. Assessors need to monitor splits not only to ensure the correctness of the property listing but also to monitor the land and its adequacy as a lien against past and present tax liabilities.

Property Tax Levy—(1) The total amount of property tax that a local government needs to raise. (2) Loosely, by extension, the millage rate or the property tax bill sent to an individual property owner.

Pure Competition—A market situation in which (1) individual buyers or sellers of an item buy or sell an amount so small relative to the market to be able to influence the price of the good and (2) the units of the item are homogeneous.

Qualified Sale—A property transfer that satisfies the conditions of a valid sale and meets all other technical criteria for inclusion in a ratio study sample. If a property has undergone significant changes in physical characteristics, use, or condition in the period between the assessment date and sale date, it would not technically qualify for use in ratio study.

Qualitative—Pertaining to the subjective nature of some variable of interest, that is, something that can be rated but not objectively reduced to an unambiguous scale. For example, view is a qualitative factor.

Quality Class—A subjective classification of a structure by an appraiser; intended to describe materials used, workmanship, architectural attractiveness, functional design, and the like. Quality class, or its synonym grade, is the key variable in most cost schedules.

Quantitative—Pertaining to the objective nature of some variable of interest, that is, something that can be measured or counted with little ambiguity. For example, number of bathrooms is a quantitative variable.

Quantity Survey Method—A method of estimating reproduction cost in which a complete itemization is made of all labor and material costs by component and subcomponent and all indirect costs; these are added to obtain an estimate of the cost of a structure or a reasonable bid for a contractor to submit on a proposed project.

Quartiles—The values that divide a set of data into four equal parts when the data are arrayed in ascending order. The first quartile includes the lowest quarter of the data, the second quartile, the second lowest quarter, and so forth.

Quasi Rent—See economic rent.

Quotient Transformation—A transformation of two or more variables accomplished by dividing one by the other. For example, the length of a room is a quotient transformation of its area and its width. Like the multiplicative transformation, many useful quotient transformations are less intuitively obvious than the one in the example given.

Random Sample—A sample of n items selected from a population in such a way that each sample of the same size is equally likely. This also includes the case in which each element in the sample has an equal chance of being selected.

Range—(1) The maximum value of a sample minus the minimum value. (2) The difference between the maximum and minimum values that a variable may assume.

Rank—The order of a set of values according to the value of each in relation to the other. For example, the numbers 0.95, 0.87, 1.09, and 0.83 have ranks of 3, 2, 4, 1.

Rate of Return—See discount rate.

Ratio Study—A study of the relationship between appraised or assessed values and market values. Indicators of market values may be either sales (sales ratio study) or independent “expert” appraisals (appraisal ratio study). Of common interest in ratio studies are the level and uniformity of the appraisals or assessments. *See also level of appraisal and level of assessment.*

RCN—Replacement cost new or reproduction cost new.

RCNLD—Replacement cost new less depreciation or reproduction cost new less depreciation.

Read –and–Write Instruction—A kind of command embedded in a computer program that has the capability of both accessing a data file and altering it.

Read-Only Instruction—A kind of command embedded in a computer program that has the capability only of accessing the records in a data file, not of altering them.

Real Estate Transfer Documents—The various kinds of deeds whereby real property is conveyed.

Real Property—*See property.*

Real Property Transfer Tax—The tax payable to a state (and sometimes to a locality) upon the sale of real estate and the recordation of the transfer. The payment is usually proportional to the sale price and is commonly used by appraiser in the absence of more accurate information to deduce the price for which the property sold.

Reappraisal—The mass appraisal of all property within an assessment jurisdiction accomplished within or at the beginning of an reappraisal cycle (sense 2). Also called revaluation or reassessment.

Reappraisal Cycle—(1) The period of time necessary for a jurisdiction to have a complete reappraisal. For example, a cycle of five years occurs when one-fifth of a jurisdiction is reappraised each year and also when a jurisdiction is reappraised all at once every five years. (2) The maximum interval between reappraisals as stated in laws.

Reassessment—(1) The relisting and revaluation of all property, or all property of a given class, within an assessment district by order of an authorized officer or body after a finding by such an officer or body that the original assessment is too faulty for correction through the usual procedures of review and equalization. (2) The revaluation of all real property by the regularly constituted assessing authorities, as distinguished from assessment on the basis of valuations most or all of which were established in some prior year.

Reciprocal—The result obtained when 1 is divided by a given number. For example, the reciprocal of 4 is 0.25.

Factors are reciprocals of rates.

Reconciliation—The final step in the valuation process wherein consideration is given to the relative strengths and weaknesses of the three approaches to value, the nature of the property appraised, and the quantity and quality of available data in formation of an overall opinion of value (either a single point estimate or a range of value). Also termed “correlation” in some texts.

Rectangular Survey System—See federal rectangular survey system.

Rectify—To reconcile photographs or other representations of a curved surface, such as the earth, in order to form a single, two dimensional representation, such as a map, of the surface features on the curved object.

Region of Rejection—In tests of hypotheses, that range in which one has at least the specified degree of confidence that a calculated statistic will not fall when the null hypothesis is true.

Regression Analysis—See multiple regression analysis.

Regression Coefficient—The coefficient calculated by the regression algorithm for the data supplied that, when multiplied by the value of the variable with which it is associated, will predict (for simple regression) or help to predict (for multiple regression) the value of the dependent variable. For example, in the equation, $\text{Value} = \$10,000 + \$5,000 \times \text{number of rooms}$, \$5,000 is a regression coefficient.

Regression Line—The line on a graph that represents the relationship defined by the regression coefficients. For example, the line from the relationship given in the definition of regression coefficient would cross the y-axis at the value \$10,000 and would up \$5,000 for each movement of 1 to the right. This example illustrates one of the subtleties required in understanding regression analysis: in fact, there is no line, because the independent variable is not a continuous variable, but it is easier to talk about the relationship by pretending that the variable is continuous and represent the relationship by a line rather than the more nearly correct series of vertical bars on a bar chart.

Regressivity—See assessment progressivity (regressivity).

Regressivity index—See price-related differential.

Reject Code—A flag applied to a record indicating that it should not be used for certain purposes.

Relationship—The phenomenon whereby knowledge of the value of one variable tells you something about the probable value of another. (See correlation). Relationships may be positive (an increase in one value implies an increase in the other) or negative (a change in one value implies a change in the other direction for the other). Independence of two variables means that there is no relationship between them.

Reliability—In a sampling process, the extent to which the process yields consistent population estimates. Ratio studies typically are based on samples. Statistics derived from these samples may be more or less likely to reflect the true condition in the population depending on the reliability of the sample. Representativeness, sample size, and sample uniformity all contribute to reliability. Formally, reliability is measured by sampling error or the width of the confidence interval at a specific confidence level relative to the central tendency

measure.

Remaining Economic Life—The number of years remaining in the economic life of a building or other improvement as of the date of the appraisal. This period is influenced by the attitudes of market participants and by market reactions to competitive properties on the market.

Replacement Cost—The cost, including material, labor, and overhead, that would be incurred in constructing an improvement having the same utility to its owner as the improvement in question, without necessarily reproducing exactly any particular characteristic of the property.

Replacement Reserve—An allowance in an annual operating statement for replacement of short-lived items that will not last for the remaining economic life of a property.

Representative sample—A sample of observations from a larger population of observations, such that statistics calculated from the sample can be expected to represent the characteristics of the population being studied.

Reproduction Cost—The cost, including material, labor, and overhead, that would be incurred in constructing an improvement having exactly the same characteristics as the improvement in question.

Repurchase Agreement—A short-term financing arrangement whereby those needing funds sell securities but agree to purchase them at a fixed price at a specific time.

Required Rate of Return on Equity—A component of the discount rate, as it is understood from the point of view of band of investment analysis, and a component of the overall rate developed according to mortgage-equity analysis.

Reserve Requirement—The amount that a commercial bank that is a member of the Federal Reserve System must keep on deposit in the Federal Reserve Bank of its region.

Residential Property—Property used for housing such as single-family residences, duplexes, or apartment buildings.

Residual—The difference between an observed value and a predicted value for a dependent variable.

Residual Technique—A method of arriving at the unknown value of a property component by subtracting the known values of other components from a known overall value.

Revaluation—See reappraisal.

Reversion—The value of a property at the end of a holding period.

Review—(1) Consideration by a board of appeals, a board of equalization, a board of review, or a court, of individual, property class, or district assessments, whether for the purpose of adding omitted taxable property, removing exempt property, or equalizing the valuations placed on listed property. (2) The act or process of critically studying a report, such as an appraisal, prepared by another.

Sale Price—(1) The actual amount of money exchanged for a unit of goods or services, whether or not

established in a free and open market. An indicator of market value. (2) Loosely used synonymously with “offering” or “asking price.”

Sale Ratio—The ratio of an appraisal (or assessed) value to the sale price or adjusted sale price of a property.

Sales Chasing—Sales chasing is the practice of using the sale of a property to trigger a reappraisal of that property at or near the selling price. If sales with such appraisal adjustments are used in a ratio study, the practice causes invalid uniformity results and causes invalid appraisal level results, unless similar unsold parcels are reappraised by a method that produces an appraisal level for unsold properties equal to the appraisal level of sold properties. (2) By extension, any practice that causes the analyzed sample to misrepresent the assessment performance for the entire population as a result of acts by the assessor’s office. A subtle, possibly inadvertent, variety of sales chasing occurs when the recorded property characteristics of sold properties are differentially changed relative to unsold properties. Then the application of a uniform valuation model to all properties results in the recently sold properties being more accurately appraised than the unsold ones.

Sales Comparison Approach—One of three approaches to value, the sales comparison approach estimates a property’s value (or some other characteristic, such as its depreciation) by reference to comparable sales.

Sales Data—Information about the nature of the transaction, the sale price, and the characteristics of a property as of the date of sale.

Sales File—A file of sales data.

Sales Ratio Study—A ratio study that uses sales prices as proxies for market values.

Sample—A set of observations selected from a population. If the sample was randomly selected, basic concepts of probability may be applied.

Sampling Error—The error reflected in ratio study statistics that results solely from the fact that a sample of the population is used rather than a census of the population.

Scale—The reduction ratio that characterizes a particular map. A ratio of 1:100, for example, is said to be a larger scale than 1:1,000.

Scatter Diagram or Scatter Plot—A graphic means of depicting the relationship or correlation between two variables by plotting one variable on the horizontal axis and one variable on the vertical axis. Often in ratio studies it is informative to determine how ratios are related to other variables. A variable of interest is plotted on the horizontal axis and ratios are plotted on the vertical axis.

Schedules—Tables, equations, or some other means of presenting the relationship between the values of two or more variables that are functionally related. For example, cost schedules present the relationship between cost per square foot and living area for a number of quality classes, building heights, and other characteristics.

Secondary Mortgage Markets—A market in which the originator of a mortgage, such as a local savings bank, may sell it to another investor, such as a pension fund.

Short Run—A planning period so short that a firm is unable to vary the quantities of some of the resources that

it uses.

Significance—A measure of the probability that an event is attributable to a relationship rather than merely the result of chance.

Single-Property Appraisal—Appraisal of properties one at a time.

Sinking Fund—A real or hypothetical fund or pool of money into which deposits are periodically made; these deposits, together with the compound interest they earn, are projected to accumulate to a given amount on a given date. Some sinking funds are dedicated to a particular purpose such as replacing a heating system; others are simply convenient ways of thinking about flows of money.

Sinking-Fund Factor—The amount that must be periodically set aside to accumulate with compound interest to \$1 at the end of a specified number of years and at a specified interest rate. The sinking-fund factor is sometimes known (in connection with annuity capitalization) as the capital recovery rate.

Site—The location of a person, thing, or event.

Site Characteristics—Characteristics of (and data that describe) a particular property, especially land size, shape, topography, drainage, and so on, as opposed to location and external economic forces. By extension, any characteristics of either the site or the improvement.

Situs—The actual or assumed location of a property for purpose of taxation.

Skewed—The quality of a frequency distribution that makes it asymmetrical. Distributions with longer tails on the right than on the left are said to be skewed to the right or to be positively skewed. Distributions with longer tails to the left are said to be skewed to the left or to be negatively skewed.

Slope—The change in the dependent variable associated with a change of 1 in the independent variable of interest. The slope is given by the coefficient of the independent variable.

Software—(1) Computer programs. (2) Those parts of a computer system that are not machinery or circuits; thus procedures and possibly documentation are included along with programs.

Spearman Rank Test—A standard non-parametric test useful in examining assessment bias, among other things. It is based upon the correlation of two sets of ranks.

Special Purpose Property—A property adapted for a single use.

Split—See property split.

Standard Deviation—The statistic calculated from a set of numbers by subtracting the mean from each value and squaring the remainders, adding together all the squares, dividing by the size of the sample less one, and taking the square root of the result. When the data are normally distributed, the percentage of observations can be calculated within any number of standard deviations of the mean from normal probability tables. When the data are not normally distributed, the standard deviation is less meaningful and the analyst should proceed cautiously.

Standard Error—A measure of the precision of a measure of central tendency; the smaller the standard error, the more reliable the measure of central tendency. Standard errors are used in calculating a confidence interval about the arithmetic mean and the weighted mean. The standard error of the sample mean is the standard deviation divided by the square root of the sample size.

Standard Error of the Estimate (SEE)—An expression for the standard deviation of the observed values about the regression line; thus it provides an estimate of the variation likely to be encountered in making predictions from the regression equation.

Standardize—(1) To transform a variable to standard form; that is, to make the mean of the frequency distribution equal to zero and the standard deviation equal to one. (2) To adjust, for appraisal purposes, reported data such as income and expenses so as to remove the effects of non-real estate factors such as abnormally good or bad management, weather, and the like. The more common term for this adjustment process is normalization.

State Plane Coordinates—Geographic coordinates based on the state plane coordinate system.

State Plane Coordinate System—A mathematical projection of the curved surface of the earth on a flat surface over which a coordinate grid expressed in feet is laid. State plane coordinate systems have been established for all fifty states, and within each state there are one or more separate projections of areas known as zones. The boundaries of state plane coordinate zones are coterminous with county and state boundaries, and administrative advantage in that counties are never required to use more than one state plane coordinate zone.

State Property Tax Tribunal—A quasi-judicial administrative review agency organized by at least one state (Michigan) to separate the state's review and appeal responsibilities from its administrative and equalization functions.

Statistical Accuracy—The closeness between the statistical estimate and the true (but unknown) population parameter value it was designed to measure. It is usually characterized in terms of error or the potential significance of error and can be decomposed into sampling error and nonsampling error components. Accuracy can be specified by the level of confidence selected for a statistical test. *See also accuracy.*

Statistical Precision—A reference to how closely the survey results from a sample can reproduce the results that would be obtained from the entire population (a complete census). The amount by which a sample statistic can vary from the true population parameter is due to error. Even if all the sample data are perfectly accurate, random (sampling) error affects statistical precision (measured by the standard error or standard deviation). The dispersion of ratios in the population and the sample size have a controlling influence over the precision of any statistical estimate. When the reliability of a statistical measure is being evaluated, narrower confidence intervals have greater precision. *See also precision.*

Statistics—Numerical descriptive data calculated from a sample, for example, the median, mean, or COD. Statistics are used to estimate corresponding measures, termed parameters, for the population.

Stepwise Regression Analysis—A kind of multiple regression analysis in which the independent variables enter the model, and leave it if appropriate, one by one according to their ability to improve the equation's power to predict the value of the dependent variable.

Straight-Line Capitalization—A means of estimating value whereby net operating income is divided by a capitalization rate composed of the discount rate, the reciprocal of remaining economic life as the recapture rate, and sometimes the effective tax rate. The method implicitly assumes that net operating income will decline by an equal dollar amount each year.

Straight-Line Method—A method of amortizing investments and other sources of cash flows so that equal amounts are attributed to each of several equal intervals of time.

Straight-Line Recapture—The recovery of capital invested in a wasting asset in equal periodic amounts over the remaining economic life of the asset.

Stratify—To divide, for purposes of analysis, a sample of observations into two or more subsets according to some criterion or set of criteria.

Stratum, Strata—A class or subset that results from stratification.

Subclass—A group of properties within a class, smaller than the class, usually (although not necessarily) defined by stratification rather than by sampling.

Subject Property—The property being appraised.

Subjective—Having the quality of requiring judgment in arriving at an appropriate answer or value for a variable (such as the quality class of a structure). See also objective, qualitative, and quantitative.

Subset—A group of properties within a sample, smaller than the sample, usually although not necessarily defined by stratification rather than by sampling.

Substitute Goods—Goods related in such a way that an increase in consumption of one decreases consumption of the other.

Substitution—A principle stating that a property's value tends to be set by the cost of acquiring an equally desirable substitute.

Sum of Squared Errors—The sum of the squared deviations from the predicted values (rather than the mean value).

Summation Approach—See cost approach.

Supply—A schedule showing the amount of a good or productive service that would be offered for sale at various prices during a given period.

Surplus Productivity—The income remaining after the costs of labor, capital, and management have been paid.

Surplus Value—The value of a commodity over and above the quantity of labor required to produce it.

Tangible Property—Actual physical property (real or personal) in contrast to intangible property.

Task Force—A kind of organizational unit, usually temporary, composed of employees from different functional areas whose assignment is usually some kind of non-routine task, such as assisting in a system development effort.

Tax Base—The total of all the assessed values in a given community.

Tax Levy—See property tax levy.

Tax Rate—The percentage of assessed value at which each property is taxed in a given district.

Terminal—The on-line device used to communicate with a computer.

Three Approaches to Value—A convenient way to group the various methods of appraising a property. The cost approach encompasses several methods for estimating replacement cost of an improvement less depreciation plus land value. The sales comparison approach estimates values by comparison with similar properties for which sales prices are known. The methods included in the income approach are based on the assumption that value equals the present worth of the rights to future income.

Time-Adjusted Sale Price—The price at which a property sold adjusted for the effects of price changes reflected in the market between the date of sale and the date of analysis.

Time Value of Money—The principle that an amount of money receivable or anticipated as income in the future is always worth less than an equal amount actually in hand at the present time.

Title—The union of all elements constituting proof of ownership or the instrument that is evidence of ownership.

Tolerance—An acceptable margin of error or inaccuracy.

Transformation—The process of changing the values or definitions of one or more variables so as to make them more useful for further analyses. If market value changes with living area, for example, a valuable transformation would be to change length and width to area, and if market value does not change proportionally with area, a valuable transformation might be to use the logarithm of area.

Transverse Mercator Coordinates—Geographic coordinates based on a transverse Mercator projection and usually expressed in meters. See also Mercator projection; universal transverse Mercator.

Treasury Bills—Short-term debt obligations of the United States Treasury.

Trended Original Cost—The cost of constructing an improvement at a particular time, adjusting to reflect inflation and deflation, as well as changes in construction costs, between that time and the present.

Trending—Adjusting the values of a variable for the effects of time. Usually used to refer to adjustments of assessments intended to reflect the effects of inflation and deflation and sometimes also, but not necessarily the effects of changes in the demand for micro-locational goods and services.

Trending Factor—A figure representing the increase in cost or selling price over a period of time. Trending accounts for the relative difference in the value of a dollar between two periods.

Triangular-Lot Table—A schedule of adjustments used to appraise a lot having a triangular shape (in whole or in part) by comparison with a base lot or given unit factor, such as a front-foot rate.

Trimmed Mean—The arithmetic mean of a data set identified by the proportion of the sample that is trimmed from each end of the ordered array. For example, a 10 percent trimmed mean of a sample of size ten is the average of the eight observations remaining after the largest and smallest observations have been removed.

T-Statistic—A particular statistic important in inferential statistics for certain kinds of hypothesis testing of certain kinds of data.

T-Test—A particular parametric statistical test useful, among other things, in testing the level of assessment.

Two-Tailed Test—A test in which the alternative hypothesis does not specify the direction of the relationship, as opposed to a one-tailed test, in which the direction of relationship is specified. For example, the alternative hypothesis that a does not equal b implies a two-tailed test, whereas a is greater than b implies a one-tailed test. See also null hypothesis.

Uniformity—The equality of the burden of taxation in the method of assessment.

Uniform Standards of Professional Appraisal Practice—Annual publication of the Appraisal Standards Board of The Appraisal Foundation: “These Standards deal with the procedures to be followed in performing an appraisal, appraisal review, or appraisal consulting service and the manner in which an appraisal, appraisal review, or appraisal consulting service is communicated...Standard 6 establishes requirements for the development and reporting of mass appraisals of a universe or properties for ad valorem tax purposes or any other intended use”.

United States Federal Reserve System—A governmental regulatory agency with responsibility for maintaining the health of the economy through its regulation of the money supply and rate of interest.

United States Public Land Survey—The land survey begun by the United States Congress in 1785 upon which the federal rectangular survey system is based.

Unit-in-Place Method—A method of cost estimating in which all the direct and some of the indirect costs of each individual construction component (such as the foundation walls) are specified in appropriate units (such as area, volume, or length), multiplied by an estimate of the quantity required by the particular structure, and added to obtain an estimate of the cost of the structure. Compare comparative unit method (sense 2) and quantity survey method.

Unit-Value Method—See average-unit-value method.

Unit of Comparison—A property as a whole or some smaller measure of the size of the property used in the sales comparison approach to estimate a price per unit.

Universal Transverse Mercator—The transverse Mercator projection used in the United States. Universal

transverse Mercator projection zones are 6 degrees of longitude wide and cross civil boundaries. See also Mercator projection.

Unweighted Mean—See weighted mean.

Useable Area—The area of land that can be used, or the equivalent area after allowance for irregular topography.

Use Class—(1) One of the following classes of property: single-family residential, multifamily residential, agricultural, commercial, industrial, vacant land, and institutional/exempt. (2) Any subclass refinement of the above—for example, townhouse, detached single-family, condominium, house on farm, and so on.

Use Code—A code to indicate a property's use class or, less often, potential use.

Use Value—The value of property for a specific use.

Use-Value (Farmland) Assessment Laws—Laws that require or permit assessors to appraise and assess property as though the property were subject to an enforceable restriction that forbade putting the land (or the entire property) to any use but the present one. Typically there is no such permanent enforceable restriction, but assessors may nevertheless be required to assess certain property types, especially agricultural land, and to a lesser extent historic properties, as though the restriction were real. In such instances the sales comparison approach may be inapplicable, and a version of the income approach may be required.

USPAP—See Uniform Standards of Professional Appraisal Practice.

U-Test—See Mann-Whitney test.

Utility—The satisfaction obtained from the goods and services that a consumer consumes.

UTM—Universal transverse Mercator.

Validity—The quality of a data element or procedure being what it should be in terms of some ultimate purpose or use. See also integrity.

Valuation—The process or business of appraising, of making estimates of the value of something. The value usually required to be estimated is market value.

Valuation Date—The specific date as of which assessed values are set for purposes of property taxation. This date may also be known as the “date of finality”. See also Assessment Date.

Valuation Model—A representation in words or in an equation that explains the relationship between value or estimated sale price and variables representing factors or supply and demand.

Value—(1) The relationship between an object desired and a potential owner; the characteristics of scarcity, utility, desirability, and transferability must be present for value to exist. (2) Value may also be described as the present worth of future benefits arising from the ownership of real or personal property. (3) The estimate sought in a valuation. (4) Any number between positive infinity and negative infinity.

Value in Exchange—The amount an informed purchaser would offer in exchange for a property under a given market conditions.

Value in Use—See use value.

Variable—An item of observation that can assume various values, for example, square feet, sales prices, or sales ratios. Variables are commonly described by using measures of central tendency and dispersion.

Variable Costs—The costs of the variable resources used by a firm in either the short run or the long run.

Variable Proportions, Law of—An economic principle stating: When the quantity of one productive service is increased in equal increments, while the quantities of other productive services remained fixed, the resulting increment of product will decrease after a certain point.

Variable Resources—The resources used by a firm that can change in quantity in either the short run or the long run.

Variance—A measure of dispersion equal to the standard deviation squared.

Variation—(1) A general term meaning dispersion. (2) A reference to a particular statistic called the coefficient of variation.

Verify—To check the accuracy of something. For example, sales data may be verified by interviewing the purchaser of the property, and data entries may be verified by check digits.

Vertical Inequity—Differences in the levels of assessment of properties related to the value ranges of the properties. That is, properties of higher value have assessment levels different from properties of lower value. See horizontal inequity.

Warranty Deed—A deed conveying to the grantee title to the property free and clear of all encumbrances except those stated in the deed itself.

Wasting Asset—A property or other thing of value whose value diminishes with the passage of time. For example, buildings are a wasting asset, but land and gold, traditionally, are not.

Weighted Coefficient of Dispersion—The coefficient of dispersion when the absolute differences between individual assessment ratios and the measure of central tendency (for example, median ratio) are weighted on the basis of sale price.

Weighted Coefficient of Variation—The coefficient of variation when the squared differences between individual assessment ratios and the arithmetic mean ratio are weighted on the basis of sale price.

Weighted Mean; Weighted Average—An average in which each value is adjusted by a factor reflecting its relative importance in the whole before the values are summed and divided by their number.

Weighted Mean Ratio—Sum of the appraised values divided by the sum of the sales prices (or independent estimates of market value), which weights each ratio in proportion to the sale price (or independent estimate of

market value).

Yield Capitalization—Any of several methods used in the income approach to appraising. Yield methods involve certain subtleties and assumptions that vary according to the particular method employed, but include estimating such factors as the required rate of return on investment, the remaining economic life of the property, an investment holding period, the income path, anticipated depreciation or appreciation, and reversionary value. The yield methods stand in contrast to direct sales analysis methods, in which a typical relationship between incomes and sales prices is found by simply dividing observed incomes by sales prices for comparable properties, the fraction thus obtained then being applied (in the form of a gross income multiplier or an overall rate) to the properties being appraised. See also building residual technique, discount rate, mortgage-equity analysis, and property residual technique.

Yield Rate—The required rate of return on equity capital; this is a component of the capitalization rate (or discount rate or mortgage-equity overall rate) that must be separately specified in band-of-investment analysis and mortgage-equity analysis.

Z-Statistic—The number calculated in the z-test, whose significance is evaluated by reference to a z-table.

Z-Table—A table of critical values associated with the z-test.

Z-Test—A test of any of a number of hypotheses in inferential statistics that has validity if sample size is sufficiently large and the underlying data are normally distributed.