

OTERO COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2014

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

RE: Final Report for the 2014 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2014 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. Zulln

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 twopart analysis: A procedural analysis and a statistical analysis. The procedural analysis includes all classes of property and specifically looks at how the assessor develops economic areas, confirms and qualifies sales, and develops time adjustments. The audit also examines the procedures for adequately discovering, classifying and valuing agricultural outbuildings, discovering subdivision build-out subdivision and discounting procedures. Valuation methodology for vacant land, improved 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 2014 and is pleased to report its findings for Otero County in the following report.



REGIONAL/HISTORICAL SKETCH OF OTERO COUNTY

Regional Information

Otero 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

Otero County has a population of approximately 18,831 people with 14.91 people per square mile, according to the U.S. Census Bureau's 2010 census data. This represents a -7.29 percent change from the 2000 Census.

Otero County, formed from Bent County, was established in 1889 and has an area of 1,254 square miles. The county was named for Miguel Antonio Otero, lawyer, congressional delegate, entrepreneur and one of the founders of the town of La Junta.

La Junta, the county seat, is located in southeast Colorado on the Arkansas River east of Pueblo. La Junta, which roughly translates to "the meeting place" in Spanish, is aptly named. Half a dozen national and state highways meet at this historic crossroads, along the Santa Fe Trail and the shores of the Arkansas River. A pleasant small town, La Junta offers services for travelers and frequent cultural events such as the traditional Koshare Indian dances.

La Junta is home to two well-known museums: Bent's Old Fort National Historic Site, an important trading post in the Old West, and the Koshare Indian Museum, housed at Otero Junior College which is regarded as one of the finest collections of Native American artifacts in the world. The Koshare Indian museum hosts a unique Boy Scout/Explorer program which trains the Scouts in both Indian dance and costumes. The Scouts give dance performances during the summer and also host many other Scout troops passing through the area.

Other pioneer and Native American structures can be seen in the Comanche National Grassland to the south, which is also home to a large section of preserved dinosaur tracks. To the north is a series of lakes and reservoirs, popular with boaters and anglers as well as animal watchers.

La Junta is also home of the Picketwire Center for Performing Arts, home of the local theater company. In 1979, the first episodes of the CBS western miniseries The Chisholms, starring Robert Preston, was filmed near La Junta.

During World War II, La Junta had an Army Air Force Training Base outside town. The airport, located 5 miles north of La Junta, has 77 acres of tarmac and two runways which are still in use.

(www.Wikipedia.org, www.go-colorado.com, William Bright, Colorado Place Names, 3rd Edition, Johnson Books, 2004, p. 130 and 100)



RATIO ANALYSIS

Methodology

All significant classes of properties were analyzed. Sales were collected for each property class over the appropriate sale period, which was typically defined as the 18-month period between January 2011 and June 2012. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2012 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 Otero County are:

Otero County Ratio Grid						
Number of Unweighted Price Coefficient Qualified Median Related of T Property Class Sales Ratio Differential Dispersion						
Commercial/Industrial	38	0.957	1.119	19.6	Compliant	
Condominium	N/A	N/A	N/A	N/A	N/A	
Single Family	145	0.996	1.026	8.3	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 Otero 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 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 Otero County has complied with the statutory requirements to analyze the effects of time on value in their county. Otero 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

Otero 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 2012 and 2014 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 R	Results
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	N/A

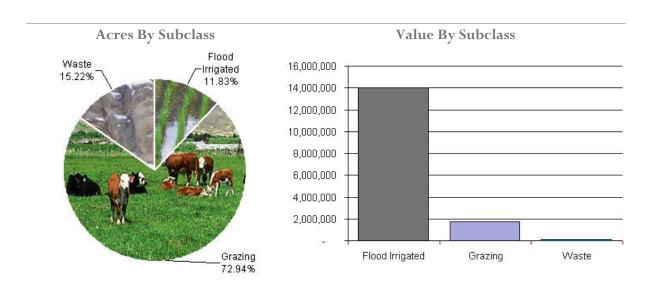
Conclusions

After applying the above described methodologies, it is concluded that Otero 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: 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 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:



	Otero County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value	County Assessed Total Value	WRA Total Value	Ratio	
4117	Flood	62,493	224.00	13,989,939	13,862,732	1.01	
4147	Grazing	385,209	4.00	1,707,691	1,707,691	1.00	
4167	Waste	80,397	2.00	140,339	140,339	1.00	
Total/Avg		528,100	30.00	15,837,969	15,710,762	1.01	

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

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

Recommendations

None

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

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

Recommendations



SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

(a)(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 2014 for Otero County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 37 sales listed as unqualified.

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

Conclusions

Otero 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

Otero County has submitted a written narrative describing the economic areas that make up the county's market areas. Otero 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 Otero 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 2014 in Otero 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 was 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

Otero 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)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 under lease, permit, concession, contract, or other agreement.

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

Conclusions

Otero 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

Otero 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.

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

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

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

Otero County submitted their personal property written audit plan and was current for the 2014 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
- Same business type or use
- Businesses with no deletions or additions for 2 or more years



- Non-filing Accounts Best Information Available
- Accounts protested with substantial disagreement

Conclusions

Otero County has employed adequate discovery, classification, documentation,

valuation, and auditing procedures for their personal property assessment and is in statistical compliance with SBOE requirements.

Recommendations



WILDROSE AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

Suzanne Howard, Audit Administrative Manager

Steve Kane, Audit Statistician

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



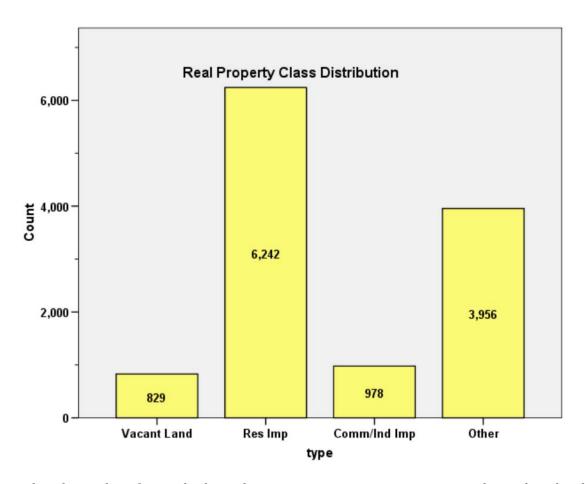
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR OTERO COUNTY 2014

I. OVERVIEW

Otero County is a major agricultural county located in southeastern Colorado. The county has a total of 12,005 real property parcels, according to data submitted by the county assessor's office in 2014. The following provides a breakdown of property classes for this county:



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

For residential improved properties, single family properties accounted for 96.3% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 8.15% of all such properties in this county.



II. DATA FILES

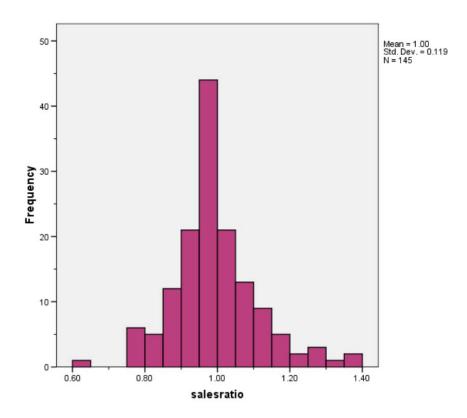
The following sales analyses were based on the requirements of the 2014 Colorado Property Assessment Study. Information was provided by the Otero Assessor's Office in April 2014. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

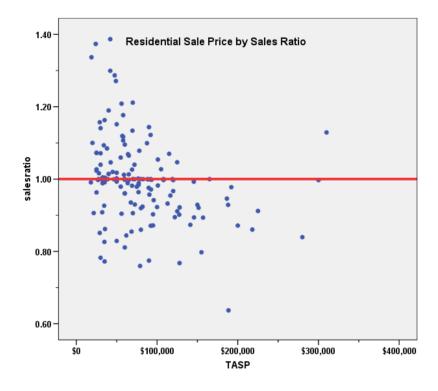
There were 145 qualified residential sales in the 18 month sale period ending June 30, 2014. The sales ratio analysis was analyzed as follows:

Median	0.996
Price Related Differential	1.026
Coefficient of Dispersion	.083

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:







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. No sales were trimmed.

Residential Market Trend Analysis

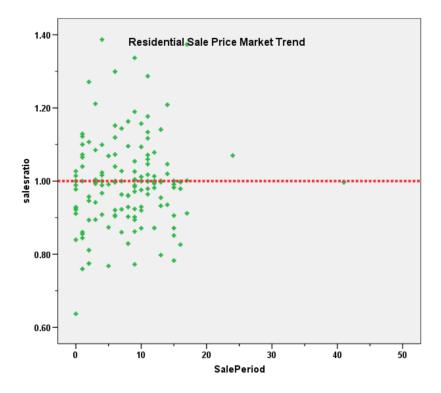
We next analyzed the residential dataset using the 18-month sale period, with the following results:

Coefficients^a

Γ	Model		Unstandardize	d Coefficients	Standardized Coefficients		
L			В	Std. Error	Beta	t	Sig.
Γ	1	(Constant)	.984	.017		58.486	.000
L		SalePeriod	.002	.002	.073	.880	.380

a. Dependent Variable: salesratio





The above analysis indicated that no market trend was present in the sale ratio 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 and mean actual value per square foot for 2014 between each group, as follows:

Group	No.	Median Val/SF	Mean Val/SF
Unsold	6,083	\$44	\$46
Sold	145	\$48	\$50

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

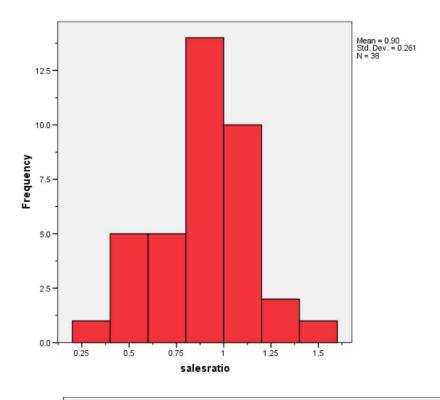
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

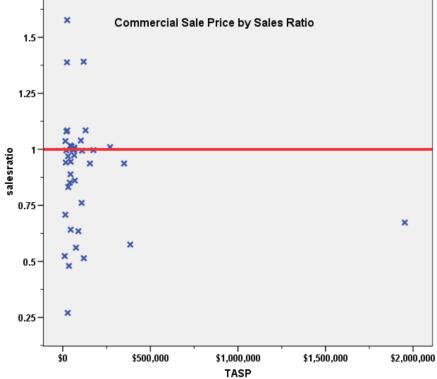
There were 38 qualified commercial/industrial sales in the 42 month sale period ending June 30, 2014. The sales ratio analysis was analyzed as follows:

Median	0.957
Price Related Differential	1.119
Coefficient of Dispersion	.196



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







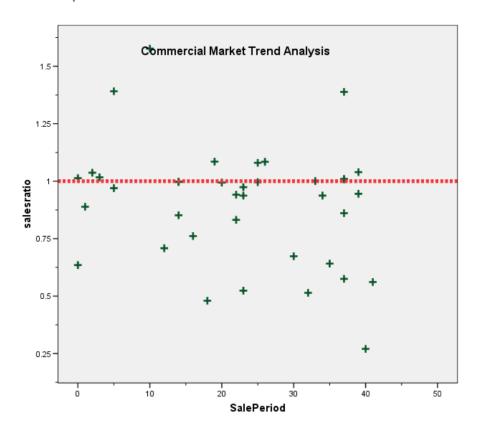
Commercial Market Trend Analysis

The commercial sales were analyzed, examining the sale ratios across the 42-month sale period with the following results:

Coefficients^a

Mode	el	Unstandardize	d Coefficients	Standardized Coefficients		
		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.015	.083		12.160	.000
	SalePeriod	005	.003	256	-1.588	.121

a. Dependent Variable: salesratio



Based on the above results, we concluded that the assessor has adequately dealt with market trending in the commercial/industrial sale data.



Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if the assessor was valuing each group consistently. While this is a challenge to prove in this county, given the small number of sales and the overall small number and diversity of commercial/industrial properties in general, the following results indicate that based on the median actual value, both groups were valued in a consistent manner:

Group	No.	Median Val/SF	Mean Val/SF
Unsold	943	\$20	\$68
Sold	37	\$17	\$21

The above results indicated that sold and unsold commercial properties were valued consistently.

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

The final statistical verification concerned the assigned actual values for agricultural residential improvements. We compared the actual value per square foot rate for this group and compared it to rates assigned to residential single family improvements in Otero County,

The following indicates that agricultural residential improvements were valued in a manner similar to the single family residential improvements in this county:



Descriptives

	ABSTE	RIMP		Statistic	Std. Error
ImpSF	1212	Mean		\$82.13	\$22.857
		95% Confidence Interval for	Lower Bound	\$37.32	
		Mean	Upper Bound	\$126.93	
		5% Trimmed Mean		\$41.08	
		Median		\$40.25	
		Variance		3140307.649	
		Std. Deviation		\$1,772.091	
		Minimum		\$0	
		Maximum		\$104,701	
		Range		\$104,701	
		Interquartile Range		\$22	
		Skewness		52.911	.032
		Kurtosis		2903.559	.063
	4277	Mean		\$1,690.68	\$1,237.515
		95% Confidence Interval for	Lower Bound	\$-762.03	
		Mean	Upper Bound	\$4,143.40	
		5% Trimmed Mean		\$44.13	
		Median		\$39.07	
		Variance		1.685E8	
		Std. Deviation		\$12,979.171	
		Minimum		\$1	
		Maximum		\$124,239	
		Range		\$124,238	
		Interquartile Range		\$40	
		Skewness		8.584	.230
		Kurtosis		77.137	.457

VI. CONCLUSIONS

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



STATISTICAL ABSTRACT Residential

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Confidence Interval for 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
.996	.976	1.015	.998	.988	1.000	95.4%	.971	.949	.993	1.026	.083	11.9%

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

Commercial/Industrial

	95% Confider 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
.900	.814	.986	.957	.852	1.001	96.6%	.804	.681	.927	1.119	.196	29.0%

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

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	10	6.9%
	\$25K to \$50K	39	26.9%
	\$50K to \$100K	61	42.1%
	\$100K to \$150K	21	14.5%
	\$150K to \$200K	9	6.2%
	\$200K to \$300K	4	2.8%
	\$300K to \$500K	1	.7%
Overall		145	100.0%
Excluded		0	
Total		145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LT \$25K	1.050	1.003	.100	15.0%
\$25K to \$50K	1.004	.993	.095	14.1%
\$50K to \$100K	.998	1.005	.070	9.7%
\$100K to \$150K	.967	1.004	.058	7.5%
\$150K to \$200K	.921	1.001	.079	12.7%
\$200K to \$300K	.886	.996	.059	8.2%
\$300K to \$500K	1.129	1.000	.000	.%
Overall	.998	1.026	.083	11.9%



Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	1212	135	93.1%
	1215	1	.7%
	1968	1	.7%
	2045	1	.7%
	2235	1	.7%
	2746	1	.7%
	2969	1	.7%
	3257	1	.7%
	3512	1	.7%
	3513	1	.7%
	3666	1	.7%
Overall		145	100.0%
Excluded		0	
Total		145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1212	.998	1.023	.082	11.8%
1215	1.374	1.000	.000	.%
1968	1.070	1.000	.000	.%
2045	.997	1.000	.000	.%
2235	.874	1.000	.000	.%
2746	1.014	1.000	.000	.%
2969	.871	1.000	.000	.%
3257	1.000	1.000	.000	.%
3512	.911	1.000	.000	.%
3513	.942	1.000	.000	.%
3666	.971	1.000	.000	.%
Overall	.998	1.026	.083	11.9%



Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	37	25.5%
	75 to 100	21	14.5%
	50 to 75	35	24.1%
	25 to 50	27	18.6%
	5 to 25	22	15.2%
	5 or Newer	3	2.1%
Overall		145	100.0%
Excluded		0	
Total		145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
Over 100	.997	1.021	.076	11.1%
75 to 100	1.000	1.011	.087	12.7%
50 to 75	1.000	1.022	.086	13.4%
25 to 50	.971	1.019	.077	10.6%
5 to 25	.991	1.023	.092	13.0%
5 or Newer	.911	.979	.045	6.8%
Overall	.998	1.026	.083	11.9%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	34	23.4%
	1,000 to 1,500 sf	54	37.2%
	1,500 to 2,000 sf	32	22.1%
	2,000 to 3,000 sf	16	11.0%
	3,000 sf or Higher	9	6.2%
Overall		145	100.0%
Excluded		0	
Total		145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
500 to 1,000 sf	1.000	1.007	.097	13.8%
1,000 to 1,500 sf	1.000	1.017	.081	12.2%
1,500 to 2,000 sf	.997	1.015	.064	8.9%
2,000 to 3,000 sf	.926	1.002	.076	11.2%
3,000 sf or Higher	.971	.986	.068	8.9%
Overall	.998	1.026	.083	11.9%



Improvement Quality

Case Processing Summary

	Count	Percent
QUALITY 2	47	32.4%
3	89	61.4%
4	9	6.2%
Overall	145	100.0%
Excluded	0	
Total	145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
2	1.027	1.011	.100	13.7%
3	.989	1.014	.071	10.2%
4	.988	1.015	.075	10.7%
Overall	.998	1.026	.083	11.9%



Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	1	5	3.4%
	2	31	21.4%
	3	99	68.3%
	4	10	6.9%
Overall		145	100.0%
Excluded		0	
Total		145	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1	1.157	1.018	.067	10.2%
2	1.000	.995	.104	13.9%
3	.997	1.023	.074	11.0%
4	.993	1.001	.068	10.2%
Overall	.998	1.026	.083	11.9%



Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	9	23.7%
	\$25K to \$50K	10	26.3%
	\$50K to \$100K	7	18.4%
	\$100K to \$150K	6	15.8%
	\$150K to \$200K	2	5.3%
	\$200K to \$300K	1	2.6%
	\$300K to \$500K	2	5.3%
	Over \$1,000K	1	2.6%
Overall		38	100.0%
Excluded	1	0	
Total		38	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LT \$25K	1.037	.942	.210	30.5%
\$25K to \$50K	.870	.972	.202	30.3%
\$50K to \$100K	.974	1.023	.139	23.0%
\$100K to \$150K	1.017	.997	.204	30.0%
\$150K to \$200K	.967	.998	.031	4.3%
\$200K to \$300K	1.010	1.000	.000	.%
\$300K to \$500K	.756	1.012	.239	33.9%
Over \$1,000K	.673	1.000	.000	.%
Overall	.957	1.119	.196	28.0%



Subclass

Case Processing Summary

		Count	Percent
ABSTRIMP	0	1	2.6%
	1212	1	2.6%
	1712	1	2.6%
	2026	1	2.6%
	2045	1	2.6%
	2077	1	2.6%
	2212	9	23.7%
	2220	4	10.5%
	2229	1	2.6%
	2230	9	23.7%
	2235	9	23.7%
Overall		38	100.0%
Excluded		0	
Total		38	

Group					cient of ation
	Median	Price Related Differential	Coefficient of Dispersion		dian tered
0	1.010	1.000	.000	.%	
1212	1.388	1.000	.000	.%	
1712	.514	1.000	.000	.%	
2026	1.013	1.000	.000	.%	
2045	.832	1.000	.000	.%	
2077	.996	1.000	.000	.%	
2212	.945	1.109	.218		31.5%
2220	.818	1.190	.244		28.4%
2229	.970	1.000	.000	.%	
2230	.998	.956	.158		29.7%
2235	.861	1.116	.183		24.7%
Overall	.957	1.119	.196		28.0%



Age

Case Processing Summary

		Count	Percent
AgeRec	.00	1	2.6%
	Over 100	4	10.5%
	75 to 100	9	23.7%
	50 to 75	14	36.8%
	25 to 50	9	23.7%
	5 to 25	1	2.6%
Overall		38	100.0%
Excluded		0	
Total		38	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
.00	1.010	1.000	.000	.%
Over 100	.696	.964	.412	61.6%
75 to 100	.974	1.164	.224	34.1%
50 to 75	.983	.947	.148	25.9%
25 to 50	.937	1.164	.134	18.3%
5 to 25	1.388	1.000	.000	.%
Overall	.957	1.119	.196	28.0%



Improved SF

Case Processing Summary

		Count	Percent
ImpSFRec	.00	1	2.6%
	500 to 1,000 sf	3	7.9%
	1,000 to 1,500 sf	7	18.4%
	1,500 to 2,000 sf	4	10.5%
	2,000 to 3,000 sf	6	15.8%
	3,000 sf or Higher	17	44.7%
Overall		38	100.0%
Excluded		0	
Total		38	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
.00	1.010	1.000	.000	.%
500 to 1,000 sf	1.008	1.051	.178	28.9%
1,000 to 1,500 sf	.761	1.023	.213	27.9%
1,500 to 2,000 sf	.755	1.230	.413	50.2%
2,000 to 3,000 sf	.915	.963	.174	22.1%
3,000 sf or Higher	.974	1.233	.162	26.4%
Overall	.957	1.119	.196	28.0%



Improvement Quality

Case Processing Summary

	Count	Percent
QUALITY	1	2.6%
1	4	10.5%
2	3	7.9%
3	30	78.9%
Overall	38	100.0%
Excluded	0	
Total	38	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
	1.010	1.000	.000	.%
1	.968	1.031	.052	7.5%
2	1.001	.979	.372	58.4%
3	.941	1.134	.201	27.3%
Overall	.957	1.119	.196	28.0%



Improvement Condition

Case Processing Summary

	Count	Percent
CONDITION	1	2.6%
1	1	2.6%
2	7	18.4%
3	29	76.3%
Overall	38	100.0%
Excluded	0	
Total	38	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
	1.010	1.000	.000	.%
1	1.084	1.000	.000	.%
2	.941	.972	.258	40.4%
3	.945	1.148	.190	26.1%
Overall	.957	1.119	.196	28.0%