



2023

OURAY COUNTY PROPERTY ASSESSMENT STUDY





September 15, 2023

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

RE: Final Report for the 2023 Colorado Property Assessment Study

Dear Ms. Castle:

East West Econometrics - Audit Division is pleased to submit the Final Reports for the 2023 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 locally assessed 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.

East West Econometrics – Audit Division appreciates the opportunity to be of service to the State of Colorado. Please contact us with any questions or concerns.

A handwritten signature in black ink that reads "Harry J. Fuller".

Harry J. Fuller
Project Manager
East West Econometrics – Audit Division

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INTRODUCTION



Colorado

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 and subdivision discounting procedures. Valuation methodology for vacant land, improved residential properties and commercial 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.

East West Econometrics Audit has completed the Property Assessment Study for 2023 and is pleased to report its findings for Ouray County in the following report.

Historical Information

Ouray County has approximately 541.6 square miles and an estimated population of approximately 4,952 people with 8.2 people per square mile, according to the U.S. Census Bureau's 2020 estimated census data. This represents an 11.5 percent change from April 1, 2010 to July 1, 2019.

Ouray County lies in the southwestern corner of Colorado in the heart of the San Juan mountains. Ouray County's landscape is dominated by mountain peaks with 12 peaks 13,000 ft or higher.

Ouray County was formed out of San Juan County on 18 January 1877, the first county designated by the newly formed Colorado State Legislature. It was named for Chief Ouray, a distinguished Ute Indian chief. Ouray was designated county seat on 8 March 1877. On 19 February 1881, Dolores County was formed out of Ouray County.

On February 27, 1883, Ouray County was split into San Miguel County and what is currently Ouray County. The portion that became San Miguel County almost retained the name Ouray County when the Colorado General Assembly initially renamed Ouray County as Uncompaghre County. Four days later on March 2nd, the General Assembly changed its mind and changed the name of Uncompaghre County back to Ouray County.

The county covers 542 square miles. Two municipalities lie within the county, the city of Ouray and the town of Ridgway. During the late 19th and early 20th centuries the primary industries in the county were mining and agriculture. With the decline of the mining industry, tourism increased with many drawn to Ouray County for its natural beauty and variety of outdoor activities.

The county seat is the city of Ouray which was originally established by miners chasing silver and gold in the surrounding mountains. The town at one time boasted more horses and mules than people. Prospectors arrived in the area in 1875 searching for silver and gold. At the height of the mining, Ouray had more than 30 active mines.

Today, the entirety of Main St. is registered as a National Historic District with most of the buildings dating back to the late nineteenth century. The Beaumont Hotel and the Ouray City Hall and Walsh Library are listed on the National Register of Historic Places individually, while the Ouray County Courthouse, St. Elmo Hotel, St. Joseph's Miners' Hospital (currently housing the Ouray County Historical Society and Museum), Western Hotel, and Wright's Opera House are included in the historic district.

(www.Wikipedia.org, ouraycountycolorado.gov)

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, 2021 through June 30th, 2022. 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
Residential Condominium	Between .95-1.05	Less than 15.99
Residential	Between .95-1.05	Less than 15.99
Vacant Land	Between .95-1.05	Less than 20.99

The results for Ouray County are:

Ouray County Ratio Grid						
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis	
Commercial/Industrial	36	1.021	1.012	12.3	Compliant	
Residential	259	0.951	1.012	1.06	Compliant	
Vacant Land	N/A	N/A	N/A	N/A	N/A	

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

SBOE, DPT, and Colorado State Statute valuation guidelines.

Recommendations

None

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 Ouray County has complied with the statutory requirements to analyze the effects of time on value in their county. Ouray County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations

None

SOLD / UNSOLD ANALYSIS

Methodology

Ouray 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. The 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. The model determines if the sold/unsold variable is statistically and empirically significant. If all 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 non-parametric 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 Results	
Property Class	Results
Commercial/Industrial	Compliant
Residential	Compliant
Vacant Land	N/A

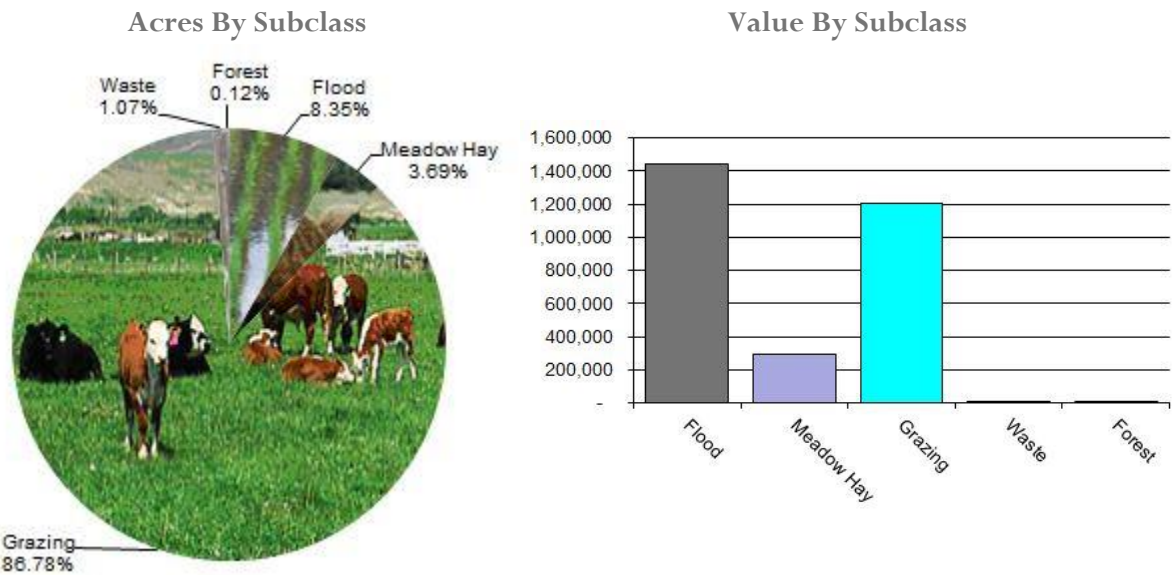
Conclusions

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

Recommendations

None

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: Aerial 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:

Ouray 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	11,025	130.74	1,441,422	1,387,231	1.04
4137	Meadow Hay	4,870	60.95	296,864	296,864	1.00
4147	Grazing	114,645	10.54	1,208,154	1,208,154	1.00
4177	Forest	158	3.02	477	477	1.00
4167	Waste	1,409	2.19	3,082	3,082	1.00
Total/ Avg		132,107	22.33	2,949,998	2,895,807	1.02

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.

Property Taxation for the valuation of agricultural outbuildings.

Recommendations

None

Conclusions

Ouray County has substantially complied with the procedures provided by the Division of

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

Ouray 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

Ouray 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.:

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

Ouray 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

None

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.

EWE reviewed the sales verification procedures in 2023 for Ouray County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically EWE selected 72 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 \$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 has reviewed with the assessor any analysis indicating that sales data are

inadequate, fail to reflect typical properties, or have been disqualified for insufficient cause. In addition, the contractor has reviewed the disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis to 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.

The following subclasses were analyzed for Ouray County:

0100 Residential Lots

Conclusions

Ouray County appears to be doing an adequate job of verifying their sales. EWE agreed with the county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

Ouray County has submitted a written narrative describing the economic areas that make up the county's market areas. Ouray 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 Ouray 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

None

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

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2023 in Ouray County. The review showed that subdivisions were discounted pursuant to 39-1-103 (14) C.R.S. Discounting procedures were applied to all subdivisions where less than 80 percent of vacant land parcels were sold. An absorption rate was estimated for each discounted subdivision. An appropriate discount rate was developed using the Summation Method,

following Division of Property Taxation guidelines.

Conclusions

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

Recommendations

None

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 Chapter 39-1-103 (17)(a) (II) C.R.S. 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 granted under lease, permit, license, concession, contract, or other agreement.

Ouray 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

Ouray 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

None

PERSONAL PROPERTY AUDIT

Ouray 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.

Ouray 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.

Ouray County submitted their personal property written audit plan and was current for the 2023 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:

- Accounts with obvious discrepancies
- New businesses filing for the first time
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Non-filing Accounts - Best Information Available
- Accounts protested with substantial disagreement

Conclusions

Ouray 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

None

EAST WEST ECONOMETRICS 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 OURAY COUNTY
2023**

I. OVERVIEW

Ouray County is located in southwestern Colorado. The county has a total of 5,391 real property parcels, according to data submitted by the county assessor’s office in 2023. The following provides a breakdown of property classes for this county:



Due to the number of vacant land properties, we were not required to perform a statistical compliance test.

For residential improved properties, single family properties accounted for 88.6% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 7.6% of all such properties in this county.

II. DATA FILES

The following sales analyses were based on the requirements of the 2023 Colorado Property Assessment Study. Information was provided by the Ouray Assessor’s Office in May 2023. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

There were 263 qualified residential sales for the 24-month sale period ending June 30, 2022. 4 sales were trimmed using IAAO standards, resulting in a final total of 259 sales. The sales ratio analysis results were as follows:

Median	0.951
Price Related Differential	1.012
Coefficient of Dispersion	10.6

We next stratified the sale ratio analysis by economic area, as follows:

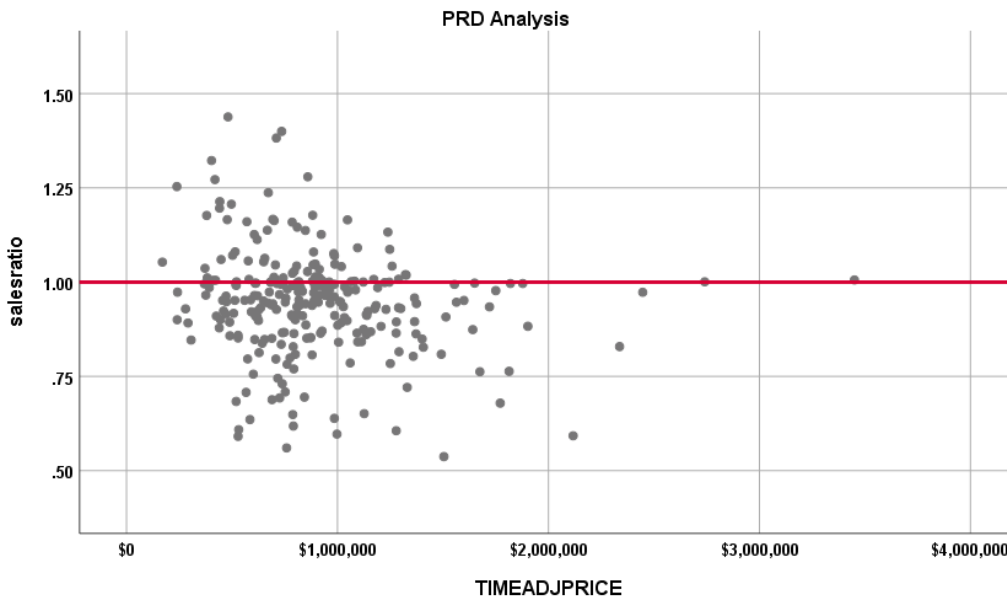
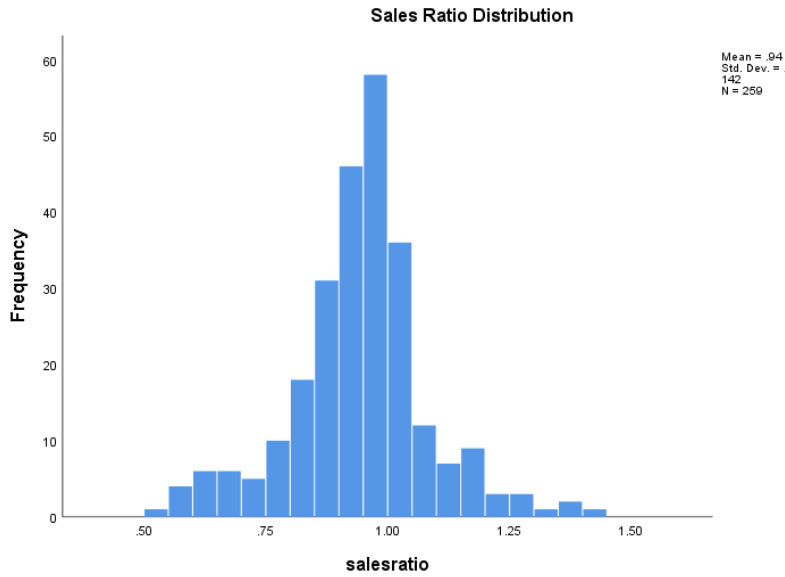
Case Processing Summary

		Count	Percent
ECONAREA	1.00	74	31.4%
	2.00	97	41.1%
	3.00	2	0.8%
	4.00	3	1.3%
	5.00	1	0.4%
	6.00	35	14.8%
	7.00	24	10.2%
Overall		236	100.0%
Excluded		23	
Total		259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1.00	.961	.997	.113
2.00	.950	1.014	.101
3.00	1.034	1.013	.019
4.00	.932	1.059	.126
5.00	1.006	1.000	.000
6.00	.928	1.001	.084
7.00	1.039	1.034	.144
Overall	.951	1.013	.110

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

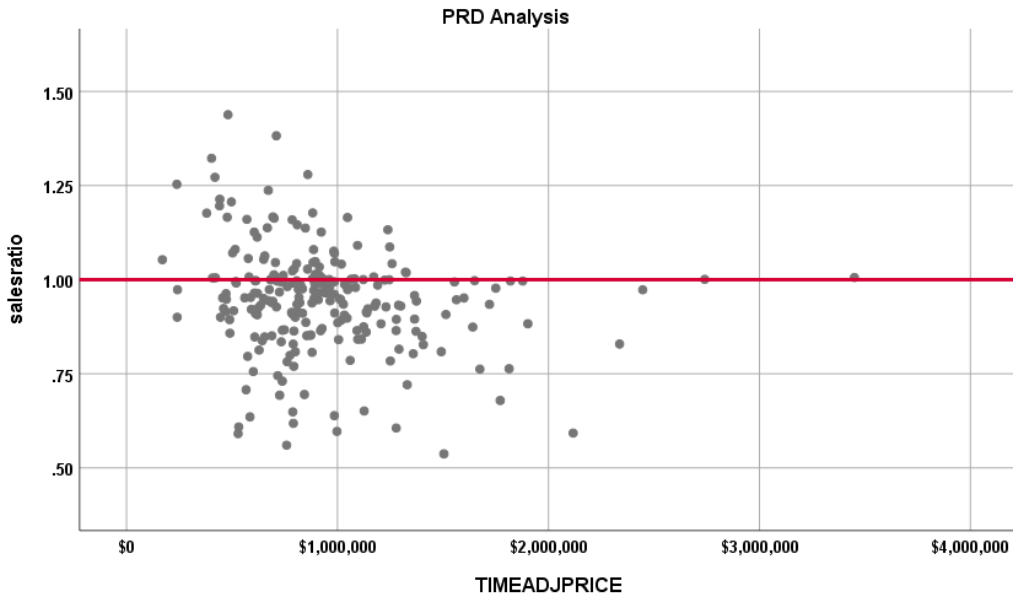


The above graphs indicate that the distribution of the sale ratios was within state mandated limits.

Subclass 1212 PRD Analysis

We next analyzed residential properties identified as 1212 using the state abstract code system. These include single family residences, town homes and purged manufactured homes. The following indicates the distribution of sales ratios across the sale price spectrum:

1212 SALES



The Price-Related Differential (PRD) for 1212 sales is 1.014, which is within IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor’s current value to further test for regressivity or progressivity in the residential sales valuation, as follows:

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.913	.023		40.129	.000
	CURRTOT	3.694E-8	.000	.102	1.551	.122

a. Dependent Variable: salesratio

The slope of the line is not statistically significant, indicating that there is virtually no slope in the regression line (i.e. the sales ratios are similar across the entire sale price array). We concluded that there was no evidence of regressivity or progressivity in the residential values assigned by the assessor.

We also stratified the sales ratio analysis by the sale price range, as follows:

Case Processing Summary

		Count	Percent
SPRec	LT \$300K	4	1.7%
	\$300K to \$400K	1	0.4%
	\$400K to \$500K	17	7.4%
	\$500K to \$600K	16	6.9%
	\$600K to \$750K	45	19.5%
	\$750K to \$1000K	71	30.7%
	\$1000K to \$2000K	72	31.2%
	Over \$2000K	5	2.2%
Overall	231	100.0%	
Excluded	0		
Total	231		

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$300K	1.013	1.001	.107	15.5%
\$300K to \$400K	1.177	1.000	.000	.
\$400K to \$500K	1.005	1.002	.144	18.9%
\$500K to \$600K	.952	1.001	.143	19.7%
\$600K to \$750K	.965	1.000	.102	13.9%
\$750K to \$1000K	.965	.998	.100	14.3%
\$1000K to \$2000K	.929	1.004	.089	12.2%
Over \$2000K	.973	.978	.120	21.0%
Overall	.952	1.014	.107	15.0%

The above table indicates no regressivity in the sales ratios across sale price categories.

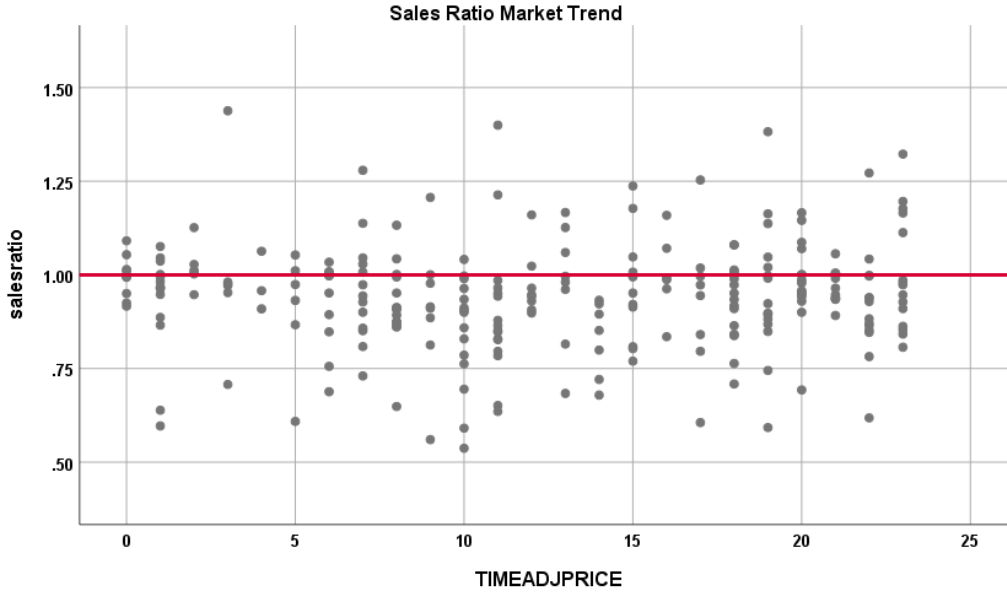
Residential Market Trend Analysis

We next analyzed the residential dataset using the 24-month sale period used by the county to analyze market trending) for any residual market trending, with the following results:

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.936	.018		52.370	.000
	SalePeriod	.001	.001	.032	.509	.611

a. Dependent Variable: salesratio



There was not a statistically significant trend in the above sales ratio analysis related to market trending. We therefore conclude 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 2023 between each group, as follows:

Report

VALSF			
Category	N	Median	Mean
UNSOLD	2408	\$381	\$385
SOLD	259	\$395	\$403

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	.020	Retain the null hypothesis.

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

We stratified this analysis by economic area, as follows:

Report

VALSF	ECONAREA		sold	N	Median	Mean
1.00	UNSOLD	627			\$352	\$352
	SOLD	74			\$372	\$380
2.00	UNSOLD	873			\$418	\$419
	SOLD	97			\$414	\$422
3.00	UNSOLD	34			\$163	\$207
	SOLD	2			\$293	\$293
4.00	UNSOLD	64			\$358	\$338
	SOLD	3			\$206	\$484
5.00	UNSOLD	16			\$425	\$412
	SOLD	1			\$465	\$465
6.00	UNSOLD	506			\$384	\$395
	SOLD	35			\$391	\$411
7.00	UNSOLD	114			\$272	\$259
	SOLD	24			\$307	\$310

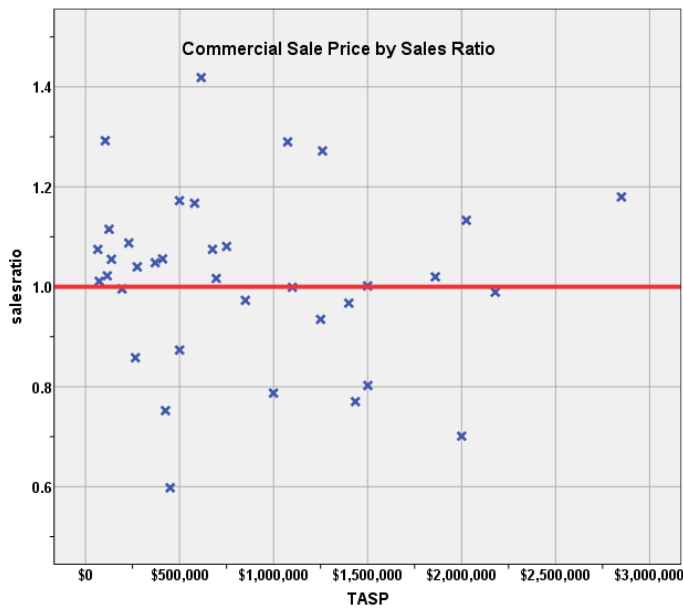
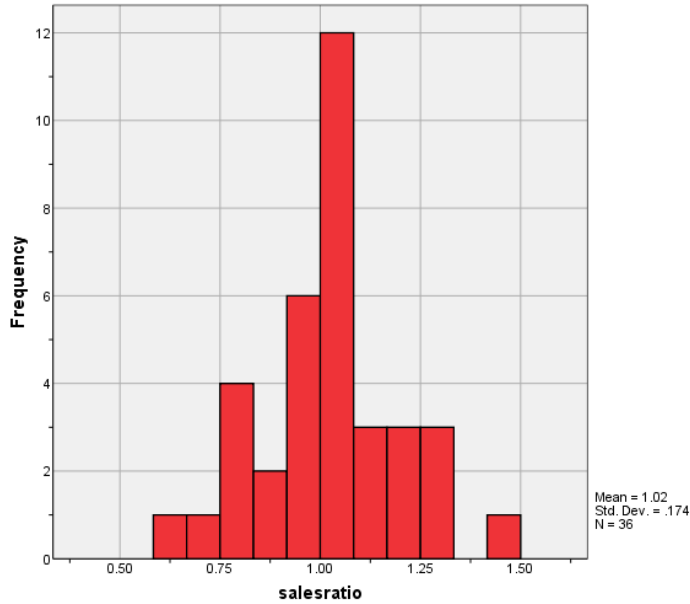
The above results indicate that sold and unsold residential properties were valued in a consistent manner.

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

There were 36 qualified commercial/industrial sales for the 60-month sale period ending June 30, 2022. The sales ratio analysis was analyzed as follows:

Median	1.021
Price Related Differential	1.012
Coefficient of Dispersion	12.3

The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. 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. No sales were trimmed.

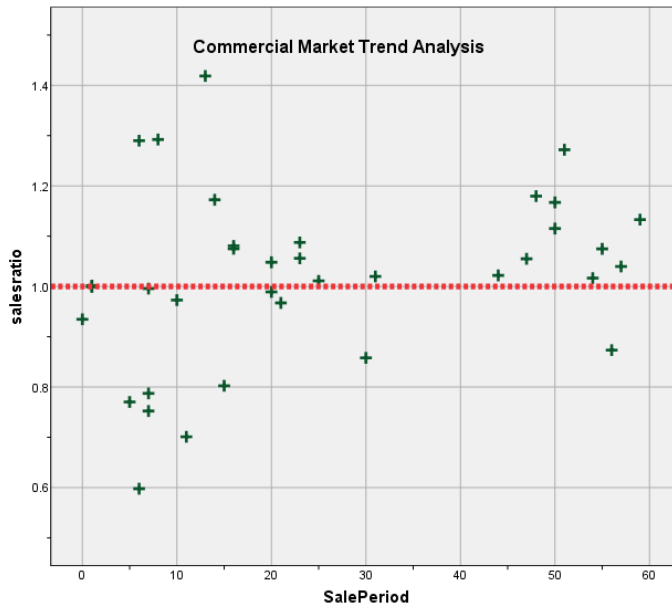
Commercial Market Trend Analysis

We next analyzed the 36 commercial sales qualified by the county to analyze market trending) for any residual market trending, with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized	t	Sig.	
	B	Std. Error	Coefficients Beta			
1	(Constant)	.955	.046		20.586	.000
	SalePeriod	.002	.001	.281	1.704	.097

a. Dependent Variable: salesratio



The number of commercial sales over the 5 year period and the range of subclasses made analyzing the market trending not possible.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold commercial properties, we compared the median actual value per square foot for 2023 between each group, as follows:

Report

VALSF				
	sold	N	Median	Mean
	UNSOLD	306	\$299	\$346
	SOLD	36	\$234	\$270

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	.010	Retain the null hypothesis.

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

The above results indicate that there was no supportable evidence statistically that sold and unsold commercial/industrial properties were valued differently.

V. CONCLUSIONS

Based on this statistical analysis, there were no significant compliance issues concluded for Ouray County as of the date of this report.

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP												
Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.944	.926	.961	.951	.938	.967	95.3%	.932	.914	.950	1.012	.106	15.0%

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.

Commercial Land

Ratio Statistics for CURRTOT / TASP												
Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
1.017	.959	1.076	1.021	.989	1.075	97.1%	1.006	.930	1.082	1.012	.123	17.1%

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.

Residential Median Ratio Stratification

Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	231	89.2%
	1213.50	1	0.4%
	1215.00	5	1.9%
	1220.00	1	0.4%
	1230.00	21	8.1%
Overall		259	100.0%
Excluded		0	
Total		259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1212.00	.952	1.014	.107	15.0%
1213.50	.947	1.000	.000	.
1215.00	.868	.980	.239	34.9%
1220.00	.943	1.000	.000	.
1230.00	.951	1.006	.072	9.4%
Overall	.951	1.012	.106	14.9%

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	21	8.1%
	50 to 75	6	2.3%
	25 to 50	86	33.2%
	5 to 25	114	44.0%
	5 or Newer	32	12.4%
Overall		259	100.0%
Excluded		0	
Total		259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.965	.990	.109	16.4%
50 to 75	.957	1.063	.226	29.0%
25 to 50	.931	1.012	.110	14.9%
5 to 25	.950	1.009	.088	12.8%
5 or Newer	1.000	1.028	.119	16.3%
Overall	.951	1.012	.106	14.9%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1	0.4%
	500 to 1,000 sf	16	6.2%
	1,000 to 1,500 sf	49	18.9%
	1,500 to 2,000 sf	62	23.9%
	2,000 to 3,000 sf	92	35.5%
	3,000 sf or Higher	39	15.1%
Overall		259	100.0%
Excluded		0	
Total		259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	.846	1.000	.000	.
500 to 1,000 sf	.919	1.020	.113	15.7%
1,000 to 1,500 sf	.917	1.025	.136	18.1%
1,500 to 2,000 sf	.964	1.029	.100	14.8%
2,000 to 3,000 sf	.948	1.018	.105	14.5%
3,000 sf or Higher	.987	1.009	.072	10.7%
Overall	.951	1.012	.106	14.9%

Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	121202 - Q6	1	0.4%
	121203 - Q5	7	2.7%
	121204 - Q4	57	22.0%
	121205 - Q3	55	21.2%
	121206 - Q2	14	5.4%
	121207 - Q1	1	0.4%
	121212 - Manufactured Homes Q4	6	2.3%
	121213 - Manufactured Homes Q5	2	0.8%
	121215 - RIDGWAY Q5 FAIR AVERAGE	2	0.8%
	121216 - RIDGWAY Q4 AVERAGE	24	9.3%
	121217 - RIDGWAY Q3 GOOD	16	6.2%
	121218 - FAIRWAY PINES Q3	18	6.9%
	121219 - FAIRWAY PINES Q2	5	1.9%
	121504 - Townhomes Q4 Average	13	5.0%
	121505 - Townhomes Q3 Good	17	6.6%

124002 - CONDOTEL CONDO	5	1.9%
124003 - FAIR CONDO	1	0.4%
124004 - AVG CONDO	9	3.5%
124005 - GOOD CONDO	2	0.8%
124011 - ONE BEDROOM CONDO FAIR	2	0.8%
124016 - CONDO OVER 1500SF	2	0.8%
Overall	259	100.0%
Excluded	0	
Total	259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
121202 - Q6	.973	1.000	.000	.
121203 - Q5	.952	1.038	.123	17.4%
121204 - Q4	.910	1.013	.133	18.0%
121205 - Q3	.951	1.014	.094	12.4%
121206 - Q2	.976	1.006	.073	13.1%
121207 - Q1	1.006	1.000	.000	.
121212 - Manufactured Homes Q4	.955	1.007	.098	16.0%
121213 - Manufactured Homes Q5	.908	1.000	.001	0.2%
121215 - RIDGWAY Q5 FAIR	.695	.996	.193	27.3%
121216 - RIDGWAY Q4 AVERAGE	.978	1.014	.082	12.4%
121217 - RIDGWAY Q3 GOOD	.956	1.008	.067	8.4%
121218 - FAIRWAY PINES Q3	1.039	1.034	.138	16.8%
121219 - FAIRWAY PINES Q2	.930	1.028	.165	27.5%
121504 - Townhomes Q4 Average	.915	1.006	.112	15.3%
121505 - Townhomes Q3 Good	1.000	1.010	.058	8.1%
124002 - CONDOTEL CONDO	.965	1.009	.071	9.6%
124003 - FAIR CONDO	.951	1.000	.000	.
124004 - AVG CONDO	.910	1.023	.087	11.6%
124005 - GOOD CONDO	.924	.979	.084	11.8%
124011 - ONE BEDROOM CONDO FAIR	.910	1.000	.020	2.9%
124016 - CONDO OVER 1500SF	.996	1.000	.005	0.7%
Overall	.951	1.012	.106	14.9%

Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	1 - C-6	1	0.4%
	2 - C-5	2	0.8%
	3 - C-4	90	34.7%
	4 - C-3	125	48.3%
	5 - C-2	41	15.8%
Overall		259	100.0%
Excluded		0	
Total		259	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1 - C-6	.973	1.000	.000	.
2 - C-5	.730	1.138	.233	32.9%
3 - C-4	.947	1.009	.119	17.0%
4 - C-3	.947	1.008	.088	11.9%
5 - C-2	.997	1.034	.119	16.5%
Overall	.951	1.012	.106	14.9%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$50K to \$100K	2	5.6%
	\$100K to \$150K	4	11.1%
	\$150K to \$200K	1	2.8%
	\$200K to \$300K	3	8.3%
	\$300K to \$500K	6	16.7%
	\$500K to \$750K	5	13.9%
	\$750K to \$1,000K	2	5.6%
	Over \$1,000K	13	36.1%
Overall		36	100.0%
Excluded		0	
Total		36	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$50K to \$100K	1.043	1.002	.031	4.3%
\$100K to \$150K	1.085	1.006	.076	11.7%
\$150K to \$200K	.996	1.000	.000	.
\$200K to \$300K	1.040	1.004	.074	12.8%
\$300K to \$500K	.961	1.001	.183	23.0%
\$500K to \$750K	1.081	1.007	.091	16.4%
\$750K to \$1,000K	.880	1.009	.105	14.9%
Over \$1,000K	.999	1.000	.133	18.2%
Overall	1.021	1.012	.123	17.0%

Subclass

Case Processing Summary

	Count	Percent
ABSTRIMP	1545.33	1
	1546.33	1
	1712.00	2
	1713.50	2
	1737.50	1
	1882.33	1
	1885.67	1
	1890.67	1
	2014.40	1
	2047.33	1
	2212.00	3
	2215.00	3
	2220.00	1
	2224.00	1
	2225.67	1
	2226.67	1
	2230.00	3
	2232.50	1
	2245.00	10
Overall	36	100.0%
Excluded	0	
Total	36	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1545.33	1.048	1.000	.000	.
1546.33	1.002	1.000	.000	.
1712.00	1.068	.997	.012	1.6%
1713.50	1.220	.984	.043	6.1%
1737.50	1.172	1.000	.000	.
1882.33	.967	1.000	.000	.
1885.67	1.290	1.000	.000	.
1890.67	1.075	1.000	.000	.
2014.40	1.133	1.000	.000	.

2047.33	.989	1.000	.000	.
2212.00	.873	.955	.313	49.5%
2215.00	.935	.950	.135	21.1%
2220.00	.973	1.000	.000	.
2224.00	.787	1.000	.000	.
2225.67	.770	1.000	.000	.
2226.67	.701	1.000	.000	.
2230.00	.999	.995	.112	18.6%
2232.50	1.020	1.000	.000	.
2245.00	1.031	1.026	.065	10.7%
Overall	1.021	1.012	.123	17.0%

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	8	22.2%
	75 to 100	1	2.8%
	50 to 75	5	13.9%
	25 to 50	10	27.8%
	5 to 25	12	33.3%
Overall		36	100.0%
Excluded		0	
Total		36	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.937	1.063	.175	21.0%
75 to 100	1.133	1.000	.000	.
50 to 75	.973	.998	.086	16.0%
25 to 50	1.000	1.005	.142	20.9%
5 to 25	1.055	1.065	.086	12.4%
Overall	1.021	1.012	.123	17.0%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	4	11.1%
	500 to 1,000 sf	4	11.1%
	1,000 to 1,500 sf	3	8.3%
	1,500 to 2,000 sf	2	5.6%
	2,000 to 3,000 sf	9	25.0%
	3,000 sf or Higher	14	38.9%
Overall		36	100.0%
Excluded		0	
Total		36	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	1.081	.997	.068	11.9%
500 to 1,000 sf	1.038	1.005	.037	5.1%
1,000 to 1,500 sf	1.040	.961	.099	15.1%
1,500 to 2,000 sf	.675	1.003	.114	16.2%
2,000 to 3,000 sf	1.048	1.072	.125	18.9%
3,000 sf or Higher	1.009	.991	.123	16.3%
Overall	1.021	1.012	.123	17.0%

Improvement Condition

Case Processing Summary

	Count	Percent
QUALITY	8	22.2%
1 - BELOW AVERAGE	2	5.6%
121204 - Q4	1	2.8%
121205 - Q3	1	2.8%
124004 - AVG CONDO	1	2.8%
2 - AVERAGE	20	55.6%
3.5 - GOOD	3	8.3%
Overall	36	100.0%
Excluded	0	
Total	36	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
	.995	1.013	.100	17.4%
1 - BELOW AVERAGE	.920	1.057	.182	25.8%
121204 - Q4	1.167	1.000	.000	.
121205 - Q3	1.290	1.000	.000	.
124004 - AVG CONDO	1.172	1.000	.000	.
2 - AVERAGE	1.035	.987	.109	16.0%
3.5 - GOOD	.802	.991	.120	18.7%
Overall	1.021	1.012	.123	17.0%