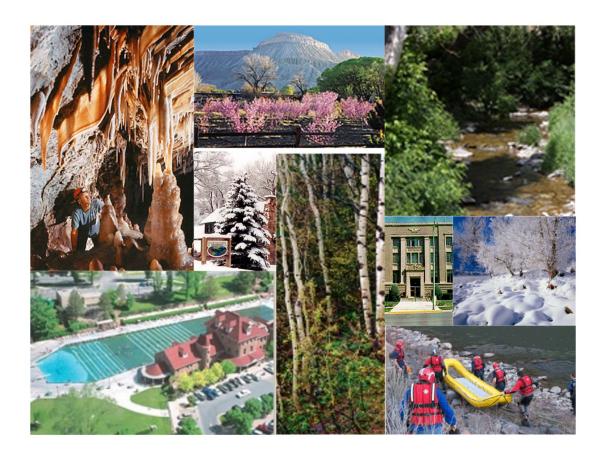


2021 GARFIELD COUNTY PROPERTY ASSESSMENT STUDY







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.

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.

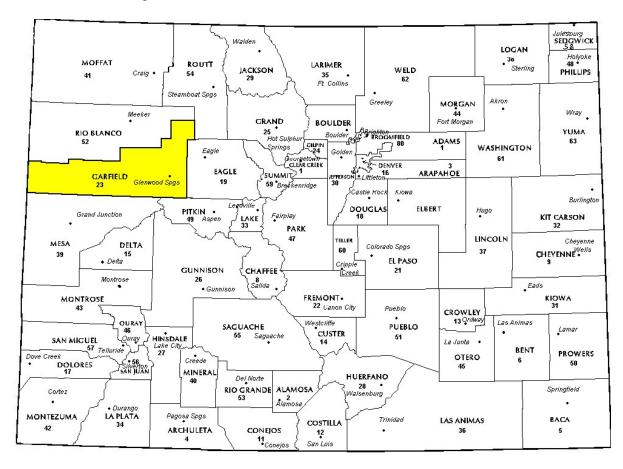
Wildrose Audit has completed the Property Assessment Study for 2021 and is pleased to report its findings for Garfield County in the following report.



REGIONAL/HISTORICAL SKETCH OF GARFIELD COUNTY

Regional Information

Garfield 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

Garfield County has approximately 2,947.6 square miles and an estimated population of approximately 60,061 people with 19.1 people per square mile, according to the U.S. Census Bureau's 2020 estimated census data. This represents a 6.5 percent change from April 1, 2010 to July 1, 2019.

Garfield County is located in the scenic plateau and canyon country of western Colorado. Covering 3000 square miles, it is 110 miles long and extends to the Utah border. It was carved out of Summit County on February 10, 1883. In historical times, the earliest inhabitants were the Ute Indians, and the land was theirs by treaty until April 12, 1880, when they were removed to reservations after the "Meeker Massacre" of 1879. Although explorers, missionaries, miners, and a few settlers had already visited the area of Garfield County, the main influx of settlers began to arrive and towns were founded beginning in 1880.

The towns in Garfield County are located along the Colorado and Roaring Fork rivers in the eastern end of the county, while much of the western portion has only a few roads and fewer inhabitants.

The town of Defiance was founded in 1831 by Isaac Cooper who hoped to develop the natural hot springs into a resort. Unfortunately he died before his dream could be realized. It became the county seat in 1883 and was incorporated and renamed in 1885 as Glenwood Springs, which remains the county seat and largest city today. In 1887 a coal tycoon, Walter Devereaux purchased the hot springs and vapor caves for \$125,000 and began to build the famous pool and spa resort. This was the same year that the Denver and Rio Grande Railroad extended its tracks through the difficult Glenwood Canyon and into Glenwood Springs, Aspen and beyond.

While the county retains part of its ranching and farming heritage, and tourism is important, every town from Carbondale to Parachute has become a bedroom community to provide workers to the ever-booming and everexpanding Aspen skiing economy. People commute to Aspen, 86 miles from Battlement Mesa, as well as to Grand Junction, 63 miles from Rifle.

(Garfield County, Colorado by Judy Crook and Vikki Gray)



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 Garfield County are:

Garfield County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	100	0.994	1.049	8.3	Compliant
Residential	2,147	1.000	1.000	3.2	Compliant
Vacant Land	304	1.000	1.032	8.1	Compliant

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

Garfield 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 R	esults
Property Class	Results
Commercial/Industrial	Compliant
Residential	Compliant
Vacant Land	Compliant

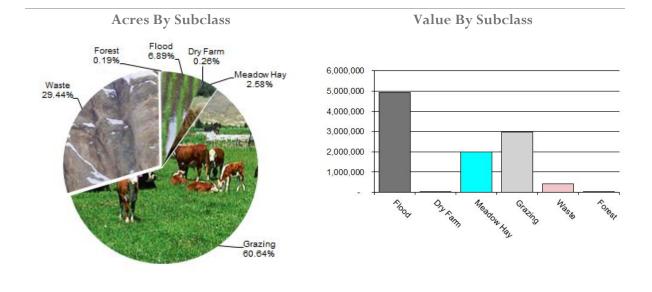
Conclusions

Recommendations

After applying the above described methodologies, it is concluded that Garfield 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 developed any locally 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:



Garfield County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Fotal Value	WRA Total Value	Ratio
4117	Flood	40,051	123.50	4,946,257	5,479,838	0.90
4127	Dry Farm	1,515	31.97	48,439	49,056	0.99
4137	Meadow Hay	15,001	133.33	2,000,133	2,000,133	1.00
4147	Grazing	352,656	8.45	2,980,859	2,980,859	1.00
4177	Forest	1,120	16.50	18,480	18,480	1.00
4167	Waste	171,220	2.42	414,036	414,036	1.00
Total/Avg		581,563	17.90	10,408,204	10,942,402	0.95

Recommendations

None

Agricultural Outbuildings

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.74 through 5.77 were being followed.

Conclusions

Garfield County has substantially complied with the procedures provided by the Division

of Property Taxation for the valuation of agricultural outbuildings.

Recommendations



Agricultural Land Under Improvements

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.19 and 5.20 were being followed.

Conclusions

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

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

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

- Property Record Card Analysis
- Questionnaires
- Field Inspections
- Phone Interviews
- In-Person Interviews with Owners/Tenants
- Written Correspondence other than Questionnaire
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

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

Recommendations



SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

(a)(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 2021 for Garfield County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 40 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 the contractor has reviewed disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis to determine if the sales included in that code have been assigned appropriately.

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of unqualified sales, excluding sales that were disqualified for obvious reasons. The following subclasses were analyzed for Garfield County:

0100 Residential Lots

Conclusions

Garfield 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



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Natural Resource Valuation Procedures, the income approach was applied to determine value for production of earth and stone products. The number of tons was multiplied by an economic royalty rate determined by the Division of Property Taxation to determine income. The income was multiplied by a recommended Hoskold factor to determine the actual value. The Hoskold factor is determined by the life of the reserves or the lease. Value is based on two variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

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

Recommendations

None

Producing Oil and Gas

Methodology

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

STATUTORY REFERENCES

Section § 39-1-103, C.R.S., specifies that producing oil or gas leaseholds and lands are valued according to article 7 of title 39, C.R.S. Actual value determined - when. (2) The valuation for assessment of leaseholds and lands producing oil or gas shall be determined as provided in article 7 of this title. § 39-1-103, C.R.S.

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

Valuation:

Valuation for assessment.

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

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

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

Conclusions

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

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2021 in Garfield 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

Garfield 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 granted under lease, permit, license, concession, contract, or other agreement.

Garfield County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural, commercial and ski area possessory interest properties. The county has also been queried as to their confidence that the possessory interest properties have been discovered and placed on the tax rolls.

Conclusions

Garfield 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

Garfield 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.

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

- Public Record Documents
- MLS Listing and/or Sold Books
- Chamber of Commerce/Economic Development Contacts
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth
- Questionnaires, Letters and/or Phone Calls to Buyer, Seller and/or Realtor
- Websites/Internet
- VRBO
- Airbnb, etc.

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.

Garfield 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
- Accounts with greater than 10% change
- Incomplete or inconsistent declarations



- Accounts with omitted property
- Same business type or use
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts Best Information Available
- Accounts close to the \$7,900 actual value exemption status
- Lowest or highest quartile of value per square foot
- Accounts protested with substantial disagreement

- VRBO
- AIRBNB

Conclusions

Garfield 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



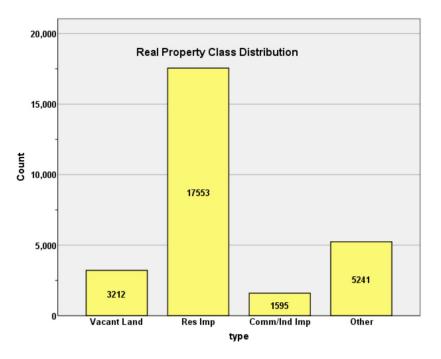
STATISTICAL APPENDIX



STATISTICAL COMPLIANCE REPORT FOR GARFIELD COUNTY 2021

I. OVERVIEW

Garfield County is a mountain resort county located in west central Colorado. The county has a total of 27,601 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:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 and 200) accounted for 44.2% of all vacant land parcels.

For residential improved properties, single family properties accounted for 86.8% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 5.8% of all such properties in this county.

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



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

Codes

V=Valid Geographic Level – used for modeling

N = Not used as Geographic Level for modeling

Note: Each economic area has specific groups of neighborhoods that are evaluated for similar market influences and time trending. **See attached "Time Adjustment write ups" for detailed stratifications for each type of property *Please use Note line(s) to provide further information on how properties are stratified geographically in your county if needed.

II. DATA FILES

The following sales analyses were based on the requirements of the 2021 Colorado Property Assessment Study. Information was provided by the Garfield 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 2,147 qualified residential sales for this analysis. The sale period ran from July 2018 through June 2020.

The sales ratio analysis was analyzed as follows:

Median	1.000
Price Related Differential	1.000
Coefficient of Dispersion	3.2

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



Economic Are Case Processing Summary

_		Count	Percent
ECONAREA	1.00	361	16.8%
	2.00	354	16.5%
	3.00	294	13.7%
	4.00	212	9.9%
	5.00	429	20.0%
	6.00	220	10.2%
	6.50	53	2.5%
	CONDOS	S 224	10.4%
Overall		2147	100.0%
Excluded		0	
Total		2147	

Ratio Statistics for CURRTOT / TASP

Crown	Madian	Price Related	Coefficient of
Group	Median	Differential	Dispersion
1.00	1.003	1.003	.033
2.00	.999	1.001	.033
3.00	.993	1.000	.029
4.00	1.005	1.003	.034
5.00	.998	1.001	.031
6.00	.998	1.003	.035
6.50	1.002	1.007	.042
CONDOS	.999	1.001	.028
Overall	1.000	1.000	.032

Neighborhood w/GE 10 Sales Case Processing Summary

		Count	Percent
NBHD	111040.30	11	1.5%
	112007.00	12	1.7%
	112046.00	14	1.9%
	121031.00	15	2.1%
	121075.00	10	1.4%
	121100.50	10	1.4%
	121117.00	11	1.5%
	122125.50	17	2.3%
	131000.00	15	2.1%
	131000.20	10	1.4%
	131004.00	34	4.7%
	131004.10	23	3.2%
	131005.00	41	5.7%
	141000.00	18	2.5%
	141000.60	11	1.5%
	141008.00	14	1.9%
	141009.00	11	1.5%
	141011.00	13	1.8%
	141012.00	10	1.4%
	141015.10	10	1.4%
	142029.00	10	1.4%
	151000.00	11	1.5%



948	
224	
724	100.0%
12	1.7%
17	2.3%
14	1.9%
12	1.7%
10	1.4%
18	2.5%
13	1.8%
44	6.1%
10	1.4%
10	1.4%
17	2.3%
11	1.5%
14	1.9%
26	3.6%
24	3.3%
58	8.0%
11	1.5%
11	1.5%
19	2.6%
10	1.4%
22	3.0%
	10 19 11 58 24 26 14 17 10 10 44 13 18 10 12 14 17 12 14 17 12 14 17 12 724 224

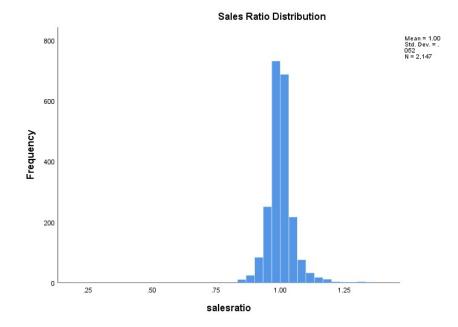
Ratio Statistics for CURRTOT / TASP

	151105 101		
		Price Related	Coefficient of
Group	Median	Differential	Dispersion
111040.30	1.004	1.001	.019
112007.00	1.004	1.005	.108
112046.00	1.008	.999	.026
121031.00	1.005	1.000	.022
121075.00	.968	1.003	.037
121100.50	.999	1.000	.015
121117.00	.997	1.001	.039
122125.50	.972	.999	.052
131000.00	.999	.997	.028
131000.20	.983	1.001	.027
131004.00	.984	.999	.035
131004.10	.987	.999	.026
131005.00	.989	1.001	.033
141000.00	1.008	1.002	.034
141000.60	.990	1.003	.041
141008.00	1.022	1.001	.024
141009.00	1.036	1.001	.026
141011.00	1.009	1.000	.029
141012.00	1.033	1.002	.021
141015.10	1.015	1.006	.053
142029.00	1.008	1.006	.047
151000.00	.998	1.009	.047
151031.00	1.001	1.000	.029
151057.00	.995	1.000	.053
151064.00	1.002	1.003	.038
151066.00	1.001	1.001	.027
151074.00	.997	1.002	.029

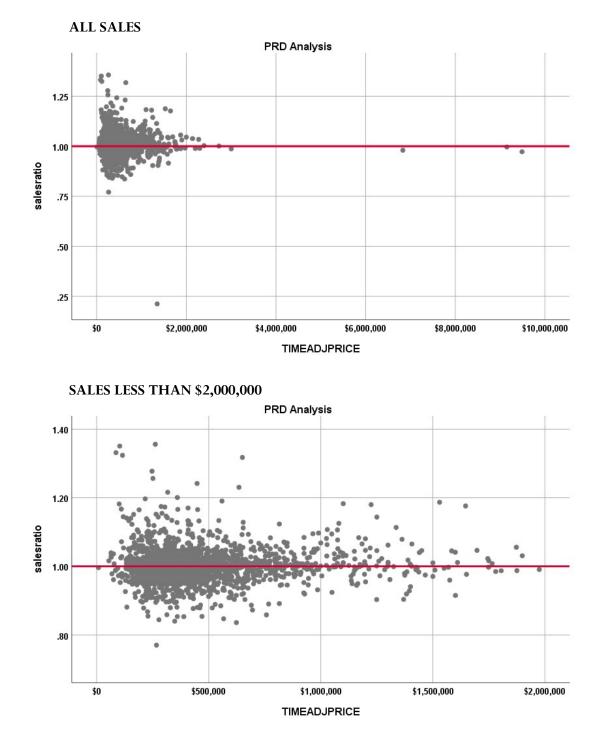


162013.00	.991	1.000	.017
162014.00	.998	1.003	.041
162015.00	.994	1.001	.035
162016.00	.997	1.002	.030
162017.00	.989	1.000	.021
162018.00	.993	1.002	.030
162019.00	1.010	1.002	.037
212018.00	1.008	1.001	.033
222019.00	1.001	1.001	.018
232005.00	.980	1.002	.024
232010.00	.986	.999	.017
252028.50	1.001	1.000	.016
252038.00	.997	1.001	.023
261001.50	1.006	1.002	.029
262001.00	1.000	1.003	.053
262002.00	1.007	1.002	.029
321000.00	1.020	1.006	.037
Overall	.999	1.003	.035

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. We also concluded that these ratios standards were also met when residential sale data is stratified by economic area and neighborhood. The following graphs describe further the sales ratio distribution for these properties:







The Price-Related Differential (PRD) for all sales is 1.00; for the sales less than \$2,000,000 in the above graph, the PRD is 0.999. Both were within the IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor's current value to further test for regressivity or progressivity in the residential sales valuation, as follows:



Coefficients^a

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.994	.002		499.390	.000
	CURRTOT	.0000002	.000	.106	4.926	.000
	1 117 111	1 (1				

a. Dependent Variable: salesratio

The slope of the line at 0.00000002 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 also stratified the sales ratio analysis by the sale price range, as follows:

	-	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	LT \$100K	15	.7	.7	.7
	\$100K to \$200K	158	7.4	7.4	8.1
	\$200K to \$300K	492	23.0	23.0	31.1
	\$300K to \$400K	493	23.1	23.1	54.2
	\$400K to \$500K	337	15.8	15.8	70.0
	\$500K to \$600K	227	10.6	10.6	80.7
	\$600K to \$700K	121	5.7	5.7	86.3
	\$700K to \$800K	79	3.7	3.7	90.0
	\$800K to \$900K	54	2.5	2.5	92.6
	\$900K to \$1,000K	44	2.1	2.1	94.6
	Over \$1,000K	115	5.4	5.4	100.0
	Total	2135	100.0	100.0	

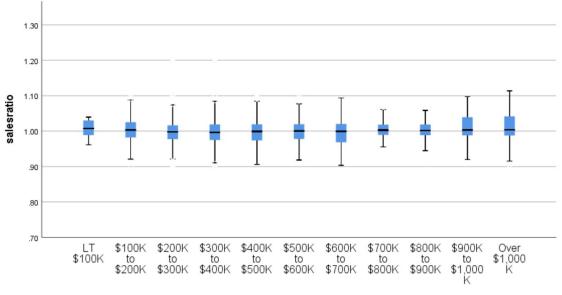
SPRec

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
LT \$100K	1.007	.997	.042
\$100K to \$200K	1.003	1.003	.039
\$200K to \$300K	.998	1.000	.031
\$300K to \$400K	.996	1.000	.030
\$400K to \$500K	.999	1.000	.032
\$500K to \$600K	1.000	1.000	.029
\$600K to \$700K	.999	1.000	.037
\$700K to \$800K	1.003	1.000	.023
\$800K to \$900K	1.002	1.000	.025
\$900K to \$1,000K	1.003	1.000	.030
Over \$1,000K	1.004	1.001	.038
Overall	1.000	.999	.032



Simple Boxplot of salesratio by SPRec



SPRec

Note: Blue box area in chart above denotes 25% to 75% of sales ratios per category, while the whiskers beyond the blue boxes denote 10% to 90% of the sales ratios by category.

The above box and whisker chart indicates that the sales ratio distribution was more or less consistent across the sale price range for Garfield County.

Residential Market Trend Analysis

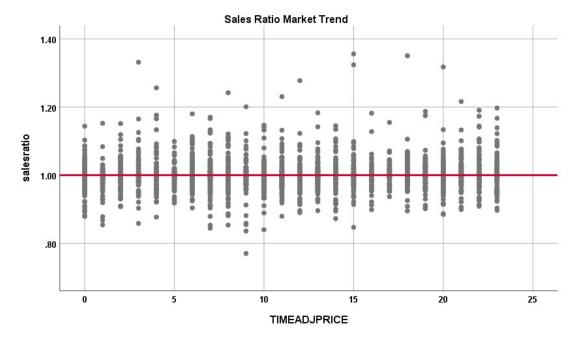
We next analyzed the residential dataset using the 24-month sale period for any residual market trending, as follows:

Coefficients^a

	Unstandardized	Coefficients	Standardized Coefficients		
	В	Std. Error	Beta	t	Sig.
(Constant)	.999	.002		488.507	.000
SalePeriod	.000	.000	.038	1.775	.076
		(Constant) .999	(Constant) .999 .002	Unstandardized Coefficients Coefficients B Std. Error Beta (Constant) .999 .002	Unstandardized Coefficients B Coefficients Beta t (Constant) .999 .002 488.507

a. Dependent Variable: salesratio





The above analysis indicated that the assessor has adequately addressed market trending in the valuation of residential properties.

Sold/Unsold Analysis

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

Report VALSF			
sold	Ν	Median	Mean
SOLD	15306	\$261	\$285
UNSOLD	2144	\$247	\$270

At the class level, we found no evidence that sold properties were valued consistently higher than unsold properties.

We next stratified the sold/unsold analysis by economic area for residential sold and unsold properties:

ECONAREA sold N Median Mean 1.00 UNSOLD 3047 \$368 \$395 SOLD 360 \$377 \$400 2.00 UNSOLD 3393 \$320 \$341 SOLD 353 \$305 \$335 3.00 UNSOLD 1887 \$243 \$254 SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239 5.00 UNSOLD 2686 \$207 \$214	Report VALSF				
SOLD 360 \$377 \$400 2.00 UNSOLD 3393 \$320 \$341 SOLD 353 \$305 \$335 3.00 UNSOLD 1887 \$243 \$254 SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239	ECONAREA	sold	N	Median	Mean
2.00 UNSOLD 3393 \$320 \$341 SOLD 353 \$305 \$335 3.00 UNSOLD 1887 \$243 \$254 SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239	1.00	UNSOLD	3047	\$368	\$395
SOLD 353 \$305 \$335 3.00 UNSOLD 1887 \$243 \$254 SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239		SOLD	360	\$377	\$400
3.00 UNSOLD 1887 \$243 \$254 SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239	2.00	UNSOLD	3393	\$320	\$341
SOLD 294 \$240 \$252 4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239		SOLD	353	\$305	\$335
4.00 UNSOLD 1719 \$220 \$231 SOLD 212 \$227 \$239	3.00	UNSOLD	1887	\$243	\$254
SOLD 212 \$227 \$239		SOLD	294	\$240	\$252
	4.00	UNSOLD	1719	\$220	\$231
5.00 LINSOLD 2686 \$207 \$214		SOLD	212	\$227	\$239
5.00 0NSOLD 2000 \$201 \$214	5.00	UNSOLD	2686	\$207	\$214



	SOLD	429	\$204	\$209
6.00	UNSOLD	1081	\$170	\$179
	SOLD	220	\$163	\$168
6.50	UNSOLD	263	\$150	\$151
	SOLD	53	\$142	\$149

As with the class level analysis, we found no evidence that sold residential properties were valued consistently higher than unsold residential properties. We next compared sold and unsold residential properties by neighborhood with at least 10 sales, as follows:

Report VALSF				
NBHD	sold	Ν	Median	Mean
121031.00	UNSOLD	81	\$381	\$388
	SOLD	15	\$399	\$391
122125.50	UNSOLD	100	\$260	\$261
	SOLD	17	\$273	\$278
131000.00	UNSOLD	152	\$257	\$261
	SOLD	15	\$285	\$292
131004.00	UNSOLD	171	\$247	\$247
	SOLD	34	\$264	\$258
131004.10	UNSOLD	97	\$234	\$233
	SOLD	23	\$237	\$236
131005.00	UNSOLD	287	\$253	\$264
	SOLD	41	\$262	\$264
141000.00	UNSOLD	138	\$212	\$220
	SOLD	18	\$217	\$228
151057.00	UNSOLD	74	\$210	\$209
	SOLD	22	\$203	\$205
151066.00	UNSOLD	124	\$226	\$229
	SOLD	19	\$202	\$205
162014.00	UNSOLD	230	\$142	\$142
	SOLD	58	\$144	\$145
162015.00	UNSOLD	120	\$180	\$192
	SOLD	24	\$184	\$189
162016.00	UNSOLD	120	\$186	\$190
	SOLD	26	\$180	\$184
162019.00	UNSOLD	86	\$184	\$191
	SOLD	17	\$185	\$192
232005.00	UNSOLD	109	\$235	\$241
	SOLD	44	\$230	\$231
252028.50	UNSOLD	34	\$171	\$170
	SOLD	18	\$171	\$171
262002.00	UNSOLD	33	\$134	\$131
	SOLD	17	\$140	\$133

The neighborhood highlighted in red had an 11 percent differences between the median value per square foot. We performed a follow-up comparison using the median change in value for these neighborhoods and found that there was no notable difference.

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



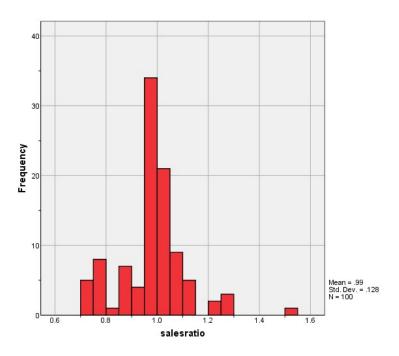
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

There were 100 qualified commercial sales for this analysis. The sale period ran from July 2018 through June 2020.

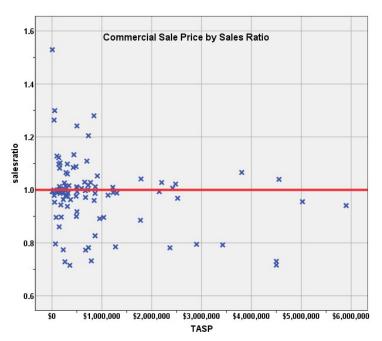
The sales ratio analysis was analyzed as follows:

Median	0.994
Price Related Differential	1.049
Coefficient of Dispersion	8.3

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







Commercial Market Trend Analysis

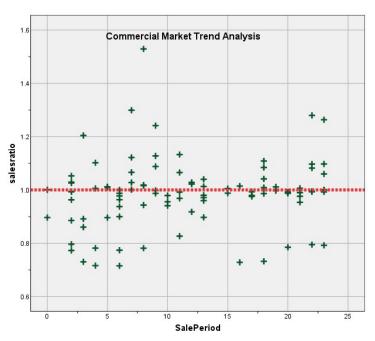
The commercial sales were analyzed for market trending; we examined the sale ratios across the 24-month sale period with the following results:

Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.959	.024		39.629	.000
	SalePeriod	.002	.002	.133	1.326	.188

a. Dependent Variable: salesratio





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

Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if the assessor was valuing each group consistently. The following results indicate that based on the median actual value, as follows:

Report VALSF			
sold	Ν	Median	Mean
UNSOLD	1349	\$115	\$142
SOLD	130	\$128	\$161

We next stratified this comparison by abstract improvement code for properties with at least three sales within each abstract group:



Report VALSF				
ABSTRIMP	sold	Ν	Median	Mean
2212.00	UNSOLD	173	\$114	\$135
	SOLD	18	\$144	\$295
2215.00	UNSOLD	42	\$132	\$202
	SOLD	4	\$150	\$173
2220.00	UNSOLD	105	\$164	\$197
	SOLD	4	\$122	\$181
2230.00	UNSOLD	289	\$129	\$191
	SOLD	19	\$160	\$287
2235.00	UNSOLD	204	\$73	\$89
	SOLD	12	\$90	\$96
2245.00	UNSOLD	416	\$133	\$134
	SOLD	34	\$139	\$135

Commercial properties coded 2212 sold properties on the average were approximately 50 percent of the size of the unsold properties. Similar mean values per square foot.

Commercial properties coded as 2230 had a higher sold value per square foot than unsold properties, but the sold properties were newer and smaller in size on average than the unsold properties.

Commercial properties coded as 2235 also showed a higher sold value per square foot than unsold properties, but the sold properties were on the average smaller. There were only 12 sales.

Commercial properties coded as 2245 had very similar median values per square foot between sold and unsold properties.

Based on the above comparison analyses, we concluded that there is no pattern of sold properties being valued consistently above unsold properties, either overall or by abstract improvement subclass, when property attributes are considered.

V. VACANT LAND SALE RESULTS

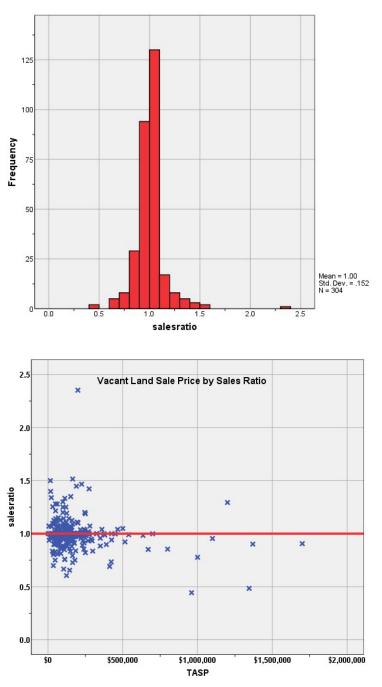
There were 304 total qualified vacant land sales for this analysis. The sale period ran from July 2018 through June 2020.

The sales ratios were analyzed as follows:

Median	1.000
Price Related Differential	1.032
Coefficient of Dispersion	8.1

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





Vacant Land Market Trend Analysis

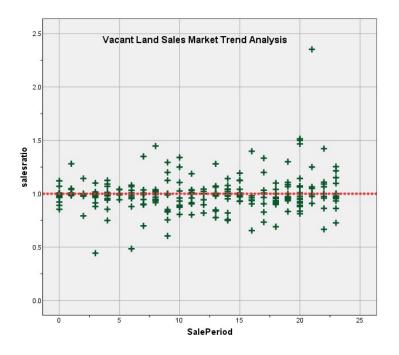
The vacant land sales were next analyzed for market trending; we examined the sale ratios across the 24-month sale period with the following results:



Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.972	.017		58.114	.000
	SalePeriod	.002	.001	.104	1.817	.070

a. Dependent Variable: salesratio



The above analysis indicated that there was no significant residual market trending in the sales ratio across the 24-month sale period. We concluded that the assessor has applied market trending adjustments in an appropriate manner.

Sold/Unsold Analysis

We compared the median change in actual value between taxable year 2018 and 2020 for vacant land properties to determine if sold and unsold properties were valued consistently. The analysis was performed both overall and by subdivision with at least 5 sales, as follows:

Report DIFF			
sold	Ν	Median	Mean
UNSOLD	2828	1.0000	1.0998
SOLD	263	1.0588	1.1294



Report				
SUBDIVNO	sold	Ν	Median	Mean
372	UNSOLD	56	.9259	.9616
	SOLD	5	.9259	.9556
1409	UNSOLD	55	.8571	.9677
	SOLD	5	1.0000	1.0951
2004	UNSOLD	10	1.0000	1.0185
	SOLD	5	1.1250	1.0655
2051	UNSOLD	4	.9500	.9885
	SOLD	6	1.0192	1.1119
2052	UNSOLD	14	1.0192	.9887
	SOLD	6	1.0417	1.1803
2094	UNSOLD	13	.7879	.7993
	SOLD	5	.8214	.8813
2169	UNSOLD	67	1.8421	1.8216
	SOLD	8	1.8421	1.8218
2194	UNSOLD	13	1.1702	1.1885
	SOLD	6	1.4667	1.3827
9186	UNSOLD	19	1.1111	1.1358
	SOLD	6	1.1765	1.2275
9274	UNSOLD	11	1.2000	1.1834
	SOLD	5	1.1000	1.0835
9286	UNSOLD	11	.8929	.8805
	SOLD	5	.8421	.8491
9330	UNSOLD	22	1.0000	1.0099
	SOLD	5	1.0500	1.0207

While the median change in value using all vacant land properties indicated a marginal difference between sold and unsold, when subdivisions with at least 5 sales were analyzed, there was no consistent pattern where sold properties were valued differently than unsold properties. The above results indicated that sold and unsold vacant land properties were valued consistently.

V. Conclusions

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



STATISTICAL ABSTRACT Residential Median Ratio

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Cor	ifidence Interval fi	or Median		95% Confiden Weighte	ce Interval for d 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
1.002	.999	1.004	1.000	.999	1.000	95.3%	1.001	.998	1.005	1.000	.032	5.1%

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 Median Ratio

	95% Confiden Me			95% Cor	nfidence Interval fo	or Median		95% Confiden Weighte	ce Interval for d 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
.986	.960	1.011	.994	.987	1.001	96.5%	.940	.898	.982	1.049	.083	13.0%

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

Vacant Land Median Ratio

	95% Confiden Me			95% Cor	fidence Interval fo	or Median		95% Confiden Weighte				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
.998	.980	1.015	1.000	.998	1.000	95.5%	.967	.927	1.006	1.032	.081	15.2%

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



Residential Sale Ratio Stratification

Sub Class Case Processing Summary

	-	-	
		Count	Percent
ABSTRIMP	1212.00	1444	67.3%
	1213.00	412	19.2%
	1213.50	1	0.0%
	1214.50	1	0.0%
	1215.00	53	2.5%
	1220.00	6	0.3%
	1222.22	1	0.0%
	1223.25	1	0.0%
	1225.00	4	0.2%
	1230.00	223	10.4%
	1240.00	1	0.0%
Overall		2147	100.0%
Excluded		0	
Total		2147	

Itatio St								
Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered				
1212.00	1.000	.999	.035	5.5%				
1213.00	.998	1.002	.024	3.5%				
1213.50	.971	1.000	.000					
1214.50	.988	1.000	.000					
1215.00	1.011	1.006	.041	6.9%				
1220.00	1.016	1.004	.024	3.2%				
1222.22	1.000	1.000	.000					
1223.25	1.012	1.000	.000					
1225.00	.997	1.004	.008	1.3%				
1230.00	.999	1.001	.028	5.0%				
1240.00	.972	1.000	.000					
Overall	1.000	1.000	.032	5.2%				



Age

Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	1444	67.3%
	1213.00	412	19.2%
	1213.50	1	0.0%
	1214.50	1	0.0%
	1215.00	53	2.5%
	1220.00	6	0.3%
	1222.22	1	0.0%
	1223.25	1	0.0%
	1225.00	4	0.2%
	1230.00	223	10.4%
	1240.00	1	0.0%
Overall		2147	100.0%
Excluded		0	
Total		2147	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1212.00	1.000	.999	.035	5.5%
1213.00	.998	1.002	.024	3.5%
1213.50	.971	1.000	.000	
1214.50	.988	1.000	.000	
1215.00	1.011	1.006	.041	6.9%
1220.00	1.016	1.004	.024	3.2%
1222.22	1.000	1.000	.000	
1223.25	1.012	1.000	.000	
1225.00	.997	1.004	.008	1.3%
1230.00	.999	1.001	.028	5.0%
1240.00	.972	1.000	.000	
Overall	1.000	1.000	.032	5.2%

Improved Area Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	1444	67.3%
	1213.00	412	19.2%
	1213.50	1	0.0%
	1214.50	1	0.0%
	1215.00	53	2.5%
	1220.00	6	0.3%
	1222.22	1	0.0%
	1223.25	1	0.0%
	1225.00	4	0.2%
	1230.00	223	10.4%
	1240.00	1	0.0%
Overall		2147	100.0%
Excluded		0	
Total		2147	



Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
1212.00	1.000	.999	.035	5.5%
1213.00	.998	1.002	.024	3.5%
1213.50	.971	1.000	.000	
1214.50	.988	1.000	.000	
1215.00	1.011	1.006	.041	6.9%
1220.00	1.016	1.004	.024	3.2%
1222.22	1.000	1.000	.000	
1223.25	1.012	1.000	.000	
1225.00	.997	1.004	.008	1.3%
1230.00	.999	1.001	.028	5.0%
1240.00	.972	1.000	.000	
Overall	1.000	1.000	.032	5.2%

Improvement Quality Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	1444	67.3%
	1213.00	412	19.2%
	1213.50	1	0.0%
	1214.50	1	0.0%
	1215.00	53	2.5%
	1220.00	6	0.3%
	1222.22	1	0.0%
	1223.25	1	0.0%
	1225.00	4	0.2%
	1230.00	223	10.4%
	1240.00	1	0.0%
Overall		2147	100.0%
Excluded		0	
Total		2147	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1212.00	1.000	.999	.035	5.5%
1213.00	.998	1.002	.024	3.5%
1213.50	.971	1.000	.000	
1214.50	.988	1.000	.000	
1215.00	1.011	1.006	.041	6.9%
1220.00	1.016	1.004	.024	3.2%
1222.22	1.000	1.000	.000	
1223.25	1.012	1.000	.000	
1225.00	.997	1.004	.008	1.3%
1230.00	.999	1.001	.028	5.0%
1240.00	.972	1.000	.000	
Overall	1.000	1.000	.032	5.2%



Improvement Condition

NOT AVAILABLE

Commercial Sale Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	5	5.0%
	\$25K to \$50K	3	3.0%
	\$50K to \$100K	5	5.0%
	\$100K to \$150K	8	8.0%
	\$150K to \$200K	7	7.0%
	\$200K to \$300K	12	12.0%
	\$300K to \$500K	16	16.0%
	\$500K to \$750K	13	13.0%
	\$750K to \$1,000K	9	9.0%
	Over \$1,000K	22	22.0%
Overall		100	100.0%
Excluded		0	
Total		100	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
LT \$25K	.994	1.030	.108	26.9%
\$25K to \$50K	1.000	1.001	.095	18.7%
\$50K to \$100K	.954	1.016	.126	20.2%
\$100K to \$150K	1.007	1.004	.064	9.0%
\$150K to \$200K	.994	1.003	.052	7.3%
\$200K to \$300K	.994	.997	.058	10.8%
\$300K to \$500K	.998	.998	.066	9.8%
\$500K to \$750K	1.001	1.003	.090	13.5%
\$750K to \$1,000K	.987	1.000	.108	15.7%
Over \$1,000K	.974	1.012	.090	12.4%
Overall	.994	1.049	.083	12.9%



Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	1490.61	1	1.0%
	1545.33	1	1.0%
	1656.44	1	1.0%
	1712.00	1	1.0%
	2212.00	18	18.0%
	2215.00	4	4.0%
	2220.00	4	4.0%
	2227.50	1	1.0%
	2230.00	19	19.0%
	2231.17	1	1.0%
	2235.00	12	12.0%
	2240.00	2	2.0%
	2245.00	34	34.0%
	2723.50	1	1.0%
Overall		100	100.0%
Excluded		0	
Total		100	

Ratio Statistics for CORRECT / TASP				
_		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
1490.61	.955	1.000	.000	
1545.33	1.088	1.000	.000	
1656.44	1.016	1.000	.000	
1712.00	1.133	1.000	.000	
2212.00	.978	.995	.079	9.8%
2215.00	.761	1.060	.117	19.4%
2220.00	1.015	.971	.063	11.1%
2227.50	1.241	1.000	.000	
2230.00	1.015	.995	.063	10.5%
2231.17	1.006	1.000	.000	
2235.00	.964	1.007	.106	13.7%
2240.00	.886	1.039	.118	16.7%
2245.00	.993	1.053	.073	14.2%
2723.50	.980	1.000	.000	
Overall	.994	1.049	.083	12.9%



Improvement Age

Case Processing Summary

		Count	Percent
AgeRec	.00	45	45.0%
	75 to 100	1	1.0%
	50 to 75	6	6.0%
	25 to 50	20	20.0%
	5 to 25	22	22.0%
	5 or Newer	6	6.0%
Overall		100	100.0%
Excluded		0	
Total		100	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	.992	1.072	.081	12.5%
75 to 100	.900	1.000	.000	
50 to 75	.978	1.030	.076	9.8%
25 to 50	.994	1.039	.069	14.2%
5 to 25	.989	1.065	.105	14.7%
5 or Newer	1.017	1.040	.067	10.7%
Overall	.994	1.049	.083	12.9%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	4	4.0%
	500 to 1,000 sf	15	15.0%
	1,000 to 1,500 sf	18	18.0%
	1,500 to 2,000 sf	8	8.0%
	2,000 to 3,000 sf	15	15.0%
	3,000 sf or Higher	40	40.0%
Overall		100	100.0%
Excluded		0	
Total		100	

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
LE 500 sf	.989	1.001	.031	5.5%
500 to 1,000 sf	.994	1.043	.100	18.3%
1,000 to 1,500 sf	.991	1.018	.078	11.5%
1,500 to 2,000 sf	1.049	.991	.081	9.6%
2,000 to 3,000 sf	1.012	.963	.096	14.9%
3,000 sf or Higher	.989	1.036	.077	11.7%
Overall	.994	1.049	.083	12.9%



Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	1 - LOW	1	1.0%
	2 - AVERAGE	70	70.0%
	2 - FAIR	1	1.0%
	2.5 - AVERAGE TO GOOD	6	6.0%
	3 - AVERAGE	1	1.0%
	3 - GOOD	11	11.0%
	4 - EXCELLENT	1	1.0%
	5 - FAIR	8	8.0%
	6 - VERY GOOD	1	1.0%
Overall		100	100.0%
Excluded		0	
Total		100	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
1 - LOW	1.097	1.000	.000	
2 - AVERAGE	.994	1.065	.079	13.1%
2 - FAIR	1.088	1.000	.000	
2.5 - AVERAGE TO GOOD	.995	.974	.067	12.2%
3 - AVERAGE	.900	1.000	.000	
3 - GOOD	.960	1.017	.122	16.1%
4 - EXCELLENT	.941	1.000	.000	
5 - FAIR	1.016	1.032	.073	11.0%
6 - VERY GOOD	1.041	1.000	.000	
Overall	.994	1.049	.083	12.9%

Improvement Condition NOT AVAILABLE

Vacant Land Sale Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	13	4.3%
	\$25K to \$50K	36	11.8%
	\$50K to \$100K	71	23.4%
	\$100K to \$150K	69	22.7%
	\$150K to \$200K	49	16.1%
	\$200K to \$300K	38	12.5%
	\$300K to \$500K	15	4.9%
	\$500K to \$750K	5	1.6%
	\$750K to \$1,000K	3	1.0%
	Over \$1,000K	5	1.6%
Overall		304	100.0%
Excluded		0	
Total		304	



Ratio Statistics for CURRLND / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.000	.982	.120	21.3%
\$25K to \$50K	1.000	.999	.076	12.0%
\$50K to \$100K	1.000	.998	.066	9.8%
\$100K to \$150K	1.000	1.000	.072	11.9%
\$150K to \$200K	1.000	.997	.102	23.9%
\$200K to \$300K	1.000	1.001	.068	12.7%
\$300K to \$500K	.998	1.000	.069	11.9%
\$500K to \$750K	.984	1.000	.044	7.4%
\$750K to \$1,000K	.777	1.012	.176	31.2%
Over \$1,000K	.906	1.011	.190	31.7%
Overall	1.000	1.032	.081	15.2%

Land Subclass

Case Processing Summary

		Count	Percent
ABSTRLND	100.00	88	28.9%
	200.00	29	9.5%
	400.00	47	15.5%
	510.00	2	0.7%
	520.00	7	2.3%
	530.00	8	2.6%
	540.00	13	4.3%
	550.00	20	6.6%
	560.00	2	0.7%
	1112.00	74	24.3%
	1115.00	1	0.3%
	1135.00	1	0.3%
	2112.00	2	0.7%
	2130.00	5	1.6%
	2135.00	3	1.0%
	9149.00	2	0.7%
Overall		304	100.0%
Excluded		0	
Total		304	

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
Group	Median	Differential	Dispersion	
100.00	1.000	1.011	.072	12.9%
200.00	.990	1.046	.158	31.1%
400.00	1.000	1.001	.055	8.2%
510.00	.977	1.015	.023	3.3%
520.00	.917	1.016	.069	9.0%
530.00	.993	1.000	.029	4.3%
540.00	1.000	.990	.084	15.6%
550.00	1.000	.994	.028	7.9%
560.00	.902	1.092	.194	27.4%
1112.00	1.000	1.017	.070	11.1%



1115.00	1.467	1.000	.000		
1135.00	1.215	1.000	.000		
2112.00	1.211	.983	.175	24.7%	
2130.00	.862	1.011	.073	11.7%	
2135.00	.938	1.176	.232	43.0%	
9149.00	.836	1.406	.421	59.5%	
Overall	1.000	1.032	.081	15.2%	