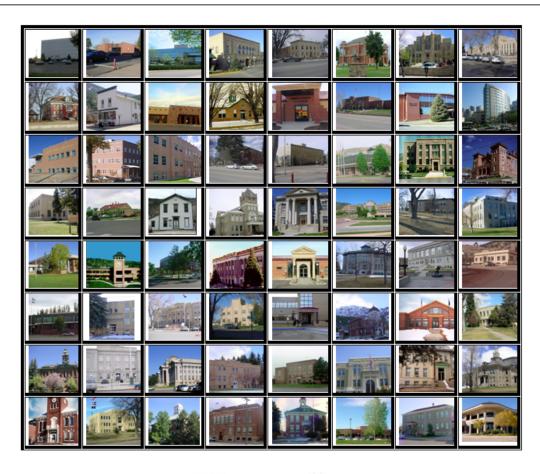
Kiowa County - Colorado

2010 KIOWA COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2010

Mr. Mike Mauer Director of Research Colorado Legislative Council Room 029, State Capitol Building Denver, Colorado 80203

RE: Final Report for the 2010 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2010 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. Fuller Project Manager

Harry J. Zulla

Wildrose Appraisal Inc. – 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 subdivision and discounting procedures. Valuation methodology for vacant land, improved properties commercial residential 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 2010 and is pleased to report its findings for Kiowa County in the following report.



REGIONAL/HISTORICAL SKETCH OF KIOWA COUNTY

Regional Information

Kiowa 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

Kiowa County has a population of approximately 1,238 people with 0.9 people per square mile, according to the U.S. Census Bureau's 2009 estimated population data.

In the late 1880s, eastern Colorado attracted a lot of attention by farming interests who didn't yet know that long-term agriculture was unsustainable in the arid landscape. At the same time the railroads were snaking west across the plains towards the gold fields of the Rocky Mountains during the Colorado Gold Rush. The Missouri Pacific Railroad crossed into what would soon become Kiowa County, Colorado from Kansas in 1887.

Several small camps for railroad workers were established just over the border from Kansas, and beginning after the town of Sheridan Lake, new towns and camps were sequentially named, alphabetically, starting with "A" and proceeding westward along the railroad line.

Arden, Brandon, Chivington, Diston, Eads, Fergus, Galatea, Haswell, Inman, Joliet, and Kilburn appeared one after another -- some

developing into towns, others being only a pipe dream in the eyes of developers. Chivington was intended as a major watering stop for the railroad but the water was too alkaline to use and the trains instead stopped in Kansas to tank up.

Kiowa County was established in 1889, taking its name from the Kiowa Indians who lived in eastern Colorado before the Europeans arrived. Sheridan Lake was the county seat of Kiowa County, and was not at first a stop on the railroad line. It was only after local citizens built a railroad depot and turned it over to the Missouri Pacific that the railroad built a telegraph station and made Sheridan Lake a stop. The county seat moved to rival Eads in 1902.

Wide open spaces makes Kiowa County a perfect place for outdoor activity, from camping and hunting to wildlife watching. The Sand Creek Massacre National Historic Site is located in Kiowa County.

(Wikipedia.org & kiowacounty-colorado.com)



RATIO ANALYSIS

Methodology

All significant classes of properties were Sales were collected for each analyzed. property class over the appropriate sale period, which was typically defined as the 18-month period between January 2007 and June 2008. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2008 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and pricerelated differential for each class of property. Counties were not passed or failed by these

latter measures, but were counseled if there were anomalies noted during our analysis. Qualified sales were based on the qualification code used by each county, which were typically coded as either "Q" or "C." The ratio analysis included all sales. The data was trimmed for counties with obvious outliers using IAAO standards for data analysis. In every case, we examined the loss in data from trimming to ensure that only true outliers were excluded. Any county with a significant portion of sales excluded by this trimming method was examined further. No county was allowed to pass the audit if more than 5% of the sales were "lost" because of trimming. For the largest 11 counties, the residential ratio statistics were broken down by economic area as well.

Conclusions

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

ALLOWABLE 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 Kiowa County are:

Kiowa County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
*Commercial/Industrial	N/A	N/A	N/A	N/A	N/A
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	35	0.999	0.999	5.4	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 Kiowa County is in compliance with SBOE, DPT, and Colorado State Statute valuation guidelines.

Recommendations

None

Random Deed Analysis

An additional analysis was performed as part of the Ratio Analysis. Ten randomly selected deeds with documentary fees were obtained from the Clerk and Recorder. These deeds were for sales that occurred from January 1, 2007 through June 30, 2008. These sales were then checked for inclusion on the Assessor's qualified or unqualified database.

Conclusions

After comparing the list of randomly selected deeds with the Assessor's database, Kiowa County has accurately transferred sales data from the recorded deeds to the qualified or unqualified database.

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 methodology 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 Kiowa County has complied with the statutory requirements to analyze the effects of time on value in their county. Kiowa 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

Kiowa 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.

All qualified residential and commercial class properties were examined using the unit value method, where the actual value per square foot was compared between sold and unsold properties. A class was considered qualified if it met the criteria for the ratio analysis. The median value per square foot for both groups was compared from an appraisal and statistical perspective. If no significant difference was indicated, then we concluded that no further testing was warranted and that the county was in compliance in terms of sold/unsold consistency.

If either residential or commercial differences were significant using the unit value method, or if data limitations made the comparison invalid, then the next step was to perform a ratio analysis comparing the 2009 and 2010 actual values for each qualified class of property. All qualified vacant land classes were tested using this method. The sale property ratios were arrayed using a range of 0.8 to 1.5, which theoretically excluded changes between years that were due to other unrelated changes in the property. These ratios were also stratified at the appropriate level of analysis. percent change was determined for each appropriate class and sub-class, the next step was to select the unsold sample. This sample

was at least 1% of the total population of unsold properties and excluded any sale properties. The unsold sample was filtered based on the attributes of the sold dataset to closely correlate both groups. The ratio analysis was then performed on the unsold properties and stratified. The median and mean ratio distribution was then compared between the sold and unsold group. A nonparametric test such as the Mann-Whitney test for differences between independent samples was undertaken to determine whether any observed differential was significant. If this test determined that the unsold properties were treated in a manner similar to the sold properties, it was concluded that no further testing was warranted and that the county was in compliance.

If a class or sub-class of property was determined to be significantly different by this method, the final step was to perform a multivariate mass appraisal model that developed ratio statistics from the sold properties that were then applied to the unsold sample. This test compared the measures of central tendency and confidence intervals for the sold properties with the unsold property sample. If this comparison was also determined to be significantly different, then the conclusion was that the county had treated the unsold properties in a different manner than sold properties.

These tests were supported by both tabular and chart presentations, along with saved sold and unsold sample files.



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

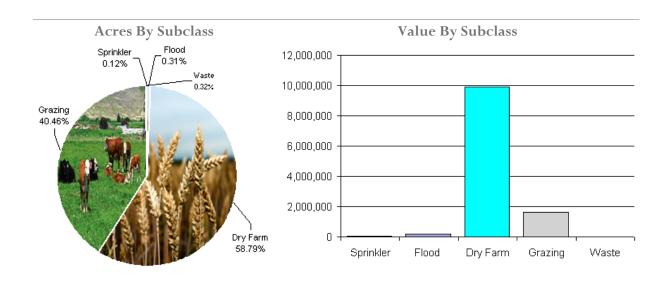
Conclusions

After applying the above described methodologies, it is concluded that Kiowa 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 lands. In addition, county records were 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 developed locally yields, 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:



Kiowa County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Fotal Value	WRA Total Value	Ratio
4107	Sprinkler	1,296	46.52	60,287	58,386	1.03
4117	Flood	3,314	50.83	168,453	161,289	1.04
4127	Dry Farm	624,858	15.84	9,898,809	9,984,212	0.99
4147	Grazing	429,965	3.76	1,616,547	1,616,475	1.00
4167	Waste	3,358	1.62	5,423	5,423	1.00
Total/Avg		1,062,791	11.06	11,749,519	11,825,786	0.99

Recommendations



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

Kiowa County has substantially complied with the procedures provided by the Division of Property Taxation for the valuation of agricultural outbuildings.

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.

WRA reviewed the sales verification procedures in 2010 for Kiowa County. This study was conducted by checking selected sales from the master sales list for the Jan 1, 2007 - June 30, 2008 valuation period. Specifically WRA selected 29 sales listed as unqualified.

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

Conclusions

Kiowa County appears to be doing an excellent 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

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

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.

Conclusions

§ 39-7-102, C.R.S.

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

Recommendations



VACANT LAND

Kiowa 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 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.

Kiowa 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

Kiowa 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

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

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

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

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

Kiowa 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
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth

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.

Kiowa County submitted their personal property written audit plan and was current for the 2010 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:

- Incomplete or inconsistent declarations
- Non-filing Accounts Best Information Available
- Accounts close to the \$4,000 actual value exemption status

Conclusions

Kiowa 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/Field Analyst

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



APPENDICES

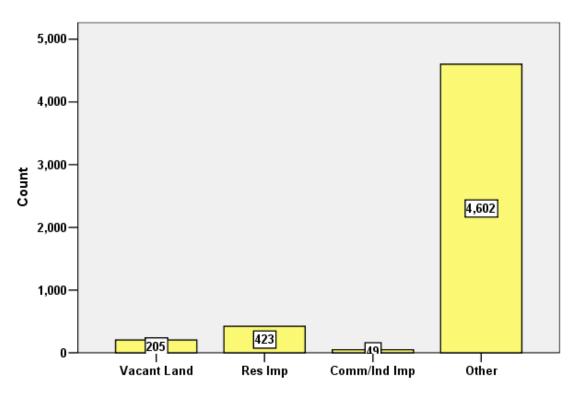


STATISTICAL COMPLIANCE REPORT FOR KIOWA COUNTY 2010

I. OVERVIEW

Kiowa County is a rural county located in eastern Colorado. The county has a total of 5,279 real property parcels, according to data submitted by the county assessor's office in 2010. The following provides a breakdown of property classes for this county:

Real Property Class Distribution



The vacant land class of properties was dominated by residential land. Residential lots (coded 100) accounted for 49% of all vacant land parcels. Based on the number of vacant land parcels in Kiowa County, we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 92% of all residential properties.

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



II. DATA FILES

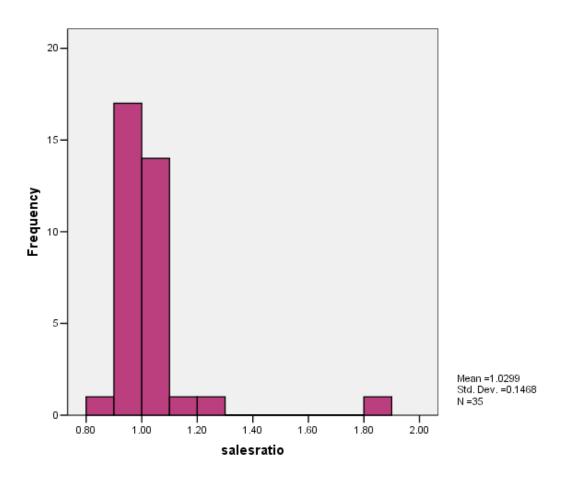
The following sales analyses were based on the requirements of the 2010 Colorado Property Assessment Study. Information was provided by the Kiowa Assessor's Office in April 2010. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

For the residential sales ratio analysis, there were **35** residential sales, spanning the period from July 2003 to June 2008. These sales were analyzed with the following results:

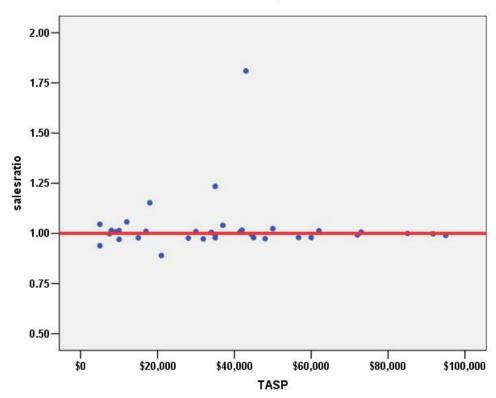
Ratio Statistics for CURTOT / TASP				
Median	.999			
Price Related Differential	0.999			
Coefficient of Dispersion	.054			

Please note that two extreme sale ratios were excluded from the above analysis. The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for overall residential sales. The following graphs describe further the sales ratio distribution for all of these properties:









The above graphs indicate that the distribution of the sale ratios was within state mandated limits, and that there were no significant price-related differential issues.

Residential Market Trend Analysis

We next analyzed the residential dataset using the 60-month sale period, with the following results:

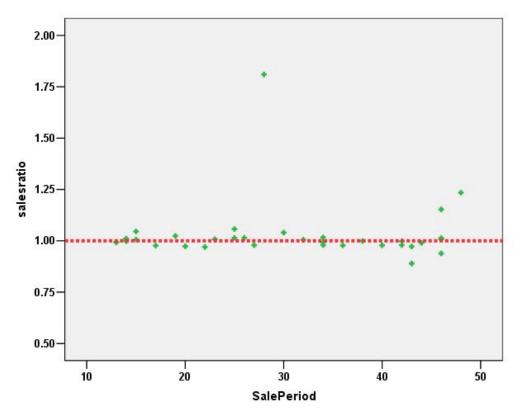
Coefficientsa

		Unstand Coeffi		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.023	.069		14.730	.000
	SalePeriod	.000	.002	.017	.099	.922

a. Dependent Variable: salesratio







The above analysis indicated that no 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 change in value between 2008 and 2010 for each group, as follows:

Change in Value (2008 to 2010) Comparison

Group	No.	Median	Mean
Unsold	385	3%	19%
Sold	35	1%	20%

The comparison based on the average change in value between each group indicated overall consistency.



IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

Kiowa County did not have enough qualified commercial/industrial sales to be statistically significant. A procedural audit was completed for taxable year 2010. This analysis reviewed all nine sales. Information was gathered concerning class of property, year built, improvement size, type and quality of construction, condition at the time of sale, sale date and amount and the Assessor value. The audit then determined sale price per square foot and the sales ratio.

The audit concluded that Kiowa County is in compliance due to the lack of substantive data to support a revaluation decision.

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

The final verification concerned the assigned actual values for agricultural residential improvements. We compared the median actual improved value per square foot for this subclass with the median actual improved value per square foot for single family residential properties in Kiowa County.

The following indicates that both groups were valued in essentially the same manner:

Descriptives

	Abstrimp			Statistic	Std. Error
ImpValSF	1212	Mean		\$27.89	\$1.343
		95% Confidence	Lower Bound	\$25.25	
		Interval for Mean	Upper Bound	\$30.53	
		5% Trimmed Mean		\$25.60	
		Median		\$23.60)
		Variance		676.030	
		Std. Deviation		\$26.001	
		Minimum		\$3	
		Maximum		\$409	
		Range		\$405	
		Interquartile Range		\$20	
		Skewness		8.994	.126
		Kurtosis		124.330	.251
	4277	Mean		\$25.71	\$2.910
		95% Confidence	Lower Bound	\$19.78	
		Interval for Mean	Upper Bound	\$31.63	
		5% Trimmed Mean		\$23.94	
		Median		\$22.83	
		Variance		279.461	
		Std. Deviation		\$16.717	
		Minimum		\$8	
		Maximum		\$87	
		Range		\$79	
		Interquartile Range		\$20	
		Skewness		1.831	.409
		Kurtosis		4.646	.798



VI. Conclusions

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



STATISTICAL ABSTRACT

Residential

Ratio Statistics for currtot / TASP

Mean		1.030
95% Confidence Interval	Lower Bound	.979
for Mean	Upper Bound	1.080
Median		.999
95% Confidence Interval	Lower Bound	.990
for Median	Upper Bound	1.010
	Actual Coverage	95.9%
Weighted Mean		1.030
95% Confidence Interval	Lower Bound	.974
for Weighted Mean	Upper Bound	1.087
Price Related Differential		.999
Coefficient of Dispersion		.054
Coefficient of Variation	Mean Centered	14.3%

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

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	3	8.6%
	75 to 100	16	45.7%
	50 to 75	8	22.9%
	25 to 50	8	22.9%
Overall		35	100.0%
Excluded		0	
Total		35	



Ratio Statistics for currtot / TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
Over 100	1.009	.999	.051	10.1%
75 to 100	.992	1.001	.043	7.5%
50 to 75	1.007	.985	.107	30.1%
25 to 50	.995	1.000	.017	2.3%
Overall	.999	.999	.054	15.0%

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	12	34.3%
	\$25K to \$50K	15	42.9%
	\$50K to \$100K	8	22.9%
Overall		35	100.0%
Excluded		0	
Total		35	

Ratio Statistics for currtot / TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
LT \$25K	1.009	1.000	.042	6.4%
\$25K to \$50K	1.005	.995	.085	22.3%
\$50K to \$100K	.995	1.000	.010	1.2%
Overall	.999	.999	.054	15.0%



Quality

Case Processing Summary

	Count	Percent
Qual 1	6	17.1%
2	25	71.4%
3	3	8.6%
4	1	2.9%
Overall	35	100.0%
Excluded	0	
Total	35	

Ratio Statistics for currtot / TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
1	1.009	1.006	.024	3.7%
2	.999	.999	.067	17.8%
3	.998	1.000	.011	1.7%
4	.977	1.000	.000	
Overall	.999	.999	.054	15.0%

Commercial Median Ratio Stratification

Not applicable

Vacant Land Median Ratio Stratification

Not applicable