

Bee County Appraisal District

2024 MASS APPRAISAL REPORT

Bee County Appraisal District

2023 USPAP Mass Appraisal Report

INTRODUCTION

Scope of Responsibility

The Bee County Appraisal District has prepared and published this report to provide our citizens and taxpayers with a better understanding of the district's responsibilities and activities. This report has several parts: a general introduction and then several sections describing the appraisal effort by the Appraisal District.

The Bee County Appraisal District is a political subdivision of the State of Texas created effective January 1, 1980. The provisions of the Texas Property Tax Code govern the legal, statutory, and administrative requirements of the Appraisal District. The members of the Board of Directors, appointed by the taxing units within the boundaries of Bee County, constitutes the district's governing body. The Chief Appraiser, appointed by the Board of Directors, is the chief administrator and chief executive officer of the Appraisal District.

The Appraisal District is responsible for local property tax appraisal and exemption administration for seventeen jurisdictions or taxing units in the county. Each taxing unit, such as the county, a city, school district, municipal utility district, etc., sets its own tax rate to generate revenue to pay for such things as police and fire protection, public schools, road and street maintenance, courts, water and sewer systems, and other public services. Appraisals established by the Appraisal District allocate the year's tax burden on the basis of each taxable property's January 1st market value. We also determine eligibility for various types of property tax exemptions such as those for homeowners, the elderly, disabled veterans, and charitable and religious organizations.

All references to appraisers or staff are currently provided by Pritchard and Abbott, a statewide appraisal firm. No appraisal work is done by any employee of the district. All references to appraisers or appraisal functions are provided by employees of Pritchard and Abbott.

Except as otherwise provided by the Property Tax Code, all taxable property is appraised at its "market value" as of January 1st. Under the tax code, "market value" means the price at which a property would transfer for cash or its equivalent under prevailing market conditions if:

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

The Texas Property Tax Code (TPTC) defines special appraisal provisions for the valuation of residential homestead property (Sec. 23.23), productivity (Sec. 23.41), real property inventory (Sec. 23.12), dealer inventory (Sec. 23.121, 23.124, 23.1241 and 23.127), nominal (Sec. 23.18) or restricted use properties (Sec. 23.83) and allocation of interstate property (Sec. 23.03). The owner of real property inventory may elect to have the inventory appraised at its market value as of September 1st of the year preceding the tax year to which the appraisal applies by filing an application with the Chief/Deputy Appraiser requesting that the inventory be appraised as of September 1st.

The Texas Property Tax Code, under Sec. 25.18, requires each Appraisal office to implement a plan to update appraised values for real property at least once every three years. The District's current policy is to conduct a general reappraisal of real property on a three-year cycle, however, appraised values are reviewed annually and are subject to change for purposes of equalization. Personal property is appraised every year.

The appraised value of real estate is calculated using specific information about each property. Using computer-assisted appraisal programs, and recognized appraisal methods and techniques, we compare that information with the data for similar properties, and with recent market data. The District follows the standards of the International Association of Assessing Officers (IAAO) regarding its appraisal practices and procedures, and subscribes to the standards promulgated by the Appraisal Foundation known as the Uniform Standards of Professional Appraisal Practice (USPAP) to the extent they are applicable. In cases where the Appraisal District contracts for professional valuation services, the contract that is entered into by each appraisal firm requires adherence to similar professional standards.

Personnel Resources

The Office of the Chief/Deputy Appraiser is responsible for the oversight of all operations of the Appraisal District including the overall planning, organizing, staffing, coordinating, and controlling of district operations. In addition, the Chief/Deputy Appraiser serves as the head of the administration department

planning, organizing, directing and controlling the business support functions related to human resources, budget, finance, records management, purchasing, fixed assets, facilities and postal services. The Chief/Deputy Appraiser supervises the appraisal staff in the valuation of all real and personal property accounts. The property types appraised include commercial, residential, business personal, and industrial.

The District's appraisers are subject to the provisions of the Property Taxation Professional Certification Act and must be duly registered with The Texas Department of Licensing and Regulation (TDLR).

Support functions including records maintenance, public information assistance to the public and appraisal review hearings support is coordinated by the support personnel.

The Appraisal District staff consists of five employees with the following classifications:

- 1 Administrator (Chief Appraiser)
- 4 Office Clerks
- 4 Contract Appraisers

Data

The District is responsible for establishing and maintaining approximately 31,421 real and personal property accounts covering over 880 square miles Bee County. This data includes property characteristics, ownership and exemption information. Property characteristic data on new construction is updated through an annual field effort; existing property data is maintained through a field review that is prioritized by last field inspection date. Sales are routinely validated during a separate field effort; however, numerous sales are validated as part of the new construction and data review field activities. General trends in employment, interest rates, new construction trends, and cost and market data are acquired through various sources, including internally generated questionnaires to buyer and seller, university research centers, and market data centers and vendors.

The District has a geographic information system (GIS) that maintains cadastral maps and various layers of data, facet and aerial photography.

Information Systems

The Chief/Deputy Appraiser maintains the district's data, software applications, Internet website, and geographical information system under Pritchard & Abbott, Inc.'s (Property Appraisal System) software system. The main hardware is a Windows Cloud Based Server Farm featuring Virtual Data Servers, Storage Servers

and Access Servers. Pritchard & Abbott Mapping Department hosts the geographic information system through a Cloud Based System with ESRI Software; and the user base is served by general purpose Desktops along with a network terminal and applicable firewall security to the network server through specific security protocols to ensure safety to our systems on the cloud as well as our in-house Windows based machines.

INDEPENDENT PERFORMANCE TEST

According to Chapter 5 of the TPTC and Section 403.302 of the Texas Government Code, the State Comptroller's Property Tax Assistance Division (PTAD) conducts a bi-annual property value study (PVS) of each Texas school district and each Appraisal District. As a part of this annual study, the code also requires the Comptroller to: use sales and recognized auditing and sampling techniques; test the validity of school district taxable values in each Appraisal District and presume the appraisal roll values are correct when values are valid; and, determine the level and uniformity of property tax appraisal in each Appraisal District. The methodology used in the property value study includes stratified samples to improve sample representativeness and techniques or procedures of measuring uniformity. This study utilizes statistical analyses of sold properties (sale ratio studies) and appraisals of unsold properties (appraisal ratio studies) as a basis for assessment ratio reporting. For Appraisal Districts, the reported measures include median level of appraisal, coefficient of dispersion (COD), the percentage of properties within 10% of the median, the percentage of properties within 25% of the median, and price-related differential (PRD) for properties overall and by state category (i.e., categories A, B, C, D and F1 are directly applicable to real property).

There are seven independent school districts in the Bee County CAD for which appraisal rolls are annually developed. The preliminary results of this study are released in January in the year following the year of appraisal. The final results of this study are certified to the Education Commissioner of the Texas Education Agency (TEA) in the following July of each year for the year of appraisal. This outside (third party) ratio study provides additional assistance to the CAD in determining areas of market activity or changing market conditions.

APPRAISAL ACTIVITIES

INTRODUCTION

Appraisal Responsibilities

The appraisal staff is responsible for collecting and maintaining property characteristic data for classification, valuation, and other purposes. Accurate

valuation of real and personal property by any method requires a physical description of personal property, and land and building characteristics. The Appraisal District is responsible for administering, planning, and coordinating all activities involving data collection and maintenance of all commercial, residential and personal property types which are located within the boundaries of Bee County. The data collection effort involves the field inspection of real and personal property accounts, as well as data entry of all data collected into the existing information system. The goal is to inspect all residential and personal properties in this county over three years, and commercial properties over three years. Meeting this goal is dependent on budgetary constraints.

Appraisal Resources

Personnel

The appraisal staff consists of one Chief/Deputy Appraiser, four clerks and appraisers from a contract appraisal company.

Data

The data used by contracted field appraisers includes the existing property characteristic information contained in Pritchard & Abbott, Inc. (P&A) Data Hosting software from the District's computer system. The data is provided on a field appraisal record card, or personal property data sheets. Other data used include maps, sales data, fire and damage reports, building, electric, well and septic installation permits, photos, and actual cost information. During the field inspection portion of the yearly reappraisal property data is accessed, verified and adjusted (as necessary) on mobile computer units which provide access to the CAMA system.

PRELIMINARY ANALYSIS

Data Collection/Validation

Data collection of real property involves maintaining data characteristics of the property on P&A Data Hosting system. The information contained in P&A Data Hosting system includes site characteristics, such as land size and use, and improvement data, such as square foot of living area, year built (if available), apparent age, quality of construction, and condition. Field appraisers use appraisal manuals that establish uniform procedures for the correct listing of real property. All properties are coded according to these manuals and the approaches to value are structured and calibrated based on this coding system. The field appraisers use these manuals during their initial training and as a guide in the field inspection of properties. Data collection for personal property involves maintaining information on Personal Property. The type of information includes personal property such as

business inventory, furniture and fixtures, machinery and equipment, cost and location. The field appraisers conducting on-site inspections use the state developed personal property manual (adjusted with local information as available) during their initial training and as a guide to correctly list all personal property that is taxable.

The appraisal manuals that are utilized by the field appraisers are available in the District's office. Copies are available to a property owner/agent who requests a copy of the manual.

Sources of Data

The sources of data collection are through the new construction field effort, data review/re-list field effort, data mailers, hearings, sales validation field effort, commercial sales verification, newspapers and publications, and property owner correspondence via the Internet. A principal source of data comes from building permits received from taxing jurisdictions that require property owners to obtain a building permit. Paper permits are received and matched manually with the property's tax account number for data entry.

Data review of entire neighborhoods is generally a good source for data collection. Appraisers drive entire neighborhoods to review the accuracy of our data and identify properties that must be re-listed. The sales validation effort in real property pertains to the collection of data of properties that have sold. In residential, the sales validation effort involves on-site inspection by field appraisers to verify the accuracy of the property characteristics data and confirmation of the sales price. In commercial, the commercial sales group is responsible for contacting both grantee and grantor to confirm sales prices and to verify pertinent data.

Property owners are one of the best sources for identifying incorrect data that generates a field check. Frequently, the property owner provides sufficient data to allow correction of records without having to send an appraiser on-site. As the District has increased the amount of information available on the Internet, property owner's requests to correct data inconsistencies has also increased. For the property owner without access to the Internet, telephone calls or letters are often submitted notifying the District of inaccurate data. Properties identified in this manner are added to a work file and inspected at our earliest opportunity.

Data Collection Procedures

Field data collection requires organization, planning and supervision of the field effort. Data collection procedures have been established for residential, commercial, and personal property. The appraisers are assigned throughout Bee County to conduct field inspections. Appraisers conduct field inspections and record

information either on Cama Cloud, a property record card (PRD) or a personal property data sheet.

The quality of the data used is extremely important in establishing accurate values of taxable property. While production standards are established and upheld for the various field activities, quality of data is emphasized as the goal and responsibility of each appraiser. New appraisers are trained in the specifics of data collection set forth in the manual as "field protocols" to follow. Experienced appraisers are routinely re-trained in procedures prior to major field projects such as new construction, sales validation, or data review. A quality assurance process exists through supervisory review of the work being performed by the field appraisers. Quality assurance supervision is charged with the responsibility of ensuring that appraisers follow listing procedures, identify training issues, and provide uniform training throughout the field appraisal staff.

Data Maintenance

The field appraiser is responsible for ensuring that field notes and data entry are entered completely and accurately.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The date of last inspection, extent of that inspection, and the appraiser responsible are listed on the P&A Data Hosting system record. If a property owner or jurisdiction disputes the district's records concerning this data during a hearing, via a telephone call or correspondence received, P&A Data Hosting system data may be altered based on the evidence provided. Typically, a field inspection is requested to verify this evidence for the current year's valuation or for the next year's valuation. Every year a field review of certain areas or neighborhoods in the jurisdiction is done during the data review/re-list field effort.

Office Review

Office reviews are completed on properties where information has been received from the owner of the property. Survey letters sent en masse, or at the request of the property owner, frequently verify the property characteristics or current condition of the property. When the property data is verified in this manner, field inspections are not required.

PERFORMANCE TEST

The appraisal company is responsible for conducting ratio studies and comparative analysis with oversight by the Chief/Deputy Appraiser.

Field appraisers, in many cases, may conduct field inspections to ensure the ratios produced are accurate and the appraised values utilized are based on accurate property data characteristics.

RESIDENTIAL PROPERTY

INTRODUCTION

Scope of Responsibility

The field appraisers are responsible for developing equal uniform market values for residential improved and vacant property within the areas to which they are assigned. There are approximately 13,765 residential improved and vacant residential properties in Bee County.

Appraisal Resources

Personnel

The Residential Valuation appraisal staff consists of the Chief/Deputy Appraiser, contracted appraisers, and the support staff.

Data

A common set of data characteristics for each residential dwelling in Bee County is collected in the field and data entered to the computer. The property characteristic data drives the computer-assisted mass appraisal (CAMA) approach to valuation.

MARKET COMPARISON APPROACH

Area Analysis

Data on regional economic forces such as demographic patterns, regional, location factors, employment and income patterns, general trends in real property prices and rents, interest rate trends, availability of vacant land, and construction trends and costs are collected from private vendors and public sources and provide the field appraiser a current economic outlook on the real estate market. Information is gleaned from real estate publications and sources such as continuing education in the form of IAAO, TAAO, TAAO, and Comptroller of Public Accounts classes and seminars.

Neighborhood and Market Analysis

Neighborhood analyses involves the examination of how physical, economic, governmental and social forces and other influences affect property values. The effects of these forces are also used to identify, classify, and stratify comparable properties into smaller, manageable subsets of the universe of properties known as neighborhoods. Residential valuation and neighborhood analysis are conducted on each of the political entities known as Independent School Districts (ISD).

The first step in neighborhood analysis is the identification of a group of properties that share certain common traits. A "neighborhood" for analysis purposes is defined as the largest geographic grouping of properties where the property's physical, economic, governmental, and social forces are generally similar and uniform. Geographic stratification accommodates the local supply and demand factors that vary across a jurisdiction.

If a neighborhood can be identified, the next step is to define its boundaries. This process is known as "delineation." Some factors used in neighborhood delineation include location, sales price range, lot size, age of dwelling, quality of construction and condition of dwellings, square footage of living area, and story height. Delineation can involve the physical drawing of neighborhood boundary lines on a map, but it can also involve statistical separation or stratification based on attribute analysis.

Part of neighborhood analysis is the consideration of discernible patterns of growth that influence a neighborhood's individual market. Few neighborhoods are fixed in character. Each neighborhood may be characterized as being in a stage of growth, stability, or decline. The growth period is a time of development and construction. As new neighborhoods in a community are developed, they compete with existing neighborhoods. An added supply of new homes tends to induce population shift from older homes to newer homes. In the period of stability, or equilibrium, the forces of supply and demand are about equal. Generally, in the stage of equilibrium, older neighborhoods can be more desirable due to their stability of residential character and proximity to the workplace and other community facilities.

The period of decline reflects diminishing demand or desirability. During decline, general property use may change from residential to a mix of residential and commercial uses. Declining neighborhoods may also experience renewal, reorganization, rebuilding, or restoration, which promotes increased demand and economic desirability.

Neighborhood identification and delineation is important in the residential valuation system at the district. Residential analysis work done in association with the residential valuation process is neighborhood specific, as applicable. Neighborhoods are office identified and delineated based on observable and quantifiable aspects of homogeneity. Neighborhood delineation is periodically reviewed to determine if further neighborhood delineation is warranted. Whereas neighborhoods involve similar properties in the same location, a neighborhood group is simply defined as similar neighborhood in similar locations. Each residential neighborhood may be assigned to a neighborhood group based on observable aspects of homogeneity between neighborhoods. Neighborhood grouping is highly beneficial in cost-derived areas of limited sales, for use in direct sales comparison analysis. Neighborhood groups, or clustered neighborhoods, increase the available market data by linking comparable properties outside a given neighborhood. Sales ratio analysis, discussed below, is attempted on a neighborhood basis, and in soft sale areas on a neighborhood group basis.

Highest and Best Use Analysis

The highest and best use of property is the reasonable and probable use that supports the highest present value as of the date of the appraisal. The highest and best use must be physically possible, legal, financially feasible, and productive to its maximum. The highest and best use of residential property is normally its current use. This is due in part to the fact that residential development, in many areas, through use of deed restrictions and zoning, precludes other land uses.

Residential valuation undertakes reassessment of highest and best use in transition areas and areas of mixed residential and commercial use. In transition areas with ongoing gentrification, the appraiser reviews the existing residential property use and determines highest and best use. Once the conclusion is made that the highest and best use remains residential, further highest and best use analysis is done to decide the type of residential use on a neighborhood basis. As an example, it may be determined in a transition area that older, non-remodeled homes are economic misimprovements, and the highest and best use of such property is the construction of new dwellings. In areas of mixed residential and commercial use, the appraiser reviews properties in these areas on a periodic basis to determine if changes in the real estate market require reassessment of the highest and best use of a select population of properties.

VALUATION AND STATISTICAL ANALYSIS

Value Schedules

All residential parcels in the district are valued from identical value schedules using a comparative unit method. The district's residential value schedules, originally

adopted from a private mass appraisal firm, have been customized to fit Bee County's local residential building and labor market.

An extensive review and revision of the residential value schedule is performed annually. As part of this process, newly constructed sold properties at various levels of quality of construction in Bee County are reviewed. The property data characteristics of these properties are verified, and photographs taken of the samples. CAD dwelling sales are compared against current value tables. The results of the comparison are analyzed using statistical measures, including stratification by quality, and reviewing estimated building values, plus land to sales prices. In addition to the mainframe cost schedules, PC spreadsheet applications have been created to address unique appraisal situations, such as different levels of remodeling and atypical housing features not normally accounted for in the benchmark value system.

Sales Information

A sales file for the storage of "snapshot" sales data at the time of sale is maintained. Residential vacant land sales, along with commercial improved and vacant land sales are maintained. Residential improved and vacant sales are collected from a variety of sources, including District questionnaires sent to buyers, field discovery, protest hearings, vendors, builders, and realtors. A system of type, source, validity, and verification codes was established to define salient facts related to a property's purchase or transfer. Appraisal district or neighborhood (as available) sales reports are generated as an analysis tool for the appraiser in the development of value estimates.

Land Analysis

Residential land analysis is conducted by the Appraisal company, with assistance from the Chief/Deputy Appraiser. Together, they develop a base lot, primary rate, and assign each unique parcel its own value within the cost table either by acres, square foot, front foot or site value. These tables are designed to systematically value the primary and residual land. A computerized land table file stores the land information required to consistently value individual parcels within neighborhoods, as identified. Specific land influences are used, where necessary, to adjust parcels outside the neighborhood norm for such factors as view, shape, size, and topography, among others. The appraisers use abstraction and allocation methods to ensure that the land values created best reflect the contributory market value of the land to the overall property value.

Statistical Analysis

The residential valuation appraisers perform statistical analysis annually to evaluate whether values are equitable and consistent with the market. Ratio studies are conducted on each of the residential valuation neighborhoods (as identified) in the district to judge the two primary aspects of mass appraisal accuracy, being the level and uniformity of value. Appraisal statistics of central tendency and dispersion generated from sales ratios are available for each property category, the weighted mean, median, standard deviation, coefficient of variation, and coefficient of dispersion provide the appraisers a tool by which to determine both the level and uniformity of appraised value on a stratified neighborhood basis. The level of appraised values is determined by the median ratio for individual properties within the Appraisal District, and a comparison of neighborhood medians reflect the general level of appraised value between comparable neighborhoods, if sufficient information is available to identify, delineate and quantify neighborhoods. Review of the standard deviation, coefficient of variation, and coefficient of dispersion discerns appraisal uniformity within and between stratified property types.

Residential property is reviewed annually by appraisers, through the sales ratio analysis process. The first phase involves residential ratio studies that compare the recent sales prices of residential properties to the appraised values of these sold properties. This set of ratio studies affords the appraiser an excellent means of judging the present level of appraised value and uniformity of the sales. The appraiser makes a preliminary decision, based on the sales ratio statistics and designated parameters for valuation update, as to whether the value level in a residential strata needs to be updated in an upcoming reappraisal, or whether the level of market value is at an acceptable level.

Market Adjustment or Trending Factors

Market adjustment factors are developed from appraisal statistics provided from ratio studies and are used to ensure that estimated values are consistent with the market. The District's primary approach to the valuation of residential properties uses a hybrid cost-sales comparison approach. This type of approach accounts for market influences not specified in a cost model.

The following equation denotes the hybrid model used:

$$\text{Land Value} + \text{RVN (Replacement Value New-Depreciation)} = \text{Market Value}$$

The market value equals the market adjustment factor times the land value plus the replacement value new less depreciation. As a cost approach separately estimates both land and building values and uses depreciated replacement costs, which reflect only the supply side of the market, it is expected that adjustments to the cost values are needed to bring the level of appraisal to an acceptable standard. Market adjustments are applied uniformly within residential strata to account for market

changes from the previous analysis. Additional adjustments may be applied to verified neighborhoods as they are quantified.

If a residential strata is to be updated, the appraiser uses a cost ratio study that compares recent sales prices of properties appropriately adjusted for the effects of time, if quantified, within a strata with the properties' previous appraised value. The calculated ratio derived from the sum of the sold properties' cost value divided by the sum of the sales prices indicates the strata level of value based on the previous appraised value for the sold properties. This appraisal-to-sale ratio is used to determine the market adjustment factor for each strata. This market adjustment factor is needed to trend the values closer to the actual market evidenced by recent sales prices within a given strata.

The sales used to determine the market adjustment factor will reflect the market influences and conditions only for the specified strata, thus producing more representative and supportable values. The market adjustment factor calculated for each updated strata is applied uniformly to all properties within a strata. Once the market-trend factors are applied, a second set of ratio studies is generated that compares recent sale prices with the proposed appraised values for these sold properties. From this set of ratio studies, the appraiser judges the appraisal level and uniformity in both updated and non-updated strata, and finally, for the appraisal district as a whole.

TREATMENT OF RESIDENCE HOMESTEADS

Beginning in 1998, the State of Texas implemented a constitutional classification scheme concerning the appraisal of residential property that receives a residence homestead exemption. Under the new law, beginning in the second year a property receives a homestead exemption increases in the value of that property are "capped." The value for tax purposes (appraised value) of a qualified residence homestead will be the LESSER of:

- the market value; or
- the preceding year's appraised value;
PLUS 10 percent;
PLUS the value of any improvements added.

Values of capped properties must be recomputed annually. If a capped property changes ownership and/or homestead status, the cap automatically expires as of January 1st of the following year. In that following year, that home is reappraised at its market value to bring its appraisal into uniformity with other properties. An analogous provision applies to new homes. While a developer owns them, unoccupied residences can be appraised as part of an inventory using the district's

land value and the developer's construction costs as of the valuation date. However, in the year following sale, they are reappraised at market value.

When resales are available time adjustments were developed using the sales ratio trend analysis method. Statistics produced from the market data include measures of central tendency (mean and median) that represent the level of appraised values, and measures of uniformity (coefficient of dispersion and coefficient of variation) that represent the consistency of appraised values within and between strata. In absence of local data to develop time adjustments, the CAD uses a statewide adjustment for time.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The appraiser identifies individual properties in critical need of field review through sales ratio analysis. Sold properties with a high variance in sales ratios are field reviewed on an annual basis to check for accuracy of data characteristics.

As the district's parcel count has increased through new home construction, and the homes constructed in the boom years of the late 70's and early 80's experience remodeling, the appraisers are required to perform the field activity associated with transitioning and high demand strata. Increased sales activity has also resulted in a more substantial field effort on the part of the appraisers to review and resolve sales outliers. Additionally, the appraiser frequently field reviews subjective data items such as quality of construction, condition, and physical, functional and economic obsolescence, factors contributing significantly to the market value of the property. During this review, the appraiser is able to physically inspect sold properties for comparability and consistency of values and inclusion of any characteristic changes that have affected the sales price of the property.

Office Review

Given the ample resources and time required to conduct a routine field review of all properties, homogeneous properties consisting of tract housing with a low variance in sales ratios and other properties having a recent field inspection date are value reviewed in the office. Ratio reports comparing previous values against proposed and final values are generated for all residential improved and vacant properties. The dollar amount and percentage of value difference are noted for each property within a strata allowing the appraiser to identify research and resolve value anomalies before final appraised values are released. Previous values resulting from a hearing protest are individually reviewed to determine if the value remains appropriate for the current year.

Once the appraiser is satisfied with the level and uniformity of value for each strata, the adjusted estimates of value go into the computer system for notice.

PERFORMANCE TESTS

Sales Ratio Studies

The primary analytical tool used by the appraisers to measure and improve performance is the ratio study. The district ensures that the appraised values that it produces meet the standards of accuracy in several ways. Overall sales ratios are generated for each category to allow the appraiser to review general market trends and provide an indication of market appreciation over a specified period of time. The strata descriptive characteristics for each strata being updated for the current tax year. In addition to the mainframe sales ratios by category, sales ratios are generated from a PC-based statistical application in spreadsheet format to facilitate specific strata adjustment recommendations.

Management Review Process

Once the proposed value estimates are finalized, the appraiser reviews the sales ratios by category and strata, and presents pertinent valuation data, such as, history of hearing protest, sale-to-parcel ratio, and level of appraisal to the Chief/Deputy Appraiser for final review and approval. This review includes comparison of level of value between categories and strata within and across jurisdiction lines. The primary objective of this review is to ensure that the proposed values have met preset appraisal guidelines appropriate for the tax year in question.

COMMERCIAL PROPERTY VALUATION

INTRODUCTION

Appraisal Responsibility

This mass appraisal assignment includes all the commercially classed real property which falls within the responsibility of the commercial valuation appraisers of the Bee CAD. Commercial appraisers appraise the fee simple interest of properties according to statute. However, the affect of easements, restrictions, encumbrances, leases, contracts or special assessments are considered, as information is available, on an individual bases, as is the appraisalment of any non-exempt taxable fractional interests in real property (i.e., certain multi-family housing projects). Fractional interests or partial holdings of real property are appraised in fee simple for the whole property and divided programmatically based on their prorated interests.

Appraisal Resources

The improved real property appraisal responsibilities are often categorized according to major property types of multi-family or apartment, office, retail, warehouse and special use (i.e., hotels, hospitals and nursing homes). The appraisal district is contracted with Pritchard & Abbott, Inc. to perform the field inspections and assign improved commercial property types. The contracted appraisal firm is responsible for the land valuations.

Data

The data used by the commercial appraiser includes verified sales of vacant land and improved properties and the pertinent data obtained from each (sales price levels, capitalization rates, income multipliers, equity dividend rates, marketing period, etc.). Other data used by the appraiser includes actual income and expense data (typically obtained through the hearings process), actual contract rental data, leasing information (commissions, tenant finish, length of terms, etc.), and actual construction cost data. In addition to the actual data obtained from specific properties, market data publications are also reviewed to provide additional support for market trends.

PRELIMINARY ANALYSIS

Pilot Study

Pilot studies are utilized to test new or existing procedures or valuation modifications in a limited area (a sample of properties) of the district and are also considered whenever substantial changes are made. The appraiser implements this methodology when developing both the cost approach and income approach models.

In addition, Bee County administration and personnel interact with other assessment officials through professional trade organizations including IAAO, TAAD, TAAO, and TRCA.

VALUATION APPROACH

Area Analysis

Data on regional economic forces such as demographic patterns, regional location factors, employment and income patterns, general trends in real property prices and rents, interest rate trends, availability of vacant land, and construction trends and

costs are collected from private vendors, public sources and continuing education in the form of IAAO, TAAO, and TAAD courses, as available.

Neighborhood Analysis

The neighborhood is comprised of the land area and commercially classed properties located within the boundaries of this appraisal district. This area consists of a wide variety of property types including residential, commercial, and industrial. Neighborhood analysis involves the examination of how physical, economic, governmental, and social forces and other influences may affect property values. The effects of these forces may also be used to identify, classify, and organize comparable properties into smaller, manageable subsets of the universe of properties known as neighborhoods. In the mass appraisal of commercial properties these subsets of a universe of properties can be generally referred to as market classes or economic types.

Economic types are defined by each of the improved property use types (apartment, office, retail, warehouse, and special use) based on an analysis of similar economic or market forces. These include, but are not limited to, similarities of rental rates, classification of projects (known as building class by area commercial market experts), date of construction, overall market activity or other pertinent influences. Economic type identification and delineation by each major property use type is the benchmark of the commercial valuation system. All income model valuation (income approach to value estimates) is economic type specific. Economic types are periodically reviewed to determine if re-delineation is required. The geographic boundaries as well as income, occupancy and expense levels and capitalization rates by age within each economic type for all commercial use types and its corresponding income model may be found in the Marshall and Swift Commercial Valuation Manual.

Highest and Best Use Analysis

The highest and best use is the most reasonable and probable use that generates the highest present value of the real estate as of the date of valuation. The highest and best use of any given property must be physically possible, legally permissible, financially feasible, and maximally productive. For improved properties, highest and best use is evaluated as improved and as if the site were still vacant. This assists in determining if the existing improvements have a transitional use, interim use, nonconforming use, multiple uses, speculative use, excess land, or a different optimum use if the site were vacant. For vacant tracts of land within this jurisdiction, the highest and best use is considered speculative based on the surrounding land uses. Improved properties reflect a wide variety of highest and best uses which include, but are not limited to: office, retail, apartment, warehouse, light industrial, special purpose, or interim uses. In most instances, the property's current use is the

same as its highest and best use. This analysis ensures that an accurate estimate of market value (sometimes referred to as value in exchange) is derived.

On the other hand, value in use represents the value of a property to a specific user for a specific purpose. This is significantly different than market value, which approximates market price under the following assumptions: (i) no coercion or undue influence over the buyer or seller in an attempt to force the purchase or sale, (ii) well-informed buyers and sellers acting in their own best interests, (iii) a reasonable time for the transaction to take place, and (iv) payment in cash or its equivalent.

Market Analysis

A market analysis relates directly to market forces affecting supply and demand. This study involves the relationships between social, economic, environmental, governmental, and site conditions. Current market activity including sales of commercial properties, new construction, new leases, lease rates, absorption rates, vacancies, allowable expenses (inclusive of replacement reserves), expense ratio trends, and capitalization rate studies are analyzed.

DATA COLLECTION/VALIDATION

Sources of Data

In terms of commercial sales data, Bee CAD receives a copy of the deeds recorded in Bee County that convey commercially classed properties. The deeds involving a change in commercial ownership are entered into the sales information system and researched in an attempt to obtain the pertinent sale information. Other sources of sale data include the hearings process and local, regional and national real estate and financial publications.

For those properties involved in a transfer of commercial ownership, a sale file is produced which begins the research and verification process. The initial step in sales verification involves a computer-generated questionnaire, which is mailed to both parties in the transaction (Buyer and Seller). If the sales information is not obtained, other sources are contacted such as the brokers involved in the sale, property managers or commercial vendors. In other instances, sales verification is obtained from local appraisers or others that may have the desired information. Finally, closing statements are often provided during the hearings process. The actual closing statement is the most reliable and preferred method of sales verification.

VALUATION ANALYSIS

Model calibration involves the process of periodically adjusting the mass appraisal formulas, tables, and schedules to reflect current local market conditions. Once the models have undergone the specification process, adjustments can be made to reflect new construction procedures, materials and/or costs, which can vary from year to year. The basic structure of a mass appraisal model can be valid over an extended period of time, with trending factors utilized for updating the data to the current market conditions. However, at some point, if the adjustment process becomes too involved, the model calibration technique can mandate new model specifications or a revised model structure.

Cost Schedules

The cost approach to value is applied to all improved real property utilizing the comparative unit method. This methodology involves the utilization of national cost data reporting services as well as actual cost information on comparable properties whenever possible. Cost models are typically developed based on the Marshall Swift Valuation Service. Cost models include the derivation of replacement cost new (RCN) of all improvements. These include comparative base rates, per unit adjustments and lump sum adjustments. This approach also employs the sales comparison approach in the valuation of the underlying land value. Time and location modifiers are necessary to adjust cost data to reflect conditions in a specific market and changes in costs over time. Because a national cost service is used as a basis for the cost models, location modifiers are necessary to adjust these base costs specifically for Bee County. These modifiers are provided by the regional modifiers in Marshall Swift Valuation Service. Additional modifiers, derived from local commercial, are applied as available.

Depreciation schedules are developed based on what is typical for each property type at that specific age. Depreciation schedules have been implemented for what is typical of each major class of commercial property by economic life categories. Schedules have been developed for improvements with various expected economic lives as recommended by Marshall & Swift Valuation Services. These schedules are then tested to ensure they are reflective of current market conditions. Effective age estimates are based on the utility of the improvements relative to where the improvement lies on the scale of its total economic life and its competitive position in the marketplace.

Market adjustment factors such as external and/or functional obsolescence can be applied if warranted. A depreciation calculation override can be used if the condition or effective age of a property varies from the norm by appropriately noting the physical condition and functional utility ratings on the property data characteristics. These adjustments are typically applied to a specific property type or location and can be developed via ratio studies or other market analyses. Accuracy in the

development of the cost schedules, condition ratings and depreciation schedules will usually minimize the necessity of this type of an adjustment factor.

Income consideration

An income approach to value is attempted on all commercial property and applied to those properties for which the income methodology is considered a leading value indicator. The first step in the income approach pertains to the estimation of market rent on a per unit basis. This is derived primarily from actual rent data furnished by property owners and from local market study publications. This per unit rental rate multiplied by the number of units results in the estimate of potential gross rent.

A vacancy and collection loss allowance is the next item to consider in the income approach. The projected vacancy and collection loss allowance is established from actual data furnished by property owners and on local market publications. This allowance accounts for periodic fluctuations in occupancy, both above and below an estimated stabilized level. The market derived stabilized vacancy and collection loss allowance is subtracted from the potential gross rent estimate to yield an effective gross rent.

Next a secondary income or service income is calculated as a percentage of stabilized effective gross rent. Secondary income represents parking income, escalations, reimbursements, and other miscellaneous income generated by the operations of real property. The secondary income estimate is derived from actual data collected and available market information. The secondary income estimate is then added to effective gross rent to arrive at an effective gross income, where appropriate.

Allowable expenses and expense ratio estimates are based on a study of the local market, with the assumption of prudent management. Different expense ratios are developed for different types of commercial property based on use. For instance, retail properties are sometimes leased on a triple-net basis, whereby the tenant is responsible for his pro-rata share of taxes, insurance, and common area maintenance. In comparison, a general office building is sometimes leased on a base year expense stop. This lease type stipulates that the owner is responsible for all expenses incurred during the first year of the lease. However, any amount in excess of the total per unit expenditure in the first year is the responsibility of the tenant. Under this scenario, if the total operating expense in year one (1) equates to \$8.00 per square foot, any increase in expense over \$8.00 per square foot throughout the remainder of the lease term would be the responsibility of the tenant. As a result, expense ratios are implemented based on the predominant arrangement for each type of commercial property within the appraisal district.

Another form of allowable expense is the replacement of short-lived items (such as roof or floor coverings, air conditioning or major mechanical equipment or appliances) requiring expenditures of large lump sums. When these capital expenditures are analyzed for consistency and adjusted, they may be applied on an annualized basis as stabilized expenses. When performed according to local market practices by commercial property type, these expenses when annualized are known as replacement reserves.

Subtracting the allowable expenses (inclusive of replacement reserves where appropriate) from the effective gross income yields an estimate of net operating income.

Rates and multipliers are used to convert income into an estimate of market value. These include income multipliers, overall capitalization rates, and discount rates. Each of these is used in specific applications. Rates and multipliers also vary between property types, as well as by location, quality, condition, design, age, and other factors. Therefore, application of the various rates and multipliers must be based on a thorough analysis of the market.

Capitalization analysis is used in the income approach models. This methodology involves the capitalization of net operating income as an indication of market value for a specific property. Capitalization rates, both overall (going-in) cap rates for the direct capitalization method and terminal cap rates for discounted cash flow analyses, can be derived from the market. Sales of improved properties from which actual income and expense data are obtained provide a very good indication of what a specific market participant is requiring from an investment at a specific point in time. In addition, overall capitalization rates can be derived from the built-up method (band-of-investment). This method relates to satisfying the market return requirements of both the debt and equity positions of a real estate investment. This information is obtained from real estate and financial publications.

Rent loss concessions are made on specific properties with vacancy problems. A rent loss concession accounts for the impact of lost rental income while the building is moving toward stabilized occupancy. The rent loss is calculated by multiplying the rental rate by the percent difference of the property's stabilized occupancy and its actual occupancy. Build-out allowances (for first generation space or retrofit/second generation space as appropriate) and leasing expenses are added to the rent loss estimate. The total adjusted loss from these real property operations is discounted using an acceptable risk rate. The discounted value (inclusive of rent loss due to extraordinary vacancy, build-out allowances and leasing commissions) becomes the rent loss concession and is deducted from the value indication of the property at stabilized occupancy. A variation of this technique allows that for every year that the property's actual occupancy is less than stabilized occupancy a rent loss deduction may be estimated.

Income approach values are calculated for all commercial and multi-family residential properties using locally determined income, expense, and cap rate data. This data is augmented with information from industry information.

Sales Comparison (Market) Approach

Although all three of the approaches to value are based on market data, the Sales Comparison Approach is most frequently referred to as the Market Approach. This approach is utilized not only for estimating land value but also in comparing sales of similarly improved properties to each parcel on the appraisal roll. As previously discussed in the Data Collection/Validation section of this report, pertinent data from actual sales of properties, both vacant and improved, is pursued throughout the year in order to obtain relevant information that can be used in all aspects of valuation. Sales of similarly improved properties can provide a basis for the depreciation schedules in the Cost Approach, rates and multipliers used in the Income Approach, and as a direct comparison in the Sales Comparison Approach. Improved sales are also used in ratio studies, which afford the appraiser an excellent means of judging the present level and uniformity of the appraised values. In a market with limited relevant sales, ratio studies of sold properties sale values to cost derived RCN less depreciation indicates a local commercial market modifier to cost derived schedules.

Final Valuation Schedules

Based on the market data analysis and review discussed previously in the cost, income and sales approaches, the cost and income models are calibrated and finalized. The calibration results are keyed to the schedules and models on the CAMA system for utilization on all commercial properties in the district. The schedules and models are summarized in the Appraisal Manual. This manual is provided to appraisers and is made available to the public in an easy to understand format.

Statistical and Capitalization Analysis

Statistical analysis of final values is an essential component of quality control. This methodology represents a comparison of the final value against the standard and provides a concise measurement of the appraisal performance. Statistical comparisons of many different standards are used including sales of similar properties, the previous year's appraised value, audit trails, value change analysis and sales ratio analysis.

Appraisal statistics of central tendency and dispersion generated from sales ratios are available for each property category. These summary statistics including, but not limited to, the weighted mean, standard deviation, and coefficient of dispersion,

provide the appraisers an analytical tool by which to determine both the level and uniformity of appraised value of a particular property type. The level of appraised values can be determined by the weighted mean for individual properties within a specific type, and a comparison of weighted means can reflect the general level of appraised value. Review of the standard deviation and the coefficient of variation can discern appraisal uniformity within a specific property category.

The appraisers review every commercial property type annually through the sales ratio analysis process. The first phase involves ratio studies that compare the recent sales prices of properties to the appraised values of the sold properties. This set of ratio studies affords the appraiser an excellent means of judging the present level of appraised value and uniformity of the appraised values. The appraiser makes a preliminary decision, based on the sales ratio statistics and designated parameters for valuation update, as to whether the value level of a particular property type needs to be updated in an upcoming reappraisal, or whether the level of market value is at an acceptable level.

Potential gross rent estimates, occupancy levels, secondary income, allowable expenses (inclusive of replacement reserves as appropriate), net operating income and capitalization rate and multipliers are continuously reviewed utilizing frequency distribution methods or other statistical procedures or measures. Income model conclusions are compared to actual information obtained on individual commercial properties during the hearings process as well as information from published sources and area vendors.

INDIVIDUAL VALUE REVIEW PROCEDURES

Field Review

The date of last inspection, extent of that inspection, and the appraiser responsible are listed in the CAMA system. If a property owner disputes the District's records concerning this data in a protest hearing, CAMA may be altered based on the outcome of the hearing. Often, a new field check is then requested to verify this evidence for the current year's valuation or for the next year's valuation. In addition, if a building permit is filed for a particular property indicating a change in characteristics, that property is added to a work file. Finally, even though every property cannot be inspected each year, approximately 1/3 of the county appraisal district properties are inspected annually to verify current characteristics and make appropriate adjustments.

Once the appraiser is satisfied with the level and uniformity of value for each property within their area of responsibility, the estimates of value go to noticing. Each parcel is subjected to the value parameters appropriate for its use type. If one

of the parcel's component values, land value, improvement value or total value exceeds the permissible change in value range it "fails the value edits." In this case, the parcel does not shift to noticing, but it is placed on a rework list. Therefore, although the value estimates are determined in a computerized mass appraisal environment, value edits and rework lists enable an individual parcel review of value anomalies before the estimate of value is released for noticing.

PERFORMANCE TESTS

The primary tool used to measure mass appraisal performance is the ratio study. A ratio study compares appraised values to market values. In a ratio study, market values (value in exchange) are typically represented by sales prices (i.e., sales ratio study). Independent, expert appraisals may also be used to represent market values in a ratio study (i.e., appraisal ratio study). If there are not enough sales to provide necessary representativeness, independent appraisals can be used as indicators for market value. This can be particularly useful for commercial, warehouse or industrial real property for which sales are limited. In addition, appraisal ratio studies can be used for properties statutorily not appraised at market value, but reflect the use-value requirement. An example of this are multi-family housing projects subject to subsidized rent provisions or other governmental guarantees as provided by legislative statutes (affordable housing) or agricultural lands to be appraised on the basis of productivity or use value.

The Bee CAD has adopted the policies of the IAAO STANDARD ON RATIO STUDIES, circa 2013, https://www.iaao.org/media/standards/Standard_on_Ratio_Studies.pdf regarding its ratio study standards and practices. Ratio studies generally have six basic steps: (1) determination of the purpose and objectives, (2) data collection and preparation, (3) comparing appraisal and market data, (4) stratification, (5) statistical analysis, and (6) evaluation and application of the results.

Sales Ratio Studies

Sales ratio studies are an integral part of establishing equitable and accurate market value estimates, and ultimately assessments for this taxing jurisdiction. The primary uses of sale ratio studies include the determination of a need for general reappraisal; prioritization of selected groups of property types for reappraisal; identification of potential problems with appraisal procedures; assistance in market analyses; and calibration of models used to derive appraised values during valuation or reappraisal cycles. However, these studies cannot be used to judge the accuracy of an individual property appraised value. The Bee County Appraisal Review Board may make individual value adjustments based on unequal appraisal (ratio) protest evidence submitted on a case-by-case basis during the hearing process.

Overall sales ratios are generated by use type semi-annually (or more often in specific areas) to allow appraisers to review general market trends in their area of responsibility. The appraisers utilize desktop applications such as Microsoft ACCESS and EXCEL and P&A Data Hosting system specific programs to evaluate subsets of data by economic area or a specific and unique data item. On the desktop, these may be customized and performed by building class and age basis. In many cases, field checks may be conducted to ensure the ratios produced are accurate and the appraised values utilized are based on accurate property data characteristics. These ratio studies aid the appraisers by providing an indication of market activity by economic area or changing market conditions (appreciation or depreciation).

BUSINESS PERSONAL PROPERTY VALUATION

INTRODUCTION

Appraisal Responsibility

There are four different personal property types appraised by the District's personal property section: Business Personal Property accounts; Leased Assets; Vehicles; and Multi-Location Assets. A common set of data characteristics for each personal property account in Bee CAD is collected in the field and data entered into the district's computer system.

VALUATION APPROACH

Highest and Best Use Analysis

The highest and best use of property is the reasonable and probable use that supports the highest present value as of the date of the appraisal. The highest and best use must be physically possible, legal, financially feasible, and productive to its maximum. The highest and best use of personal property is normally its current use.

DATA COLLECTION/VALIDATION

Data Collection Procedures

Personal property data collection procedures are published and distributed to all appraisers involved in the appraisal and valuation of personal property. The appraisal procedures are reviewed and revised to meet the changing requirements of field data collection.

SOURCES OF DATA

Business Personal Property

The District's property characteristic data was originally received from Bee County and various school district records in 1980, and where absent, collected through a massive field data collection effort coordinated by the district over a period of time. When revaluation activities permit, district appraisers collect new data via an annual field drive-out. This project results in the discovery of new businesses not revealed through other sources. Various discovery publications such as the assumed names, newspaper ads, yellow pages of the telephone directory and state sales tax listings are also used to discover personal property. Tax assessors, city and local newspapers, and the public often provide the district information regarding new personal property and other useful facts related to property valuation.

Vehicles

An outside vendor provides Bee CAD with a listing of vehicles within Bee County. The vendor develops this listing from the Texas Department of Transportation (DOT) Title and Registration Division records. Other sources of data include property owner renditions and field inspections.

Leased and Multi-Location Assets

The primary source of leased and multi-location assets is the property owner renditions of property. Other sources of data include field inspections.

VALUATION AND STATISTICAL ANALYSIS

Cost Schedules

Due to lack of viable information within the district, the appraisal district staff relies largely upon the Guide issued by the Comptroller of Public Accounts. A local modifier is developed and applied to the Guide, where applicable.

Statistical Analysis

Summary statistics including, but not limited to, the median, weighted mean, and standard deviation provide the appraisers an analytical tool by which to determine both the level and uniformity.

Depreciation Schedule and Trending Factors

Business Personal Property

Bee CAD's primary approach to the valuation of business personal property is the review of renditions and, where renditions appear to be inconsistent with observation upon physical inspection, the State Property Tax Division pricing schedules are used.

Vehicles

Value estimates for vehicles are provided by an outside vendor and are based on NADA published book values. An appraiser using published guides values vehicles that are not valued by the vendor.

Leased and Multi-Location Assets

Leased and multi-location assets are valued using the published pricing guides. If the asset to be valued in this category is a vehicle, the NADA published book values are used. An appraiser using published guides values assets that are not valued by the vendor.

INDIVIDUAL VALUE REVIEW PROCEDURES

Office Review

Business Personal Property

Property owner renditions, accounts with field or other data changes, accounts with prior hearings, new accounts, and SIC cost table changes are all considered.

Vehicles

A vehicle master file is received in paper or electronic form from an outside vendor and vehicles in the district's system to current DOT records. The vehicles remaining after the matching process are sorted by owner name. These vehicles are then matched to existing accounts and new accounts are created as needed. Vehicles that are not valued by the vendor are valued by an appraiser or published guides.

Leased and Multi-Location Assets

Leasing and multi-location accounts, rendered by hard copy, are either data entered by the appraisers or CAD appraisal support staff

After matching and data entry, reports are generated and reviewed by an appraiser. Once proofed, the report is then mailed to the property owner for review via Notices of Value in May of each year.

PERFORMANCE TESTS

Ratio Studies

Business Personal Property, while subject to the Property Tax Division's annual PVS review, is valued on a case by case basis using the property owner's rendition or the locally adjusted state cost guide. Statistical Ratio Analysis is immaterial.


LIMITING CONDITIONS

The appraised value estimates provided by the district are subject to the following conditions:

1. The appraisals were prepared exclusively for ad valorem tax purposes.
2. The property characteristics data upon which the appraisals are based is assumed to be correct. Exterior inspections of the property appraised were performed as staff resources and time allowed.
3. Validation of sales transactions are attempted through questionnaires to buyer and seller, telephone survey and field review, MLS sales listings (when available) and other services. In the absence of such confirmation, residential sales data obtained from vendors was considered reliable.
4. I have attached a list of staff providing significant mass appraisal assistance to the person signing this certification.

Certification Statement

"I, Richard Petree, Chief Appraiser for the Bee County Appraisal District of Bee County, solemnly swear that I have made or caused to be made a diligent inquiry to ascertain all property in the district subject to appraisal by me, and that I have included in the records all property that I am aware of at an appraised value which, to the best of my knowledge and belief, was determined as required by law."



Richard Petree, Interim Chief Appraiser
Bee County Appraisal District

BEE COUNTY APPRAISAL DISTRICT STAFF

<u>NAME</u>	<u>TITLE</u>	<u>TDLR NUMBER</u>
Richard Petree	Interim Chief Appraiser	#16308
Deb Castaldo	Assistant Chief Appraiser	#76820
Gabbie Gonzales	Lead Clerk	#77065
Melissa Pratz	Deed & Records Admin Clerk	
Minnie Reyes	Mapping / Exemption Clerk	#77755
Renee Guererro	Exemption / ARB Clerk	#77756

PRITCHARD & ABBOTT APPRAISAL STAFF

<u>NAME</u>	<u>TDLR NUMBER</u>
Troy Draper	#67954
Connie Raymond	#69293
Angelica Harless	#77368
Scott Ensminger	#73626