

CROWLEY COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2024

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

RE: Final Report for the 2024 Colorado Property Assessment Study

Dear Ms. Castle:

East West Econometrics.-Audit Division is pleased to submit the Final Reports for the 2024 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.

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.

Harry J. Fuller

Project Manager

Harry J. Zuller

East West Econometrics. - Audit Division



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INTRODUCTION



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 Valuation discounting procedures. 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 has completed the Property Assessment Study for 2024 and is pleased to report its findings for Crowley County in the following report.

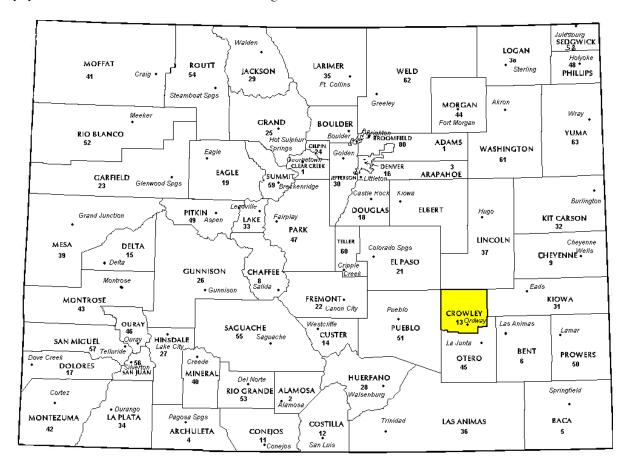


REGIONAL/HISTORICAL SKETCH OF CROWLEY COUNTY

Regional Information

Crowley County is located in the Eastern Plains region of Colorado. The Eastern Plains of Colorado refer to the region on the east side of the Rocky Mountain. It is east of the population centers of the Front Range,

including Baca, Bent, Cheyenne, Crowley, Elbert, Kiowa, Kit Carson, Lincoln, Logan, Morgan, Otero, Phillips, Prowers, Sedgwick, Washington, and Yuma counties.





Historical Information

Crowley County has approximately 787.39 square miles and an estimated population of approximately 6,061 people, according to the U.S. Census Bureau's 2020 estimated census data. This represents a 4.1 percent change from April 1, 2010 to July 1, 2019.

Crowley County is located in the high plains of Southeast Colorado. Ordway, the County seat, lies about 50 miles east of Pueblo at the intersection of U.S. Highway 96 and Colorado 71. Crowley County is a rural community. Residents are a blend of ranchers and farmers, those involved in government and education and many are employed by correctional industries. Due to the mild climate, easy lifestyle and low cost of living, a number of retirees have recently selected Crowley County as their place of choice.

Crowley County was created by the Colorado legislature on May 29, 1911, out of the northern portions of Otero Count. Previously both counties were part of Bent County. The county was named for John H. Crowley, the senator from Otero County to the state legislature at the time of the split.

The first significant development and settlement occurred in 1887 when the Missouri Pacific Railroad came through from the east, on its way to Pueblo and Colorado's rich gold

fields of the "Pikes Peak Or Bust" Colorado Gold Rush.

The county seat, Ordway, was established in 1890. Other towns still existing along the Missouri Pacific Railroad's route are Sugar City, Crowley, and Olney Springs.

A few years later, developers brought a canal east from the Arkansas River, with ambitious plans to irrigate a million acres in Kansas. Instead, the canal petered out in Crowley County but did irrigate 57,000 acres along its length. This turned early Crowley County into a lush agricultural mecca for a time.

By the 1970s, however, almost all the water rights were sold from what is now called the Twin Lakes Canal to the fast-growing cities of Colorado's Front Range corridor. The area's economic activity subsequently shifted toward ranching. Much of the land has returned to its original sparse prairie grassland conditions.

Each summer during the last week of July, the communities of Crowley, Sugar City, Ordway and Olney Springs gather together in Ordway to celebrate Crowley County Days, which has been held each year since 1911.

(Wikipedia.org, crowleycounty.net & exploresoutheastcolorado.com)



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, 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			
Condominium	Between .95-1.05	Less than 15.99			
Single Family	Between .95-1.05	Less than 15.99			
Vacant Land	Between .95-1.05	Less than 20.99			



The results for Crowley County are:

Crowley County Ratio Grid						
Number of Unweighted Price Coefficient Qualified Median Related of Property Class Sales Ratio Differential Dispersion						
Commercial/Industrial	N/A	N/A	N/A	N/A	N/A	
Single Family	46	0.982	1.020	8.7	Compliant	
Vacant Land	N/A	N/A	N/A	N/A	N/A	

^{*}Due to the small number of sales, a procedural audit was performed

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

Crowley 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. 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	Results
Property Class	Results
Commercial/Industrial	N/A
Single Family	Compliant
Vacant Land	N/A

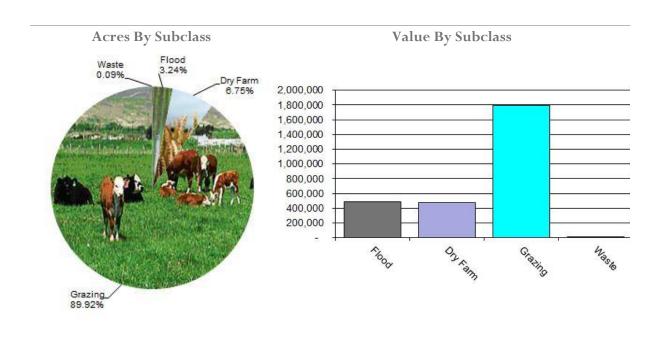
Conclusions

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

Recommendations



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 In addition, county records were lands. reviewed in order to determine if: photographs are available and are being used; soil conservation guidelines have been used to classify lands based on productivity; crop rotations have been documented; typical commodities and yields have been determined; orchard lands have been properly classified and valued; expenses reflect a ten year average and are typical landlord expenses; grazing lands have been properly classified and valued; the number of acres in each class and subclass have been determined; the capitalization rate was properly applied. Also, documentation was required for the valuation methods used and locally developed 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:



	Crowley County Agricultural Land Ratio Grid						
Number County County WRA Abstract Of Value Assessed Total Code Land Class Acres Per Acre Total Value Value Ratio							
4117	Flood	13,822	34.99	483,685	488,607	0.99	
4127	Dry Farm	28,775	16.67	479,791	482,099	1.00	
4147	Grazing	383,328	4.67	1,789,708	1,789,708	1.00	
4167	Waste	380	2.19	831	831	1.00	
Total/Avg		426,305	6.46	2,754,015	2,761,245	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.

Conclusions

Crowley County has 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

Crowley 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.:

• N/A

Crowley 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.:

• N/A

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

Recommendations



SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

(a)(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 2024 for Crowley County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically EWE selected 50 sales.

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

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

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

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



determine if the sales included in that code have been assigned appropriately.

Conclusions

The County appears to be doing an adequate job of verifying their sales.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

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

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

Conclusions

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

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2024 in Crowley County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14) and by applying the recommended methodology in ARL Vol 3, Chap 4. Subdivision Discounting in the intervening year can be accomplished by reducing the absorption period by one year.

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

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

Conclusions

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

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

assessing and valuing agricultural 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

Crowley 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

Crowley 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.

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

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

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

Crowley County submitted their personal property written audit plan and was current for the 2024 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
- New businesses filing for the first time
- Accounts with greater than 10% change
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Businesses with no deletions or additions for 2 or more years



- Non-filing Accounts Best Information Available
- Accounts close to the \$52,000 actual value exemption status
- Accounts protested with substantial disagreement

Conclusions

Crowley 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



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



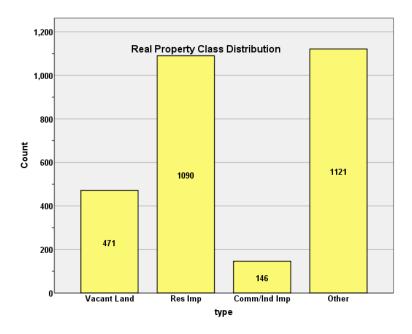
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR CROWLEY COUNTY 2024

I. OVERVIEW

Crowley County is a rural county located in southeastern Colorado. The county has a total of 2,828 real property parcels, according to data submitted by the county assessor's office in 2024. The following provides a breakdown of property classes for this county:



Based on the number of vacant land parcels in Crowley County (471), we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 97.8% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison.

After speaking with the assessor, it was determined that due to the geographic attributes of the county, geographic stratification below the class level was not possible.

II. DATA FILES

The following sales analyses were based on the requirements of the 2024 Colorado Property Assessment Study. The data included all 5 property record files as specified by the Auditor.

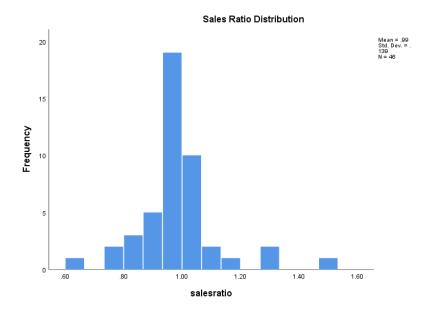


III. RESIDENTIAL SALES RESULTS

For the residential sales ratio analysis, there were 46 qualified residential sales. These sales spanned the period from January 2021 to June 30, 2022. The sales ratio analysis resulted in the following:

Median	0.982
Price Related Differential	1.020
Coefficient of Dispersion	8.7

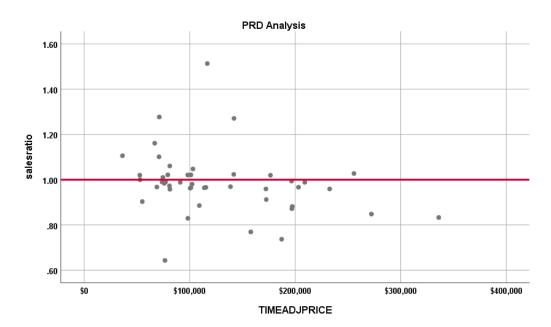
The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. The following graphs describe further the sales ratio distribution for all of these properties:





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:



The Price-Related Differential (PRD) for 1212 sales is 1.020, which is within the IAAO range 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)	.990	.048		20.840	.000
	CURRTOT	0000000370	.000	016	106	.916

a. Dependent Variable: salesratio

The slope of the line at 0.0000000370 indicates that there is virtually no slope in the regression line, which indicates that sales ratios are similar across the entire sale price array. It also reflects the low number of sales distributed across the actual value range for residential 1212 sale properties.

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



Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	1	2.2%
	\$50K to \$100K	19	41.3%
	\$100K to \$150K	12	26.1%
	\$150K to \$200K	8	17.4%
	Over \$200K	6	13.0%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$25K to \$50K	1.106	1.000	.000	
\$50K to \$100K	.990	1.004	.076	12.8%
\$100K to \$150K	.975	.994	.098	19.5%
\$150K to \$200K	.897	.999	.087	11.3%
Over \$200K	.963	1.010	.059	8.7%
Overall	.982	1.020	.087	14.1%

The above table indicates no evidence of regressivity in the sales ratios across sale price categories.

Residential Market Trend Analysis

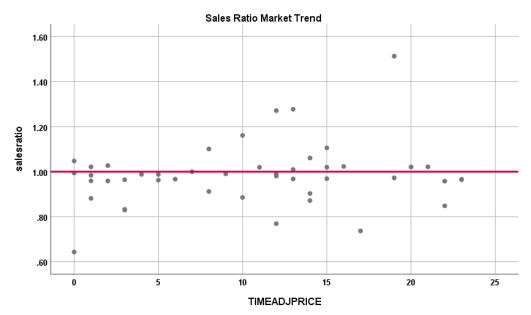
We next analyzed the residential dataset using the 30-month sale period, with the following results:

Coefficients^a

		Unstandardized		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.947	.036		26.196	.000
	SalePeriod	.004	.003	.190	1.284	.206

a. Dependent Variable: salesratio





The above analysis indicated that no significant residential market trend was present in the sale data. We concur with the assessor that no market trend adjustments were warranted.

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 2024 between each group, as follows:

Report VALSF				
sold	N	Median	Mean	
UNSOLD	1378	\$56	\$59	
SOLD	46	\$67	\$69	

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	.035	Retain the null hypothesis.

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

Based on the results of the above analyses, we concluded that the assessor has valued both groups consistently for 2024.



IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

The County had less than ten qualified commercial sales for the June 30, 2022 valuation date. Consequently, a procedural analysis was performed by East/West staff for taxable year 2023. That procedural analysis is in effect for taxable year 2024. No other commercial analysis is required.

V. CONCLUSIONS

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



STATISTICAL ABSTRACT

Residential

	Ratio Statistics for CURRTOT / TASP											
	95% Confiden Me			95% Con	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
.986	.944	1.027	.982	.964	1.010	97.4%	.966	.923	1.009	1.020	.087	14.1%

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

Not applicable

Vacant Land

Not applicable

Residential Median Ratio Stratification

Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	1212	46	100.0%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

				Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
1212	.982	1.020	.087	14.1%
Overall	.982	1.020	.087	14.1%

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	23	50.0%
	75 to 100	5	10.9%
	50 to 75	7	15.2%
	25 to 50	6	13.0%
	5 to 25	3	6.5%
	5 or Newer	2	4.3%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.967	1.025	.081	12.7%
75 to 100	.990	1.000	.014	2.2%
50 to 75	.962	1.001	.049	7.2%
25 to 50	1.022	1.028	.110	17.6%
5 to 25	.994	1.109	.228	38.7%
5 or Newer	.993	.998	.034	4.9%
Overall	.982	1.020	.087	14.1%



Improved SF

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	2	4.3%
	1,000 to 1,500 sf	15	32.6%
	1,500 to 2,000 sf	11	23.9%
	2,000 to 3,000 sf	16	34.8%
	3,000 sf or Higher	2	4.3%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
500 to 1,000 sf	.999	1.001	.011	1.5%
1,000 to 1,500 sf	.990	1.010	.085	13.1%
1,500 to 2,000 sf	.964	1.020	.119	22.2%
2,000 to 3,000 sf	.989	1.043	.079	11.5%
3,000 sf or Higher	.963	1.000	.004	0.6%
Overall	.982	1.020	.087	14.1%

Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	AV - AVERAGE	4	8.7%
	FA - FAIR	42	91.3%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
AV - AVERAGE	.920	.985	.066	8.1%
FA - FAIR	.986	1.022	.088	14.4%
Overall	.982	1.020	.087	14.1%



Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	AV - AVERAGE	32	69.6%
	FA - FAIR	13	28.3%
	GO - GOOD	1	2.2%
Overall		46	100.0%
Excluded		0	
Total		46	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
AV - AVERAGE	.966	1.012	.092	15.5%
FA - FAIR	1.020	1.002	.071	10.0%
GO - GOOD	.969	1.000	.000	
Overall	.982	1.020	.087	14.1%

Commercial Median Ratio Stratification

Not applicable

Vacant Land Median Ratio Stratification

Not applicable