



September 15, 2023

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

RE: Final Report for the 2023 Colorado Property Assessment Study

Dear Ms. Castle:

East West Econometrics - Audit Division is pleased to submit the Final Reports for the 2023 Colorado Property Assessment Study.

These reports are the result of two analyses: A procedural audit and a statistical audit.

The procedural audit examines all classes of locally assessed property. It specifically looks at how the assessor develops economic areas, confirms and qualifies sales, develops time adjustments and performs periodic physical property inspections. The audit reviews the procedures for determining subdivision absorption and subdivision discounting. Valuation methodology is examined for residential properties and commercial properties. Procedures are reviewed for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests, and non-producing patented mining claims.

Statistical audits are performed on vacant land, residential properties, commercial/industrial properties and agricultural land. A statistical analysis is performed for personal property compliance on the eleven largest counties: Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo and Weld. The remaining counties receive a personal property procedural study.

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

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

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

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INTRODUCTION



Colorado

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

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

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

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

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

The property assessment audit conducts a two-part analysis: A procedural analysis and a statistical analysis.

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

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

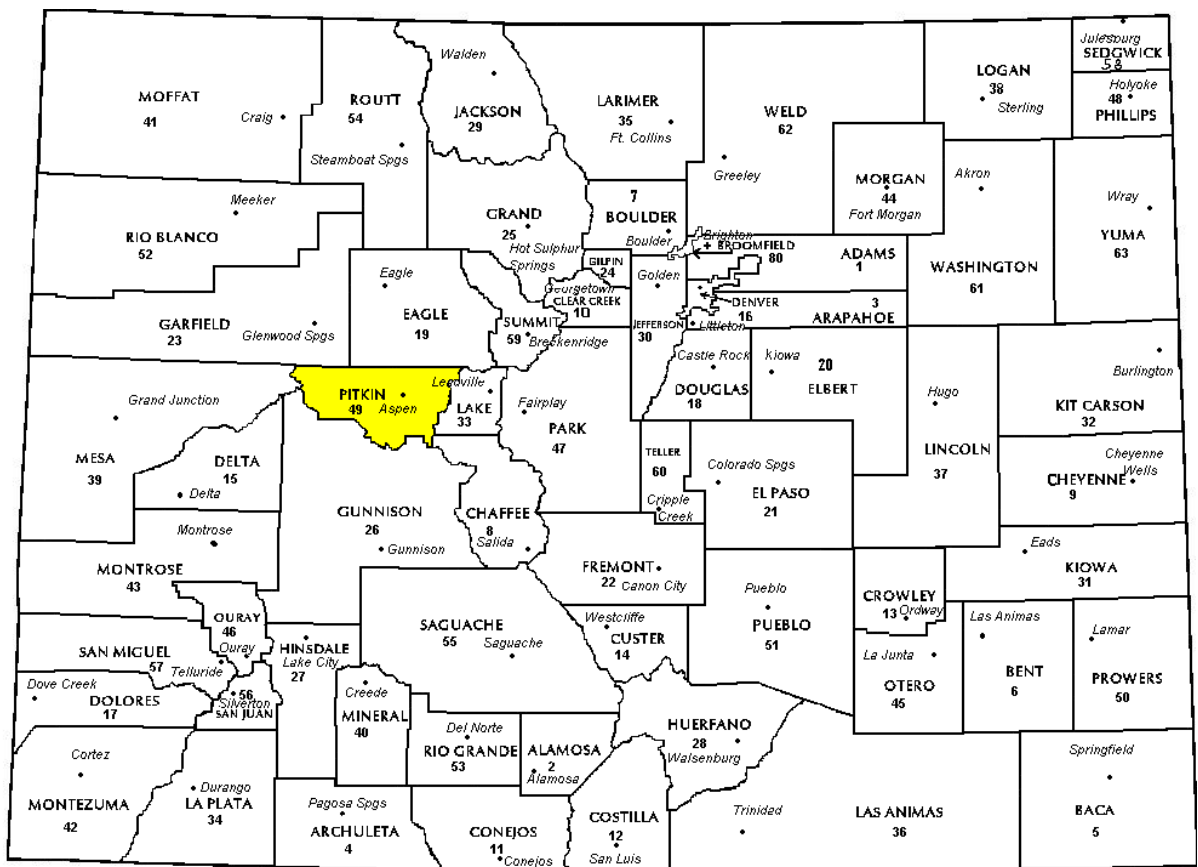
East West Econometrics Audit has completed the Property Assessment Study for 2023 and is pleased to report its findings for Pitkin County in the following report.

REGIONAL/HISTORICAL SKETCH OF PITKIN COUNTY

Regional Information

Pitkin 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

Pitkin County has approximately 970.7 square miles and an estimated population of approximately 17,767 people with 17.7 people per square mile, according to the U.S. Census Bureau's 2020 estimated census data. This represents a 3.6 percent change from April 1, 2010 to July 1, 2019.

Pitkin County was created in 1881 from a part of Gunnison County. The county was named for Governor Frederick W. Pitkin.

The county seat is Aspen, named by town site surveyor, B. Clark Wheeler, for the quaking aspen trees growing in the area. Originally named Ute City, the community was renamed Aspen in 1880 and in its peak production years of 1891 and 1892 surpassed Leadville as the United States' most productive silver-mining district.

Aspen's development as a ski resort first flickered in the 1930s when investors conceived of a ski area, but the project was interrupted by World War II. Friedl Pfeifer, a member of the 10th Mountain Division who had trained in the area, returned to the area and linked up with industrialist Walter Paepcke and his wife Elizabeth. The Aspen Skiing Corporation was founded in 1946 and the town quickly became a well-known resort.

The city sits along the southeast (upper) end of the Roaring Fork Valley, along the Roaring Fork River, a tributary of the Colorado River. It is surrounded by mountain and wilderness areas on three sides: Red Mountain to the north, Smuggler Mountain to the east, and Aspen Mountain to the south.

(www.Wikipedia.org, William Bright, Colorado Place Names, 3rd Edition, Johnson Books, 2004, p. 141 and 11)

RATIO ANALYSIS

Methodology

All significant classes of property were analyzed. Sales were collected for each property class over the eighteen month period from January 1, 2021 through June 30th, 2022. Property classes with less than thirty sales had the sales period extended in six month increments up to an additional forty-two months. If this extended sales period did not produce the minimum thirty qualified sales, the Audit performed supplemental appraisals to reach the minimum.

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

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

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

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

Conclusions

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

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

The results for Pitkin County are:

Pitkin County Ratio Grid						
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis	
Commercial/Industrial	41	1.000	1.249	9.1	Compliant	
Residential Condo	638	0.995	1.015	9.5	Compliant	
Residential	432	0.991	1.015	15.4	Compliant	
Vacant Land	N/A	N/A	N/A	N/A	N/A	

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

Pitkin County was tested for the equal treatment of sold and unsold properties to ensure that “sales chasing” has not occurred. The auditors employed a multi-step process to determine if sold and unsold properties were valued in a consistent manner.

We test the hypothesis that the assessor has valued unsold properties consistent with what is observed with the sold properties based on several units of comparison and tests. The units of comparison include the actual value per square foot and the change in value from the previous base year period to the current base year. The first test compares the actual value per square foot between sold and unsold properties by class. The median and mean value per square foot is compared and tested for any significant difference. This is tested using non-parametric methods, such as the Mann-Whitney test for differences in the distributions or medians between sold and unsold groups. It is also examined graphically and from an appraisal perspective. Data can be stratified based on location and subclass. The second test compares the difference in the median change in value from the previous base year to the current base year between sold and unsold properties by class. The same combination of non-parametric and appraisal testing is used as with the first test. A third test employing a valuation model testing a sold/unsold binary variable while controlling for property attributes such as location, size, age and other attributes. The model determines if the sold/unsold variable is statistically and empirically significant. If all three tests indicate a significant difference between sold and unsold properties for a given class, the Auditor may meet with the county to determine if sale chasing is actually occurring,

or if there are other explanations for the observed difference.

If the unsold properties have a higher median value per square foot than the sold properties, or if the median change in value is greater for the unsold properties than the sold properties, the analysis is stopped and the county is concluded to be in compliance with sold and unsold guidelines. All sold and unsold properties in a given class are first tested, although properties with extreme unit values or percent changes can be trimmed to stabilize the analysis. The median is the primary comparison metric, although the mean can also be used as a comparison metric if the distribution supports that type of measure of central tendency.

The first test (unit value method) is applied to both residential and commercial/industrial sold and unsold properties. The second test is applied to sold and unsold vacant land properties. The second test (change in value method) is also applied to residential or commercial sold and unsold properties if the first test results in a significant difference observed and/or tested between sold and unsold properties. The third test (valuation modeling) is used in instances where the results from the first two tests indicate a significant difference between sold and unsold properties. It can also be used when the number of sold and unsold properties is so large that the non-parametric testing is indicating a false rejection of the hypothesis that there is no difference between the sold and unsold property values.

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

Sold/Unsold Results	
Property Class	Results
Commercial/Industrial	Compliant
Residential Condos	Compliant
Residential	Compliant
Vacant Land	N/A

Conclusions

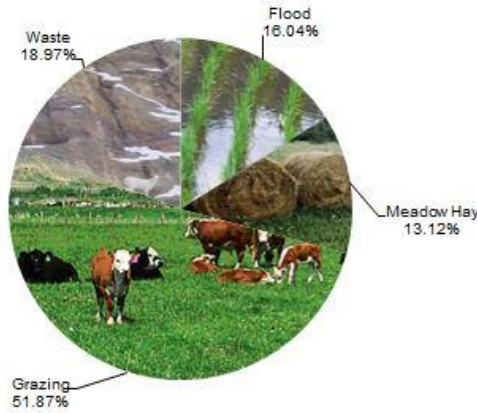
After applying the above described methodologies, it is concluded that Pitkin County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

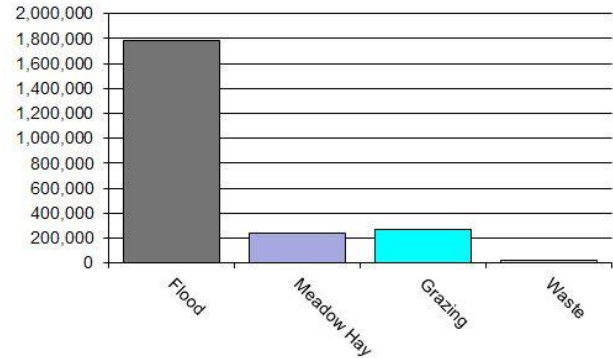
None

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:

Pitkin County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4117	Flood	7,219	246.75	1,781,309	1,785,178	1.00
4137	Meadow Hay	5,903	40.42	238,625	238,625	1.00
4147	Grazing	23,341	11.66	272,055	272,055	1.00
4167	Waste	8,539	2.19	18,685	18,685	1.00
Total/Avg		45,002	51.35	2,310,673	2,314,542	1.00

Recommendations

None

Agricultural Outbuildings

Methodology

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

Property Taxation for the valuation of agricultural outbuildings.

Recommendations

None

Conclusions

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

Agricultural Land Under Improvements

Methodology

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

Conclusions

Pitkin 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

Pitkin 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

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

Recommendations

None

SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

EWE reviewed the sales verification procedures in 2023 for Pitkin County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically EWE selected 34 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.

Pitkin County did not qualify for in-depth subclass analysis.

Conclusions

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

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations

None

NATURAL RESOURCES

Earth and Stone Products

Methodology

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

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

Conclusions

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

Recommendations

None

VACANT LAND

**Pitkin County is exempt from the Vacant Land Subdivision
Discount Study.**

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.

Pitkin 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

Pitkin 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

Pitkin 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.

Pitkin 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
- 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
- Attending Aspen Board of Realtors Open House
- Google
- TD1000
- Business Licenses
- Res Rental Permits

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.

Pitkin County submitted their personal property written audit plan and was current for the 2023 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Businesses in a selected area
- Accounts with obvious discrepancies
- New businesses filing for the first time

- Accounts with greater than 10% change
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Same business type or use
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts close to the \$52,000 actual value exemption status

- Accounts protested with substantial disagreement

Conclusions

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

Recommendations

None

EAST WEST ECONOMETRICS AUDITOR STAFF

Harry J. Fuller, *Audit Project Manager*

Suzanne Howard, *Audit Administrative Manager*

Steve Kane, *Audit Statistician*

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

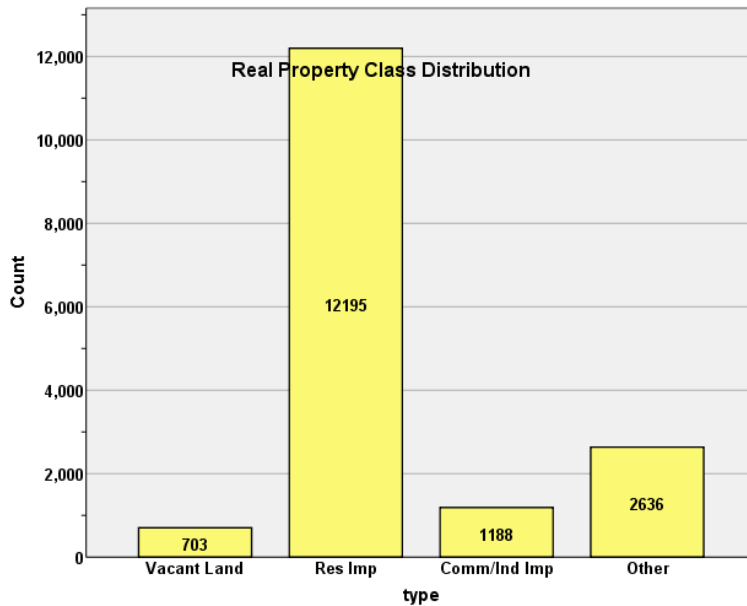
J. Andrew Rodriguez, *Field Analyst*

STATISTICAL APPENDIX

**STATISTICAL COMPLIANCE REPORT
FOR PITKIN COUNTY
2023**

I. OVERVIEW

Pitkin County is a mountain resort area located in western Colorado. The county has a total of 16,722 real property parcels, according to data submitted by the county assessor’s office in 2023. The following provides a breakdown of property classes for this county:



Because there are fewer than 1,200 vacant land parcels, this county is exempt from statistical compliance analysis.

For residential improved properties, single family properties accounted for 44.7% of all residential properties. Residential condominiums accounted for 49.7% of all residential improved properties. Based on the guidelines for the state audit statistical compliance analysis, we will analyze residential condominiums separately.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 7.1% of all such properties in this county.

II. DATA FILES

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

III. RESIDENTIAL SALES RESULTS

There were 1,070 qualified residential sales for the 18-month period ending June 30, 2020. The sales ratio analysis was analyzed as follows:

Residential Non-Condominiums (432 Sales)

Median	0.991
Price Related Differential	1.015
Coefficient of Dispersion	15.4

Residential Condominiums (638 Sales)

Median	0.995
Price Related Differential	1.015
Coefficient of Dispersion	9.5

We next stratified the above ratio analysis by economic area for residential non-condominiums and by neighborhood for residential condominiums. Economic areas and neighborhoods with less than 15 sales were excluded.

Non-Condominiums by Economic Area:

Group	N	Median	Price Related Differential	Coefficient of Dispersion
1011.00	46	.981	1.007	.128
1021.00	32	.977	.975	.218
1031.00	54	.991	.978	.191
1041.00	22	.950	1.035	.133
1071.00	97	.995	1.011	.152
1081.00	25	.999	1.007	.083
1082.00	17	.990	1.005	.096
1091.00	28	.984	1.071	.132
1111.00	36	.987	1.286	.137
Overall	432	.991	1.015	.154

B. Condominiums by Neighborhood (at least 5 sales):

Ratio Statistics for CURRTOT / TASP

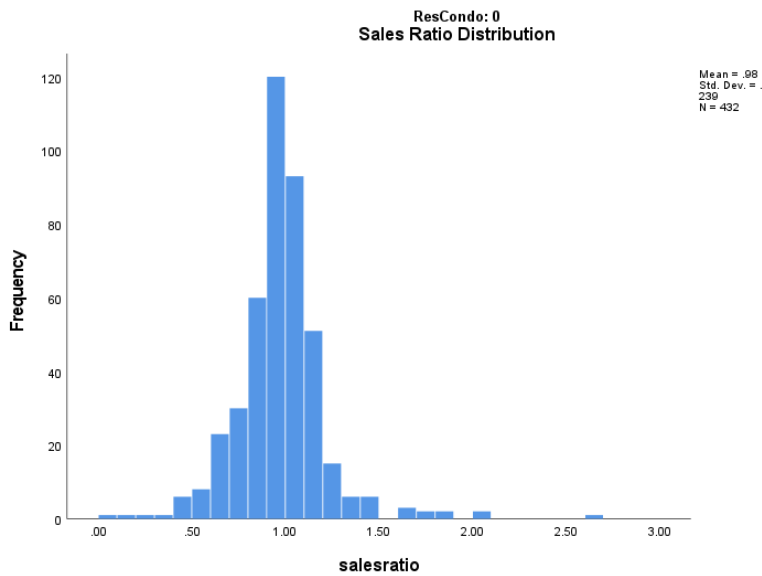
Group	N	Median	Price Related Differential	Coefficient of Dispersion
401044.01 - ASPEN SQUARE RESIDENTIAL	18	.992	1.003	.061
402168 - HUNTER CREEK PHASE III	19	1.023	1.017	.095
402168.01 - HUNTER CREEK PHASE I	8	1.004	.999	.029
403176 - INN AT ASPEN, RESIDENTIAL	12	1.027	1.020	.098
407099.02 - CLUB VILLAS II	9	1.003	1.003	.061
407113 - CRESTWOOD	37	.999	1.061	.142
407177 - INNS OF CRT DBA WOODBRIDGE	9	.996	1.003	.083
407284 - SEASONS FOUR	17	1.002	.996	.092
407313 - STONEBRIDGE	13	.995	1.025	.094
407326 - TIMBERLINE	14	1.005	1.016	.111
407339 - WILLOWS AKA ASPENWOODS	8	1.001	.971	.202
407361 - WOODRUN PLACE	10	1.006	1.067	.175
407389 - TOP OF THE VILLAGE/ ALL BLDGS	23	1.007	1.018	.095

407658 - CAPITOL PEAK LODGE	19	.994	1.077	.126
407684 - VICEROY	38	.977	1.019	.120
Overall	638	.995	1.015	.095

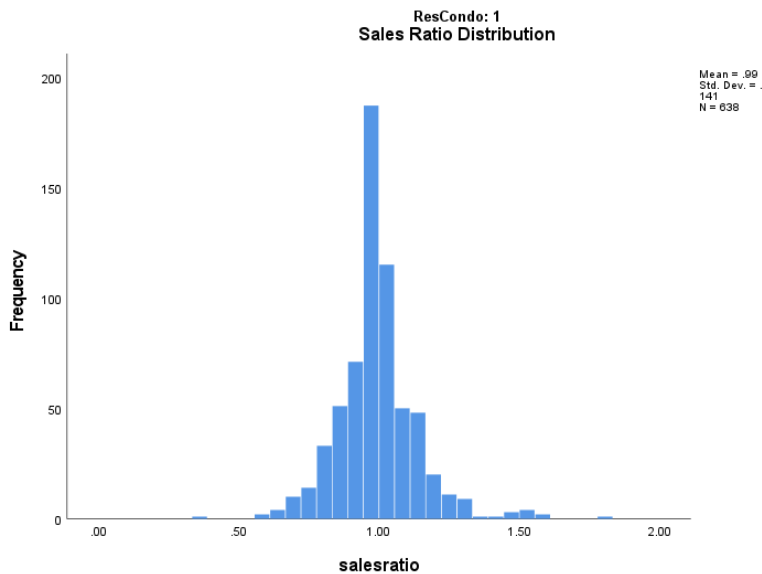
The above ratio statistics were in overall compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. There were several economic areas and condominium neighborhoods with CODs over the SBOE limits, but these had smaller total sales and did not affect the overall CODs for residential non-condominium and condominium properties, which were in compliance.

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

Residential Non-Condominiums



Residential Condominiums

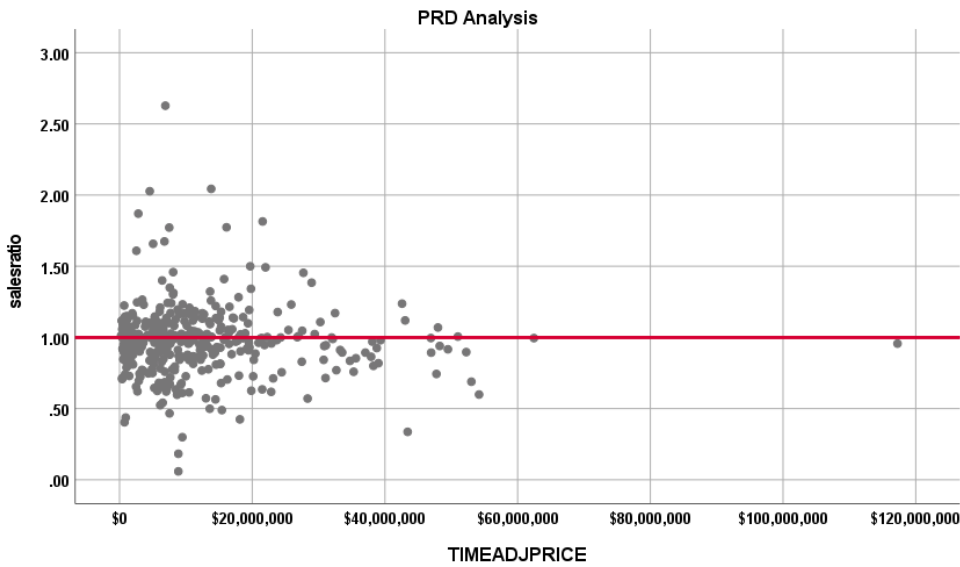


The above graphs indicate that the distribution of the sale ratios was within state mandated limits. No sales were trimmed.

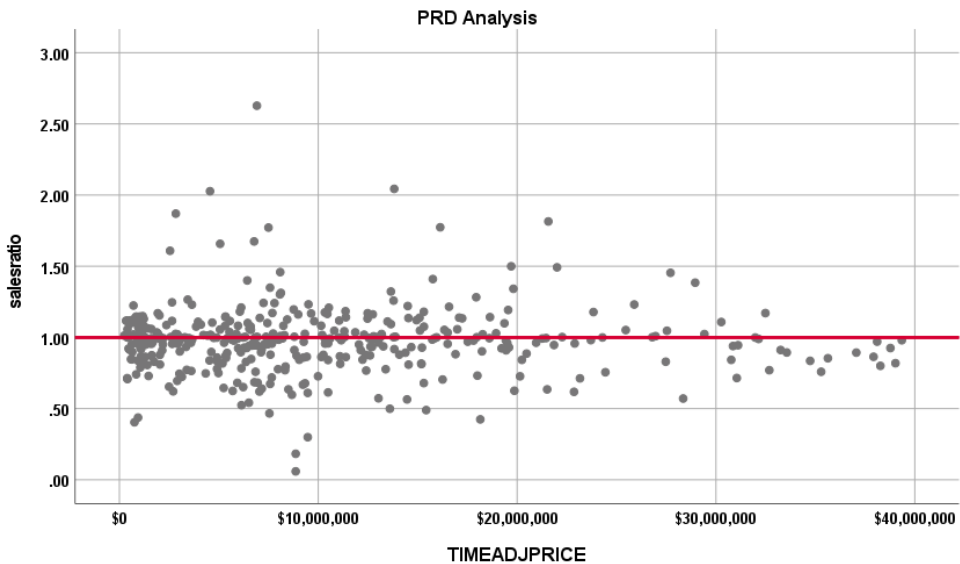
Subclass 1212 PRD Analysis

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 – ALL SALES



1212 SALES – ALL SALES LT \$15,000,000



The Price-Related Differential (PRD) for all 1212 sales is 1.015; for the sales less than \$15,000,000 in the above graph, the PRD is 1.005. Both were within IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor's current value to further test for regressivity or progressivity in the residential sales valuation, as follows:

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.940	.015		60.834	<.001
	CURRTOT	.00000000392	.000	.169	3.544	<.001

a. Dependent Variable: salesratio

The slope of the line at 0.00000000392 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:

Case Processing Summary

	Count	Percent
SPRec		
LT \$400K	4	0.9%
\$400K to \$600K	10	2.3%
\$600K to \$800K	9	2.1%
\$800K to \$1000K	14	3.3%
\$1000K to \$3000K	70	16.3%
\$3000K to \$5000K	32	7.4%
\$5000K to \$7500K	69	16.0%
\$7500K to \$10000K	45	10.5%
\$10000K to \$15000K	69	16.0%
Over \$15000K	108	25.1%
Overall	430	100.0%
Excluded	0	
Total	430	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$400K	1.007	1.012	.103	18.0%
\$400K to \$600K	1.006	.999	.100	13.5%
\$600K to \$800K	1.021	.997	.162	24.6%
\$800K to \$1000K	.995	1.000	.120	19.3%
\$1000K to \$3000K	.993	.992	.110	17.9%
\$3000K to \$5000K	.991	.997	.141	23.9%
\$5000K to \$7500K	.991	.997	.175	30.6%
\$7500K to \$10000K	.970	1.005	.232	31.4%
\$10000K to \$15000K	.997	.999	.126	20.3%
Over \$15000K	.975	1.020	.165	24.1%
Overall	.991	1.015	.153	24.0%

The above analysis indicates that the sales ratio distribution was more or less consistent across the sale price range for Pitkin County.

Residential Market Trend Analysis

We next analyzed the residential dataset using the 18-month sale period for any residual market trending. We stratified the sales by residential non-condominiums and residential condominiums (0 = residential non-condominiums, 1 = residential condominiums), with the following results:

Coefficients^a

ResCondo	Model		Unstandardized Coefficients		Standardized Coefficients Beta	t	Sig.
			B	Std. Error			
0	1	(Constant)	1.007	.025		41.092	<.001
		SalePeriod	-.004	.002	-.071	-1.476	.141
1	1	(Constant)	1.013	.012		83.160	.000
		SalePeriod	-.002	.001	-.071	-1.782	.075

a. Dependent Variable: salesratio

The above results indicate that there is no residual market trending in the residential sales for non-condominium and condominium groups.

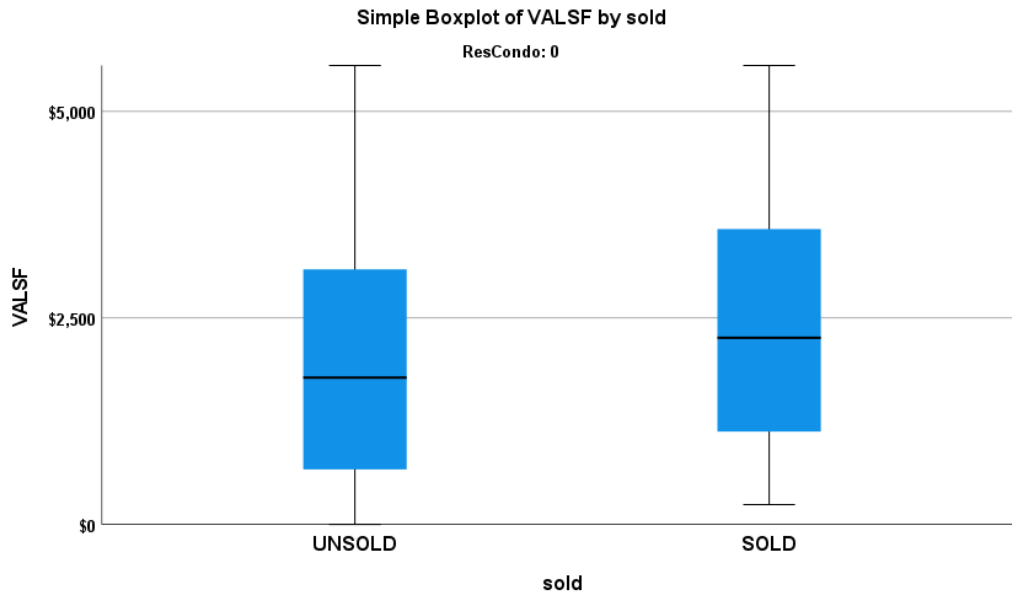
Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2023 between sold and unsold properties, stratified by residential non-condominiums and condominiums, as follows:

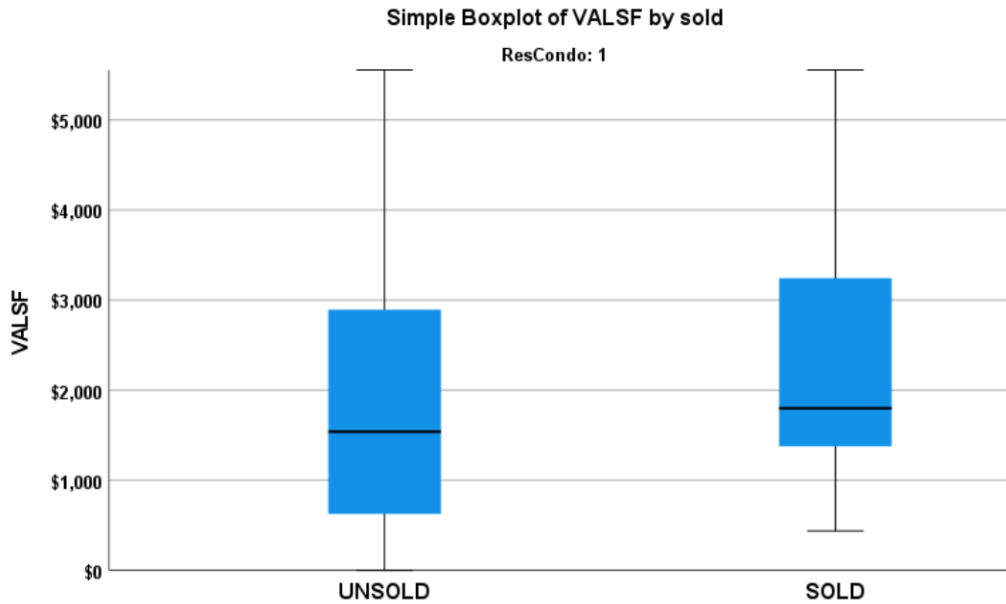
Report VALSF				
ResCondo	sold	N	Median	Mean
0	UNSOLD	5591	\$1,777	\$2,317
	SOLD	459	\$2,260	\$2,747
1	UNSOLD	5318	\$1,539	\$1,893
	SOLD	586	\$1,799	\$2,274

Although there was a difference between sold and unsold based on the actual value per square foot, the difference was due at least in part by the higher quality of the sold residential properties as compared to unsold residential properties. As a further comparison test, the following box plots were used to compare the distribution of sold and unsold residential properties, stratified by residential non-condominiums and residential condominium properties:

Residential Non-Condominiums



Residential Condominiums



We also compared sold and unsold residential properties by economic area for non-condominiums and by neighborhood for condominiums (each minimum 10 sales):

**Residential Non-Condominiums
(Minimum 10 Sales)**

Report

VALSF

ECONAREA	sold	N	Median	Mean
1011.00	UNSOLD	511	\$5,016	\$5,487
	SOLD	46	\$5,645	\$5,935
1021.00	UNSOLD	504	\$2,743	\$3,055
	SOLD	32	\$3,438	\$4,179
1031.00	UNSOLD	634	\$2,427	\$2,621
	SOLD	53	\$3,441	\$3,975
1041.00	UNSOLD	215	\$4,242	\$4,749
	SOLD	21	\$4,343	\$4,425
1051.00	UNSOLD	212	\$2,000	\$1,884
	SOLD	11	\$2,588	\$2,638
1061.00	UNSOLD	124	\$1,498	\$1,572
	SOLD	13	\$1,530	\$1,609
1071.00	UNSOLD	860	\$1,777	\$1,848
	SOLD	94	\$1,966	\$1,994
1081.00	UNSOLD	226	\$675	\$739
	SOLD	25	\$703	\$715
1082.00	UNSOLD	307	\$777	\$1,126
	SOLD	17	\$1,097	\$1,321
1091.00	UNSOLD	292	\$886	\$1,016
	SOLD	28	\$1,009	\$1,087
1111.00	UNSOLD	403	\$492	\$527
	SOLD	35	\$611	\$690
1121.00	UNSOLD	239	\$1,715	\$1,693
	SOLD	12	\$2,424	\$2,269
1141.00	UNSOLD	115	\$2,885	\$3,291
	SOLD	15	\$3,570	\$3,987
5122.00	UNSOLD	126	\$489	\$544
	SOLD	10	\$531	\$551

**Residential Condominiums
(Minimum 10 Sales)**

Report

VALSF

CondoNBHD	sold	N	Median	Mean
401044.01 - ASPEN SQUARE RESIDENTIAL	UNSOLD	84	\$3,546	\$3,501
	SOLD	18	\$3,380	\$3,431
402168 - HUNTER CREEK PHASE III	UNSOLD	111	\$1,919	\$1,908
	SOLD	19	\$1,828	\$1,872
403176 - INN AT ASPEN, RESIDENTIAL	UNSOLD	112	\$947	\$949
	SOLD	12	\$947	\$958
407113 - CRESTWOOD	UNSOLD	99	\$1,320	\$1,325
	SOLD	37	\$1,320	\$1,329
407284 - SEASONS FOUR	UNSOLD	78	\$1,191	\$1,211
	SOLD	17	\$1,237	\$1,227
407313 - STONEBRIDGE	UNSOLD	73	\$1,384	\$1,417
	SOLD	13	\$1,384	\$1,355
407326 - TIMBERLINE	UNSOLD	80	\$1,104	\$1,128
	SOLD	14	\$1,039	\$1,113
407361 - WOODRUN PLACE	UNSOLD	43	\$1,318	\$1,310
	SOLD	9	\$1,270	\$1,338

407389 - TOP OF THE VILLAGE/ ALL BLDGS	UNSOLD	87	\$1,528	\$1,535
	SOLD	23	\$1,532	\$1,527
407658 - CAPITOL PEAK LODGE	UNSOLD	55	\$1,784	\$1,717
	SOLD	18	\$1,784	\$1,801
407684 - VICEROY	UNSOLD	115	\$1,879	\$1,823
	SOLD	38	\$1,879	\$1,889

While there was a difference between non-condominium sold and unsold properties when stratified by economic area (likely due to the same confounding factors as with the class level comparison for residential non-condominiums), there was no consistent pattern when comparing the condominium sold and unsold properties stratified by neighborhood.

Based on these analyses, we concluded that the assessor valued sold and unsold residential properties consistently.

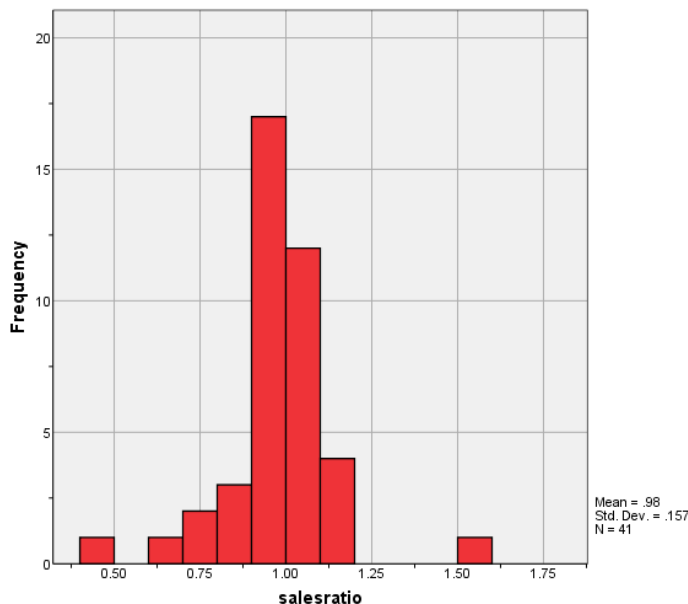
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

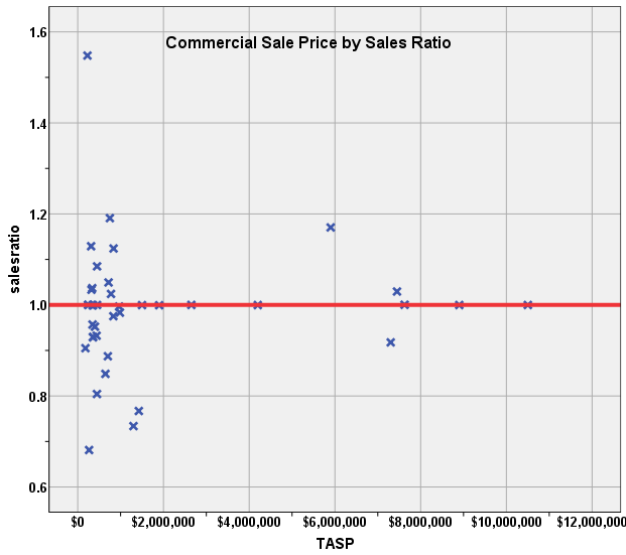
There were 42 qualified commercial and industrial sales in the 18-month sale period ending June 30, 2022. One sale was trimmed using IAAO standards, resulting in a final total of 41 sales for this analysis.

The sales ratio analysis was analyzed as follows:

Median	1.000
Price Related Differential	1.249
Coefficient of Dispersion	9.1

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





NOTE: Sales over \$15,000,000 not included in above graph.

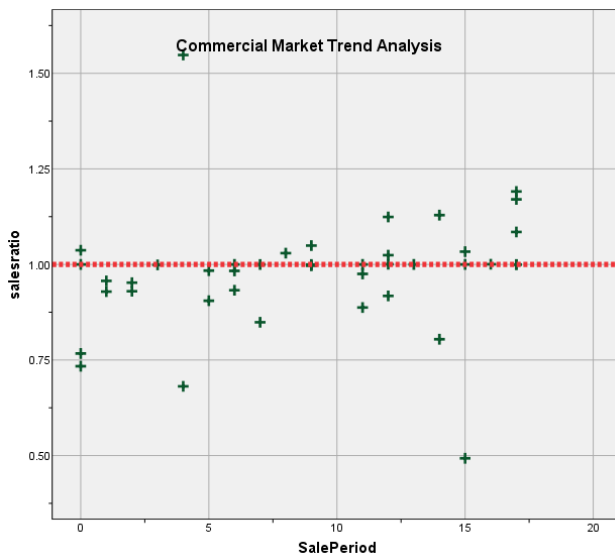
Commercial Market Trend Analysis

The commercial sales were analyzed, examining the sale ratios across the 18 month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients B	Coefficients Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.938	.046		20.565	.000
	SalePeriod	.005	.004	.165	1.045	.302

a. Dependent Variable: salesratio



The market trend results indicated no statistically significant trend. We concluded that the assessor has adequately addressed market trending for commercial and industrial sales.

Sold/Unsold Analysis

We compared the 2023 value per square foot between sold and unsold commercial properties to determine if the assessor was valuing each group consistently, as follows:

Report

VALSF				
sold	N	Median	Mean	
UNSOLD	778	\$980	\$1,279	
SOLD	27	\$938	\$1,261	

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	.719	Retain the null hypothesis.

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

We also examined sold and unsold commercial properties by subclass, using the same comparison method, to determine if both were valued in a similar manner by the assessor, as follows:

Report

VALSF				
ABSTRIMPMAJOR	sold	N	Median	Mean
1212	UNSOLD	2	\$2,039	\$2,039
	SOLD	3	\$1,829	\$2,699
2212	UNSOLD	40	\$1,265	\$1,585
	SOLD	4	\$1,234	\$1,309
2245	UNSOLD	590	\$1,009	\$1,284
	SOLD	17	\$923	\$898

Based on the above results, there was no evidence that sold properties were valued consistently higher than unsold properties.

V. VACANT LAND SALE RESULTS

Based on the guidelines of the 2023 audit, vacant land properties were exempt from analysis.

V. CONCLUSIONS

Based on this statistical analysis, there were no significant compliance issues concluded for Pitkin County as of the date of this report for residential and commercial/industrial properties.

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP													
ResCondo	Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
		Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
0	.975	.953	.998	.991	.970	.996	95.2%	.961	.932	.990	1.015	.154	24.5
1	.994	.983	1.005	.995	.990	.997	95.7%	.979	.966	.992	1.015	.095	14.2

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.

(0 = Non-Condominiums, 1 = Condominiums)

Commercial

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	
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound				
.978	.928	1.027	1.000	.957	1.000	97.2%	.783	.520	1.046	1.249	.091	16.0%	

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.

Residential Median Ratio Stratification

Subclass (0 = Non-Condominiums, 1 = Condominiums)

AgeRec

ResCondo			Frequency	Percent	Valid Percent	Cumulative Percent
0	Valid	0	6	1.4	1.4	1.4
		Over 100	15	3.5	3.5	4.9
		75 to 100	1	.2	.2	5.1
		50 to 75	42	9.7	9.7	14.8
		25 to 50	207	47.9	47.9	62.7
		5 to 25	132	30.6	30.6	93.3
		5 or Newer	29	6.7	6.7	100.0
		Total	432	100.0	100.0	
1	Valid	Over 100	8	1.3	1.3	1.3
		50 to 75	226	35.4	35.4	36.7
		25 to 50	274	42.9	42.9	79.6
		5 to 25	97	15.2	15.2	94.8
		5 or Newer	33	5.2	5.2	100.0
		Total	638	100.0	100.0	

Improvement Age (0 = Non-Condominiums, 1 = Condominiums)

Case Processing Summary

ResCondo			Count	Percent
0	AgeRec	0	6	1.4%
		Over 100	15	3.5%
		75 to 100	1	0.2%
		50 to 75	42	9.7%
		25 to 50	207	47.9%
		5 to 25	132	30.6%
		5 or Newer	29	6.7%
	Overall	432	100.0%	
	Excluded	0		
	Total	432		
1	AgeRec	Over 100	8	1.3%
		50 to 75	226	35.4%
		25 to 50	274	42.9%
		5 to 25	97	15.2%
		5 or Newer	33	5.2%
	Overall	638	100.0%	
	Total	638		

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	0	.624	1.092	.326	48.1%
	Over 100	.894	.952	.205	29.8%
	75 to 100	.565	1.000	.000	.
	50 to 75	.856	1.026	.218	26.6%
	25 to 50	.987	1.014	.149	23.9%

	5 to 25	.996	1.023	.124	21.4%
	5 or Newer	.995	1.065	.150	21.6%
	Overall	.991	1.015	.154	24.1%
1	Over 100	.985	1.013	.027	3.5%
	50 to 75	.994	1.022	.093	13.5%
	25 to 50	.996	1.018	.090	13.1%
	5 to 25	.989	1.023	.112	16.5%
	5 or Newer	1.005	.998	.116	20.6%
	Overall	.995	1.015	.095	14.2%

Improved Area (0 = Non-Condominiums, 1 = Condominiums)

ImpSFRec

ResCondo			Frequency	Percent	Valid Percent	Cumulative Percent
0	Valid	0	1	.2	.2	.2
		LE 500 sf	5	1.2	1.2	1.4
		500 to 1,000 sf	20	4.6	4.6	6.0
		1,000 to 1,500 sf	24	5.6	5.6	11.6
		1,500 to 2,000 sf	59	13.7	13.7	25.2
		2,000 to 3,000 sf	85	19.7	19.7	44.9
		3,000 sf or Higher	238	55.1	55.1	100.0
		Total	432	100.0	100.0	
1	Valid	LE 500 sf	104	16.3	16.3	16.3
		500 to 1,000 sf	248	38.9	38.9	55.2
		1,000 to 1,500 sf	154	24.1	24.1	79.3
		1,500 to 2,000 sf	46	7.2	7.2	86.5
		2,000 to 3,000 sf	61	9.6	9.6	96.1
		3,000 sf or Higher	25	3.9	3.9	100.0
		Total	638	100.0	100.0	

Ratio Statistics for CURRTOT / TASP

ResCondo	Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	0	.524	1.000	.000	.
	LE 500 sf	.678	1.112	.315	50.4%
	500 to 1,000 sf	.955	.963	.166	22.7%
	1,000 to 1,500 sf	.953	1.139	.136	17.3%
	1,500 to 2,000 sf	.993	1.036	.099	14.5%
	2,000 to 3,000 sf	.986	1.016	.148	21.7%
	3,000 sf or Higher	.995	1.032	.164	26.5%
	Overall	.991	1.015	.154	24.1%
1	LE 500 sf	.997	1.021	.081	12.9%
	500 to 1,000 sf	.996	1.029	.099	14.1%
	1,000 to 1,500 sf	.993	1.016	.095	13.3%
	1,500 to 2,000 sf	.989	.995	.104	16.2%
	2,000 to 3,000 sf	.996	1.004	.096	17.1%
	3,000 sf or Higher	.989	1.012	.095	16.0%
	Overall	.995	1.015	.095	14.2%

Improvement Quality (0 = Non-Condominiums, 1 = Condominiums)

Case Processing Summary

ResCondo		Count	Percent
0	QUALITY	6	1.4%
	1 - POOR	1	0.2%
	2 - FAIR	10	2.3%
	3 - AVERAGE	108	25.0%
	4 - AVERAGE	6	1.4%
	4 - GOOD	93	21.5%
	5 - GOOD	2	0.5%
	5 - V GOOD	105	24.3%
	6 - EXCELLENT	88	20.4%
	7 - SUPERIOR	13	3.0%
	Overall	432	100.0%
	Excluded	0	
	Total	432	
1	QUALITY		
	6 - EXCELLENT	2	0.3%
	20 - FAIR	11	1.7%
	23 - DUP CONDO - AVG	4	0.6%
	24 - DUP CONDO - GOOD	11	1.7%
	25 - DUP CONDO - V GOOD	10	1.6%
	26 - DUP CONDO - EXCELLENT	5	0.8%
	27 - DUP CONDO - SUPERIOR	1	0.2%
	30 - TYPICAL/AVG	145	22.7%
	40 - GOOD	183	28.7%
	50 - VERY GOOD	171	26.8%
	60 - EXCELLENT	85	13.3%
	70 - SUPERIOR	10	1.6%
	Overall	638	100.0%
	Excluded	0	
	Total	638	

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$150K to \$200K	1	2.4%
	\$200K to \$300K	4	9.8%
	\$300K to \$500K	13	31.7%
	\$500K to \$750K	4	9.8%
	\$750K to \$1,000K	5	12.2%
	Over \$1,000K	14	34.1%
Overall		41	100.0%
Excluded		0	
Total		41	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$150K to \$200K	.905	1.000	.000	.
\$200K to \$300K	1.000	1.017	.217	36.6%
\$300K to \$500K	.999	1.004	.060	8.3%
\$500K to \$750K	.968	.993	.130	16.5%
\$750K to \$1,000K	.997	1.002	.038	6.7%
Over \$1,000K	1.000	1.225	.093	18.0%
Overall	1.000	1.249	.091	15.8%

Subclass

Case Processing Summary

	Count	Percent
ABSTRIMP	1415.60	1
	1464.00	1
	1546.33	1
	1721.00	1
	1783.43	1
	2212.00	3
	2215.00	3
	2220.00	1
	2230.00	1
	2245.00	28
Overall	41	100.0%
Excluded	0	
Total	41	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1415.60	1.030	1.000	.000	.
1464.00	1.191	1.000	.000	.
1546.33	1.000	1.000	.000	.
1721.00	.997	1.000	.000	.
1783.43	1.124	1.000	.000	.
2212.00	.918	.969	.103	19.6%
2215.00	1.000	1.372	.169	35.9%
2220.00	1.000	1.000	.000	.
2230.00	.984	1.000	.000	.
2245.00	.999	1.021	.090	15.5%
Overall	1.000	1.249	.091	15.8%

Improvement Age

Case Processing Summary

		Count	Percent
AgeRec	0	10	24.4%
	Over 100	4	9.8%
	75 to 100	1	2.4%
	50 to 75	9	22.0%
	25 to 50	12	29.3%
	5 to 25	4	9.8%
	5 or Newer	1	2.4%
Overall		41	100.0%
Excluded		0	
Total		41	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	.978	1.002	.092	13.4%
Over 100	1.000	.996	.043	9.8%
75 to 100	1.000	1.000	.000	.
50 to 75	.975	1.356	.134	21.3%
25 to 50	.991	1.049	.119	19.9%
5 to 25	1.000	.987	.008	1.7%
5 or Newer	1.000	1.000	.000	.
Overall	1.000	1.249	.091	15.8%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	16	39.0%
	500 to 1,000 sf	9	22.0%
	1,000 to 1,500 sf	4	9.8%
	1,500 to 2,000 sf	2	4.9%
	2,000 to 3,000 sf	4	9.8%
	3,000 sf or Higher	6	14.6%
Overall		41	100.0%
Excluded		0	
Total		41	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	.978	1.492	.099	16.6%
500 to 1,000 sf	.983	1.026	.076	11.4%
1,000 to 1,500 sf	1.000	1.102	.196	34.4%
1,500 to 2,000 sf	1.000	1.000	.000	0.0%
2,000 to 3,000 sf	.959	1.052	.100	15.0%
3,000 sf or Higher	1.015	1.023	.057	8.6%
Overall	1.000	1.249	.091	15.8%

Improvement Quality

Case Processing Summary

	Count	Percent
QUALITY	10	24.4%
2 - FAIR	1	2.4%
3 - AVERAGE	12	29.3%
4 - GOOD-BASE	17	41.5%
5 - V GOOD	1	2.4%
Overall	41	100.0%
Excluded	0	
Total	41	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
	.978	1.002	.092	13.4%
2 - FAIR	1.000	1.000	.000	.
3 - AVERAGE	.998	1.745	.138	24.0%
4 - GOOD-BASE	1.000	.984	.068	11.3%
5 - V GOOD	1.030	1.000	.000	.
Overall	1.000	1.249	.091	15.8%