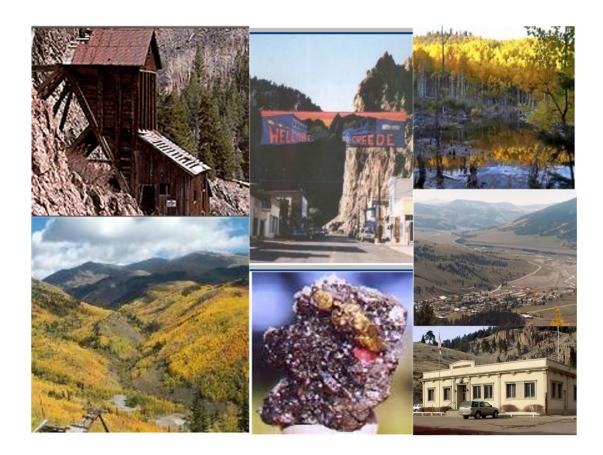


MINERAL COUNTY PROPERTY ASSESSMENT STUDY







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.

Harry J. Hullon

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



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

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

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

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

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

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

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

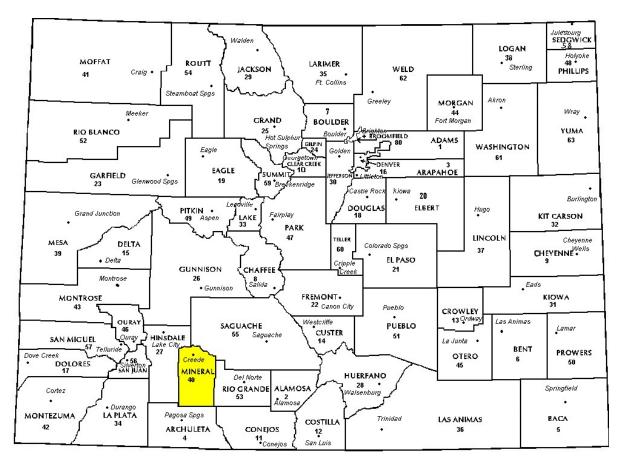
Wildrose Audit has completed the Property Assessment Study for 2020 and is pleased to report its findings for Mineral County in the following report.



REGIONAL/HISTORICAL SKETCH OF MINERAL COUNTY

Regional Information

Mineral County is located in the San Luis Valley region of Colorado. The San Luis Valley is a large, broad, alpine valley in the Rio Grande Basin of south-central Colorado. The valley is drained to the south by the Rio Grande River which rises in the San Juan Mountains to the west of the valley. The San Luis Valley includes Alamosa, Conejos, Costilla, Mineral, Rio Grande, and Saguache counties.





Historical Information

Mineral County had an estimated population of approximately 732 people with 0.8 people per square mile, according to the U.S. Census Bureau's 2016 estimated census data. This represents a 2.8 percent change from April 1, 2010 to July 1, 2016.

Mineral County is the third least populous of the 64 Colorado counties. The county was named for the many valuable minerals found in the mountains and streams of the area. The county seat and the only municipality in the county is the Town of Creede.

Travelers to this area appeared in the early 1800s. Tom Boggs, a brother-in-law of Kit Carson , farmed at Wagon Wheel Gap in the summer of 1840. The first silver discovery was made at the Alpha mine in 1869, but the silver could not be extracted at a profit from the complex ores. Ranchers and homesteaders moved in when stagecoach stations (linking the mining operations over the Divide with the east) were built in the 1870s, but the great "Boom Days" started with the discovery of rich minerals in Willow Creek Canyon in 1889.

Creede was the last silver boom town in Colorado in the 1800s. The town leapt from a population of 600 in 1889 to more than 10,000 people in December 1891. The Creede mines operated continuously from 1890 until 1985. The original townsite of Creede was located on East Willow Creek just above its junction with West Willow Creek. Below Creede were Stringtown, Jimtown, and Amethyst. The Willow Creek site was soon renamed Creede after Nicholas C. Creede who discovered the Holy Moses Mine. Soon the entire town area from East Willow to Amethyst was called Creede.

Creede's boom lasted until 1893, when the Silver Panic hit all of the silver mining towns in Colorado. The price of silver plummeted and most of the silver mines were closed. Creede never became a ghost town, although the boom was over and its population declined. After 1900, Creede stayed alive by relying increasingly on lead and zinc in the ores.

Today, historic buildings and names from a bygone era mark the quaint seven-block downtown section of Creede's famous silver mining era. The spectacular Pillars of Hercules, volcanic cliffs rising nearly a thousand feet at the edge of town, frame Creede's array of shops, galleries, eateries, lodging, and sundry services. Simply viewing the old downtown area against this magnificent canyon backdrop makes a visit to Creede worthwhile in any season. A "Walking Tour" guidebook provides detailed information about Creede's historic buildings and downtown district. Being the only community in Mineral County, Creede serves as the commercial and government center for residents and visitors. Both the Mineral County Courthouse and the Creede Town Hall are located on North Main Street. Rio Grande National Forest maintains the Creede Ranger Station on South Main Street. (www.Wikipedia.org, www.creede.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 pricerelated 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	D	
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 Mineral County are:

Mineral County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
*Commercial/Industrial	N/A	N/A	N/A	N/A	N/A
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	60	1.005	1.068	15.2	Compliant
Vacant Land	N/A	N/A	N/A	N/A	N/A

*Due to the small number of sales, a procedural audit was performed.

After applying the above described methodologies, it is concluded from the sales ratios that Mineral County is in compliance with SBOE, DPT, and Colorado State Statute valuation guidelines.

Recommendations



TIME TRENDING VERIFICATION

Methodology

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

Conclusions

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

Recommendations



SOLD/UNSOLD ANALYSIS

Methodology

Mineral 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 nonparametric testing is indicating a false rejection of the hypothesis that there is no difference between the sold and unsold property values.

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



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

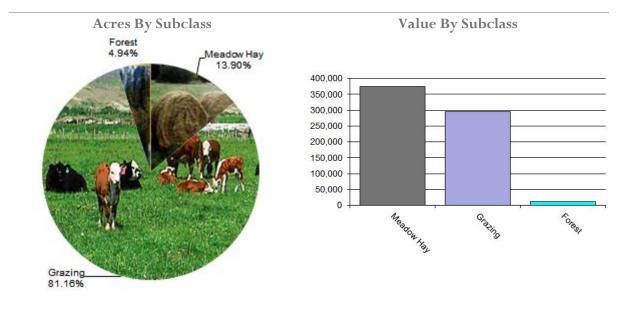
Conclusions

Recommendations

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



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 locally developed any 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:



	Mineral County Agricultural Land Ratio Grid					
NumberCountyWRAAbstractOfValueAssessedTotalCodeLand ClassAcresPer Acre Total ValueValueRatio						
4137	Meadow Hay	3,575	104.93	375,148	361,278	1.04
4147	Grazing	20,867	14.13	294,898	293,836	1.00
4177	Forest	1,270	9.18	11,656	11,689	1.00
Total/Avg		25,712	26.51	681,702	666,803	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

Mineral 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

Mineral 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
- Personal Knowledge of Occupants at Assessment Date

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

- Property Record Card Analysis
- Questionnaires
- Field Inspections
- Personal Knowledge of Occupants at Assessment Date

Mineral 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



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)(1) 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 Mineral County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 17 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

Mineral County appears to be doing a good job of verifying their sales. WRA agreed with the

county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Natural Resource Valuation Procedures, the income approach was applied to determine value for production of earth and stone products. The number of tons was multiplied by an economic royalty rate determined by the Division of Property Taxation to determine income. The income was multiplied by a recommended Hoskold factor to determine the actual value. The Hoskold factor is determined by the life of the reserves or the lease. Value is based on two

variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

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

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2020 in Mineral 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

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

Recommendations



POSSESSORY INTEREST PROPERTIES

Possessory Interest

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

Mineral County has been reviewed for their procedures and adherence to guidelines when

assessing and valuing 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

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

Recommendations



PERSONAL PROPERTY AUDIT

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

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

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

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

Mineral 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
- 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.

Mineral 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:

- New businesses filing for the first time
- Incomplete or inconsistent declarations
- 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



Conclusions

Mineral County has employed adequate discovery, classification, documentation, valuation, and auditing procedures for their personal property assessment and is in statistical compliance with SBOE requirements.

Recommendations



WILDROSE AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

Suzanne Howard, Audit Administrative Manager

Steve Kane, Audit Statistician

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



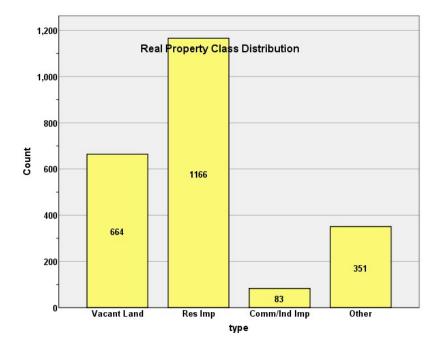
A P P E N D I C E S



STATISTICAL COMPLIANCE REPORT FOR MINERAL COUNTY 2020

I. OVERVIEW

Mineral County is located in southwestern Colorado. The county has a total of 2,264 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:



Based on the number of vacant land parcels in Mineral County, we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 97.0% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 3.6% 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	N	N	N
Neighborhood	N	N	N
Subdivision	V	V	\sim
2.1			

Codes

V=*Valid Geographic Level – used for modeling*

N = Not used as Geographic Level for modeling

II. DATA FILES

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

III. RESIDENTIAL SALES RESULTS

There were 61 total qualified residential sales over the 24 month period ending June 30, 2018; we trimmed 1 sale using IAAO standards, resulting in a final count of 60 sales. The residential sales ratio analysis results were as follows:

Median	1.005
Price Related Differential	1.068
Coefficient of Dispersion	15.2

We next stratified the sale ratio analysis by neighborhood. The following are the results of this stratification analysis:

Case Processing Summary

		Count	Percent
NBHD	100	6	10.0%
	200	1	1.7%
	300	52	86.7%
	400	1	1.7%
Overall		60	100.0%
Excluded	1	0	
Total		60	

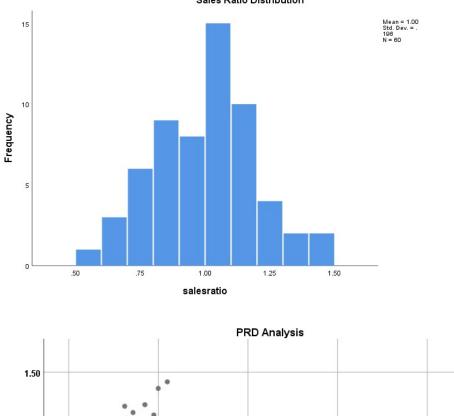
Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
100	.976	.958	.138
200	1.103	1.000	.000
300	1.008	1.076	.158
400	1.002	1.000	.000
Overall	1.005	1.068	.152

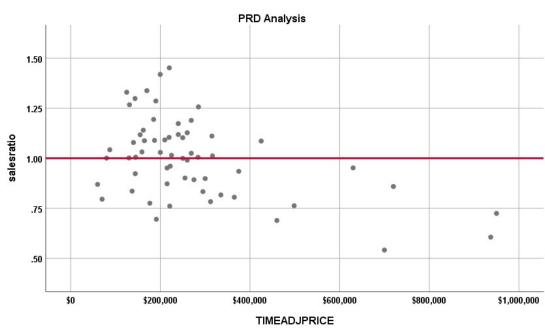
Only Neighborhood 3 had sufficient sales for a credible ratio analysis. The results from this neighborhood and by class were in compliance as set for by the Colorado SBOE.



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



Sales Ratio Distribution



Residential Market Trend Analysis

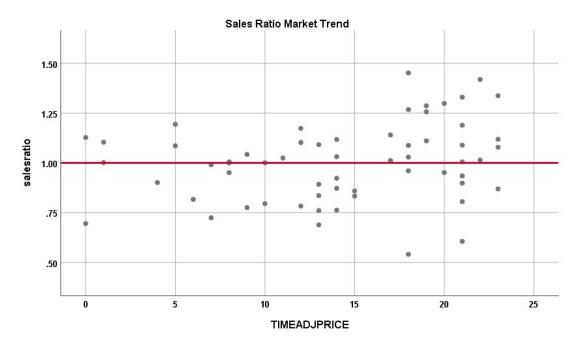
We next analyzed the residential dataset using the 24-month sale period, tracing the sales ratio pattern over the sale period. The following results indicate that there was no significant residual market trend pattern in the sales ratio, based on the magnitude of the slope coefficient:



Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.898	.060		14.922	.000
	SalePeriod	.007	.004	.239	1.878	.065

a. Dependent Variable: salesratio



The above results indicate that the assessor has adequately addressed market trending in their residential valuation for this sale period.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median and mean value per square foot for 2020, as follows:

Report VALSF			
sold	Ν	Median	Mean
UNSOLD	1105	\$101	\$108
SOLD	60	\$111	\$118



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is th same across categories of sold	Independent- Samples Mann- Whitney U Test	.004	Reject the null hypothesis.

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

Based the above comparison results, we next compared residential sold and unsold properties by comparing the median change in value for taxable years 2018 and 2020 for sold and unsold residential properties, as follows:

Report DIFF			
sold	Ν	Median	Mean
UNSOLD	1072	1.0810	1.1153
SOLD	60	1.0608	1.1008

Hypothesis Test Summary

Null Hypothesis	Test	Sig.	Decision
1 The distribution of DIFF is the sam across categories of sold.	Independent- Samples Mann- Whitney U Test	.156	Retain the null hypothesis.

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

We also stratified this analysis by residential neighborhoods with at least 10 sales, as follows:

Report DIFF				h.,
NBHD	sold	N	Median	Mean
100	UNSOLD	188	1.1161	1.1358
	SOLD	6	1.0843	1.1203
300	UNSOLD	734	1.0658	1.1055
	SOLD	52	1.0476	1.0999



Based the results from the Mann-Whitney non-parametric test and the above stratified analysis, we concluded that the assessor has valued sold and unsold residential properties consistently in 2020.

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

The County had less than ten qualified commercial sales for the June 30, 2018 valuation date. Consequently, a procedural analysis was performed by Wildrose staff for taxable year 2019. That procedural analysis is in effect for taxable year 2020. No other commercial analysis is required.

V. CONCLUSIONS

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



STATISTICAL ABSTRACT Residential

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Cor	fidence Interval fo	or Median		95% Confiden Weighte	ice Interval for ed Mean			Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
1.001	.950	1.052	1.005	.935	1.086	97.3%	.937	.866	1.008	1.068	.152	19.6%

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

Commercial/Industrial

Not applicable

Vacant Land

Not applicable



Residential Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$50K to \$100K	4	6.7%
	\$100K to \$150K	8	13.3%
	\$150K to \$200K	12	20.0%
	\$200K to \$300K	22	36.7%
	\$300K to \$500K	9	15.0%
	\$500K to \$750K	3	5.0%
	\$750K to \$1,000K	2	3.3%
Overall		60	100.0%
Excluded		0	
Total		60	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$50K to \$100K	.935	.988	.101	12.3%
\$100K to \$150K	1.042	1.003	.145	18.5%
\$150K to \$200K	1.103	.999	.135	19.0%
\$200K to \$300K	1.010	1.002	.117	15.6%
\$300K to \$500K	.817	1.011	.150	20.8%
\$500K to \$750K	.859	1.006	.159	27.2%
\$750K to \$1,000K	.665	.999	.089	12.6%
Overall	1.005	1.068	.152	19.5%

Sub-Class

Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	60	100.0%
Overall		60	100.0%
Excluded		0	
Total		60	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
1212.00	1.005	1.068	.152	19.5%
Overall	1.005	1.068	.152	19.5%



Improvement Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	3	5.0%
	75 to 100	3	5.0%
	25 to 50	17	28.3%
	5 to 25	35	58.3%
	5 or Newer	2	3.3%
Overall		60	100.0%
Excluded		0	
Total		60	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	1.001	.965	.073	11.1%
75 to 100	.951	.959	.190	31.0%
25 to 50	1.089	1.023	.158	20.5%
5 to 25	1.005	1.081	.144	18.7%
5 or Newer	.908	1.005	.017	2.4%
Overall	1.005	1.068	.152	19.5%

Improvement Size

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	6	10.0%
	1,000 to 1,500 sf	11	18.3%
	1,500 to 2,000 sf	11	18.3%
	2,000 to 3,000 sf	17	28.3%
	3,000 sf or Higher	15	25.0%
Overall		60	100.0%
Excluded		0	
Total		60	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
500 to 1,000 sf	.879	1.028	.109	13.1%
1,000 to 1,500 sf	1.002	1.002	.105	14.3%
1,500 to 2,000 sf	1.089	1.035	.138	16.4%
2,000 to 3,000 sf	1.079	1.029	.098	14.2%
3,000 sf or Higher	.935	1.138	.242	30.9%
Overall	1.005	1.068	.152	19.5%



Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	01 - MINIMUM	1	1.7%
	03 - AVERAGE	25	41.7%
	04 - GOOD	16	26.7%
	05 - ABOVE AVG.	15	25.0%
	06 - ABOVE AVG	3	5.0%
Overall		60	100.0%
Excluded		0	
Total		60	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
01 - MINIMUM	.869	1.000	.000	
03 - AVERAGE	1.005	1.012	.146	19.1%
04 - GOOD	1.001	1.074	.153	20.0%
05 - ABOVE AVG.	1.029	1.108	.152	21.4%
06 - ABOVE AVG	1.117	1.131	.135	27.2%
Overall	1.005	1.068	.152	19.5%

Commercial Median Ratio Stratification

Not applicable

Vacant Land Median Ratio Stratification

Not applicable