

Rio Blanco County

2021

RIO BLANCO COUNTY  
PROPERTY ASSESSMENT  
STUDY

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**WILDROSE**  
APPRAISAL, INCORPORATED  
**Audit Division**



September 15, 2021

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

**RE: Final Report for the 2021 Colorado Property Assessment Study**

Dear Ms. Mullis:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2021 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

## TABLE OF CONTENTS

Introduction .....	3
Regional/Historical Sketch of Rio Blanco County .....	4
Ratio Analysis.....	6
Time Trending Verification .....	8
Sold/Unsold Analysis .....	9
Agricultural Land Study .....	11
<i>Agricultural Land</i> .....	11
<i>Agricultural Outbuildings</i> .....	12
<i>Agricultural Land Under Improvements</i> .....	13
Sales Verification.....	14
Economic Area Review and Evaluation .....	16
Natural Resources .....	17
<i>Earth and Stone Products</i> .....	17
<i>Producing Oil and Gas</i> .....	17
<i>Producing Coal Mines</i> .....	18
Vacant Land.....	19
Possessory Interest Properties .....	20
Personal Property Audit .....	21
Wildrose Auditor Staff.....	23
STATISTICAL APPENDIX .....	24

# INTRODUCTION

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## 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.

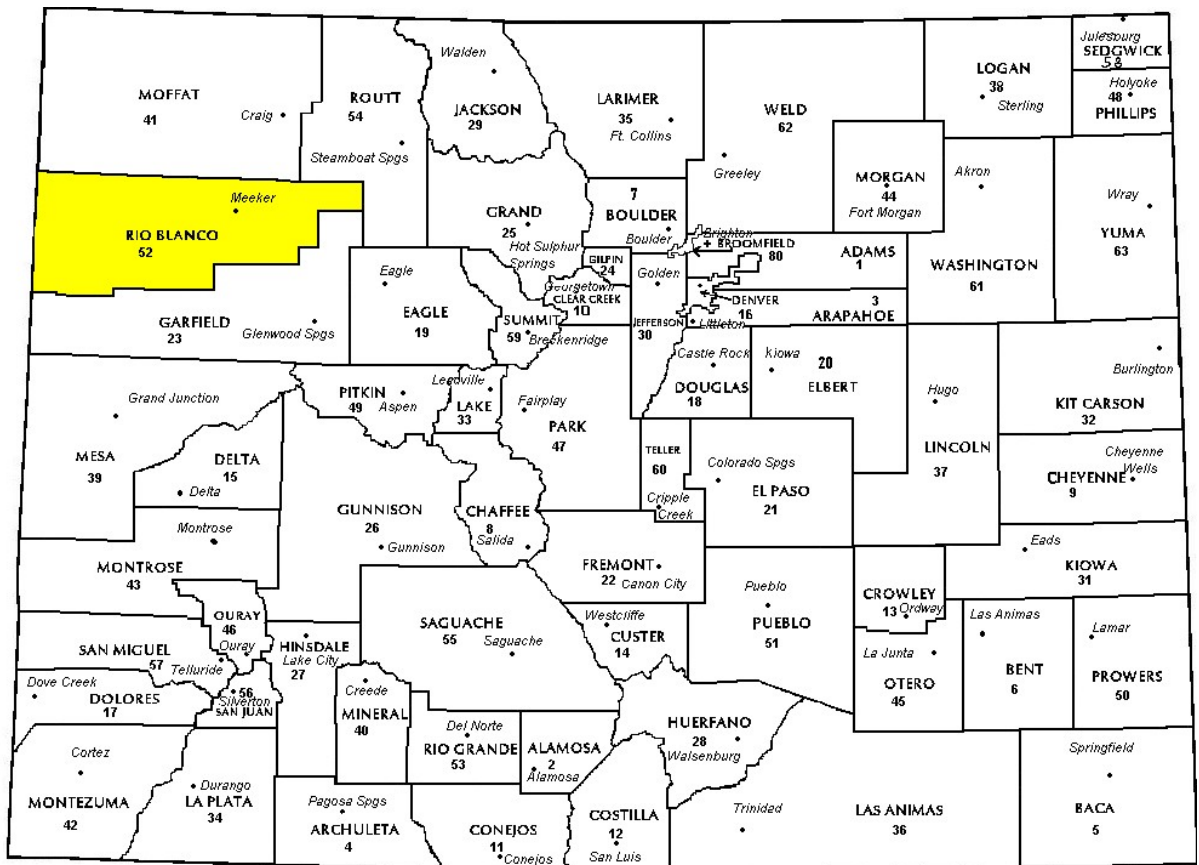
Wildrose Audit has completed the Property Assessment Study for 2021 and is pleased to report its findings for Rio Blanco County in the following report.

# REGIONAL/HISTORICAL SKETCH OF RIO BLANCO COUNTY

## Regional Information

Rio Blanco 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

Rio Blanco County has approximately 3,220.9 square miles and an estimated population of approximately 6,324 people with 2.1 people per square mile, according to the U.S. Census Bureau's 2020 estimated census data. This represents a -5.2 percent change from April 1, 2010 to July 1, 2019.

Rio Blanco County, formed from part of Garfield County, was established in 1889 with an area of 3,263 square miles. The county was named for the Rio Blanco River, Spanish for White River.

The Town of Meeker is a Statutory Town that is the county seat and the most populous town in Rio Blanco County. The town is named for Nathan Meeker, the United States Native American agent who was killed along with 11 other U.S. citizens by Ute Indians in the 1879 Meeker Massacre. The site of the massacre is located along State Highway 64 in the White River valley west of town and is marked by a prominent sign. After the massacre and the ensuing conflict known as the Ute War, the Ute population was forced to relocate to

reservations in Utah and the United States Army established a garrison on the current site of the town. The town was founded in 1883 following the removal of troops. The White River Museum is located just north of the Rio Blanco County Courthouse and housed in several original wooden structures of the Army garrison.

The town emerged as a regional center for hunting by the turn of the 20th century. Theodore Roosevelt once visited the town on a mountain lion hunting trip and stayed in the historic Hotel Meeker opposite the courthouse.

Meeker CO is located at the west end of the Flat Tops Trail Scenic Byway and is close to many access points to the 235,000 acre Flat Tops Wilderness area which is the 2nd largest in Colorado. The Meeker, Craig and Rio Blanco County community offers opportunities for horseback riding, backpacking, hiking, fishing, rafting, snowmobiling, cross country skiing, and elk and deer big game hunting.

*(www.meekercolorado.com, William Bright, Colorado Place Names, 3rd Edition, Johnson Books, 2004, p. 149 and 115)*

# RATIO ANALYSIS

## Methodology

All significant classes of property were analyzed. Sales were collected for each property class over the eighteen month period from January 1, 2019 through June 30th, 2020. Property classes with less than thirty sales had the sales period extended in six month increments up to an additional forty-two months. If this extended sales period did not produce the minimum thirty qualified sales, the Audit performed supplemental appraisals to reach the minimum.

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

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

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

**Data on the individual economic areas, neighborhoods and subdivisions are found in the STATISTICAL APPENDIX.**

## Conclusions

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

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

The results for Rio Blanco County are:

<b>Rio Blanco County Ratio Grid</b>					
<b>Property Class</b>	<b>Number of Qualified Sales</b>	<b>Unweighted Median Ratio</b>	<b>Price Related Differential</b>	<b>Coefficient of Dispersion</b>	<b>Time Trend Analysis</b>
*Commercial/Industrial	18	0.991	1.013	10.7	Compliant
Residential	171	0.979	1.030	11.1	Compliant
Vacant Land	N/A	N/A	N/A	N/A	N/A

*\*County Sales File augmented by 2 supplemental appraisals*

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

Rio Blanco 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.

<b>Sold/Unsold Results</b>	
<b>Property Class</b>	<b>Results</b>
Commercial/Industrial	Compliant
Residential	Compliant
Vacant Land	N/A

**Conclusions**

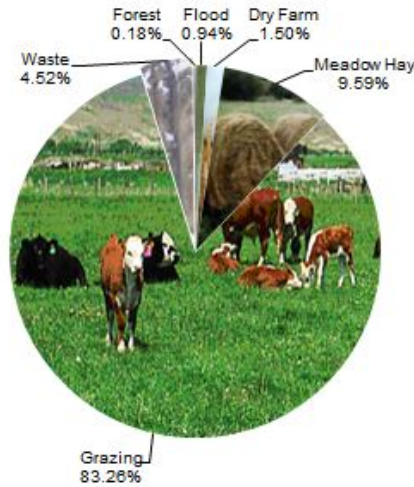
After applying the above described methodologies, it is concluded that Rio Blanco County is reasonably treating its sold and unsold properties in the same manner.

**Recommendations**

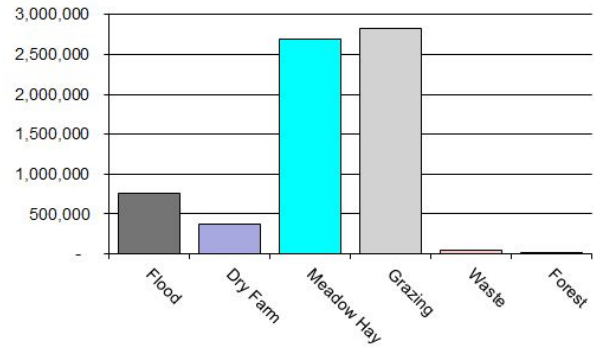
None

# 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:

<b>Rio Blanco County Agricultural Land Ratio Grid</b>						
<b>Abstract Code</b>	<b>Land Class</b>	<b>Number Of Acres</b>	<b>County Value Per Acre</b>	<b>County Assessed Total Value</b>	<b>WRA Total Value</b>	<b>Ratio</b>
4117	Flood	4,321	175.10	756,594	741,384	1.02
4127	Dry Farm	6,898	54.19	373,786	361,916	1.03
4137	Meadow Hay	44,073	61.12	2,693,666	2,693,378	1.00
4147	Grazing	382,542	7.39	2,826,311	2,826,643	1.00
4177	Forest	827	22.27	18,429	18,429	1.00
4167	Waste	20,782	2.42	50,253	50,253	1.00
<b>Total/Avg</b>		<b>459,443</b>	<b>14.62</b>	<b>6,719,040</b>	<b>6,692,003</b>	<b>1.00</b>

### 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.

of Property Taxation for the valuation of agricultural outbuildings.

### Recommendations

None

### Conclusions

Rio Blanco County has substantially complied with the procedures provided by the Division

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## Agricultural Land Under Improvements

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### 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

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

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

Rio Blanco 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.:

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

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

### Recommendations

None

## SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

WRA reviewed the sales verification procedures in 2021 for Rio Blanco County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 36 sales listed as unqualified.

All of the sales in the unqualified sales sample had reasons that were clear and supportable.

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

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

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

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

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of

unqualified sales, excluding sales that were disqualified for obvious reasons.

Rio Blanco County did not qualify for in-depth subclass analysis.

### **Conclusions**

Rio Blanco County appears to be doing an adequate 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**

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

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## Earth and Stone Products

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### 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

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## Producing Oil and Gas

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### Methodology

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

### STATUTORY REFERENCES

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

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

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

### Valuation:

#### Valuation for assessment.

(1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:

(a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;

(b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year. § 39-7-102, C.R.S.

### Conclusions

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

### Recommendations

None



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## Producing Coal Mines

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### Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Section 6, Valuation of Producing Coal Leaseholds and Lands, the income approach is the primary method applied to find value for the valuation of coalmines. This methodology estimates annual economic royalty income based on previous year's production, then capitalizes that income to value using a Hoskold factor to

estimate the present worth of the permitted acres. The operator provides production data and the life of the leases.

### Conclusions

County has applied the correct formulas and state guidelines to coal mine valuation.

### Recommendations

None

## VACANT LAND

### **Subdivision Discounting**

Subdivisions were reviewed in 2021 in Rio Blanco County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14). Discounting procedures were applied to all subdivisions where less than 80 percent of all sites were sold using the present worth method. The market approach was applied where 80 percent or more of the subdivision sites were sold. An absorption period was estimated for each subdivision that was discounted. An appropriate discount rate was

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

### **Conclusions**

Rio Blanco 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.

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

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

## Conclusions

Rio Blanco 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

Rio Blanco 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.

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

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

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

Rio Blanco County submitted their personal property written audit plan and was current for the 2021 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Accounts with obvious discrepancies
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts protested with substantial disagreement



- Greater than 5 years since previous audit

### **Conclusions**

Rio Blanco 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*

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**Carl W. Ross**, *Agricultural/Natural Resource Analyst*

**J. Andrew Rodriguez**, *Field Analyst*



# STATISTICAL APPENDIX

**STATISTICAL COMPLIANCE REPORT  
FOR RIO BLANCO COUNTY  
2021**

**I. OVERVIEW**

Rio Blanco County is a rural county located in northwestern Colorado. The county has a total of 5,160 real property parcels, according to data submitted by the county assessor’s office in 2021. The following provides a breakdown of property classes for this county:



Because there were less than 1,200 vacant land parcels, this property class was excluded from further analysis.

For residential improved properties, single family properties accounted for 94.4% of all residential properties. No further breakdowns were necessary in terms of subclasses.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 5.0% of all such properties in this county.

Based on the Audit questionnaire provided by the assessor, we were unable to stratify the sale data by geographic area.

**II. DATA FILES**

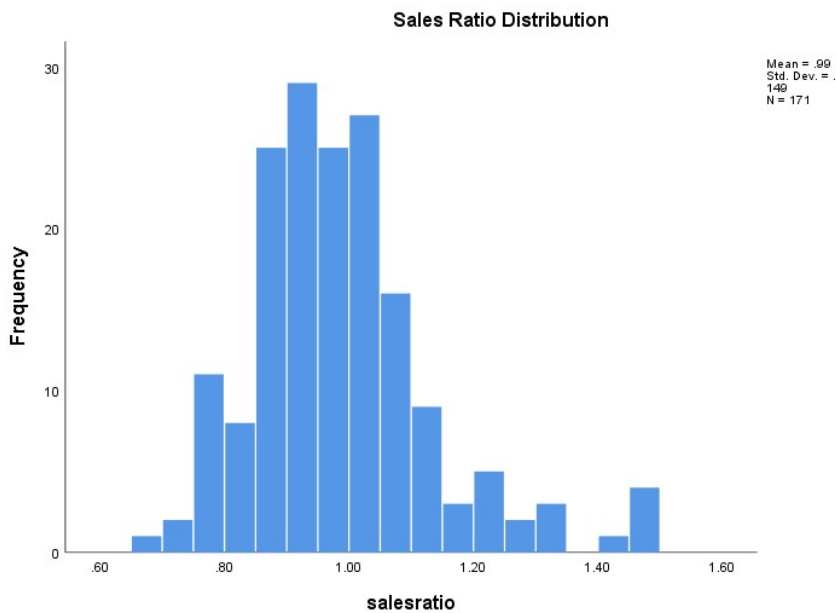
The following sales analyses were based on the requirements of the 2021 Colorado Property Assessment Study. Information was provided by the Rio Blanco Assessor’s Office in April 2021. The data included all 5 property record files as specified by the Auditor.

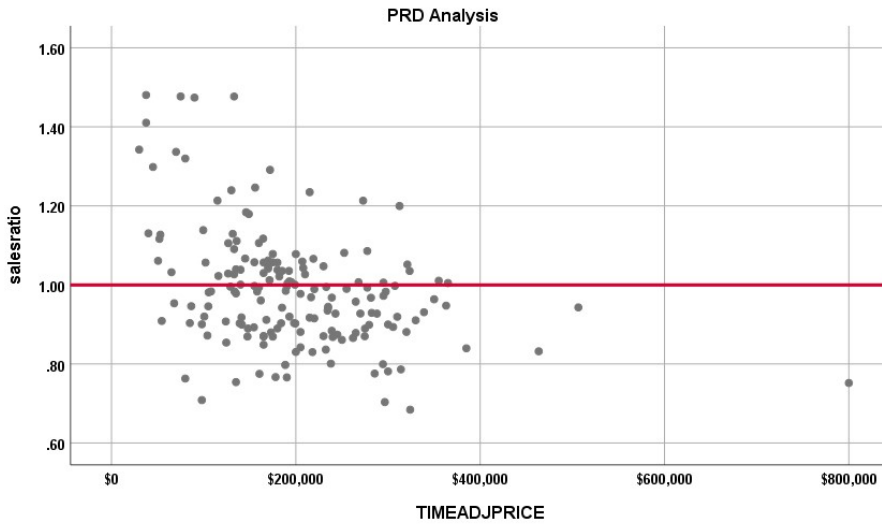
### III. RESIDENTIAL SALES RESULTS

There were 171 qualified residential sales for the 24-month period ending June 30, 2020. The sales ratio analysis was analyzed as follows:

Median	<b>0.979</b>
Price Related Differential	<b>1.026</b>
Coefficient of Dispersion	<b>11.1</b>

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

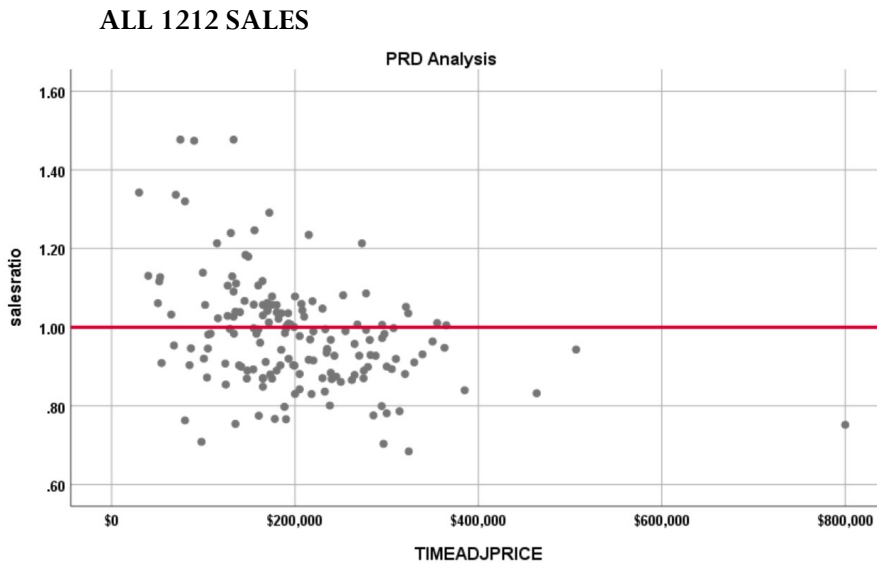




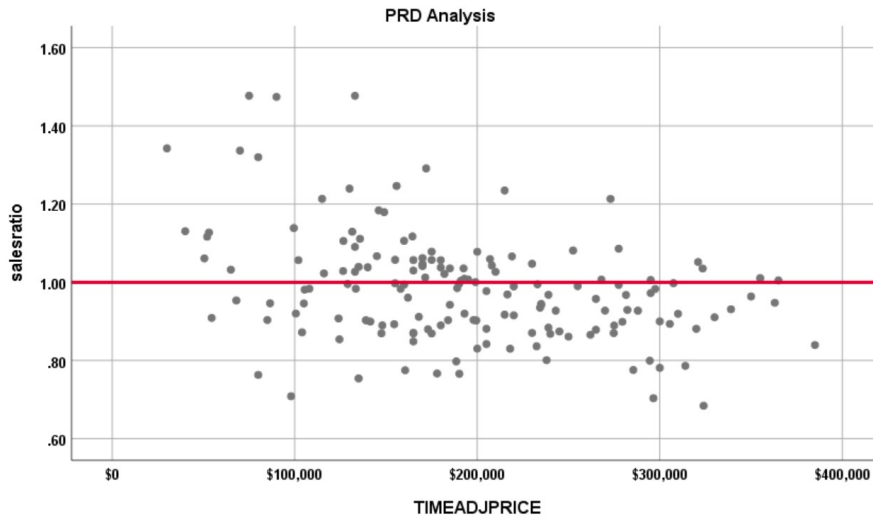
The above graphs indicate that the distribution of the sale ratios was within state mandated limits. No sales were trimmed.

### Subclass 1212 PRD Analysis

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



**1212 SALES LESS THAN \$400 000**



The Price-Related Differential (PRD) for all sales is 1.026; for the sales less than \$400,000, in the above graph, the PRD is 1.021. Both are within IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor’s current value to further test for regressivity or progressivity in the residential sales valuation, as follows:

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	1.015	.032		32.183	.000
	CURRTOT	-.000000174	.000	-.087	-1.101	.273

a. Dependent Variable: salesratio

The slope of the line at 0.00000017 indicates that there is virtually no slope in the regression line, which indicates that sales ratios are similar across the entire sale price array.

We ran the same type of regression analysis between the sales ratio and sale price:

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	1.113	.028		39.626	.000
	TASP	-.00000067	.000	-.370	-5.000	.000

a. Dependent Variable: salesratio

Although the statistical relationship was significant, the magnitude of the slope, at less than 0.00007, was not.

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

### Case Processing Summary

		Count	Percent
SPRec	LT \$100K	17	10.6%
	\$100K to \$200K	77	48.1%
	\$200K to \$300K	51	31.9%
	\$300K to \$400K	15	9.4%
Overall		160	100.0%
Excluded		0	
Total		160	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
LT \$100K	1.116	1.011	.162
\$100K to \$200K	1.000	1.004	.095
\$200K to \$300K	.929	1.003	.083
\$300K to \$400K	.931	.999	.079
Overall	.979	1.021	.106

The above indicates that the sales ratio distribution was confounded by a large COD for sales less than \$100,000. Otherwise there was no consistent pattern to determine whether there was regressivity or progressivity in the sale data for Rio Blanco County.

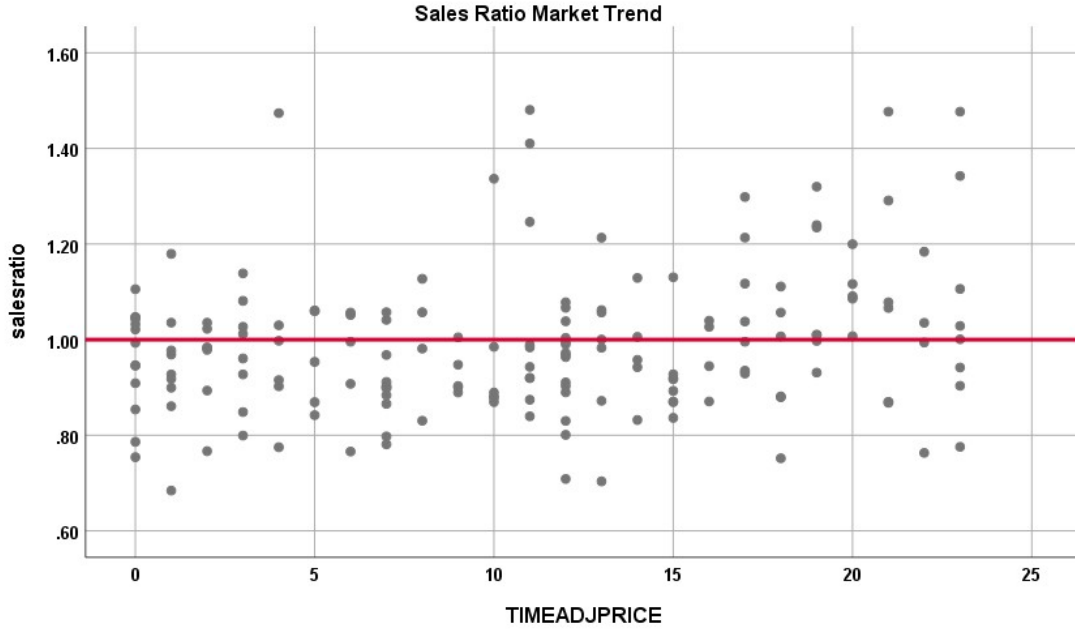
### Residential Market Trend Analysis

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

#### Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.934	.020		45.820	.000
	SalePeriod	.005	.002	.235	3.146	.002

a. Dependent Variable: salesratio



The above analysis indicated that there was a marginal market trend in the residential sale ratios across the 24 month sale period. When we split the analysis between the Meeker and Rangely area, the trends were not significant.

### Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we first compared the 2021 median value per square foot for sold and unsold residential properties, as follows:

#### Report

VALSF			
Category	N	Median	Mean
UNSOLD	1997	\$94	\$108
SOLD	171	\$100	\$104

#### Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.021	Retain the null hypothesis.

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

Because of the marginally significant difference in the above analysis, we also compared the average change in value for taxable years 2018 and 2020 between sold and unsold residential properties, as follows:

**Report**

DIFF			
sold	N	Median	Mean
UNSOLD	1995	1.0883	1.0949
SOLD	170	1.1106	1.1064

**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	.037	Retain the null hypothesis.

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

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

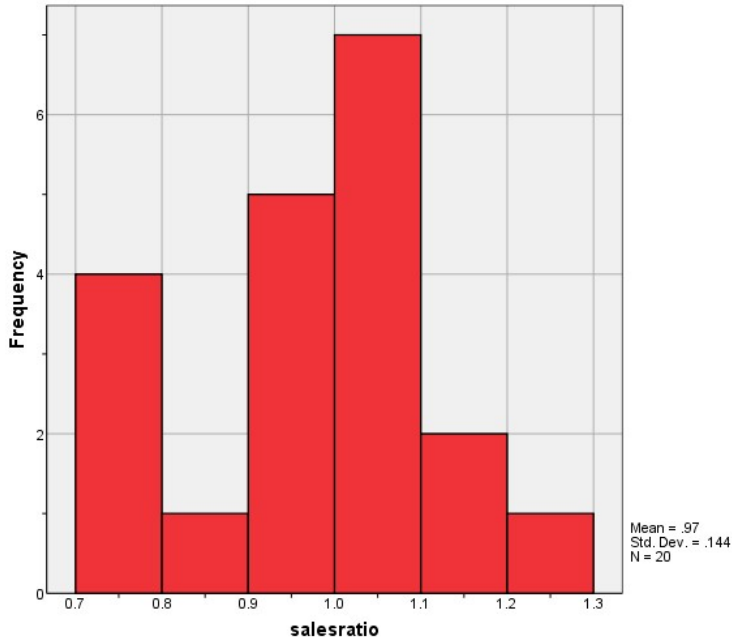
**IV. COMMERCIAL/INDUSTRIAL SALE RESULTS**

There were 18 qualified commercial/industrial sales for the 60 month period ending June 30, 2020. Because there were fewer than 20 sales, we augmented the sale set with 2 supplemental appraisals. The 18 qualified sales will be used to analyze market trending and sold/unsold consistency. The following sales ratio analysis was performed on all 20 properties:

Median	<b>0.991</b>
Price Related Differential	<b>1.013</b>
Coefficient of Dispersion	<b>10.7</b>

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





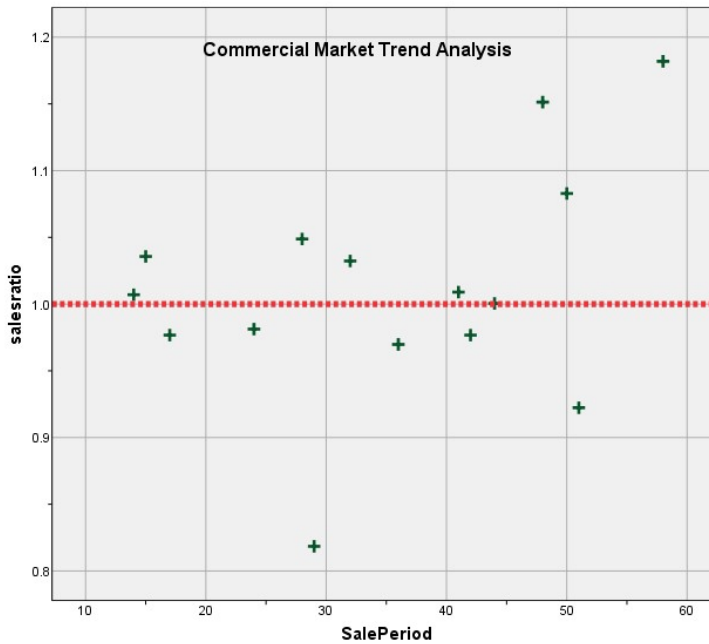
### Commercial Market Trend Analysis

The 18 sold commercial properties were analyzed, examining the sale ratios across the 60 month sale period, as follows:

### Coefficients<sup>a</sup>

Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Coefficients Beta		
1	(Constant)	.930	.061		15.329	.000
	SalePeriod	.002	.002	.375	1.457	.169

a. Dependent Variable: salesratio



The above analysis indicated that the assessor has adequately addressed market trending in the valuation of commercial properties. No significant residual commercial market trending was present, based on this analysis.

### Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold commercial/industrial properties, we compared the 2021 median actual value between each group by class and subclass, as follows:

#### Report

VALSF			
sold	N	Median	Mean
UNSOLD	218	\$64	\$104
SOLD	16	\$56	\$68

### Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.477	Retain the null hypothesis.

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

#### Report

VALSF	ABSTRIMP	sold	N	Median	Mean
2212.00	UNSOLD		42	\$48	\$65
	SOLD		3	\$56	\$51
2220.00	UNSOLD		24	\$44	\$64
	SOLD		3	\$34	\$33
2230.00	UNSOLD		73	\$74	\$111
	SOLD		8	\$83	\$95
2235.00	UNSOLD		13	\$27	\$80
	SOLD		1	\$22	\$22
2240.00	UNSOLD		3	\$22	\$32
	SOLD		1	\$44	\$44

The above results indicated that sold and unsold commercial/industrial properties were valued in a consistent manner.

#### V. VACANT LAND SALE RESULTS

Based on the parameters of the 2021 audit, this class was not analyzed.

#### V. CONCLUSION

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

## STATISTICAL ABSTRACT

### Residential

Ratio Statistics for CURRTOT / TASP												
Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.988	.965	1.010	.979	.945	.996	95.4%	.959	.938	.980	1.030	.111	15.1%

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

### 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			
.969	.902	1.036	.991	.922	1.036	95.9%	.956	.849	1.063	1.013	.107	14.9%

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

Not applicable

**Residential Median Ratio Stratification**

**Subclass**

**Case Processing Summary**

		Count	Percent
ABSTRIMP	1212.00	164	95.9%
	1214.00	1	0.6%
	1215.00	6	3.5%
Overall		171	100.0%
Excluded		0	
Total		171	

**Ratio Statistics for CURRTOT / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1212.00	.971	1.026	.107	14.5%
1214.00	1.200	1.000	.000	.
1215.00	1.150	1.102	.190	21.8%
Overall	.979	1.030	.111	15.3%

**Improvement Age**

**Case Processing Summary**

		Count	Percent
AgeRec	Over 100	13	7.6%
	75 to 100	11	6.4%
	50 to 75	25	14.6%
	25 to 50	73	42.7%
	5 to 25	49	28.7%
Overall		171	100.0%
Excluded		0	
Total		171	

**Ratio Statistics for CURRTOT / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.945	1.030	.102	15.0%
75 to 100	.947	1.012	.153	23.0%
50 to 75	.920	1.013	.123	16.3%
25 to 50	1.004	1.024	.104	14.1%
5 to 25	.968	1.049	.104	16.1%
Overall	.979	1.030	.111	15.3%

## Improvement Area

### Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	12	7.0%
	1,000 to 1,500 sf	48	28.1%
	1,500 to 2,000 sf	43	25.1%
	2,000 to 3,000 sf	54	31.6%
	3,000 sf or Higher	14	8.2%
Overall		171	100.0%
Excluded		0	
Total		171	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
500 to 1,000 sf	.946	1.023	.141	22.7%
1,000 to 1,500 sf	1.009	1.036	.119	16.0%
1,500 to 2,000 sf	.972	1.027	.100	13.0%
2,000 to 3,000 sf	.961	1.021	.107	15.5%
3,000 sf or Higher	.990	1.018	.089	11.9%
Overall	.979	1.030	.111	15.3%

## Improvement Quality

### Case Processing Summary

		Count	Percent
QUALITY	1 - LOW - MINIMUM	1	0.6%
	2 - FAIR - BELOW AVERAGE	17	9.9%
	3 - AVERAGE	149	87.1%
	4 - GOOD - ABOVE AVERAGE	4	2.3%
	Overall		171
Excluded		0	
Total		171	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1 - LOW - MINIMUM	.981	1.000	.000	.
2 - FAIR - BELOW AVERAGE	1.047	1.061	.148	19.6%
3 - AVERAGE	.968	1.018	.105	14.3%
4 - GOOD - ABOVE AVERAGE	.963	1.050	.088	13.8%
Overall	.979	1.030	.111	15.3%

## Improvement Condition

### Case Processing Summary

		Count	Percent
CONDITION	AVERAGE	142	83.0%
	FAIR - BELOW AVERAGE	20	11.7%
	GOOD - ABOVE AVERAGE	9	5.3%
Overall		171	100.0%
Excluded		0	
Total		171	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
AVERAGE	.971	1.011	.094	12.7%
FAIR - BELOW AVERAGE	1.176	1.026	.132	15.6%
GOOD - ABOVE AVERAGE	.840	1.008	.101	11.7%
Overall	.979	1.030	.111	15.3%

### Commercial Median Ratio Stratification

#### Sale Price

### Case Processing Summary

		Count	Percent
SPRec	LT \$25K	1	5.0%
	\$25K to \$50K	2	10.0%
	\$50K to \$100K	4	20.0%
	\$100K to \$150K	7	35.0%
	\$150K to \$200K	3	15.0%
	\$200K to \$300K	2	10.0%
	\$500K to \$750K	1	5.0%
Overall		20	100.0%
Excluded		0	
Total		20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.007	1.000	.000	.
\$25K to \$50K	.977	1.000	.000	0.0%
\$50K to \$100K	.900	.990	.207	24.5%
\$100K to \$150K	1.000	1.000	.080	12.5%
\$150K to \$200K	.981	.990	.090	13.8%
\$200K to \$300K	1.121	1.000	.076	10.7%
\$500K to \$750K	.754	1.000	.000	.
Overall	.991	1.013	.107	14.7%

## Subclass

### Case Processing Summary

		Count	Percent
ABSTRIMP	.00	1	5.0%
	2212.00	4	20.0%
	2220.00	3	15.0%
	2230.00	8	40.0%
	2235.00	3	15.0%
	2240.00	1	5.0%
Overall		20	100.0%
Excluded		0	
Total		20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	1.206	1.000	.000	.
2212.00	1.046	.960	.124	19.9%
2220.00	1.049	1.001	.137	22.0%
2230.00	.946	1.030	.099	12.7%
2235.00	.977	1.003	.010	2.2%
2240.00	1.000	1.000	.000	.
Overall	.991	1.013	.107	14.7%

## Improvement Age

### Case Processing Summary

		Count	Percent
AgeRec	.00	1	5.0%
	Over 100	2	10.0%
	75 to 100	2	10.0%
	50 to 75	6	30.0%
	25 to 50	4	20.0%
	5 to 25	5	25.0%
Overall		20	100.0%
Excluded		0	
Total		20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	1.206	1.000	.000	.
Over 100	1.037	1.007	.110	15.6%
75 to 100	.879	1.100	.145	20.5%
50 to 75	1.021	.982	.127	19.0%
25 to 50	.977	1.036	.047	9.5%
5 to 25	.981	1.057	.080	13.0%
Overall	.991	1.013	.107	14.7%



## Improvement Area

### Case Processing Summary

		Count	Percent
ImpSFRec	.00	1	5.0%
	LE 500 sf	2	10.0%
	500 to 1,000 sf	2	10.0%
	1,000 to 1,500 sf	2	10.0%
	1,500 to 2,000 sf	4	20.0%
	2,000 to 3,000 sf	4	20.0%
	3,000 sf or Higher	5	25.0%
Overall		20	100.0%
Excluded		0	
Total		20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	1.206	1.000	.000	.
LE 500 sf	.977	1.000	.000	0.0%
500 to 1,000 sf	.871	.996	.114	16.1%
1,000 to 1,500 sf	.913	1.084	.103	14.6%
1,500 to 2,000 sf	.837	.985	.184	25.0%
2,000 to 3,000 sf	1.016	1.006	.024	3.0%
3,000 sf or Higher	1.036	1.090	.097	15.5%
Overall	.991	1.013	.107	14.7%

## Improvement Quality

### Case Processing Summary

	Count	Percent
QUALITY	1	5.0%
2 - AVERAGE	12	60.0%
3 - GOOD ABOVE AVERAGE	3	15.0%
5 - BELOW AVG	2	10.0%
6 - VERY GOOD - EXCELLENT	2	10.0%
Overall	20	100.0%
Excluded	0	
Total	20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
	1.206	1.000	.000	.
2 - AVERAGE	.989	.994	.094	12.9%
3 - GOOD ABOVE AVERAGE	1.032	1.151	.138	21.6%
5 - BELOW AVG	.856	1.086	.177	25.0%
6 - VERY GOOD - EXCELLENT	.976	.999	.006	0.8%
Overall	.991	1.013	.107	14.7%

## Improvement Condition

### Case Processing Summary

	Count	Percent
CONDITION	1	5.0%
AVERAGE	18	90.0%
FAIR - BELOW AVERAGE	1	5.0%
Overall	20	100.0%
Excluded	0	
Total	20	

### Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
	1.206	1.000	.000	.
AVERAGE	.979	1.026	.107	14.5%
FAIR - BELOW AVERAGE	1.007	1.000	.000	.
Overall	.991	1.013	.107	14.7%

### Vacant Land Median Ratio Stratification

Not applicable