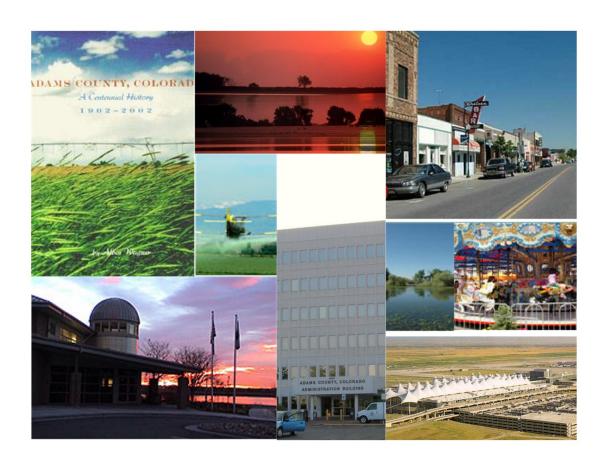


ADAMS COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2019

Ms. Natalie Mullis Director of Research Colorado Legislative Council Room 029, State Capitol Building Denver, Colorado 80203

RE: Final Report for the 2019 Colorado Property Assessment Study

Dear Ms. Mullis:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2019 Colorado Property Assessment Study.

These reports are the result of two analyses: A procedural audit and a statistical audit.

The procedural audit examines all classes of property. It specifically looks at how the assessor develops economic areas, confirms and qualifies sales, develops time adjustments and performs periodic physical property inspections. The audit reviews the procedures for determining subdivision absorption and subdivision discounting. Valuation methodology is examined for residential properties and commercial properties. Procedures are reviewed for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests, and non-producing patented mining claims.

Statistical audits are performed on vacant land, residential properties, commercial/industrial properties and agricultural land. A statistical analysis is performed for personal property compliance on the eleven largest counties: Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo and Weld. The remaining counties receive a personal property procedural study.

Wildrose Appraisal Inc. – Audit Division appreciates the opportunity to be of service to the State of Colorado. Please contact us with any questions or concerns.

Harry J. Fuller Project Manager

Harry J. Zulln

Wildrose Appraisal Inc. - Audit Division



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INTRODUCTION



The State Board of Equalization (SBOE) reviews assessments for conformance to the Constitution. The SBOE will order revaluations for counties whose valuations do not reflect the proper valuation period level of value.

The statutory basis for the audit is found in C.R.S. 39-1-104 (16)(a)(b) and (c).

The legislative council sets forth two criteria that are the focus of the audit group:

To determine whether each county assessor is applying correctly the constitutional and statutory provisions, compliance requirements of the State Board of Equalization, and the manuals published by the State Property Tax Administrator to arrive at the actual value of each class of property.

To determine if each assessor is applying correctly the provisions of law to the actual values when arriving at valuations for assessment of all locally valued properties subject to the property tax.

The property assessment audit conducts a two-part analysis: A procedural analysis and a statistical analysis.

The procedural analysis includes all classes of property and specifically looks at how the assessor develops economic areas, confirms and qualifies sales, and develops time adjustments. The audit also examines the procedures for adequately discovering, classifying and valuing agricultural outbuildings, discovering subdivision build-out subdivision discounting procedures. Valuation methodology for vacant land, improved properties commercial residential and properties is examined. Procedures for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests and non-producing patented mining claims are also reviewed.

Statistical analysis is performed on vacant land, residential properties, commercial industrial properties, agricultural land, and personal property. The statistical study results are compared with State Board of Equalization compliance requirements and the manuals published by the State Property Tax Administrator.

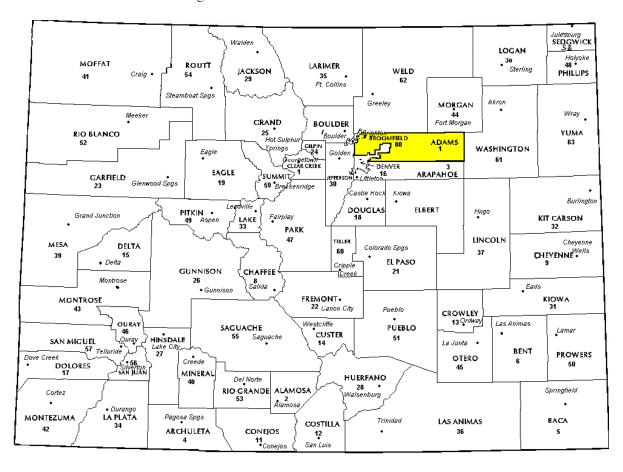
Wildrose Audit has completed the Property Assessment Study for 2019 and is pleased to report its findings for Adams County in the following report.



REGIONAL/HISTORICAL SKETCH OF ADAMS COUNTY

Regional Information

Adams County is located in the Front Range region of Colorado. The Colorado Front Range is a colloquial geographic term for the populated areas of the State that are just east of the foothills of the Front Range. It includes Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, El Paso, Jefferson, Larimer, Pueblo, and Weld counties.





Historical Information

Adams County had an estimated population of approximately 498,187 people with 426.5 people per square mile, according to the U.S. Census Bureau's 2016 estimated census data. This represents a 12.8 percent change from April 1, 2010 to July 1, 2016.

Adams County is the fifth most populous of the 64 counties of the State of Colorado. It is named for Alva Adams, Governor of the State of Colorado 1887-1889, 1897-1899, and 1905. The county seat is Brighton.

On May 30, 1854, the Kansas-Nebraska Act created the Territory of Nebraska and Territory of Kansas, divided by the Parallel 40° North (168th Avenue in present-day Adams County). The future Adams County, Colorado, occupied a strip of northern Arapahoe County, Kansas Territory, immediately south of the Nebraska Territory.

In 1859, John D. "Colonel Jack" Henderson built a ranch, trading post, and hotel on Henderson Island in the South Platte River in Arapahoe County, Kansas Territory. Henderson was the former editor proprietor of the Leavenworth Territory) Journal and an outspoken proslavery politician who had been accused of vote fraud in eastern Kansas. Henderson sold meat and provisions to gold seekers on their way up the South Platte River Trail to the gold fields during the Pike's Peak Gold Rush. Henderson Island was the first permanent settlement in the South Platte River Valley between Fort Saint Vrain in the Nebraska Territory and the Cherry Creek Diggings in the Kansas Territory. Jack Henderson eventually returned to eastern Kansas and (ironically) fought for the Union in the American Civil War. Henderson Island is today the site of the Adams County Regional Park and Fairgrounds.

The eastern portion of the Kansas Territory was admitted to the Union as the State of Kansas on January 29, 1861, and on February 28, 1861, the remaining western portion of the territory was made part of the new Colorado Territory. The Colorado Territory created Arapahoe County, on November 1, 1861, and Colorado was admitted to the Union on August 1, 1876.

In 1901, the Colorado General Assembly voted to split Arapahoe County into three parts: a new Adams County, a new consolidated City and County of Denver, and the remainder of the Arapahoe County to be renamed South Arapahoe County. A ruling by the Colorado Supreme Court, subsequent legislation, and a referendum delayed the creation of Adams County until November 15, 1902. Governor James Bradley Orman designated Brighton as the temporary Adams County Seat. Adams County originally stretched 160 miles from present-day Sheridan Boulevard to the Kansas state border. On May 12, 1903, the eastern 88 miles of Adams County was transferred to the new Washington County and the new Yuma County, reducing the length of Adams County to the present 72 miles. On November 8, 1904, Adams County voters chose Brighton as the permanent county seat.

A 1989 vote transferred 53 square miles of Adams County to the City and County of Denver for the proposed Denver International Airport, leaving the densely populated western portion of the county as two oddly-shaped peninsulas. Adams County lost the tip of its northwest corner when the consolidated City and County of Broomfield was created on November 15, 2001. (Wikipedia.org)



RATIO ANALYSIS

Methodology

All significant classes of property were analyzed. Sales were collected for each property class over the eighteen month period from January 1, 2017 through June 30, 2018. Property classes with less than thirty sales had the sales period extended in six month increments up to an additional forty-two months. If this extended sales period did not produce the minimum thirty qualified sales, the Audit performed supplemental appraisals to reach the minimum.

Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and price-related differential for each class of property. Counties were not passed or failed by these latter measures, but were counseled if there were anomalies noted during our analysis. Qualified sales were based on the qualification code used by each county, which were typically coded as either "Q" or "C." The ratio analysis included all sales. The data was trimmed for counties with obvious outliers using IAAO standards for data analysis. In

every case, we examined the loss in data from trimming to ensure that only true outliers were excluded. Any county with a significant portion of sales excluded by this trimming method was examined further. No county was allowed to pass the audit if more than 5% of the sales were "lost" because of trimming.

All sixty-four counties were examined for compliance on the economic area level. Where there were sufficient sales data, the neighborhood and subdivision levels were tested for compliance. Although counties are determined to be in or out of compliance at the class level, non-compliant economic areas, neighborhoods and subdivisions (where applicable) were discussed with the Assessor.

Data on the individual economic areas, neighborhoods and subdivisions are found in the Statistical Appendix.

Conclusions

For this final analysis report, the minimum acceptable statistical standards allowed by the State Board of Equalization are:

ALLOWABLE STANDARDS RATIO GRID					
Property Class	Unweighted Median Ratio	Coefficient of Dispersion			
Commercial/Industrial	Between .95-1.05	Less than 20.99			
Condominium	Between .95-1.05	Less than 15.99			
Single Family	Between .95-1.05	Less than 15.99			
Vacant Land	Between .95-1.05	Less than 20.99			



The results for Adams County are:

Adams County Ratio Grid							
Number of Unweighted Price Coefficient Qualified Median Related of Time Tre Property Class Sales Ratio Differential Dispersion Analy							
Commercial/Industrial	246	1.002	1.085	9.6	Compliant		
Condominium	N/A	N/A	N/A	N/A	N/A		
Single Family	19,325	0.993	1.012	5.2	Compliant		
Vacant Land	134	0.987	1.029	9.1	Compliant		

After applying the above described methodologies, it is concluded from the sales ratios that Adams County is in compliance with

SBOE, DPT, and Colorado State Statute valuation guidelines.

Recommendations



TIME TRENDING VERIFICATION

Methodology

While we recommend that counties use the inverted ratio regression analysis method to account for market (time) trending, some counties have used other IAAO-approved methods, such as the weighted monthly median approach. We are not auditing the methods used, but rather the results of the methods used. Given this range of methodologies used to account for market trending, we concluded that the best validation method was to examine the sale ratios for each class across the appropriate sale period. To be specific, if a county has considered and adjusted correctly for market trending, then the sale ratios should remain stable (i.e. flat) across the sale period. If a residual market trend is detected, then the county may or may not have addressed market

trending adequately, and a further examination is warranted. This validation method also considers the number of sales and the length of the sale period. Counties with few sales across the sale period were carefully examined to determine if the statistical results were valid.

Conclusions

After verification and analysis, it has been determined that Adams County has complied with the statutory requirements to analyze the effects of time on value in their county. Adams County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations



SOLD/UNSOLD ANALYSIS

Methodology

Adams County was tested for the equal treatment of sold and unsold properties to ensure that "sales chasing" has not occurred. The auditors employed a multi-step process to determine if sold and unsold properties were valued in a consistent manner.

We test the hypothesis that the assessor has valued unsold properties consistent with what is observed with the sold properties based on several units of comparison and tests. units of comparison include the actual value per square foot and the change in value from the previous base year period to the current base year. The first test compares the actual value per square foot between sold and unsold properties by class. The median and mean value per square foot is compared and tested for any significant difference. This is tested using non-parametric methods, such as the Mann-Whitney test for differences in the distributions or medians between sold and unsold groups. It is also examined graphically and from an appraisal perspective. Data can be stratified based on location and subclass. The second test compares the difference in the median change in value from the previous base year to the current base year between sold and unsold properties by class. The same combination of non-parametric and appraisal testing is used as with the first test. A third test employing a valuation model testing a sold/unsold binary variable while controlling for property attributes such as location, size, age and other attributes. determines if the sold/unsold variable is statistically and empirically significant. three tests indicate a significant difference between sold and unsold properties for a given class, the Auditor may meet with the county to determine if sale chasing is actually occurring,

or if there are other explanations for the observed difference.

If the unsold properties have a higher median value per square foot than the sold properties, or if the median change in value is greater for the unsold properties than the sold properties, the analysis is stopped and the county is concluded to be in compliance with sold and unsold guidelines. All sold and unsold properties in a given class are first tested, although properties with extreme unit values or percent changes can be trimmed to stabilize the analysis. The median is the primary comparison metric, although the mean can also be used as a comparison metric if the distribution supports that type of measure of central tendency.

The first test (unit value method) is applied to both residential and commercial/industrial sold and unsold properties. The second test is applied to sold and unsold vacant land properties. The second test (change in value method) is also applied to residential or commercial sold and unsold properties if the first test results in a significant difference observed and/or tested between sold and unsold properties. The third test (valuation modeling) is used in instances where the results from the first two tests indicate a significant difference between sold and unsold properties. It can also be used when the number of sold and unsold properties is so large that the nonparametric testing is indicating a false rejection of the hypothesis that there is no difference between the sold and unsold property values.

These tests were supported by both tabular and graphics presentations, along with written documentation explaining the methodology used.



Sold/Unsold Re	esults
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	Compliant

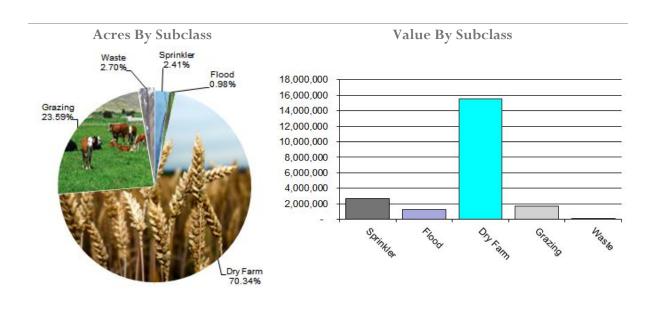
Conclusions

After applying the above described methodologies, it is concluded that Adams County is reasonably treating its sold and unsold properties in the same manner.

Recommendations



AGRICULTURAL LAND STUDY



Agricultural Land

County records were reviewed to determine major land categories such as irrigated farm, dry farm, meadow hay, grazing and other lands. In addition, county records were reviewed in order to determine if: photographs are available and are being used; soil conservation guidelines have been used to classify lands based on productivity; crop rotations have been documented; typical commodities and yields have been determined; orchard lands have been properly classified and valued; expenses reflect a ten year average and are typical landlord expenses; grazing lands have been properly classified and valued; the number of acres in each class and subclass have been determined; the capitalization rate was properly applied. Also, documentation was required for the valuation methods used and any locally developed yields, carrying capacities, and expenses. Records were also checked to ensure that the commodity prices and expenses, furnished by the Property Tax Administrator (PTA), were applied properly.

(See Assessor Reference Library Volume 3 Chapter 5.)

Conclusions

An analysis of the agricultural land data indicates an acceptable appraisal of this property type. Directives, commodity prices and expenses provided by the PTA were properly applied. County yields compared favorably to those published by Colorado Agricultural Statistics. Expenses used by the county were allowable expenses and were in an acceptable range. Grazing lands carrying capacities were in an acceptable range. The data analyzed resulted in the following ratios:



	Adams County Agricultural Land Ratio Grid						
Abstract	Number County County WRA Abstract Of Value Assessed Total						
Code	Land Class	Acres	Per Acre	Total Value	Value	Ratio	
4107	Sprinkler	13,494	197.71	2,667,945	2,586,907	1.03	
4117	Flood	5,485	233.86	1,282,706	1,295,915	0.99	
4127	Dry Farm	394,562	39.28	15,497,060	15,450,042	1.00	
4147	Grazing	132,310	13.06	1,733,562	1,728,540	1.00	
4167	Waste	15,123	2.32	35,086	36,082	0.97	
Total/Avg		560,975	37.82	21,216,360	21,097,485	1.01	

Recommendations

None

Agricultural Outbuildings

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.74 through 5.77 were being followed.

Conclusions

Adams County has substantially complied with the procedures provided by the Division of Property Taxation for the valuation of agricultural outbuildings.

Recommendations



Agricultural Land Under Improvements

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.19 and 5.20 were being followed.

Conclusions

Adams County has used the following methods to discover land under a residential improvement on a farm or ranch that is determined to be not integral under 39-1-102, C.R.S.:

- Questionnaires
- Field Inspections
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Adams County has used the following methods to discover the land area under a residential improvement that is determined to be not integral under 39-1-102, C.R.S.:

- Property Record Card Analysis
- Questionnaires
- Field Inspections
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Adams County has substantially complied with the procedures provided by the Division of Property Taxation for the valuation of land under residential improvements that may or may not be integral to an agricultural operation.

Recommendations



SALES VERIFICATION

According to Colorado Revised Statutes:

A representative body of sales is required when considering the market approach to appraisal.

(8) In any case in which sales prices of comparable properties within any class or subclass are utilized when considering the market approach to appraisal in the determination of actual value of any taxable property, the following limitations and conditions shall apply:

(a)(I) Use of the market approach shall require a representative body of sales, including sales by a lender or government, sufficient to set a pattern, and appraisals shall reflect due consideration of the degree of comparability of sales, including the extent of similarities and dissimilarities among properties that are compared for assessment purposes. In order to obtain a reasonable sample and to reduce sudden price changes or fluctuations, all sales shall be included in the sample that reasonably reflect a true or typical sales price during the period specified in section 39-1-104 (10.2). Sales of personal property exempt pursuant to the provisions of sections 39-3-102, 39-3-103, and 39-3-119 to 39-3-122 shall not be included in any such sample.

(b) Each such sale included in the sample shall be coded to indicate a typical, negotiated sale, as screened and verified by the assessor. (39-1-103, C.R.S.)

The assessor is required to use sales of real property only in the valuation process.

(8)(f) Such true and typical sales shall include only those sales which have been determined on an individual basis to reflect the selling price of the real property only or which have been adjusted on an individual basis to reflect the selling price of the real property only. (39-1-103, C.R.S.)

Part of the Property Assessment Study is the sales verification analysis. WRA has used the above-cited statutes as a guide in our study of the county's procedures and practices for verifying sales.

WRA reviewed the sales verification procedures in 2019 for Adams County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 56 sales listed as unqualified.

All but two of the sales selected in the sample gave reasons that were clear and supportable. Two sales had insufficient reason for disqualification.

For residential, commercial, and vacant land sales with considerations over \$100,000, the contractor has examined and reported the ratio of qualified sales to total sales by class and performed the following analyses of unqualified sales:

The contractor has examined the manner in which sales have been classified as qualified or unqualified, including a listing of each step in the sales verification process, any adjustment procedures, and the county official responsible for making the final decision on qualification.

When less than 50 percent of sales are qualified in any of the three property classes (residential, commercial, and vacant land), the contractor analyzed the reasons for disqualifying sales in any subclass that constitutes at least 20 percent of the class, either by number



of properties or by value, from the prior year. The contractor reviewed with the assessor any analysis that sales data indicating inadequate, fail to reflect typical properties, or have been disqualified for insufficient cause. In addition, the contractor has reviewed disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis determine if the sales included in that code have been assigned appropriately.

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of unqualified sales, excluding sales that were disqualified for obvious reasons.

Adams County did not qualify for indepth subclass analysis.

Conclusions

Adams County appears to be doing a good job of verifying their sales.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

Adams County has submitted a written narrative describing the economic areas that make up the county's market areas. Adams County has also submitted a map illustrating these areas. Each of these narratives have been read and analyzed for logic and appraisal sensibility. The maps were also compared to the narrative for consistency between the written description and the map.

Conclusions

After review and analysis, it has been determined that Adams County has adequately

identified homogeneous economic areas comprised of smaller neighborhoods. Each economic area defined is equally subject to a set of economic forces that impact the value of the properties within that geographic area and this has been adequately addressed. Each economic area defined adequately delineates an area that will give "similar values for similar properties in similar areas."

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Natural Resource Valuation Procedures, the income approach was applied to determine value for production of earth and stone products. The number of tons was multiplied by an economic royalty rate determined by the Division of Property Taxation to determine income. The income was multiplied by a recommended Hoskold factor to determine the actual value. The Hoskold factor is determined by the life of the reserves or the lease. Value is based on two variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

The County has applied the correct formulas and state guidelines to earth and stone production.

Recommendations

None

Producing Oil and Gas

Methodology

Assessors Reference Library (ARL) Volume 3, Chapter 6: Valuation of Natural Resources

STATUTORY REFERENCES

Section § 39-1-103, C.R.S., specifies that producing oil or gas leaseholds and lands are valued according to article 7 of title 39, C.R.S.

Actual value determined - when.

(2) The valuation for assessment of leaseholds and lands producing oil or gas shall be determined as provided in article 7 of this title. § 39-1-103, C.R.S.

Article 7 covers the listing, valuation, and assessment of producing oil and gas leaseholds and lands.

Valuation:

Valuation for assessment.

- (1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:
- (a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;
- (b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year.

§ 39-7-102, C.R.S.

Conclusions

The county applied approved appraisal procedures in the valuation of oil and gas.

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2019 in Adams County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14) and by applying the recommended methodology in ARL Vol 3, Chap 4. Subdivision Discounting in the intervening year can be accomplished by reducing the absorption period by one year.

Conclusions

Adams County has implemented proper procedures to adequately estimate absorption periods, discount rates, and lot values for qualifying subdivisions.

Recommendations



POSSESSORY INTEREST PROPERTIES

Possessory Interest

Possessory interest property discovery and valuation is described in the Assessor's Reference Library (ARL) Volume 3 section 7 in accordance with the requirements of C.R.S. Chapter 39-1-103 (17)(a)(II)Possessory Interest is defined by the Property Tax Administrator's Publication ARL Volume 3, Chapter 7: A private property interest in government-owned property or the right to the occupancy and use of any benefit in government-owned property that has been under lease, permit, concession, contract, or other agreement.

Adams County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural and

commercial possessory interest properties. The county has also been queried as to their confidence that the possessory interest properties have been discovered and placed on the tax rolls.

Conclusions

Adams County has implemented a discovery process to place possessory interest properties on the roll. They have also correctly and consistently applied the correct procedures and valuation methods in the valuation of possessory interest properties.

Recommendations



PERSONAL PROPERTY AUDIT

Adams County was studied for its procedural compliance with the personal property assessment outlined in the Assessor's Reference Library (ARL) Volume 5, and in the State Board of Equalization (SBOE) requirements for the assessment of personal property. The SBOE requires that counties use ARL Volume 5, including current discovery, classification, documentation procedures, current economic lives table, cost factor tables, depreciation table, and level of value adjustment factor table.

The personal property audit standards narrative must be in place and current. A listing of businesses that have been audited by the assessor within the twelve-month period reflected in the plan is given to the auditor. The audited businesses must be in conformity with those described in the plan.

Aggregate ratio will be determined solely from the personal property accounts that have been physically inspected. The minimum assessment sample is one percent or ten schedules, whichever is greater, and the maximum assessment audit sample is 100 schedules.

For the counties having over 100,000 population, WRA selected a sample of all personal property schedules to determine whether the assessor is correctly applying the provisions of law and manuals of the Property Tax Administrator in arriving at the assessment levels of such property. This sample was selected from the personal property schedules audited by the assessor. In no event was the sample selected by the contractor less than 30 schedules. The counties to be included in this study are Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo, and Weld. All other counties received a procedural study.

Adams County is compliant with the guidelines set forth in ARL Volume 5 regarding discovery procedures, using the following methods to discover personal property accounts in the county:

- Public Record Documents
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth

The county uses the Division of Property Taxation (DPT) recommended classification and documentation procedures. The DPT's recommended cost factor tables, depreciation tables and level of value adjustment factor tables are also used.

Adams County submitted their personal property written audit plan and was current for the 2019 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Businesses in a selected area
- Accounts with obvious discrepancies
- New businesses filing for the first time
- Same business type or use
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts Best Information Available



Adams County's median ratio is 1.00. This is in compliance with the State Board of Equalization (SBOE) compliance requirements which range from .90 to 1.10 with no COD requirements.

Conclusions

Adams County has employed adequate discovery, classification, documentation,

valuation, and auditing procedures for their personal property assessment and is in statistical compliance with SBOE requirements.

Recommendations



WILDROSE AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

Suzanne Howard, Audit Administrative Manager

Steve Kane, Audit Statistician

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



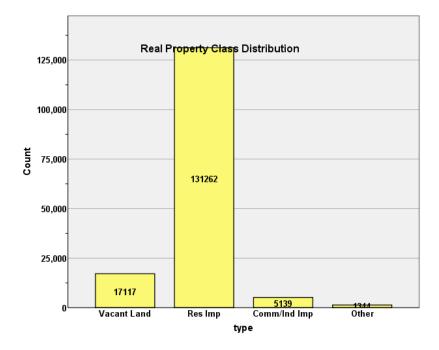
STATISTICAL APPENDIX



STATISTICAL COMPLIANCE REPORT FOR ADAMS COUNTY 2019

I. OVERVIEW

Adams County is an urban county located along Colorado's Front Range. The county has a total of 154,862 real property parcels, according to data submitted by the county assessor's office in 2019. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100) accounted for 61.2% of all vacant land parcels.

For residential improved properties, single family properties accounted for 81.9% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 3.3% of all such properties in this county.

Based on the Audit questionnaire filled out by the assessor (see below), the following geographic levels were used by the assessor to value residential, commercial and vacant land properties:



Geo Area	Residential	Comm/Ind	Vacant Land
Economic Area	1,2,3,4,5,6	N	N
Neighborhood	300.N, 530.R	N	N
Subdivision		N	V

Codes

 $V=Valid\ Geographic\ Level-used\ for\ modeling$

N = Not used as Geographic Level for modeling

Note: Residential-Above are the defined model areas used. Neighborhood and subdivision codes are used as variables within the above models, where applicable.

II. DATA FILES

The following sales analyses were based on the requirements of the 2019 Colorado Property Assessment Study. Information was provided by the Adams Assessor's Office in May 2019. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

There were 19,325 qualified residential sales for the 24-month period prior to June 30, 2018. The sales ratio analysis results were as follows:

Median	0.993
Price Related Differential	1.012
Coefficient of Dispersion	5.2

We next stratified the sale ratio analysis by economic area and neighborhood. The minimum count for the neighborhood stratification is 25 sales. The following are the results of this stratification analysis:

Economic Area Case Processing Summary

		Count	Percent
ECONAREA	1.00	524	2.7%
	2.00	4454	23.0%
	3.00	5622	29.1%
	4.00	5852	30.3%
	5.00	1395	7.2%
	6.00	1478	7.6%
Overall		19325	100.0%
Excluded		0	
Total		19325	



Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1.00	1.004	1.007	.061
2.00	.993	1.004	.043
3.00	.992	1.013	.054
4.00	.996	1.019	.051
5.00	.975	1.007	.064
6.00	.993	1.005	.056
Overall	.993	1.012	.052

Neighborhoods with 25 or more sale Case Processing Summary

		Count	Percent
NBHD	64	29	0.2%
	66	35	0.2%
	101	52	0.3%
	102	123	0.8%
	115	501	3.3%
	119	553	3.6%
	122	598	3.9%
	124	875	5.7%
	140	88	0.6%
	150	208	1.4%
	200	586	3.8%
	210	505	3.3%
	220	422	2.8%
	225	283	1.9%
	230	44	0.3%
	240	1150	7.5%
	300	746	4.9%
	400	631	4.1%
	420	1198	7.8%
	425	1611	10.6%
	430	866	5.7%
	500	285	1.9%
	520	270	1.8%
	530	2474	16.2%
	600	454	3.0%
	610	155	1.0%
	620	524	3.4%
Overall		15266	100.0%
Excluded		3981	
Total		19247	



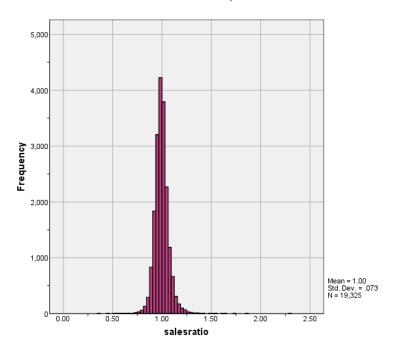
Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
64	.991	1.085	.108
66	.929	.970	.127
101	1.011	1.017	.078
102	1.000	1.003	.055
115	1.075	1.018	.086
119	.994	1.007	.065
122	.987	1.004	.056
124	.991	1.004	.047
140	1.001	1.006	.065
150	1.004	1.004	.049
200	.976	1.008	.056
210	.988	1.006	.059
220	.993	1.006	.055
225	1.002	1.008	.064
230	.998	1.004	.064
240	.991	1.004	.053
300	.990	1.004	.044
400	.990	1.003	.050
420	.992	1.003	.042
425	.986	1.000	.041
430	.988	1.002	.047
500	.977	1.002	.065
520	.955	1.005	.068
530	.993	1.003	.039
600	.994	1.014	.068
610	.999	1.002	.040
620	.998	1.002	.039
Overall	.991	1.008	.052

The above sales ratio analysis indicates that both from an overall perspective and broken down by economic area, the residential sale ratios are in compliance, with the exception of one neighborhood with 35 sales.

The following graphs describe the overall sales ratio results for Adams County:







NOTE: Scale adjusted for above chart for illustration purposes.

The above graphs indicate that the distribution of the sale ratios was within state mandated limits.



Residential Market Trend Analysis

We next analyzed the residential dataset using the 24-month sale period for any residual market trending and broken down by economic area, as follows:

Coefficients^a

			Unstandardize	d Coofficients	Standardized Coefficients		
ECONAREA	Model		B	Std. Error	Beta	t	Sig.
1.00	1	(Constant)	1.022	.007		150.969	.000
		SalePeriod	001	.001	080	-1.753	.080
2.00	1	(Constant)	.996	.002		608.488	.000
		SalePeriod	.000	.000	031	-2.074	.038
3.00	1	(Constant)	1.008	.002		533.785	.000
		SalePeriod	001	.000	088	-6.623	.000
4.00	1	(Constant)	1.004	.002		580.850	.000
		SalePeriod	.000	.000	026	-1.963	.050
5.00	1	(Constant)	.984	.005		204.537	.000
		SalePeriod	001	.000	057	-2.127	.034
6.00	1	(Constant)	1.001	.004		276.326	.000
		SalePeriod	001	.000	054	-2.076	.038

a. Dependent Variable: salesratio

There was no residual market trending present in the sale ratio data for most economic areas. While several economic areas had statistically significant results, the magnitude of each trend was not significant; we therefore concluded that the assessor has adequately addressed market trending in the valuation of residential properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2019 between each group. The data was analyzed both as a whole and broken down by economic area, as follows:

oort

VALSE				
sold	N	Median	Mean	
UNSOLD	111875	\$225	\$237	
SOLD	19324	\$224	\$235	
				_



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is to same across categories of solo	Independent- Samples he Mann- J. Whitney U Test	.012	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .01.

Report

VALSF				
ECONAREA	sold	N	Median	Mean
1.00	UNSOLD	3429	\$207	\$203
	SOLD	524	\$219	\$217
2.00	UNSOLD	17610	\$195	\$202
	SOLD	4454	\$194	\$200
3.00	UNSOLD	28364	\$219	\$224
	SOLD	5622	\$228	\$234
4.00	UNSOLD	43484	\$240	\$251
	SOLD	5851	\$231	\$250
5.00	UNSOLD	11338	\$255	\$262
	SOLD	1395	\$262	\$272
6.00	UNSOLD	7646	\$256	\$261
	SOLD	1478	\$252	\$259

We next stratified this analysis by neighborhoods with at least 20 sales, as follows:

Report

VALSF				
NBHD	sold	N	Median	Mean
64	UNSOLD	361	\$184	\$182
	SOLD	29	\$196	\$199
66	UNSOLD	227	\$184	\$182
	SOLD	35	\$179	\$185
101	UNSOLD	613	\$179	\$199
	SOLD	52	\$204	\$197
102	UNSOLD	777	\$212	\$201
	SOLD	123	\$231	\$223
115	UNSOLD	1758	\$242	\$248
	SOLD	501	\$251	\$260
119	UNSOLD	2404	\$246	\$238
	SOLD	553	\$258	\$255
122	UNSOLD	4816	\$224	\$230
	SOLD	598	\$229	\$234
124	UNSOLD	3084	\$194	\$196
	SOLD	875	\$198	\$200
140	UNSOLD	597	\$207	\$209



150		SOLD	88	\$211	\$219
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Total UNSOLD 96258 \$229 \$240		SOLD	524		-
	Total	UNSOLD	96258		
		SOLD	15266	\$227	

The above results indicate that sold and unsold residential properties were valued in a consistent manner.

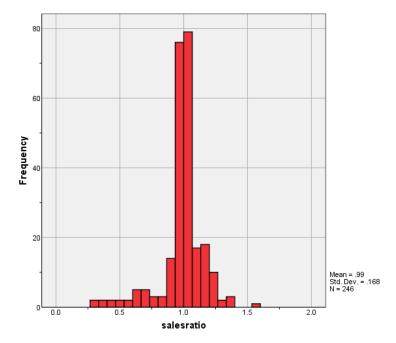


IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

There were 246 qualified commercial and industrial sales for the 24-month period ending June 30, 2018. The sales ratio analysis had the following results:

Median	1.002
Price Related Differential	1.085
Coefficient of Dispersion	9.6

The above table indicates that the Adams County commercial/industrial sale ratios were in compliance with the SBOE standards. The following histogram and scatter plot describe the sales ratio distribution further:







Commercial/Industrial Market Trend Analysis

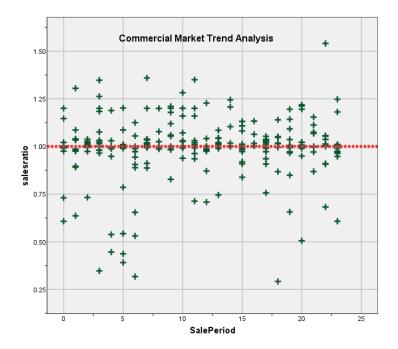
The commercial/industrial sales were next analyzed, examining the sale ratios across the 24 month sale period with the following results:

Coefficients^a

		Unstandardized		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.970	.021		46.672	.000
	SalePeriod	.002	.002	.084	1.311	.191

a. Dependent Variable: salesratio





There was no residual market trending present in the commercial/industrial sale ratios. We concluded that the assessor has adequately considered market trending adjustments as part of the commercial/industrial valuation.

Sold/Unsold Analysis

We compared the 2019 median and mean value per square feet for sold and unsold commercial/industrial properties, as follows:

Report

VALSE				
sold	N	Median	Mean	
UNSOLD	4,845	\$64	\$91	
SOLD	145	\$87	\$99	



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is to same across categories of solo	Independent- Samples he Mann- d. Whitney U Test	.000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .01.

Given that there was a marginally significant difference between sold and unsold properties, we next stratified this comparison by subclass. The following table compared sold and unsold commercial/industrial properties for subclasses with at least 1 sale:

Report VALSE				
ABSTRIMP	sold	N	Median	Mean
2212.00	UNSOLD	1293	\$113	\$166
	SOLD	72	\$158	\$175
2215.00	UNSOLD	51	\$114	\$114
	SOLD	1	\$119	\$119
2220.00	UNSOLD	286	\$125	\$166
	SOLD	21	\$142	\$151
2221.00	UNSOLD	34	\$148	\$169
	SOLD	1	\$440	\$440
2223.50	UNSOLD	23	\$75	\$85
	SOLD	2	\$147	\$147
2225.00	UNSOLD	26	\$101	\$125
	SOLD	1	\$83	\$83
2230.00	UNSOLD	808	\$152	\$200
	SOLD	27	\$142	\$197
2232.50	UNSOLD	15	\$88	\$115
	SOLD	1	\$87	\$87
2235.00	UNSOLD	1150	\$68	\$76
	SOLD	61	\$101	\$112
2245.00	UNSOLD	761	\$5	\$10
	SOLD	44	\$15	\$21
3212.00	UNSOLD	98	\$68	\$76
	SOLD	10	\$91	\$123
3215.00	UNSOLD	85	\$53	\$64
	SOLD	3	\$93	\$88

We also stratified the analysis by subdivision with at least 3 sales and by subclass:



Report VALSF

ABSTRIMP	SUBDIVNO	sold	N	Median	Mean
2212.00	150NA	UNSOLD	24	\$64	\$78
		SOLD	4	\$137	\$159
	156MB	UNSOLD	19	\$73	\$121
		SOLD	3	\$166	\$206
	441WA	UNSOLD	8	\$154	\$144
		SOLD	3	\$115	\$145
	Total	UNSOLD	51	\$69	\$104
		SOLD	10	\$151	\$169
2235.00		UNSOLD	120	\$35	\$34
		SOLD	3	\$46	\$44
	088CB	UNSOLD	22	\$55	\$64
		SOLD	4	\$101	\$107
	090CB	UNSOLD	74	\$91	\$97
		SOLD	8	\$82	\$97
	300MA	UNSOLD	34	\$63	\$69
		SOLD	3	\$111	\$191
	Total	UNSOLD	250	\$44	\$60
		SOLD	18	\$95	\$106
2245.00	070OA	UNSOLD	30	\$2	\$3
		SOLD	5	\$3	\$3
	071OA	UNSOLD	21	\$12	\$12
		SOLD	3	\$14	\$14
	100PA	UNSOLD	4	\$23	\$27
		SOLD	6	\$26	\$55
	190MA	UNSOLD	18	\$4	\$4
		SOLD	3	\$5	\$5
	377RA	UNSOLD	5	\$21	\$23
		SOLD	3	\$11	\$11
	750NA	UNSOLD	16	\$3	\$4

The above comparison indicates that when stratified by subclass and by subdivision/subclass, there were instances where the sold property had a greater value per square foot, where the sold properties had a lesser value per square foot, and instances where there was little difference. **Based on this pattern, we have met with the assessor staff to further analyze the valuation of sold and unsold commercial properties in Adams County.**

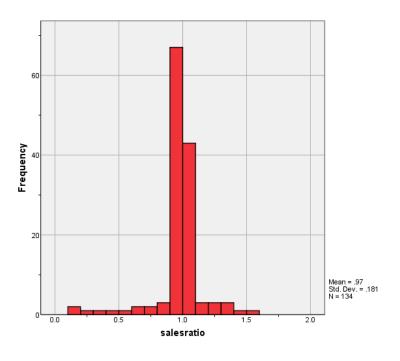
V. VACANT LAND SALE RESULTS

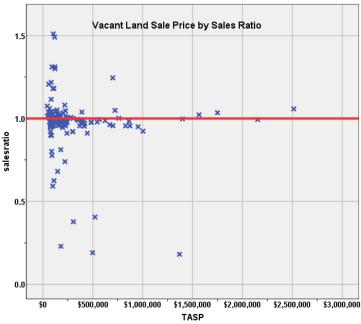
There were 134 qualified vacant land sales for the 24-month period ending June 30, 2018. The sales ratio analysis results were as follows:

Median	0.987
Price Related Differential	1.029
Coefficient of Dispersion	9.1



The above ratio statistics were in compliance overall with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall vacant land sales. The following graphs describe further the sales ratio distribution for all of these properties:





The above histogram indicates that the distribution of the vacant land sale ratios was within state mandated limits. No sales were trimmed.



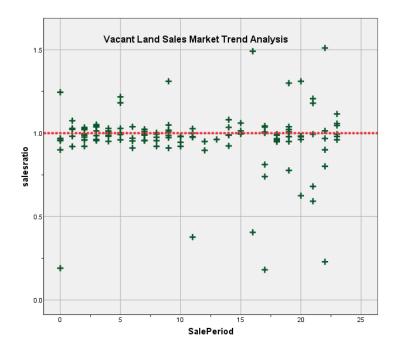
Vacant Land Market Trend Analysis

We next analyzed the vacant land dataset using the 24-month sale period, with the following results:

Coefficients^a

		Unstandardized		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.986	.028		35.406	.000
	SalePeriod	001	.002	054	620	.537

a. Dependent Variable: salesratio



The above analysis indicated that no significant market trending was present in the vacant land sale data. We concluded that the assessor has adequately dealt with market trending for vacant land properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold vacant land properties, we compared the median change in actual value for taxable years 2018 and 2019 between each group, as follows:

Report DIFF								
sold N		Median	Mean					
UNSOLD	8971	1.00	1.08					
SOLD	107	1.28	1.41					



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of DIFF is the san across categories of sold.	Independent- Samples neMann- Whitney U Test	.000	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

Although there was a significant difference in the above comparison, when broken down by subdivision with at least 6 sales, sold and unsold vacant land properties were valued consistently:

Report DIFF				
SUBDIVNO	sold	N	Median	Mean
000NS	UNSOLD	141	1.11	1.11
	SOLD	3	1.11	1.10
086CB	UNSOLD	56	1.13	1.12
	SOLD	5	1.38	1.29
293MA	UNSOLD	3	1.00	1.05
	SOLD	3	1.16	1.16
339GA	UNSOLD	9	1.97	1.97
	SOLD	5	1.97	1.95
365RA	UNSOLD	7	2.30	2.30
	SOLD	4	2.32	2.25
715AA	UNSOLD	25	1.28	1.26
	SOLD	3	1.44	1.46
747BA	UNSOLD	9	1.31	1.31
	SOLD	10	1.00	1.03
750BA	UNSOLD	3	1.00	1.30
	SOLD	3	1.90	1.90
Total	UNSOLD	253	1.12	1.20
	SOLD	36	1.30	1.45

Overall, we concluded that the county assessor valued sold and unsold vacant properties consistently.

V. CONCLUSOINS

Based on the results of these analyses, we concluded that there were no significant compliance issues with Adams County, with the possible exception of commercial sold and unsold consistency.



STATISTICAL ABSTRACT

Residential

						Ratio Statis	tics for CURF	RTOT / TASP					
		95% Confiden Me			95% Con	fidence Interval fo	r Median		95% Confiden Weighte	ce Interval for ed Mean			Coefficient of Variation
EA	Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
1.00	1.014	1.006	1.022	1.004	.998	1.012	95.1%	1.007	.999	1.015	1.007	.061	8.9%
2.00	.993	.991	.995	.993	.991	.994	95.0%	.989	.986	.991	1.004	.043	5.9%
3.00	.997	.995	.999	.992	.990	.994	95.0%	.984	.966	1.002	1.013	.054	7.5%
4.00	1.001	1.000	1.003	.996	.995	.999	95.2%	.982	.968	.997	1.019	.051	6.9%
5.00	.974	.969	.979	.975	.971	.979	95.2%	.967	.960	.973	1.007	.064	9.99
6.00	.995	.991	.999	.993	.988	.997	95.5%	.990	.975	1.005	1.005	.056	7.8%

The confidence interval for the median is constructed without any distribution assumptions. The actual coverage level may be greater than the specified level. Other confidence intervals are constructed by assuming a Normal distribution for the ratios.

Commercial Land

				Ratio	Statistics for	CURRTOT I T	ASP					
	95% Confiden Me	ce Interval for an		95% Cor	nfidence Interval fo	r Median		95% Confiden Weighte	ice Interval for ed Mean			Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
.993	.972	1.014	1.002	1.000	1.009	95.2%	.915	.856	.975	1.085	.096	17.0%

The confidence interval for the median is constructed without any distribution assumptions. The actual coverage level may be greater than the specified level. Other confidence intervals are constructed by assuming a Normal distribution for the ratios.

Vacant Land

Ratio Statistics for CURRLND / TASP

	95% Confiden	nce Interval for ean		95% Cor	nfidence Interval fo	r Median		95% Confider Weighte	nce Interval for ed Mean			Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
.972	.941	1.002	.987	.979	.996	95.3%	.944	.882	1.006	1.029	.091	18.6%

The confidence interval for the median is constructed without any distribution assumptions. The actual coverage level may be greater than the specified level. Other confidence intervals are constructed by assuming a Normal distribution for the ratios.



Residential Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$50K to \$100K	11	0.1%
	\$100K to \$150K	147	0.8%
	\$150K to \$200K	367	1.9%
	\$200K to \$300K	3443	17.8%
	\$300K to \$500K	12526	64.8%
	\$500K to \$750K	2489	12.9%
	\$750K to \$1,000K	252	1.3%
	Over \$1,000K	90	0.5%
Overall		19325	100.0%
Excluded		0	
Total		19325	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$50K to \$100K	1.173	1.001	.100	15.9%
\$100K to \$150K	1.096	1.001	.078	10.0%
\$150K to \$200K	1.030	1.000	.062	9.6%
\$200K to \$300K	1.003	1.001	.054	7.6%
\$300K to \$500K	.990	1.001	.046	6.3%
\$500K to \$750K	.981	1.001	.063	8.8%
\$750K to \$1,000K	.946	1.000	.078	10.6%
Over \$1,000K	.929	1.045	.115	15.9%
Overall	.993	1.012	.052	7.3%

Sub-Class

		Count	Percent
ABSTRIMP	1212.00	15003	77.6%
	1213.00	2	0.0%
	1213.50	2	0.0%
	1213.67	1	0.0%
	1214.00	2009	10.4%
	1214.50	141	0.7%
	1215.00	87	0.5%
	1215.33	18	0.1%
	1215.75	4	0.0%
	1216.00	2	0.0%
	1217.00	2	0.0%
	1220.00	45	0.2%
	1225.00	25	0.1%
	1225.04	1	0.0%
	1225.04	1	0.0%
	1225.05	1	0.0%
	1225.10	3	0.0%



	1225.11	1	0.0%
	1230.00	1972	10.2%
	2091.14	1	0.0%
	2236.00	2	0.0%
	2745.50	1	0.0%
	3256.67	1	0.0%
Overall		19325	100.0%
Excluded		0	
Total		19325	

Ratio Statistics for CURRTOT / TASP

Croup	Median	Price Related Differential	Coefficient of	Coefficient of Variation Median Centered
Group 1212.00	.992		Dispersion .051	7.0%
		1.003		
1213.00	.835	.999	.003	0.4%
1213.50	.983	.999	.057	8.1%
1213.67	.778	1.000	.000	
1214.00	.989	1.003	.050	6.9%
1214.50	.973	1.008	.076	11.0%
1215.00	1.033	1.026	.135	22.0%
1215.33	.936	1.054	.143	18.7%
1215.75	1.042	1.055	.264	40.4%
1216.00	.979	1.019	.094	13.3%
1217.00	.895	.942	.192	27.2%
1220.00	1.024	1.013	.126	15.3%
1225.00	.910	1.007	.141	19.3%
1225.04	.871	1.000	.000	
1225.04	.860	1.000	.000	
1225.05	.949	1.000	.000	
1225.10	1.004	1.042	.163	31.5%
1225.11	.842	1.000	.000	
1230.00	1.003	1.009	.052	7.4%
2091.14	.875	1.000	.000	
2236.00	1.078	1.021	.117	16.5%
2745.50	1.100	1.000	.000	
3256.67	1.048	1.000	.000	
Overall	.993	1.012	.052	7.3%

Age

		Count	Percent
AgeRec	Over 100	34	0.2%
	75 to 100	185	1.0%
	50 to 75	2983	15.4%
	25 to 50	3870	20.0%
	5 to 25	7501	38.8%
	5 or Newer	4752	24.6%
Overall		19325	100.0%
Excluded		0	
Total		19325	



Ratio Statistics for CURRTOT / TASP

	N.A. 12	Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
Over 100	.967	1.037	.126	21.2%
75 to 100	.991	1.024	.093	13.0%
50 to 75	.988	1.007	.059	8.4%
25 to 50	.998	1.034	.058	8.2%
5 to 25	.991	1.008	.043	5.8%
5 or Newer	.995	1.004	.055	7.6%
Overall	.993	1.012	.052	7.3%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	13	0.1%
	500 to 1,000 sf	2328	12.0%
	1,000 to 1,500 sf	5919	30.6%
	1,500 to 2,000 sf	5478	28.3%
	2,000 to 3,000 sf	4626	23.9%
	3,000 sf or Higher	961	5.0%
Overall		19325	100.0%
Excluded		0	
Total		19325	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	1.032	1.002	.071	9.3%
500 to 1,000 sf	.995	1.009	.062	8.7%
1,000 to 1,500 sf	.989	1.004	.049	6.8%
1,500 to 2,000 sf	.992	1.004	.049	6.8%
2,000 to 3,000 sf	.996	1.004	.049	6.7%
3,000 sf or Higher	.997	1.061	.075	11.2%
Overall	.993	1.012	.052	7.3%

Quality

		Count	Percent
QUALITY	Average	9568	49.5%
	Excellent	56	0.3%
	Fair	5273	27.3%
	Good	4036	20.9%
	Low	121	0.6%
	Very Good	271	1.4%
Overall		19325	100.0%
Excluded		0	
Total		19325	



Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
Average	.991	1.006	.045	6.4%
Excellent	1.002	1.017	.098	12.4%
Fair	.993	1.009	.058	8.0%
Good	.997	1.024	.057	7.8%
Low	1.068	1.021	.094	13.5%
Very Good	.996	1.008	.064	8.2%
Overall	.993	1.012	.052	7.3%

Condition

Case Processing Summary

		Count	Percent
CONDITION	Average	14451	74.8%
	Fair	237	1.2%
	Good	4623	23.9%
	Low	11	0.1%
	Very Good	3	0.0%
Overall		19325	100.0%
Excluded		0	
Total		19325	

		Daise Deleted	0 45: -: 4 4	Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
Average	.993	1.006	.051	7.3%
Fair	1.005	1.078	.096	12.7%
Good	.992	1.026	.050	6.8%
Low	1.035	1.110	.316	40.8%
Very Good	.947	1.013	.058	10.1%
Overall	.993	1.012	.052	7.3%



Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	1	0.4%
	\$50K to \$100K	5	2.0%
	\$100K to \$150K	5	2.0%
	\$150K to \$200K	17	6.9%
	\$200K to \$300K	32	13.0%
	\$300K to \$500K	37	15.0%
	\$500K to \$750K	18	7.3%
	\$750K to \$1,000K	18	7.3%
	Over \$1,000K	113	45.9%
Overall		246	100.0%
Excluded		0	
Total		246	

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
\$25K to \$50K	.908	1.000	.000	
\$50K to \$100K	1.054	.991	.059	8.1%
\$100K to \$150K	1.057	1.003	.078	10.6%
\$150K to \$200K	1.047	1.007	.107	15.1%
\$200K to \$300K	1.009	1.002	.090	13.9%
\$300K to \$500K	1.001	.997	.065	12.4%
\$500K to \$750K	1.017	1.005	.055	12.3%
\$750K to \$1,000K	.998	.999	.144	25.8%
Over \$1,000K	.998	1.062	.103	18.2%
Overall	1.002	1.085	.096	16.8%



Sub-Class

Case Processing Summary

		Count	Percent
ABSTRIMP	2212.00	72	29.3%
	2215.00	1	0.4%
	2220.00	21	8.5%
	2221.00	1	0.4%
	2223.50	2	0.8%
	2225.00	1	0.4%
	2230.00	27	11.0%
	2232.50	1	0.4%
	2235.00	61	24.8%
	2245.00	44	17.9%
	2476.25	1	0.4%
	3212.00	10	4.1%
	3215.00	3	1.2%
	4279.00	1	0.4%
Overall		246	100.0%
Excluded		0	
Total		246	

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
2212.00	1.022	1.016	.083	14.1%
2215.00	.682	1.000	.000	
2220.00	1.004	1.012	.052	10.3%
2221.00	.391	1.000	.000	
2223.50	1.025	.998	.005	0.7%
2225.00	1.245	1.000	.000	
2230.00	1.000	.956	.094	17.2%
2232.50	.990	1.000	.000	
2235.00	.975	1.094	.080	15.0%
2245.00	1.029	1.018	.076	11.6%
2476.25	1.305	1.000	.000	
3212.00	.766	.966	.340	47.8%
3215.00	.990	.999	.003	0.7%
4279.00	.828	1.000	.000	
Overall	1.002	1.085	.096	16.8%



Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	5	2.0%
	75 to 100	7	2.8%
	50 to 75	38	15.4%
	25 to 50	93	37.8%
	5 to 25	85	34.6%
	5 or Newer	18	7.3%
Overall	•	246	100.0%
Excluded		0	
Total		246	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
Over 100	1.038	.979	.081	12.5%
75 to 100	.986	1.221	.229	35.3%
50 to 75	1.020	1.003	.082	13.8%
25 to 50	1.003	1.034	.102	18.2%
5 to 25	1.001	1.075	.083	14.3%
5 or Newer	.994	1.114	.102	18.3%
Overall	1.002	1.085	.096	16.8%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	7	2.8%
	1,000 to 1,500 sf	11	4.5%
	1,500 to 2,000 sf	8	3.3%
	2,000 to 3,000 sf	23	9.3%
	3,000 sf or Higher	197	80.1%
Overall		246	100.0%
Excluded		0	
Total		246	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
500 to 1.000 sf	.919	1.065	.186	26.4%
1,000 to 1,500 sf	.999	1.200	.108	24.9%
1,500 to 2,000 sf	1.002	1.356	.121	24.6%
2,000 to 3,000 sf	1.000	1.043	.095	17.4%
3,000 sf or Higher	1.004	1.093	.092	15.8%
Overall	1.002	1.085	.096	16.8%



Quality

Case Processing Summary

		Count	Percent
QUALITY	Average	206	83.7%
	Fair	5	2.0%
	Good	31	12.6%
	Low	4	1.6%
Overall		246	100.0%
Excluded		0	
Total		246	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Average	1.001	1.099	.103	17.7%
Fair	.997	1.003	.145	20.2%
Good	1.005	1.058	.052	10.3%
Low	1.010	.972	.044	6.2%
Overall	1.002	1.085	.096	16.8%

Condition

Case Processing Summary

		Count	Percent
CONDITION	Average	214	87.0%
	Fair	3	1.2%
	Good	27	11.0%
	Low	2	0.8%
Overall	·	246	100.0%
Excluded		0	
Total		246	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Average	1.001	1.102	.105	17.8%
Fair	.998	.981	.071	15.0%
Good	1.007	1.037	.041	6.8%
Low	.981	1.005	.016	2.3%
Overall	1.002	1.085	.096	16.8%



Economic Area

Case Processing Summary

		Count	Percent
ECONAREA	1.00	6	2.5%
	2.00	31	12.8%
	3.00	23	9.5%
	4.00	67	27.7%
	5.00	93	38.4%
	6.00	22	9.1%
Overall		242	100.0%
Excluded		4	
Total		246	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
1.00	.997	1.125	.059
2.00	1.010	1.026	.058
3.00	1.012	.993	.083
4.00	1.005	1.027	.089
5.00	.997	1.049	.096
6.00	1.017	1.244	.182
Overall	1.002	1.087	.096

<u>Vacant Land Median Ratio Stratification</u> Sale Price

	Count	Percent
\$25K to \$50K	2	1.5%
\$50K to \$100K	42	31.3%
\$100K to \$150K	24	17.9%
\$150K to \$200K	13	9.7%
\$200K to \$300K	17	12.7%
\$300K to \$500K	16	11.9%
\$500K to \$750K	8	6.0%
\$750K to \$1,000K	5	3.7%
Over \$1,000K	7	5.2%
	134	100.0%
	0	
	134	
	\$50K to \$100K \$100K to \$150K \$150K to \$200K \$200K to \$300K \$300K to \$500K \$500K to \$750K \$750K to \$1,000K	\$25K to \$50K 2 \$50K to \$100K 42 \$100K to \$150K 24 \$150K to \$200K 13 \$200K to \$300K 17 \$300K to \$500K 16 \$500K to \$750K 8 \$750K to \$1,000K 5 Over \$1,000K 7



Ratio Statistics for CURRLND / TASP

Natio Statistics for SOUNEIRD / TASI				
		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
\$25K to \$50K	1.044	1.001	.029	4.1%
\$50K to \$100K	.990	1.004	.077	11.8%
\$100K to \$150K	1.000	1.004	.120	20.6%
\$150K to \$200K	.986	1.001	.095	22.9%
\$200K to \$300K	.980	1.001	.046	7.6%
\$300K to \$500K	.974	1.005	.107	26.3%
\$500K to \$750K	.983	.983	.124	24.6%
\$750K to \$1,000K	.955	1.001	.016	2.8%
Over \$1,000K	.997	.967	.146	33.7%
Overall	.987	1.029	.091	18.4%

Subclass

Case Processing Summary

	_	_	
		Count	Percent
ABSTRLND	100.00	69	51.5%
	200.00	25	18.7%
	300.00	5	3.7%
	510.00	1	0.7%
	520.00	3	2.2%
	530.00	2	1.5%
	540.00	1	0.7%
	700.00	2	1.5%
	800.00	1	0.7%
	1112.00	23	17.2%
	2112.00	2	1.5%
Overall	-	134	100.0%
Excluded		0	
Total		134	

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
100.00	.995	1.006	.051	9.9%
200.00	.982	.986	.051	9.8%
300.00	.979	.993	.011	1.6%
510.00	1.051	1.000	.000	
520.00	.377	.978	.603	103.9%
530.00	.591	1.247	.694	98.1%
540.00	1.035	1.000	.000	
700.00	1.081	.990	.092	13.0%
800.00	.978	1.000	.000	
1112.00	.949	1.218	.200	29.3%
2112.00	.963	1.009	.018	2.5%
Overall	.987	1.029	.091	18.4%



Economic Area

Case Processing Summary

		Count	Percent
ECONAREA	1.00	38	28.4%
	2.00	10	7.5%
	3.00	29	21.6%
	4.00	13	9.7%
	5.00	27	20.1%
	6.00	17	12.7%
Overall	-	134	100.0%
Excluded		0	
Total		134	

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
1.00	.995	1.065	.122
2.00	.991	.991	.076
3.00	.982	1.096	.105
4.00	1.010	.981	.070
5.00	.986	.998	.056
6.00	.979	.954	.073
Overall	.987	1.029	.091