

MESA COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2017

Mr. Mike Mauer Director of Research Colorado Legislative Council Room 029, State Capitol Building Denver, Colorado 80203

RE: Final Report for the 2017 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2017 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 twopart 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 and 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.

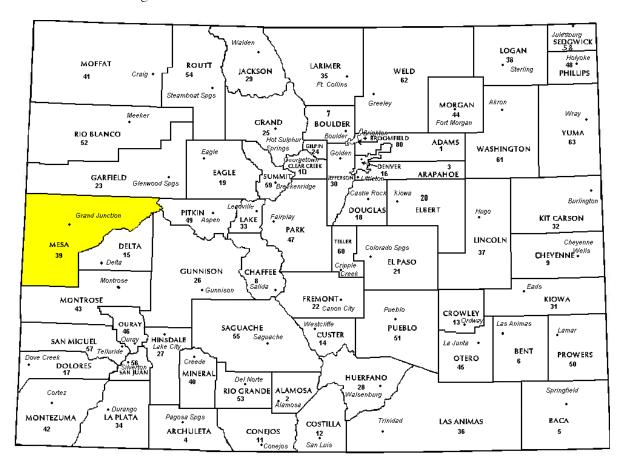
Wildrose Audit has completed the Property Assessment Study for 2017 and is pleased to report its findings for Mesa County in the following report.



REGIONAL/HISTORICAL SKETCH OF MESA COUNTY

Regional Information

Mesa County is located in the Western Slope region of Colorado. The Western Slope of Colorado refers to the region west of the Rocky Mountains. It includes Archuleta, Delta, Dolores, Eagle, Garfield, Grand, Gunnison, Hinsdale, Jackson, La Plata, Mesa, Moffat, Montezuma, Montrose, Ouray, Pitkin, Rio Blanco, Routt, San Juan, San Miguel, and Summit counties.





Historical Information

Mesa County had an estimated population of approximately 150,083 people with 45.1 people per square mile, according to the U.S. Census Bureau's 2016 estimated census data. This represents a 2.3 percent change from April 1, 2010 to July 1, 2016.

The County, formed from a portion of Gunnison County, was established in 1883 with an area of 3,301 square miles. Its name is Spanish for 'table' and refers to the tablelands and plateaus prevalent in the county. county seat is Grand Junction, so named for its location at the junction of the Gunnison and Grand (later Colorado) rivers. The Grand Mesa National Forest encompasses the Grand Mesa, which is one of the world's largest flattop mountains and has an average elevation of 10,000 feet, dotted with over 300 alpine lakes and reservoirs. The Uncompangre National Forest includes the Uncompangre Plateau, portions of the San Juan Mountains and three wilderness areas.

Grand Junction which sits near the mid-point of a 30-mile arcing valley, known as the Grand Valley, is a major fruit-growing region, historically home to the Ute people and settled by white farmers in the 1880s. In recent years, several wineries have been established in the area as well. The Colorado National Monument, a series of canyons and mesas similar to the Grand Canyon, overlooks the city, while most of the area is surrounded by public lands managed by the Bureau of Land Management.

Grand Junction has a strong history that dates back more than 100 years. In the 1880s, the area was part of the Northern Ute Reservation, although the Native Americans were later moved west into Utah. In September 1881, the area experienced a land rush settlement and a town site was staked. This town, located in the Grand Valley, was first called Ute, then West Denver and finally came to be known as Grand Junction.

By 1883, Mesa County was created from neighboring counties and Grand Junction was named the county seat. Grand Junction began to thrive when the main line of the Denver and Rio Grande Railroad came into the area in 1887. Soon after, major irrigation turned the Grand Valley into a fertile agricultural area. (www.rootsweb.com, www.gjchamber.org, 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, 2015 through June 20, 2016. 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. 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. For the largest 11 counties, the residential ratio statistics were broken down by economic area as well.

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 Mesa County are:

Mesa County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	87	0.983	1.016	8.3	Compliant
Condominium	N/A	N/A	N/A	N/A	Compliant
Single Family	4,319	0.988	1.007	8.2	Compliant
Vacant Land	311	0.992	1.064	13.8	Compliant

		Price Related	
Group	Median	Differential	Dispersion
10.00	.988	1.021	.128
12.00	.970	1.015	.108
15.00	.985	1.005	.064
19.00	.989	1.007	.088
22.00	.992	1.011	.086
25.00	.982	1.011	.098
27.00	.984	1.002	.082
29.00	.984	1.001	.072
30.00	.996	1.006	.068
31.00	.954	1.011	.158
99.00	1.002	1.012	.090
Overall	.988	1.007	.082

After applying the above described methodologies, it is concluded from the sales ratios that Mesa 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 Mesa County has complied with the statutory requirements to analyze the effects of time on value in their county. Mesa 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

Mesa 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	sults
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	Compliant

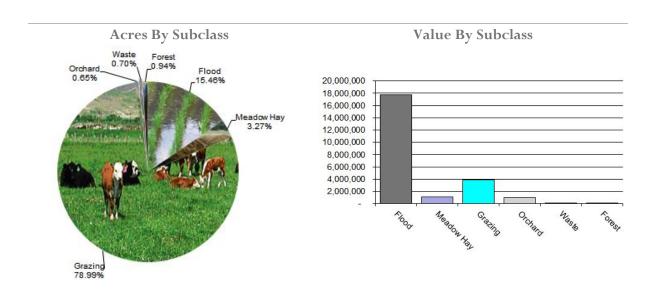
Conclusions

After applying the above described methodologies, it is concluded that Mesa 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 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:



Mesa County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4117	Flood	66,197	267.33	17,696,426	17,866,236	0.99
4137	Meadow Hay	14,018	81.54	1,142,976	1,142,976	1.00
4147	Grazing	338,290	11.37	3,847,834	3,847,834	1.00
4157	Orchard	2,765	371.20	1,026,368	1,026,368	1.00
4177	Forest	4,005	7.80	31,225	31,242	1.00
4167	Waste	3,011	2.22	6,690	6,690	1.00
Total/Avg		428,286	55.46	23,751,519	23,921,346	0.99

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

Mesa 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

Mesa 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
- Phone Interviews
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Mesa 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
- Phone Interviews
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Mesa 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 2017 for Mesa 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 of the sales in the unqualified sales sample had reasons that were clear and supportable.

For residential, commercial, and vacant land sales with considerations over \$500, 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 has



reviewed with the assessor any analysis indicating that sales data 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.

Mesa County did not qualify for indepth subclass analysis.

Conclusions

Mesa County appears to be doing a good job of verifying their sales. WRA agreed with the county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

Mesa County has submitted a written narrative describing the economic areas that make up the county's market areas. Mesa 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 Mesa 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 2017 in Mesa County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14). Discounting procedures were applied to all subdivisions where less than 80 percent of all sites were sold using the present worth method. The market approach was applied where 80 percent or more of the subdivision sites were sold. An absorption period was estimated for each subdivision that was discounted. An appropriate discount rate was

developed using the summation method. Subdivision land with structures was appraised at full market value.

Conclusions

Mesa 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.

Mesa County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural, commercial and ski area 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

Mesa 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

Mesa 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 This sample was levels of such property. 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.

Mesa 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
- Chamber of Commerce/Economic Development Contacts
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth
- Questionnaires, Letters and/or Phone Calls to Buyer, Seller and/or Realtor

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.

Mesa County submitted their personal property written audit plan and was current for the 2017 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
- Accounts with greater than 10% change
- Incomplete or inconsistent declarations
- Businesses with no deletions or additions for 2 or more years



- Non-filing Accounts Best Information Available
- Accounts close to the \$7,400 actual value exemption status
- Lowest or highest quartile of value per square foot
- Accounts protested with substantial disagreement

Mesa 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

Mesa 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



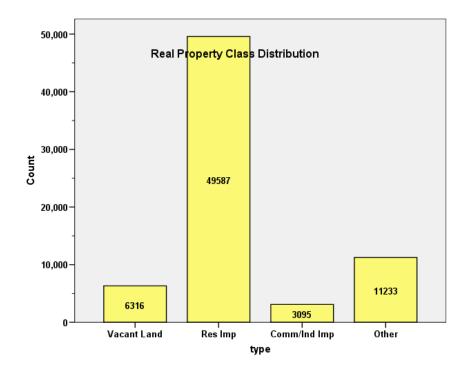
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR MESA COUNTY 2017

I. OVERVIEW

Mesa County is an urban county located along Colorado's western slope. The county has a total of 70,231 real property parcels, according to data submitted by the county assessor's office in 2017. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential and commercial lots. These land subclasses (coded 100, 200 and 1112) accounted for 54.3% of all vacant land parcels.

For residential improved properties, single family properties accounted for 92.8% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 4.4% of all such properties in this county.

II. DATA FILES

The following sales analyses were based on the requirements of the 2017 Colorado Property Assessment Study. Information was provided by the Mesa Assessor's Office in May 2017. The data included all 5 property record files as specified by the Auditor.



III. RESIDENTIAL SALES RESULTS

There were 4,326 qualified residential sales over the 18 month sale period ending June 30, 2016. We trimmed 7 sales due to their extreme sale ratios, resulting in a total of 4,319 sales that were analyzed, as follows:

Case Processing Summary

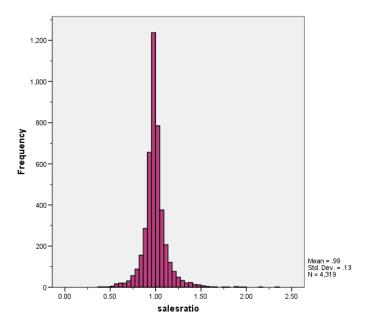
		Count	Percent
ECONAREA	10.00	120	2.8%
	12.00	217	5.0%
	15.00	713	16.5%
	19.00	512	11.9%
	22.00	589	13.6%
	25.00	109	2.5%
	27.00	625	14.5%
	29.00	464	10.7%
	30.00	682	15.8%
	31.00	100	2.3%
	99.00	188	4.4%
Overall		4319	100.0%
Excluded		0	
Total		4319	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
10.00	.988	1.021	.128
12.00	.970	1.015	.108
15.00	.985	1.005	.064
19.00	.989	1.007	.088
22.00	.992	1.011	.086
25.00	.982	1.011	.098
27.00	.984	1.002	.082
29.00	.984	1.001	.072
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31.00	.954	1.011	.158
99.00	1.002	1.012	.090
Overall	.988	1.007	.082

Economic Area 99 represents condominium sales for this county. All residential economic areas were within the median sales ratio compliance range of 0.95 to 1.05. The following graphs describe further the sales ratio distribution for these properties:





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 18-month sale period for any residual market trending and broken down by economic area, as follows:



Coefficients^a

			l Inotondordi -	ed Coefficients	Standardized Coefficients		
ECONAREA	Model		B	Std. Error	Beta	t	Sig.
10.00	1	(Constant)	.980	.029		34.204	.000
		SalePeriod	.003	.003	.098	1.071	.287
12.00	1	(Constant)	.932	.017		54.976	.000
		SalePeriod	.005	.002	.169	2.518	.013
15.00	1	(Constant)	1.000	.006		159.654	.000
		SalePeriod	001	.001	080	-2.137	.033
19.00	1	(Constant)	.985	.011		87.041	.000
		SalePeriod	.002	.001	.057	1.293	.197
22.00	1	(Constant)	.977	.010		93.885	.000
		SalePeriod	.003	.001	.118	2.882	.004
25.00	1	(Constant)	.931	.028		33.491	.000
		SalePeriod	.005	.003	.173	1.816	.072
27.00	1	(Constant)	.986	.009		105.163	.000
		SalePeriod	.000	.001	.004	.105	.917
29.00	1	(Constant)	.983	.009		107.817	.000
		SalePeriod	.002	.001	.077	1.669	.096
30.00	1	(Constant)	1.009	.009		118.548	.000
		SalePeriod	001	.001	026	690	.490
31.00	1	(Constant)	.874	.034		25.848	.000
		SalePeriod	.004	.004	.125	1.244	.216
99.00	1	(Constant)	.981	.020		50.264	.000
		SalePeriod	.006	.002	.217	3.030	.003

a. Dependent Variable: salesratio

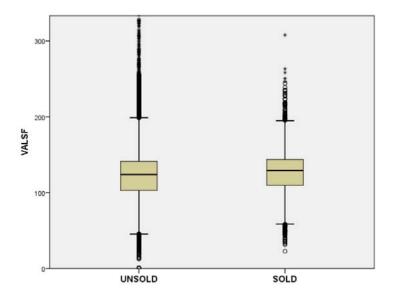
The sales ratios in all economic areas had insignificant trends statistically or had statistically significant trends of very low magnitude. We therefore concluded that the assessor has adequately considered market trending in the residential valuation of Mesa County.

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 2017 between each group, as follows:

Report				
VALSF				
sold	N	Median	Mean	
UNSOLD	45,269	\$124	\$123	
SOLD	4.318	\$129	\$127	





Hypothesis Test Summary

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

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

Given that there was a statistically significant difference using the non-parametric Mann Whitney U test, we next compared the percent change in actual value between taxable years 2016 and 2017 for sold and unsold residential properties in Mesa County, as follows:

Report	
DIFF	
sold	N

sold	N	Median	Mean
UNSOLD	44,781	1.10	1.12
SOLD	4,239	1.11	1.13

The median and mean change in value between sold and unsold residential properties was very similar. We also performed this comparison analysis by economic area, which also indicates overall similar changes in value for sold and unsold residential properties:



Report DIFF

ECONAREA	sold	N	Median	Mean
10.00	UNSOLD	1,312	1.11	1.13
	SOLD	120	1.12	1.16
12.00	UNSOLD	3,107	1.13	1.15
	SOLD	214	1.15	1.15
15.00	UNSOLD	6,316	1.10	1.11
	SOLD	680	1.11	1.13
19.00	UNSOLD	5,965	1.12	1.12
	SOLD	499	1.12	1.13
22.00	UNSOLD	5,724	1.12	1.16
	SOLD	576	1.11	1.16
25.00	UNSOLD	1,465	1.10	1.11
	SOLD	108	1.13	1.15
27.00	UNSOLD	4,963	1.10	1.11
	SOLD	618	1.11	1.12
29.00	UNSOLD	5,592	1.08	1.09
	SOLD	463	1.09	1.11
30.00	UNSOLD	6,493	1.10	1.11
	SOLD	673	1.11	1.13
31.00	UNSOLD	1,773	1.01	1.01
	SOLD	100	1.04	1.08
99.00	UNSOLD	1,933	1.09	1.16
	SOLD	187	1.06	1.14

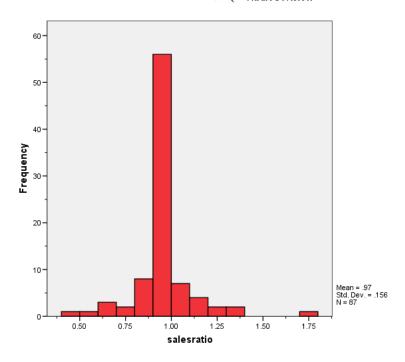
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

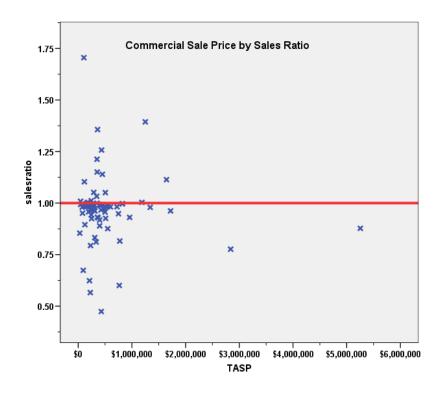
There were 87 qualified commercial sales over the 18 month sale period ending June 30, 2016. The sales ratio analysis results were as follows:

Median	0.983
Price Related Differential	1.016
Coefficient of Dispersion	8.3

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









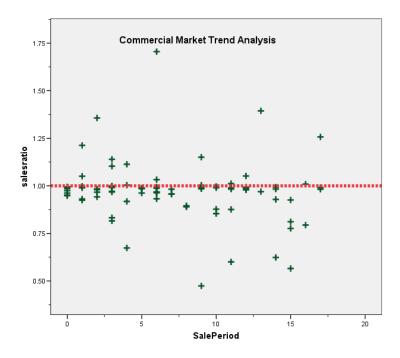
Commercial/Industrial Market Trend Analysis

The 87 commercial/industrial sales were next analyzed for residual market trending. We examined the sales ratios across the 18-month sale period with the following results:

Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.007	.029		34.798	.000
	SalePeriod	005	.003	159	-1.487	.141

a. Dependent Variable: salesratio



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

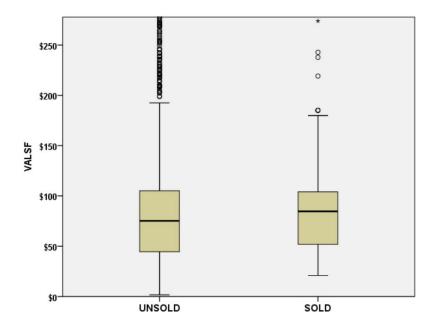
Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if sold and unsold properties were valued consistently, as follows:



Report VALSF

sold	N	Median	Mean
UNSOLD	3,004	\$75	\$90
SOLD	87	\$85	\$97



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is to same across categories of solo	Independent- Samples he Mann- I. Whitney U Test	.113	Retain the null hypothesis.

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



Report VALSF

ABSTRIMP	sold	N	Median	Mean
2212.00	UNSOLD	372	\$71	\$84
	SOLD	8	\$83	\$99
2220.00	UNSOLD	226	\$96	\$102
	SOLD	9	\$81	\$78
2230.00	UNSOLD	860	\$84	\$111
	SOLD	32	\$91	\$118
2235.00	UNSOLD	182	\$38	\$57
	SOLD	3	\$51	\$44
2245.00	UNSOLD	658	\$83	\$79
	SOLD	22	\$85	\$99
3212.00	UNSOLD	258	\$75	\$86
	SOLD	7	\$89	\$78

The above results indicated that sold commercial/industrial properties were not consistently valued more than unsold commercial/industrial properties, and that there was sufficient overlap between each group overall.

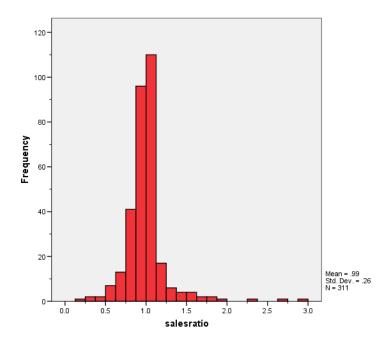
V. VACANT LAND SALE RESULTS

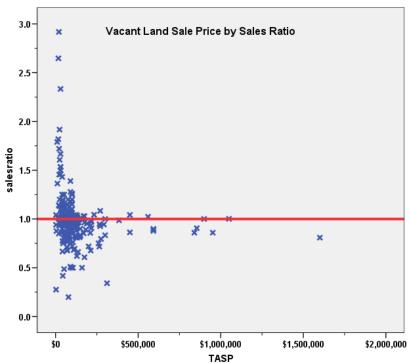
There were 311 qualified vacant land sales over the 18-month sale period ending June 30, 2016. The sales ratio analysis results were as follows:

Median	0.992
Price Related Differential	1.064
Coefficient of Dispersion	13.8

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

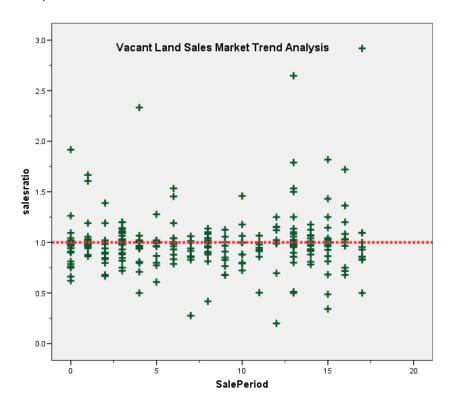
We next analyzed the vacant land dataset using the 18-month sale period, with the following results:



Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.971	.026		37.385	.000
	SalePeriod	.003	.003	.053	.927	.355

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 between taxable years 2016 and 2017 values, as follows:

Report DIFF			
sold	N	Median	Mean
UNSOLD	5,276	1.00	1.03
SOLD	294	1.08	1.13



Hypothesis Test Summary

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

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

Report DIFF				
SUBDIVNO	sold	N	Median	Mean
5157	UNSOLD	62	1.25	1.25
	SOLD	6	1.25	1.25
5216	UNSOLD	4	1.11	1.11
	SOLD	5	1.11	1.11
5249	UNSOLD	12	1.03	1.02
	SOLD	5	1.00	1.01
5968	UNSOLD	39	1.00	1.00
	SOLD	8	1.00	1.00
7103	UNSOLD	10	1.12	1.05
	SOLD	8	.93	1.00
7176	UNSOLD	2	1.15	1.15
	SOLD	7	1.15	1.15
7191	UNSOLD	8	1.36	1.36
	SOLD	5	1.36	1.43
7194	UNSOLD	22	1.44	1.47
	SOLD	6	1.61	1.57
7195	UNSOLD	1	1.60	1.60
	SOLD	10	1.60	1.60
7227	UNSOLD	1	1.00	1.00
	SOLD	5	1.00	1.00

Although the non-parametric analysis indicated a statistically significant difference between sold and unsold vacant land valuations, the analysis of sold and unsold valuation at the subdivision level did not indicate a pattern where sold properties were adjusted by a greater degree than unsold properties within the same subdivision; therefore, we concluded that the county assessor valued sold and unsold vacant land properties consistently.

VI. AGRICULTURAL IMPROVEMENTS ANALYSIS

The final verification concerned the assigned actual values for agricultural residential improvements. We compared the actual improved value per square foot rate for this group and compared it to rates assigned to residential single family improvements in Mesa County.



The following indicates that both groups were valued in essentially the same manner:

Report IMPVALSF ABSTRIMP N Median Mean 1212.00 46,025 \$94.86 \$93.16 4277.00 3,686 \$94.66 \$96.14

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of IMPVALSF same across categories of ABSTRIMP.	Independent- is th⊛amples Mann- Whitney U Test	.001	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .00.

VII. CONCLUSIONS

Based on this 2017 audit statistical analysis, residential, commercial/industrial and vacant land properties were found to be in compliance with state guidelines.



STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

		95% Confidence Interval for Mean		95% Confid		dence Interval for Median			95% Confidence Interval for Weighted Mean		Price	Coefficient
ECONAREA	Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Related Differential	of Dispersion
10.00	1.006	.975	1.036	.988	.944	1.012	96.5%	.985	.956	1.013	1.021	.128
12.00	.967	.947	.986	.970	.956	.987	95.9%	.953	.934	.972	1.015	.108
15.00	.988	.982	.995	.985	.980	.990	95.7%	.983	.976	.991	1.005	.064
19.00	.997	.985	1.009	.989	.982	.994	95.3%	.990	.980	.999	1.007	.088
22.00	1.002	.991	1.013	.992	.986	.996	95.2%	.992	.982	1.001	1.011	.086
25.00	.973	.944	1.003	.982	.968	.990	96.5%	.963	.938	.987	1.011	.098
27.00	.987	.976	.997	.984	.976	.990	95.5%	.985	.977	.993	1.002	.082
29.00	.996	.986	1.006	.984	.981	.988	95.4%	.995	.984	1.007	1.001	.072
30.00	1.004	.996	1.013	.996	.994	.998	95.8%	.998	.991	1.005	1.006	.068
31.00	.908	.869	.948	.954	.913	.984	96.5%	.898	.861	.936	1.011	.158
99.00	1.031	1.010	1.052	1.002	.992	1.013	95.1%	1.018	1.000	1.036	1.012	.090

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 assumin distribution for the ratios.

Commercial Land

	95% Confiden Me			95% Con	fidence Interval fo	or 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
.972	.939	1.005	.983	.969	.989	96.9%	.957	.908	1.006	1.016	.083	16.1%

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

	95% Confiden			95% Cor	ifidence Interval fo	or Median		95% Confiden Weighte	ce 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
.990	.961	1.019	.992	.978	1.000	95.9%	.931	.908	.954	1.064	.138	26.3%

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	LT \$25K	1	0.0%
	\$25K to \$50K	19	0.4%
	\$50K to \$100K	233	5.4%
	\$100K to \$150K	646	15.0%
	\$150K to \$200K	1230	28.5%
	\$200K to \$300K	1406	32.6%
	\$300K to \$500K	665	15.4%
	\$500K to \$750K	101	2.3%
	\$750K to \$1,000K	13	0.3%
	Over \$1,000K	5	0.1%
Overall		4319	100.0%
Excluded		0	
Total		4319	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
LT \$25K	1.811	1.000	.000	
\$25K to \$50K	1.311	1.013	.241	32.0%
\$50K to \$100K	1.016	1.002	.175	24.4%
\$100K to \$150K	.997	1.001	.109	16.1%
\$150K to \$200K	.990	1.001	.070	10.9%
\$200K to \$300K	.983	1.001	.064	9.4%
\$300K to \$500K	.982	.999	.069	9.9%
\$500K to \$750K	.985	1.003	.088	13.0%
\$750K to \$1,000K	1.001	1.000	.091	14.2%
Over \$1,000K	.909	.999	.047	7.0%
Overall	.988	1.007	.082	13.2%

Subclass

	_	_	
		Count	Percent
ABSTRIMP	.00	1	0.0%
	1212.00	4065	94.1%
	1215.00	40	0.9%
	1220.00	22	0.5%
	1225.00	4	0.1%
	1230.00	187	4.3%
Overall		4319	100.0%
Excluded		0	
Total		4319	



		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
.00	.820	1.000	.000	
1212.00	.988	1.006	.081	13.1%
1215.00	.994	1.021	.107	16.9%
1220.00	.995	1.033	.096	13.0%
1225.00	.843	.999	.101	17.9%
1230.00	1.002	1.012	.091	14.7%
Overall	.988	1.007	.082	13.2%

Age

Case Processing Summary

		Count	Percent
AgeRec	0	1	0.0%
	Over 100	138	3.2%
	75 to 100	92	2.1%
	50 to 75	378	8.8%
	25 to 50	1179	27.3%
	5 to 25	2015	46.7%
	5 or Newer	516	11.9%
Overall		4319	100.0%
Excluded		0	
Total		4319	

		D: D.I.	0 (6 : 1 6	Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
0	.820	1.000	.000	
Over 100	.979	1.023	.138	20.7%
75 to 100	.969	1.032	.128	18.4%
50 to 75	.981	1.016	.106	15.8%
25 to 50	.986	1.012	.102	15.6%
5 to 25	.990	1.004	.070	11.5%
5 or Newer	.989	.999	.046	6.6%
Overall	.988	1.007	.082	13.2%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	0	1	0.0%
	LE 500 sf	1	0.0%
	500 to 1,000 sf	277	6.4%
	1,000 to 1,500 sf	1499	34.7%
	1,500 to 2,000 sf	1406	32.6%
	2,000 to 3,000 sf	894	20.7%
	3,000 sf or Higher	241	5.6%
Overall		4319	100.0%
Excluded		0	
Total		4319	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
0	.820	1.000	.000	
LE 500 sf	.837	1.000	.000	
500 to 1,000 sf	.968	1.019	.120	19.3%
1,000 to 1,500 sf	.987	1.010	.082	13.4%
1,500 to 2,000 sf	.987	1.009	.076	12.6%
2,000 to 3,000 sf	.993	1.009	.077	11.3%
3,000 sf or Higher	1.002	1.010	.095	13.1%
Overall	.988	1.007	.082	13.2%

Improvement Quality

		Count	Percent
QUALITY	1	2	0.0%
	2	54	1.3%
	3	3429	79.4%
	4	750	17.4%
	5	69	1.6%
	6	11	0.3%
	7	3	0.1%
Overall		4318	100.0%
Excluded		1	
Total		4319	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1	.801	.989	.046	6.5%
2	.977	1.068	.183	26.0%
3	.986	1.009	.085	13.7%
4	.998	1.003	.064	9.4%
5	.985	1.007	.054	8.1%
6	1.002	1.000	.063	9.8%
7	.913	1.019	.146	30.7%
Overall	.988	1.007	.082	13.2%

Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	0	2730	70.4%
	2	9	0.2%
	3	1135	29.3%
	4	3	0.1%
Overall		3877	100.0%
Excluded		442	
Total		4319	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	.991	1.010	.080	12.9%
2	.979	1.165	.162	31.5%
3	.983	1.001	.099	15.3%
4	.832	.990	.069	10.4%
Overall	.988	1.008	.086	13.7%



Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	3	3.4%
	\$50K to \$100K	3	3.4%
	\$100K to \$150K	13	14.9%
	\$150K to \$200K	5	5.7%
	\$200K to \$300K	19	21.8%
	\$300K to \$500K	23	26.4%
	\$500K to \$750K	9	10.3%
	\$750K to \$1,000K	5	5.7%
	Over \$1,000K	7	8.0%
Overall		87	100.0%
Excluded		0	
Total		87	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$25K to \$50K	.993	.988	.052	10.0%
\$50K to \$100K	.951	1.015	.107	20.8%
\$100K to \$150K	.988	1.011	.074	21.4%
\$150K to \$200K	.997	1.001	.012	2.1%
\$200K to \$300K	.969	.992	.069	13.9%
\$300K to \$500K	.975	1.001	.110	17.7%
\$500K to \$750K	.982	1.001	.031	5.1%
\$750K to \$1,000K	.931	.993	.124	19.4%
Over \$1,000K	.979	1.063	.131	20.5%
Overall	.983	1.016	.083	15.9%



Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	2212.00	8	9.2%
	2215.00	2	2.3%
	2220.00	9	10.3%
	2225.00	1	1.1%
	2230.00	32	36.8%
	2235.00	3	3.4%
	2240.00	2	2.3%
	2245.00	22	25.3%
	3212.00	7	8.0%
	3215.00	1	1.1%
Overall		87	100.0%
Excluded		0	
Total		87	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
2212.00	.987	.999	.007	0.9%
2215.00	1.058	.992	.052	7.4%
2220.00	.987	1.004	.012	1.6%
2225.00	.988	1.000	.000	
2230.00	.982	.994	.112	20.5%
2235.00	.948	1.128	.133	23.6%
2240.00	1.172	.935	.157	22.3%
2245.00	.985	1.006	.097	16.4%
3212.00	.964	1.059	.043	8.3%
3215.00	.925	1.000	.000	
Overall	.983	1.016	.083	15.9%

Age

		Count	Percent
AgeRec	Over 100	12	13.8%
	75 to 100	4	4.6%
	50 to 75	16	18.4%
	25 to 50	26	29.9%
	5 to 25	29	33.3%
Overall		87	100.0%
Excluded		0	
Total		87	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.990	.992	.043	13.0%
75 to 100	.975	1.004	.015	2.1%
50 to 75	.982	1.064	.108	23.0%
25 to 50	.967	.967	.097	16.6%
5 to 25	.983	1.039	.082	13.5%
Overall	.983	1.016	.083	15.9%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1	1.1%
	500 to 1,000 sf	4	4.6%
	1,000 to 1,500 sf	12	13.8%
	1,500 to 2,000 sf	6	6.9%
	2,000 to 3,000 sf	18	20.7%
	3,000 sf or Higher	46	52.9%
Overall		87	100.0%
Excluded		0	
Total		87	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
LE 500 sf	.623	1.000	.000	
500 to 1,000 sf	.985	1.004	.007	1.4%
1,000 to 1,500 sf	.986	1.146	.133	26.1%
1,500 to 2,000 sf	.975	.981	.071	14.1%
2,000 to 3,000 sf	.983	1.002	.098	18.4%
3,000 sf or Higher	.982	1.022	.067	11.7%
Overall	.983	1.016	.083	15.9%

Improvement Quality

		Count	Percent
QUALITY	2	2	2.3%
	3	81	93.1%
	4	4	4.6%
Overall		87	100.0%
Excluded		0	
Total		87	



		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
2	.972	1.005	.008	1.2%
3	.984	1.005	.086	16.4%
4	.984	1.097	.068	11.1%
Overall	.983	1.016	.083	15.9%

Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	1	1	1.1%
	2	3	3.4%
	3	81	93.1%
	4	2	2.3%
Overall		87	100.0%
Excluded		0	
Total		87	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1	.999	1.000	.000	
2	.968	.899	.089	13.5%
3	.983	1.025	.083	16.2%
4	.899	.927	.117	16.5%
Overall	.983	1.016	.083	15.9%

Vacant Land Median Ratio Stratification

Sale Price

	U	•	
		Count	Percent
SPRec	LT \$25K	24	7.7%
	\$25K to \$50K	75	24.1%
	\$50K to \$100K	121	38.9%
	\$100K to \$150K	49	15.8%
	\$150K to \$200K	11	3.5%
	\$200K to \$300K	17	5.5%
	\$300K to \$500K	4	1.3%
	\$500K to \$750K	4	1.3%
	\$750K to \$1,000K	4	1.3%
	Over \$1,000K	2	0.6%
Overall		311	100.0%
Excluded		0	
Total		311	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.088	.958	.374	58.3%
\$25K to \$50K	1.003	1.014	.121	24.4%
\$50K to \$100K	.982	.996	.110	17.0%
\$100K to \$150K	.962	.998	.092	14.0%
\$150K to \$200K	.890	.999	.150	20.3%
\$200K to \$300K	.929	1.000	.094	12.7%
\$300K to \$500K	.924	.961	.223	37.5%
\$500K to \$750K	.896	1.001	.041	8.2%
\$750K to \$1,000K	.883	1.000	.053	8.1%
Over \$1,000K	.905	1.023	.107	15.1%
Overall	.992	1.064	.138	26.2%

Subclass

		Count	Percent
ABSTRLND	100.00	89	28.6%
	200.00	16	5.1%
	300.00	4	1.3%
	510.00	7	2.3%
	520.00	11	3.5%
	530.00	4	1.3%
	540.00	8	2.6%
	550.00	16	5.1%
	1112.00	134	43.1%
	1125.00	2	0.6%
	1135.00	4	1.3%
	2112.00	3	1.0%
	2120.00	2	0.6%
	2130.00	4	1.3%
	2135.00	1	0.3%
	2662.00	1	0.3%
	3112.00	5	1.6%
Overall		311	100.0%
Excluded		0	
Total		311	



		D: D. ()	0 (5: 1 (Coefficient of
_		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
100.00	1.000	1.076	.148	26.2%
200.00	.963	.948	.111	23.9%
300.00	1.068	1.012	.034	4.4%
510.00	.878	1.264	.369	83.4%
520.00	.930	1.105	.158	24.3%
530.00	.913	1.011	.126	14.7%
540.00	.912	1.105	.338	48.5%
550.00	.875	1.144	.308	43.8%
1112.00	1.000	1.034	.095	21.1%
1125.00	.857	1.017	.057	8.0%
1135.00	1.011	.994	.072	11.0%
2112.00	.986	.990	.018	3.0%
2120.00	.971	.999	.001	0.2%
2130.00	.930	1.006	.082	9.5%
2135.00	1.458	1.000	.000	
2662.00	.199	1.000	.000	
3112.00	.999	1.459	.133	32.9%
Overall	.992	1.064	.138	26.2%