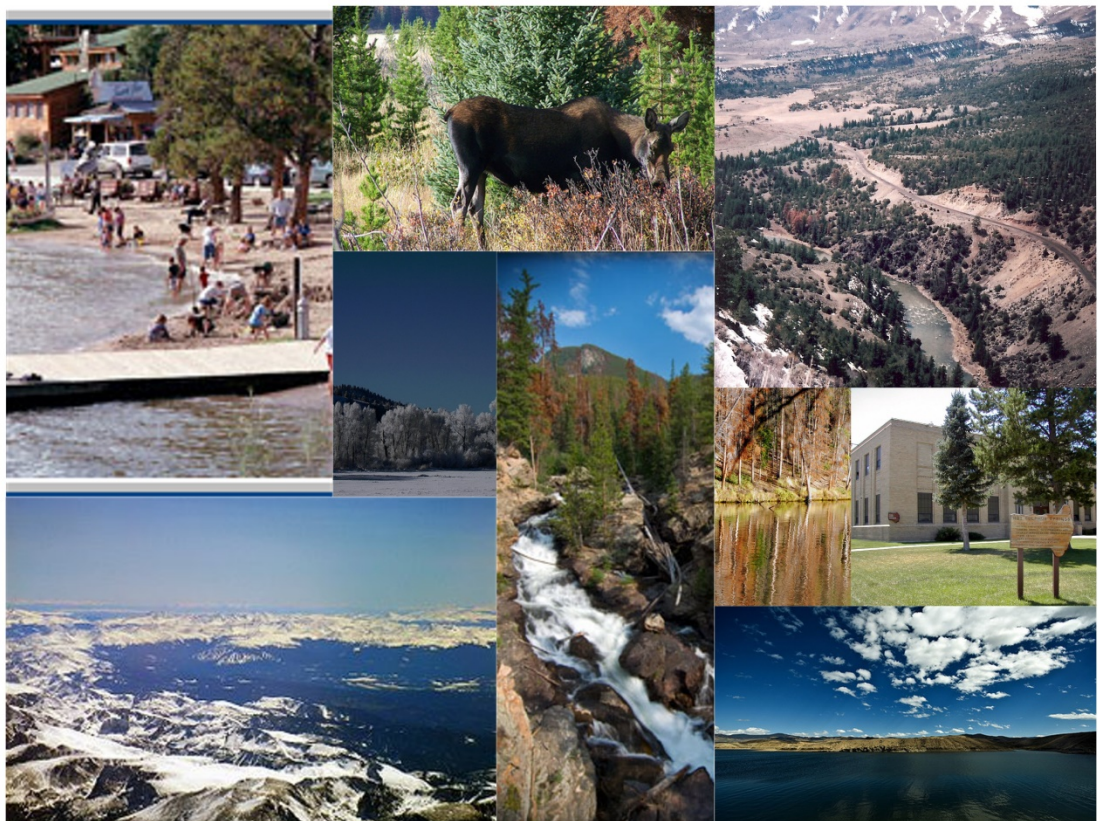




2020
GRAND COUNTY
PROPERTY ASSESSMENT
STUDY



WILDROSE
APPRAISAL, INCORPORATED
Audit Division



September 15, 2020

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

RE: Final Report for the 2020 Colorado Property Assessment Study

Dear Ms. Mullis:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2020 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.

A handwritten signature in black ink that reads "Harry J. Fuller". The signature is written in a cursive style.

Harry J. Fuller
Project Manager
Wildrose Appraisal Inc. – 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.

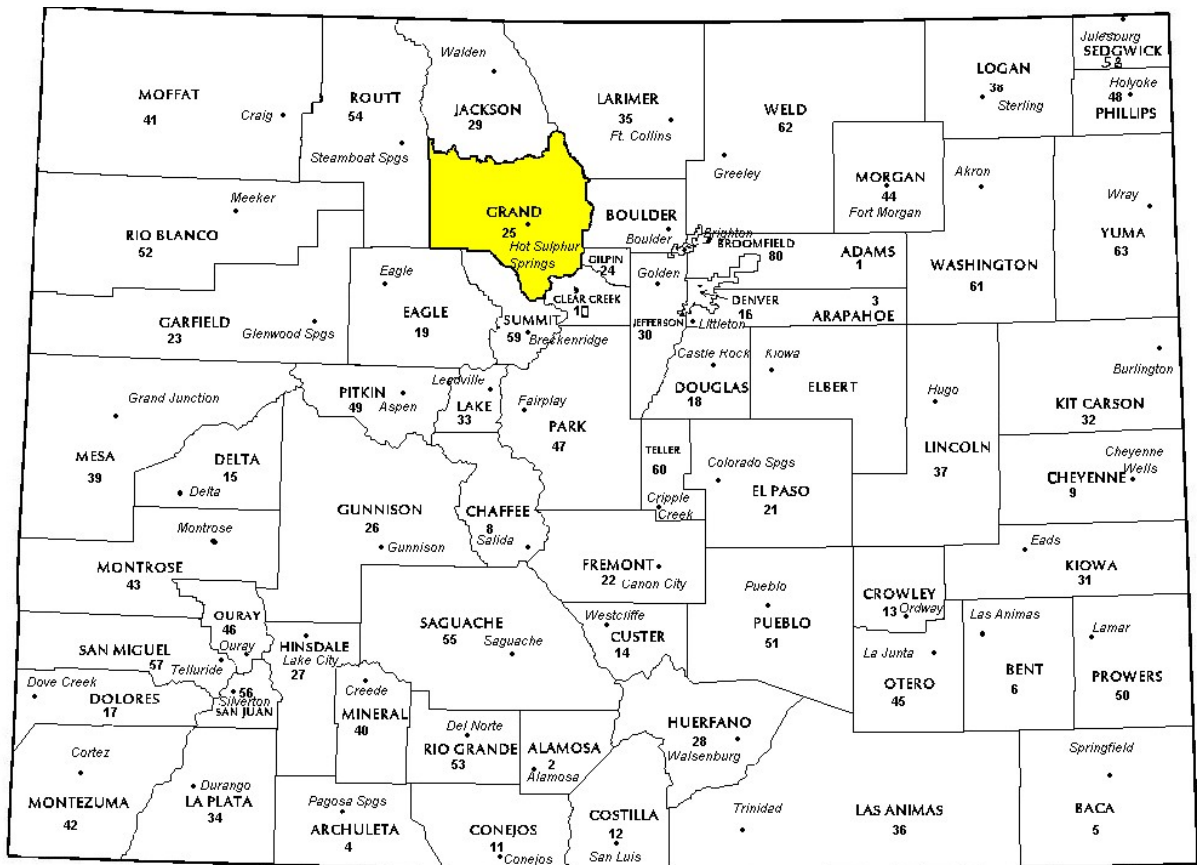
Wildrose Audit has completed the Property Assessment Study for 2020 and is pleased to report its findings for Grand County in the following report.

REGIONAL/HISTORICAL SKETCH OF GRAND COUNTY

Regional Information

Grand 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

Grand County had an estimated population of approximately 15,008 people with 8.13 people per square mile, according to the U.S. Census Bureau's 2016 estimated census data. This represents a 1.1 percent change from April 1, 2010 to July 1, 2016.

When Grand County was created on February 2, 1874 it was carved out of Summit County and contained land to the western and northern borders of the state, which is now in present day Moffat County and Routt County. It was named after Grand Lake and the Grand River, an old name for the Colorado River, which has its headwaters in the county. On January 29, 1877 Routt County was created and Grand County shrunk down to its current western boundary. When valuable minerals were found in North Park, Grand County claimed the area as part of its county, a claim Larimer County also held. It took a decision by the Colorado Supreme Court in 1886 to declare North Park part of Larimer County, setting Grand County's northern boundary.

Grand Lake is the deepest and largest natural lake in Colorado and the area attracts an impressive diversity of wildlife. Prehistoric peoples, and later Native American Ute, Arapaho and Cheyenne tribes made annual pilgrimages to the area each summer to fish, hunt and reap the bounty of nature's harvest. It

wasn't long before trappers, traders and explorers followed.

In the mid-1800s, European hunting parties discovered Grand Lake. Some hunters constructed summer lodges and hired local mountain men as guides. The area was permanently settled in 1867. Grand Lake Village's first full-time, year-round residents were an intriguing mix of miners (who participated in a brief mining boom) and hunting guides. In the late 1870s, silver was discovered in the rivers and mountains near Grand Lake. Prospectors bought supplies in local stores and established small mountain mining communities. Almost overnight, the town of Grand Lake transformed into a bustling economy.

Winter Park Resort is Colorado's longest continually operated ski resort featuring over 3,000 acres of award-winning terrain including groomers, terrain parks, bumps, steeps, trees, and most definitely deeps. Winter Park Resort averages 329 inches of snow, much in part to its ideal location amidst the Rocky Mountains. Just 67 miles northwest of Denver, Winter Park Resort is the closest major destination resort to Denver International Airport.

(Wikipedia.org, www.grandlakechamber.com & <http://www.winterparkresort.com/>)

RATIO ANALYSIS

Methodology

All significant classes of properties were analyzed. Sales were collected for each property class over the appropriate sale period, which was typically defined as the 18-month period between January 1, 2017 and June 30, 2018. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2018 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. 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. 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 Grand County are:

Grand County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	49	0.978	1.135	12.6	Compliant
Condominium	847	0.997	1.012	6.9	Compliant
Single Family	1,316	0.986	1.018	9.9	Compliant
Vacant Land	625	0.982	1.044	14.4	Compliant

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

Grand 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
Condominium	Compliant
Single Family	Compliant
Vacant Land	Compliant

Conclusions

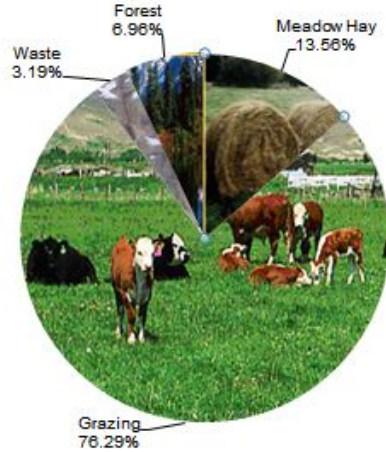
After applying the above described methodologies, it is concluded that Grand County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

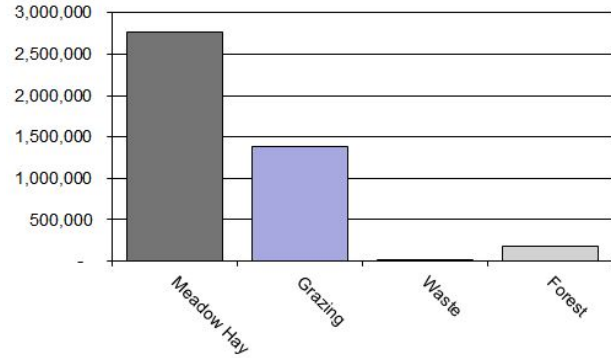
None

AGRICULTURAL LAND STUDY

Acres By Subclass



Value By Subclass



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:

Grand County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4137	Meadow Hay	34,315	80.72	2,770,067	2,770,067	1.00
4147	Grazing	193,059	7.13	1,376,668	1,376,668	1.00
4177	Forest	17,604	10.32	181,707	181,707	1.00
4167	Waste	8,068	2.39	19,249	19,249	1.00
Total/Avg		253,046	17.18	4,347,691	4,347,691	1.00

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

Grand County has 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

Grand 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
- Written Correspondence other than Questionnaire
- Personal Knowledge of Occupants at Assessment Date

- Aerial Photography/Pictometry

Grand 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
- Field Inspections
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Grand County has 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.

WRA reviewed the sales verification procedures in 2020 for Grand County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 30 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.

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.

Conclusions

Grand 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

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

Producing Mines

Methodology

Colorado Revised Statutes (CRS) Article 39, Section 6, and the Assessor's Reference Library (ARL), Volume 3 are the basis for valuing producing mine property. The gross value of the ore extracted during the preceding year is determined. All costs of treatment, reduction, transportation and sale are deducted to estimate gross proceeds. The costs of extraction are deducted from the gross proceeds to estimate net proceeds.

The current value for assessment is determined by determining if 25% of the gross proceeds or 100% of the net proceeds is greater, then applying that number as the valuation for assessment.

Conclusions

The County valued the producing mine production using acceptable appraisal procedures.

Recommendations

None

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2020 in Grand County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14) and by applying the recommended methodology in ARL Vol 3, Chap 4. Subdivision Discounting in the intervening year can be accomplished by reducing the absorption period by one year.

In instances where the number of sales within an approved plat was less than the absorption

rate per year calculated for the plat, the absorption period was left unchanged.

Conclusions

Grand 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.

Grand 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

Grand 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

Grand 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.

Grand 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
- MLS Listing and/or Sold Books
- 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.

Grand County submitted their personal property written audit plan and was current for the 2020 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
- Accounts with omitted property
- Same business type or use



- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts close to the \$7,700 actual value exemption status
- Lowest or highest quartile of value per square foot
- Accounts protested with substantial disagreement

Conclusions

Grand 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

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 GRAND COUNTY 2020

I. OVERVIEW

Grand County is a mountain resort located in western Colorado. The county has a total of 26,349 real property parcels, according to data submitted by the county assessor's office in 2020. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100) accounted for 84.9% of all vacant land parcels.

For residential improved properties, single family properties accounted for 66.3% of all residential properties. Residential condominiums accounted for 31.8% of all residential improved properties. Based on the guidelines for the state audit statistical compliance analysis, we will analyze residential condominiums separately.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 2.4% of all such properties in this county.

Based on the Audit questionnaire, the following geographic levels were used by the assessor to value residential, commercial, and vacant land properties:

Geo Area	Residential	Comm/Ind	Vacant Land
Economic Area	V	V	V
Neighborhood	N	N	N
Subdivision	N	N	N

II. DATA FILES

The following sales analyses were based on the requirements of the 2020 Colorado Property Assessment Study. Information was provided by the Grand Assessor’s Office in April 2020. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

There were 2,163 qualified residential sales in the 24-month sale period ending June 30, 2018. The following analysis separated residential condominiums from other residential property types:

Residential Non-Condominiums (1,316 Sales)

Median	0.986
Price Related Differential	1.018
Coefficient of Dispersion	9.9

Residential Condominiums (847 Sales)

Median	0.997
Price Related Differential	1.012
Coefficient of Dispersion	6.9

We next stratified the sale ratio analysis by economic area and neighborhood. The minimum count for the neighborhood analysis was 10 sales. The following are the results of this stratification analysis:

Economic Area – Non Res Condos Case Processing Summary

		Count	Percent
ECONAREA	1.00	527	40.0%
	2.00	199	15.1%
	3.00	95	7.2%
	4.00	299	22.7%
	5.00	41	3.1%
	6.00	155	11.8%
Overall		1316	100.0%
Excluded		0	
Total		1316	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1.00	.985	1.033	.093
2.00	.983	.996	.080
3.00	.970	1.006	.088
4.00	.992	1.011	.111
5.00	1.000	1.002	.109
6.00	.998	1.009	.119
Overall	.986	1.018	.099

Neighborhood – Non Res Condos

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
119400.0	.970	.998	.057
119450.0	.999	1.002	.075
132240.0	.987	1.006	.045
132405.0	.992	1.003	.054
133113.0	.981	1.011	.099
149025.0	1.002	.999	.044
149027.0	.971	1.005	.065
149040.0	.990	1.006	.042
149101.0	.986	1.014	.084
149102.0	1.000	1.010	.072
227005.0	.997	1.005	.048
247030.0	.950	1.001	.150
247033.0	.968	1.015	.099
248325.0	.991	.997	.071
248326.0	.982	.998	.080
340002.0	.980	.989	.123
340004.0	.949	1.017	.096
341010.0	.964	1.008	.104
453101.0	1.008	.997	.095
456052.0	.970	1.039	.148
570256.0	1.005	1.021	.135
610132.0	1.027	.998	.119
612131.0	.998	1.021	.095
614130.0	.980	1.015	.125
615144.0	.995	1.007	.159
615145.0	.996	1.002	.081
Overall	.988	1.003	.095

Economic Area – Res Condos

Case Processing Summary

	Count	Percent	
Economic Area	1	574	67.8%
	2	191	22.6%
	3	8	0.9%
	4	73	8.6%
	5	1	0.1%
Overall	847	100.0%	
Excluded	0		
Total	847		

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1	.996	1.006	.053
2	.997	1.026	.118
3	1.000	1.000	.010
4	.999	1.008	.059
5	2.076	1.000	.000
Overall	.997	1.012	.069

NBHD – Res Condos

Ratio Statistics for CURRTOT / TASP

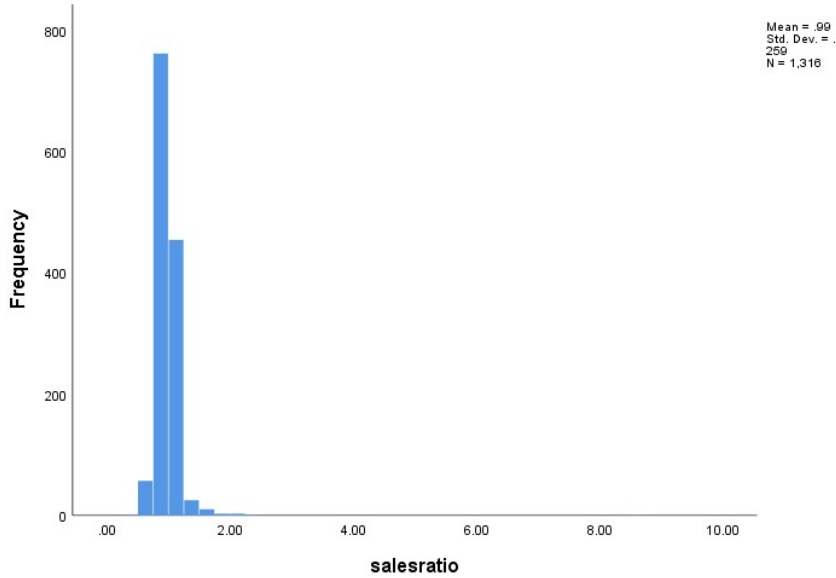
Group	Median	Price Related Differential	Coefficient of Dispersion
130804.00	.991	1.010	.072
132114.13	.973	1.002	.059
132800.00	.995	1.008	.077
132801.00	.999	1.003	.045
133500.00	.997	1.004	.054
133502.00	.998	1.005	.092
133521.00	.995	1.007	.069
134511.00	1.000	1.002	.048
134512.00	.998	1.004	.046
134590.00	.996	1.011	.082
160622.00	.989	1.010	.067
168571.00	1.000	1.003	.039
248534.00	.901	1.141	.368
268650.13	1.001	1.003	.043
268651.13	1.000	1.010	.081
268652.13	.997	1.003	.039
284510.00	.987	1.012	.073
284610.00	1.000	1.008	.064
451595.00	.999	1.005	.068
457564.00	.999	1.010	.092
Overall	.996	1.015	.085

Overall, all economic areas and neighborhoods were in compliance with the exception of one neighborhood (248534). We have contacted the assessor's office to inform them of this one neighborhood, which represents a former lodging property that was converted to a condominium project (The Inn at Silvercreek). Sales in this affordable project reportedly have been volatile.

The following graphs describe further the sales ratio distribution for these properties:

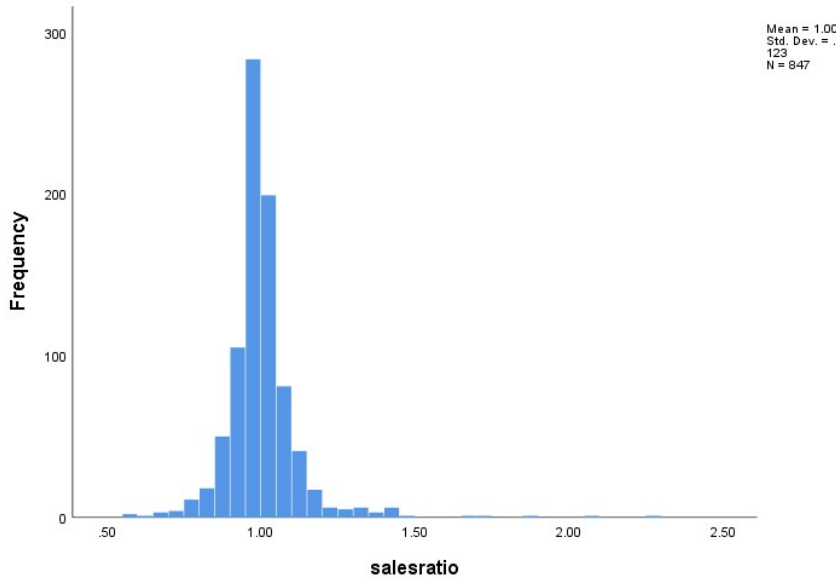
Residential Non-Condominiums

ResCondo: .00
Sales Ratio Distribution



Residential Condominiums

ResCondo: 1.00
Sales Ratio Distribution



The above graphs indicate that the distribution of the sale ratios was within state mandated limits. No sales were trimmed.

Residential Market Trend Analysis

We next analyzed the residential dataset using the 24-month sale period for any residual market trending, as follows:

Coefficients^a

ResCondo	Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
.00	1	(Constant)	.995	.014		72.884	.000
		SalePeriod	.000	.001	-.009	-.325	.745
1.00	1	(Constant)	.987	.008		117.635	.000
		SalePeriod	.002	.001	.086	2.510	.012

a. Dependent Variable: salesratio

The above statistical results indicate that residential non-condominiums had no significant trend in their sales ratios; while residential condominiums had a marginal statistical trend, the magnitude of that trend at 0.2 percent per month was not significant. We therefore concluded that the assessor has adequately addressed market trending in the valuation of residential properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median change in value between taxable years 2018 and 2020 between each group, as follows:

Report

ResCondo	DIFF	sold	N	Median	Mean
.00		UNSOLD	8716	1.2404	1.2530
		SOLD	1278	1.2653	1.2864
1.00		UNSOLD	3744	1.3838	1.4117
		SOLD	790	1.3839	1.4227

NON-RESIDENTIAL CONDOMINIUMS

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of DIFF 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 .00.

RESIDENTIAL CONDOMINIUMS

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of DIFF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.388	Retain the null hypothesis.

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

The above results indicate that sold and unsold residential condominium properties were valued in a consistent manner. Although the Mann-Whitney Test for residential non-condominium properties indicated a statistically significant difference, the actual magnitude of the different between sold and unsold properties was not significant.

We next stratified the sold unsold analysis by economic area, as follows:

Report
DIFF

ECONAREA	ResCondo	sold	N	Median	Mean
1.00	.00	UNSOLD	2621	1.2500	1.2612
		SOLD	499	1.2637	1.2809
2.00	.00	UNSOLD	1094	1.2157	1.2382
		SOLD	198	1.2840	1.2962
3.00	.00	UNSOLD	702	1.2284	1.2202
		SOLD	94	1.2594	1.2792
4.00	.00	UNSOLD	2968	1.2325	1.2446
		SOLD	295	1.2381	1.2651
5.00	.00	UNSOLD	304	1.1354	1.1516
		SOLD	40	1.1041	1.1500
6.00	.00	UNSOLD	988	1.3300	1.3234
		SOLD	152	1.3870	1.3731

We next stratified the sold unsold analysis by neighborhoods with at least 15 non-residential condo sales, as follows:

Report
DIFF

NBHD	sold	N	Median	Mean
119400.0	UNSOLD	65	1.3539	1.3452
	SOLD	16	1.3642	1.3855
132405.0	UNSOLD	44	1.2428	1.2394
	SOLD	16	1.2535	1.2391
149025.0	UNSOLD	25	1.2692	1.2808
	SOLD	24	1.2885	1.2847
149027.0	UNSOLD	1	1.0579	1.0579
	SOLD	25	1.0579	1.1801
248325.0	UNSOLD	69	1.2394	1.2442
	SOLD	25	1.2846	1.3141

	Total	94	1.2476	1.2628
341010.0	UNSOLD	59	1.2316	1.2369
	SOLD	15	1.2381	1.2365
453101.0	UNSOLD	345	1.2524	1.2576
	SOLD	47	1.2610	1.2802
456052.0	UNSOLD	96	1.1347	1.1627
	SOLD	17	1.1448	1.1624
612131.0	UNSOLD	94	1.3080	1.3005
	SOLD	16	1.2915	1.2839
615144.0	UNSOLD	254	1.4348	1.4444
	SOLD	53	1.4250	1.4304
615145.0	UNSOLD	68	1.4329	1.4227
	SOLD	18	1.4401	1.4512

We next analyzed sold and unsold residential condominiums by economic area and by neighborhoods with at least 15 sales, as follows:

Report
DIFF

NBHDCONDO	sale	N	Median	Mean
132800.00	UNSOLD	63	1.3776	1.3830
	SOLD	19	1.3773	1.3748
132801.00	UNSOLD	51	1.2145	1.2305
	SOLD	15	1.2456	1.2285
133521.00	UNSOLD	83	1.6921	1.6891
	SOLD	28	1.6922	1.6876
134511.00	UNSOLD	25	1.3627	1.3506
	SOLD	23	1.3152	1.3294
134590.00	UNSOLD	74	1.5578	1.5520
	SOLD	22	1.5545	1.5532
160622.00	UNSOLD	121	1.5327	1.5521
	SOLD	16	1.5327	1.5342
168571.00	UNSOLD	58	1.3811	1.3824
	SOLD	18	1.3825	1.3825
248534.00	UNSOLD	82	2.4401	2.4401
	SOLD	24	2.4401	2.4394
268651.13	UNSOLD	36	1.2690	1.2693
	SOLD	17	1.2680	1.2679
284510.00	UNSOLD	62	1.2073	1.2137
	SOLD	27	1.2003	1.2032

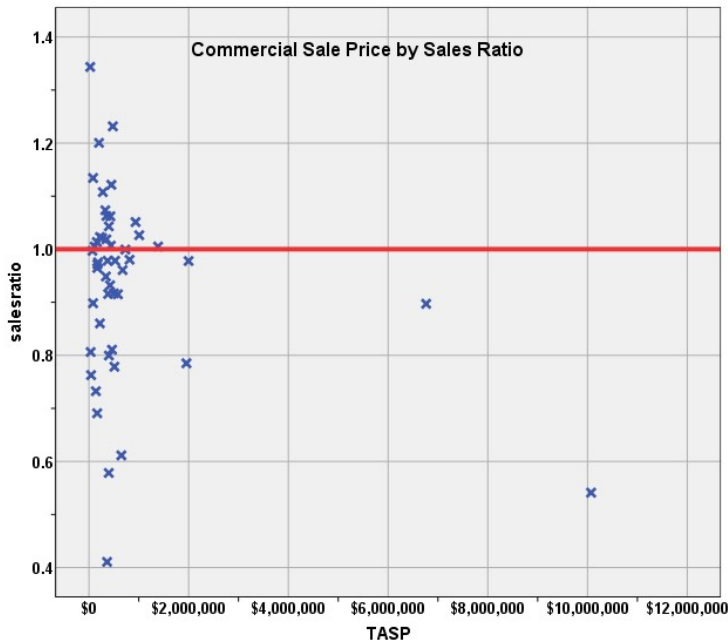
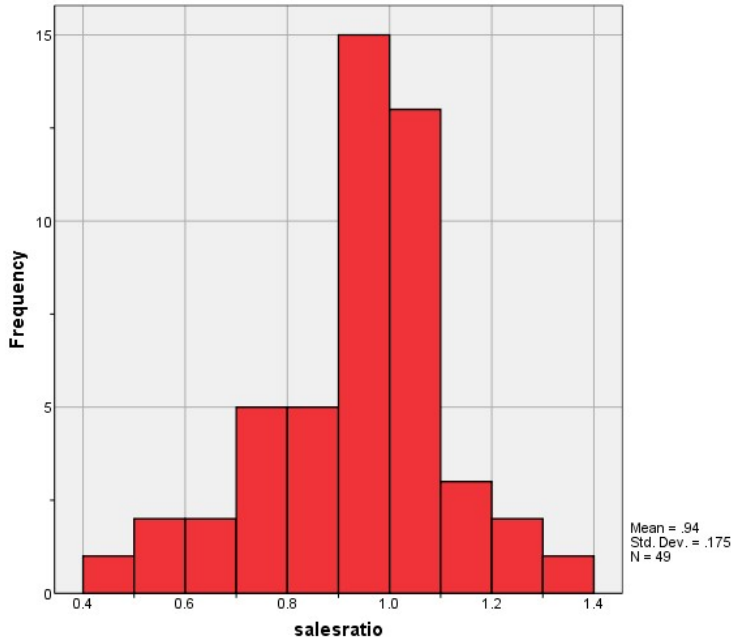
As with the sales ratio analysis, Neighborhood 248534 has experienced significant variation in terms of sale prices. The assessor was contacted regarding this condominium project. Based on the above results, the Grand County assessor has consistently valued sold and unsold residential properties in 2020.

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

There were 49 qualified commercial and industrial sales in the 24 month sale period ending June 30, 2018.

Median	0.978
Price Related Differential	1.135
Coefficient of Dispersion	12.6

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



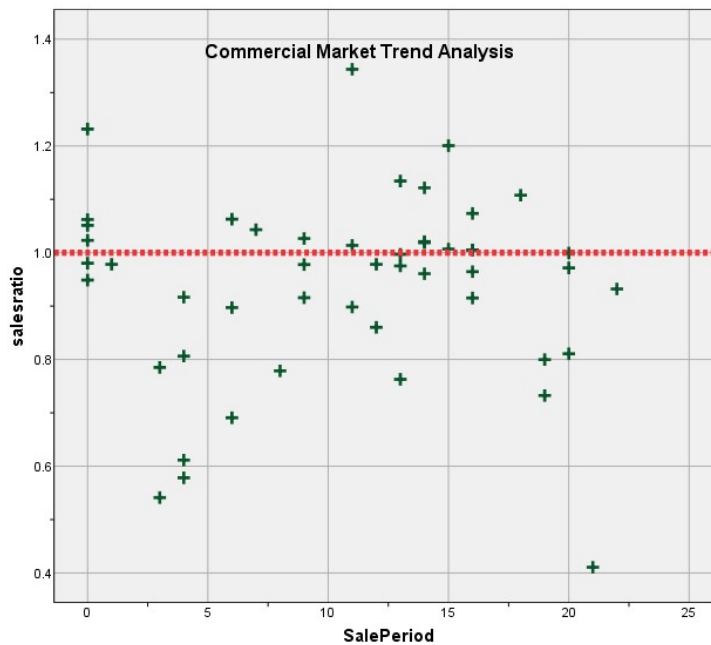
Commercial Market Trend Analysis

The assessor did not apply any market trend adjustment to the commercial dataset. The commercial sales were analyzed, examining the sale ratios across the 24 month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.937	.048		19.528	.000
	SalePeriod	-1.681E-5	.004	-.001	-.004	.997

a. Dependent Variable: salesratio



The market trend results indicated no statistically significant trend. We concur that no market trend adjustments were warranted for properties in this class for Grand County.

Sold/Unsold Analysis

We compared the median and median change in value for taxable years 2018 and 2020 between sold and unsold commercial properties to determine if the assessor was valuing each group consistently. While this is a challenge to prove in this county, given the small number of sales and the overall diversity of commercial/industrial properties across six economic areas, the following results indicate that based on the median and mean actual values, both groups were valued overall in a consistent manner at the class level:

Report

DIFF			
sold	N	Median	Mean
UNSOLD	575	1.1509	1.3306
SOLD	49	1.2055	1.2808

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of DIFF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.053	Retain the null hypothesis.

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

Report

DIFF				
ABSTRIMP	sold	N	Median	Mean
2212.00	UNSOLD	90	1.1703	1.1965
	SOLD	9	1.4647	1.4906
2215.00	UNSOLD	39	1.1303	1.1559
	SOLD	4	1.1831	1.1959
2230.00	UNSOLD	170	1.1714	1.2152
	SOLD	14	1.3171	1.2826
2240.00	UNSOLD	39	1.1074	1.4226
	SOLD	5	1.1648	1.1211
2245.00	UNSOLD	77	1.0769	1.1100
	SOLD	5	1.0893	1.1388

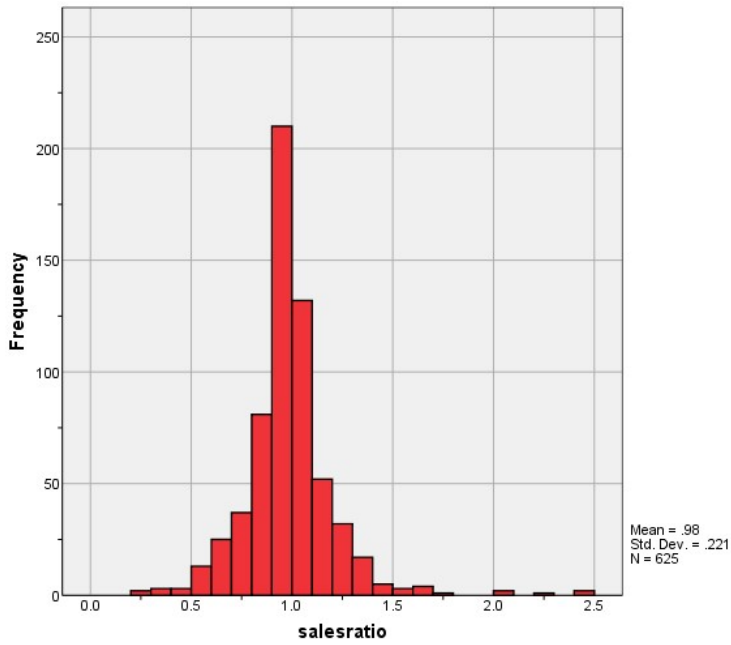
The significant difference for Subclass 2212 was likely due to the smaller average size of the sold properties versus unsold properties (2,352 sf vs 3,836 sf) and were of higher quality. The significant difference for Subclass 2230 was likely due to the higher rated quality of the sold properties versus unsold properties. The assessor was advised of both differences in 2019.

V. VACANT LAND SALE RESULTS

There were 625 qualified vacant land sales in the 24 month sale period ending June 30, 2018. The following analysis analyzed qualified vacant land sales as follows

Median	0.982
Price Related Differential	1.044
Coefficient of Dispersion	14.4

The above table indicates that the Grand County vacant land sale ratios were in compliance with the SBOE standards. The following histogram and scatter plot describe the sales ratio distribution further:



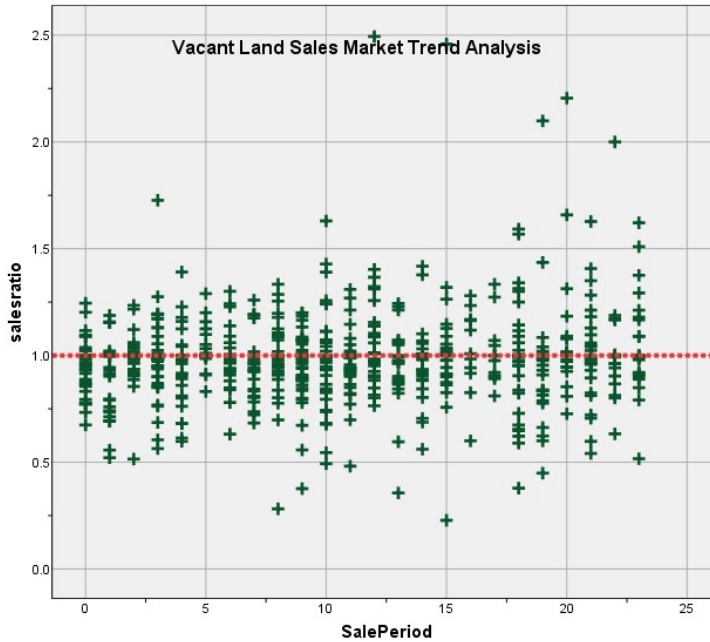
Vacant Land Market Trend Analysis

The vacant land sales were analyzed, examining the sale ratios across the 24-month sale period with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	
	B	Std. Error	Beta			
1	(Constant)	.946	.016		57.714	.000
	SalePeriod	.004	.001	.109	2.733	.006

a. Dependent Variable: salesratio



The market trend results indicated no statistically significant trend. We concur that no market trend adjustments were warranted for properties in this class for Grand County.

Sold/Unsold Analysis

We compared the median and mean change in actual value between taxable years 2018 and 2020 for vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Report			
DIFF			
	N	Median	Mean
UNSOLD	5070	1.1364	1.3978
SOLD	624	1.1875	1.2980

Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of DIFF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.018	Retain the null hypothesis.

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

We also stratified the analysis by subdivisions with at least 10 sales, as follows:

Report

DIFF	SUBDIVNO	sold	N	Median	Mean
300		UNSOLD	69	1.0667	1.0657
		SOLD	10	1.0378	.9822
1130		UNSOLD	22	1.6959	1.6728
		SOLD	13	1.6959	1.7236
1250		UNSOLD	43	1.4250	1.4695
		SOLD	13	1.4250	1.4353
1496		UNSOLD	51	.8333	1.0288
		SOLD	13	1.0417	1.0915
1773		UNSOLD	253	1.3333	1.2804
		SOLD	35	1.3810	1.3938
1853		UNSOLD	18	1.3533	1.3744
		SOLD	19	1.3533	1.3441
1854		UNSOLD	48	1.2462	1.1653
		SOLD	15	1.1024	1.1304
2230		UNSOLD	82	1.1429	1.1461
		SOLD	22	1.1429	1.1106
2546		UNSOLD	31	1.0000	1.0508
		SOLD	12	1.1538	1.1026
2745		UNSOLD	22	1.2941	1.2882
		SOLD	16	1.0569	1.1261
2755		UNSOLD	67	1.3867	1.3688
		SOLD	11	1.3867	1.2507

The above results at the class and subdivision level indicate that sold and unsold vacant land properties were valued consistently.

V. CONCLUSION

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

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP													
ResCondo	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			
.00	.992	.978	1.006	.986	.983	.991	95.6%	.974	.966	.982	1.018	.099	26.1%
1.00	1.005	.996	1.013	.997	.995	.999	95.4%	.993	.988	.999	1.012	.069	12.3%

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.

Commercial/Industrial

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				
.937	.887	.988	.978	.917	1.005	95.6%	.826	.666	.985	1.135	.126	18.7%	

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

Vacant Land

Ratio Statistics for CURRLND / TASP													
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				
.984	.966	1.001	.982	.970	.990	95.5%	.942	.921	.964	1.044	.144	22.5%	

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

ResCondo			Count	Percent
.00	SPRec	LT \$25K	1	0.1%
		\$25K to \$50K	1	0.1%
		\$50K to \$100K	4	0.3%
		\$100K to \$150K	20	1.5%
		\$150K to \$200K	37	2.8%
		\$200K to \$300K	205	15.6%
		\$300K to \$500K	442	33.6%
		\$500K to \$750K	400	30.4%
		\$750K to \$1,000K	108	8.2%
		Over \$1,000K	98	7.4%
	Overall	1316	100.0%	
	Excluded	0		
	Total	1316		
1.00	SPRec	\$25K to \$50K	9	1.1%
		\$50K to \$100K	42	5.0%
		\$100K to \$150K	41	4.8%
		\$150K to \$200K	126	14.9%
		\$200K to \$300K	261	30.8%
		\$300K to \$500K	283	33.4%
		\$500K to \$750K	78	9.2%
		\$750K to \$1,000K	3	0.4%
		Over \$1,000K	4	0.5%
		Overall	847	100.0%
	Excluded	0		
	Total	847		

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	LT \$25K	1.511	1.000	.000	.
	\$25K to \$50K	8.564	1.000	.000	.
	\$50K to \$100K	1.399	1.028	.208	27.2%
	\$100K to \$150K	1.032	.992	.228	33.3%
	\$150K to \$200K	.999	.999	.191	27.9%
	\$200K to \$300K	.979	1.002	.128	20.6%
	\$300K to \$500K	.988	.999	.090	14.2%
	\$500K to \$750K	.987	1.000	.072	11.3%
	\$750K to \$1,000K	.993	.999	.055	8.2%
	Over \$1,000K	.958	1.018	.075	10.4%
	Overall	.986	1.018	.099	26.2%
1.00	\$25K to \$50K	1.390	1.036	.150	26.3%
	\$50K to \$100K	1.035	1.019	.207	29.1%
	\$100K to \$150K	.995	.990	.121	18.6%
	\$150K to \$200K	1.000	1.002	.053	7.6%
	\$200K to \$300K	.999	1.001	.057	8.5%
	\$300K to \$500K	.995	1.000	.049	6.8%

\$500K to \$750K	.993	1.000	.046	6.7%
\$750K to \$1,000K	1.036	1.000	.040	6.3%
Over \$1,000K	.998	.997	.021	4.8%
Overall	.997	1.012	.069	12.4%

Subclass

Case Processing Summary

ResCondo		Count	Percent	
.00	ABSTRIMP	1212.00	1298	98.6%
		1213.50	3	0.2%
		1215.00	9	0.7%
		1216.00	2	0.2%
		1220.00	3	0.2%
		1225.00	1	0.1%
	Overall		1316	100.0%
	Excluded	0		
	Total	1316		
1.00	ABSTRIMP	1230.00	847	100.0%
	Overall		847	100.0%
	Excluded		0	
	Total		847	

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	1212.00	.987	1.018	.099	26.3%
	1213.50	.941	1.007	.044	6.6%
	1215.00	.927	.996	.092	13.7%
	1216.00	.911	1.000	.103	14.5%
	1220.00	.826	1.042	.187	29.8%
	1225.00	.805	1.000	.000	.
	Overall	.986	1.018	.099	26.2%
1.00	1230.00	.997	1.012	.069	12.4%
	Overall	.997	1.012	.069	12.4%

Improvement Age

Case Processing Summary

ResCondo		Count	Percent	
.00	AgeRec	Over 100	6	0.5%
		75 to 100	29	2.2%
		50 to 75	82	6.2%
		25 to 50	303	23.0%
		5 to 25	678	51.5%
		5 or Newer	218	16.6%
	Overall		1316	100.0%
	Excluded	0		
	Total	1316		
1.00	AgeRec	50 to 75	17	2.0%
		25 to 50	498	58.8%
		5 to 25	281	33.2%

	5 or Newer	51	6.0%
Overall		847	100.0%
Excluded		0	
Total		847	

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	Over 100	.744	1.122	.288	51.3%
	75 to 100	.927	1.006	.253	33.3%
	50 to 75	.969	1.017	.146	23.6%
	25 to 50	.971	1.032	.138	48.2%
	5 to 25	.991	1.013	.072	11.3%
	5 or Newer	.995	1.030	.087	16.2%
	Overall	.986	1.018	.099	26.2%
1.00	50 to 75	.998	1.027	.079	15.3%
	25 to 50	.997	1.013	.076	13.9%
	5 to 25	.999	1.008	.055	9.7%
	5 or Newer	.964	.998	.064	7.8%
	Overall	.997	1.012	.069	12.4%

Improved Area

Case Processing Summary

ResCondo			Count	Percent
.00	ImpSFRRec	LE 500 sf	13	1.0%
		500 to 1,000 sf	141	10.7%
		1,000 to 1,500 sf	443	33.7%
		1,500 to 2,000 sf	365	27.7%
		2,000 to 3,000 sf	288	21.9%
		3,000 sf or Higher	66	5.0%
	Overall		1316	100.0%
	Excluded		0	
Total		1316		
1.00	ImpSFRRec	LE 500 sf	101	11.9%
		500 to 1,000 sf	431	50.9%
		1,000 to 1,500 sf	263	31.1%
		1,500 to 2,000 sf	39	4.6%
		2,000 to 3,000 sf	11	1.3%
		3,000 sf or Higher	2	0.2%
	Overall		847	100.0%
	Excluded		0	
Total		847		

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	LE 500 sf	.987	1.045	.167	23.6%
	500 to 1,000 sf	.970	1.040	.185	68.9%
	1,000 to 1,500 sf	.979	1.009	.092	14.6%
	1,500 to 2,000 sf	.991	1.015	.079	13.2%
	2,000 to 3,000 sf	.996	1.022	.083	15.1%

	3,000 sf or Higher	.996	1.065	.124	21.0%
	Overall	.986	1.018	.099	26.2%
1.00	LE 500 sf	.997	1.031	.134	23.0%
	500 to 1,000 sf	.996	1.012	.069	12.0%
	1,000 to 1,500 sf	.998	1.005	.050	7.4%
	1,500 to 2,000 sf	.997	1.004	.031	4.8%
	2,000 to 3,000 sf	1.004	1.002	.040	5.4%
	3,000 sf or Higher	.957	.995	.044	6.2%
	Overall	.997	1.012	.069	12.4%

Improvement Quality

Case Processing Summary

ResCondo	Count	Percent
.00	QUALITY	
	2 - LOW QUAL.	5 0.4%
	3 - FAIR QUAL.	73 5.5%
	4 - AVERAGE	829 63.0%
	5 - GOOD QUAL.	385 29.3%
	6 - VERY GOOD	23 1.7%
	7 - EXCELLENT	1 0.1%
	Overall	1316 100.0%
	Excluded	0
	Total	1316
1.00	QUALITY	
	3 - FAIR QUAL.	34 4.0%
	4 - AVERAGE	474 56.0%
	5 - GOOD QUAL.	248 29.3%
	6 - VERY GOOD	91 10.7%
	Overall	847 100.0%
	Excluded	0
	Total	847

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	2 - LOW QUAL.	1.132	1.025	.320	40.6%
	3 - FAIR QUAL.	.988	1.025	.168	25.7%
	4 - AVERAGE	.987	1.015	.106	31.0%
	5 - GOOD QUAL.	.985	1.008	.069	10.8%
	6 - VERY GOOD	.966	1.060	.064	8.9%
	7 - EXCELLENT	.986	1.000	.000	.
	Overall	.986	1.018	.099	26.2%
1.00	3 - FAIR QUAL.	.996	1.022	.077	13.7%
	4 - AVERAGE	.997	1.015	.080	14.8%
	5 - GOOD QUAL.	.996	1.005	.053	7.7%
	6 - VERY GOOD	.998	1.008	.048	7.9%
	Overall	.997	1.012	.069	12.4%

Improvement Condition

Case Processing Summary

ResCondo		Count	Percent
.00	CONDITION	43	3.3%
	0 - POOR	4	0.3%
	1 - FAIR	9	0.7%
	2 - AVERAGE	761	57.8%
	3 - GOOD	499	37.9%
	Overall	1316	100.0%
	Excluded	0	
1.00	CONDITION	1	0.1%
	2 - AVERAGE	643	75.9%
	3 - GOOD	203	24.0%
	Overall	847	100.0%
	Excluded	0	
	Total	1316	
	Total	847	

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00		.991	1.039	.110	17.1%
	0 - POOR	1.175	.938	.176	22.4%
	1 - FAIR	.938	1.118	.118	20.0%
	2 - AVERAGE	.984	1.018	.111	32.3%
	3 - GOOD	.992	1.015	.078	13.7%
	Overall	.986	1.018	.099	26.2%
1.00		1.005	1.000	.000	.
	2 - AVERAGE	.997	1.014	.073	13.6%
	3 - GOOD	.999	1.006	.057	7.8%
	Overall	.997	1.012	.069	12.4%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	1	2.0%
	\$25K to \$50K	2	4.1%
	\$50K to \$100K	3	6.1%
	\$100K to \$150K	2	4.1%
	\$150K to \$200K	5	10.2%
	\$200K to \$300K	5	10.2%
	\$300K to \$500K	17	34.7%
	\$500K to \$750K	6	12.2%
	\$750K to \$1,000K	2	4.1%
	Over \$1,000K	6	12.2%
Overall		49	100.0%
Excluded		0	
Total		49	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.344	1.000	.000	.
\$25K to \$50K	.785	1.003	.028	3.9%
\$50K to \$100K	.997	.999	.079	12.0%
\$100K to \$150K	.869	1.015	.157	22.2%
\$150K to \$200K	.971	.999	.069	14.6%
\$200K to \$300K	1.023	1.000	.084	12.5%
\$300K to \$500K	.978	.996	.139	20.9%
\$500K to \$750K	.938	.997	.112	17.7%
\$750K to \$1,000K	1.016	.998	.035	4.9%
Over \$1,000K	.937	1.160	.140	21.1%
Overall	.978	1.135	.126	18.4%

Subclass

Case Processing Summary

	Count	Percent	
ABSTRIMP	1712.00	1	2.0%
	1713.50	2	4.1%
	1718.50	1	2.0%
	1721.00	2	4.1%
	1837.25	1	2.0%
	2103.56	1	2.0%
	2212.00	9	18.4%
	2215.00	4	8.2%
	2219.67	1	2.0%
	2220.00	1	2.0%
	2225.00	1	2.0%
	2230.00	14	28.6%
	2235.00	1	2.0%
	2240.00	5	10.2%
	2245.00	5	10.2%
Overall	49	100.0%	
Excluded	0		
Total	49		

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1712.00	1.005	1.000	.000	.
1713.50	.998	1.015	.021	2.9%
1718.50	1.232	1.000	.000	.
1721.00	.678	.982	.148	20.9%
1837.25	.897	1.000	.000	.
2103.56	1.051	1.000	.000	.
2212.00	.916	1.366	.234	29.6%
2215.00	.886	.976	.099	11.6%
2219.67	.932	1.000	.000	.
2220.00	.949	1.000	.000	.
2225.00	1.108	1.000	.000	.

2230.00	.976	.988	.100	15.3%
2235.00	.860	1.000	.000	.
2240.00	1.043	1.066	.129	22.3%
2245.00	.978	.994	.030	4.7%
Overall	.978	1.135	.126	18.4%

Improvement Age

Case Processing Summary

		Count	Percent
AgeRec	75 to 100	11	22.4%
	50 to 75	9	18.4%
	25 to 50	17	34.7%
	5 to 25	11	22.4%
	5 or Newer	1	2.0%
Overall		49	100.0%
Excluded		0	
Total		49	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
75 to 100	.897	1.001	.205	24.8%
50 to 75	1.021	.982	.130	23.2%
25 to 50	.978	1.009	.070	11.8%
5 to 25	.975	1.449	.123	18.8%
5 or Newer	.785	1.000	.000	.
Overall	.978	1.135	.126	18.4%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	4	8.2%
	500 to 1,000 sf	2	4.1%
	1,000 to 1,500 sf	3	6.1%
	1,500 to 2,000 sf	6	12.2%
	2,000 to 3,000 sf	16	32.7%
	3,000 sf or Higher	18	36.7%
Overall		49	100.0%
Excluded		0	
Total		49	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	.815	1.160	.223	31.8%
500 to 1,000 sf	.848	1.035	.185	26.2%
1,000 to 1,500 sf	.806	1.058	.240	47.3%
1,500 to 2,000 sf	1.018	1.022	.051	7.3%
2,000 to 3,000 sf	.963	.998	.117	17.5%
3,000 sf or Higher	.989	1.211	.103	15.7%
Overall	.978	1.135	.126	18.4%

Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	1 - POOR	1	2.0%
	2 - LOW	2	4.1%
	3 - FAIR	8	16.3%
	3 - FAIR QUAL.	1	2.0%
	4 - AVERAGE	2	4.1%
	4 - AVG	26	53.1%
	5 - GOOD	5	10.2%
	6 - VERY GOOD	4	8.2%
Overall		49	100.0%
Excluded		0	
Total		49	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1 - POOR	1.073	1.000	.000	.
2 - LOW	1.147	.996	.074	10.5%
3 - FAIR	1.009	1.003	.129	18.2%
3 - FAIR QUAL.	1.108	1.000	.000	.
4 - AVERAGE	.983	.992	.023	3.2%
4 - AVG	.973	1.168	.111	16.8%
5 - GOOD	.980	1.075	.090	13.8%
6 - VERY GOOD	.755	1.079	.262	32.9%
Overall	.978	1.135	.126	18.4%

Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	2 - AVERAGE	46	93.9%
	3 - GOOD	3	6.1%
Overall		49	100.0%
Excluded		0	
Total		49	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
2 - AVERAGE	.978	1.143	.122	18.4%
3 - GOOD	.785	1.013	.041	7.1%
Overall	.978	1.135	.126	18.4%

Vacant Land Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	87	13.9%
	\$25K to \$50K	129	20.6%
	\$50K to \$100K	190	30.4%
	\$100K to \$150K	73	11.7%
	\$150K to \$200K	72	11.5%
	\$200K to \$300K	53	8.5%
	\$300K to \$500K	16	2.6%
	\$500K to \$750K	3	0.5%
	\$750K to \$1,000K	2	0.3%
Overall		625	100.0%
Excluded		0	
Total		625	

Ratio Statistics for CURRLND / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.013	1.018	.210	35.0%
\$25K to \$50K	1.010	1.001	.154	23.1%
\$50K to \$100K	.978	.999	.120	17.4%
\$100K to \$150K	.918	1.004	.139	19.0%
\$150K to \$200K	.949	.999	.090	12.5%
\$200K to \$300K	.936	1.005	.140	20.1%
\$300K to \$500K	.980	.999	.101	16.2%
\$500K to \$750K	.971	1.048	.261	54.1%
\$750K to \$1,000K	.937	.995	.077	10.9%
Overall	.982	1.044	.144	22.6%

Subclass

Case Processing Summary

		Count	Percent
ABSTRLND	100.00	442	70.7%
	200.00	7	1.1%
	510.00	1	0.2%
	520.00	6	1.0%
	530.00	3	0.5%
	540.00	3	0.5%

	550.00	5	0.8%
	1112.00	149	23.8%
	1120.00	1	0.2%
	1140.00	1	0.2%
	1811.00	2	0.3%
	2112.00	1	0.2%
	2125.00	1	0.2%
	2130.00	1	0.2%
	2135.00	1	0.2%
	2140.00	1	0.2%
Overall		625	100.0%
Excluded		0	
Total		625	

Ratio Statistics for CURRLND / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
100.00	.987	1.039	.138	21.8%
200.00	.840	1.261	.246	32.8%
510.00	.763	1.000	.000	.
520.00	.968	1.085	.178	34.3%
530.00	.942	1.070	.085	17.2%
540.00	.959	1.034	.118	21.3%
550.00	.984	1.017	.099	15.4%
1112.00	.974	1.022	.144	22.7%
1120.00	1.314	1.000	.000	.
1140.00	.597	1.000	.000	.
1811.00	.759	.909	.139	19.6%
2112.00	.228	1.000	.000	.
2125.00	1.009	1.000	.000	.
2130.00	.600	1.000	.000	.
2135.00	.683	1.000	.000	.
2140.00	.449	1.000	.000	.
Overall	.982	1.044	.144	22.6%