



2010
CHAFFEE COUNTY
PROPERTY ASSESSMENT
STUDY



WILDROSE
APPRAISAL, INCORPORATED
Audit Division



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.

A handwritten signature in black ink that reads "Harry J. Fuller". The signature is written in a cursive style.

Harry J. Fuller
Project Manager
Wildrose Appraisal Inc. – Audit Division

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INTRODUCTION



Colorado

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

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

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

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

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

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

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

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

Wildrose Audit has completed the Property Assessment Study for 2010 and is pleased to report its findings for Chaffee County in the following report.

REGIONAL / HISTORICAL SKETCH OF CHAFFEE COUNTY

Regional Information

Chaffee County is located in the Central Mountains region of Colorado. The Central Mountains Region is in the central portion of Colorado. It extends from the northern Gilpin county boundary approximately 210 miles

southeasterly to the southern boundary of Colorado, including Chaffee, Clear Creek, Custer, Fremont, Gilpin, Huerfano, Lake, Las Animas, Park, and Teller counties.



Historical Information

Chaffee County has a population of approximately 17,156 people with 16 people per square mile, according to the U.S. Census Bureau's 2009 estimated population data.

Chaffee County is on the eastern slope of the Rocky Mountains in central Colorado. Bordered on the west by the Sawatch Range, including the 14,000 foot Continental Divide, the eastern boundary of the county follows the Mosquito Range, descending toward the south. Located high in the Upper Arkansas Valley, the Arkansas River flows toward the southeast, between the two mountain ranges.

The area is the crossroads for the three highways: U.S. 24, 50 and 285. Driving distance from Denver is approximately 144 miles, 102 miles from Colorado Springs and Pueblo, and 65 miles from Gunnison.

The elevation of the area ranges from just under 7,000 to over 14,000 feet on its highest

peaks, providing some of the most spectacular views to be seen anywhere in the world. In fact, Chaffee County has more mountain peaks of 14,000-foot or more than any other county in Colorado and is often referred to as the "Fourteener" Region.

The history of the County and the surrounding area is a rich mix of many influences. The area was originally settled by the Ute Indians, for whom many of the local mountain peaks are named. Chaffee County was established in 1879 and named for Jerome Chaffee, Colorado's first United States Senator and local investor.

Early in its history the area experienced an influx of explorers, miners, railroad expansionists, farmers and ranchers. The influence of each has dwindled over the years, but their mark in the history of the area is evident throughout the valley. (*salida.com*)

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 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 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. 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 Chaffee County are:

Chaffee County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	50	0.983	1.087	15	Compliant
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	567	0.994	1.016	8.4	Compliant
Vacant Land	501	1.016	1.036	13.9	Compliant

After applying the above described methodologies, it is concluded from the sales ratios that Chaffee 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, Chaffee County has accurately transferred sales data from the recorded deeds to the qualified or unqualified database.

Recommendations

None



TIME TRENDING VERIFICATION

Methodology

While we recommend that counties use the inverted ratio regression analysis method to account for market (time) trending, some counties have used other IAAO-approved methods, such as the weighted monthly median approach. We are not auditing the methods used, but rather the results of the methods used. Given this range of methodologies used to account for market trending, we concluded that the best validation method was to examine the sale ratios for each class across the appropriate sale period. To be specific, if a county has considered and adjusted correctly for market trending, then the sale ratios should remain stable (i.e. flat) across the sale period. If a residual market trend is detected, then the county may or may not have addressed market

trending adequately, and a further examination is warranted. This validation 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 Chaffee County has complied with the statutory requirements to analyze the effects of time on value in their county. Chaffee County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations

None

SOLD / UNSOLD ANALYSIS

Methodology

Chaffee 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. Once the 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 non-parametric 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 multi-variate 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 Results	
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	Compliant

Conclusions

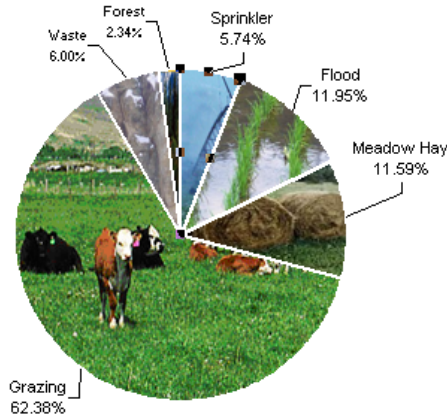
After applying the above described methodologies, it is concluded that Chaffee County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

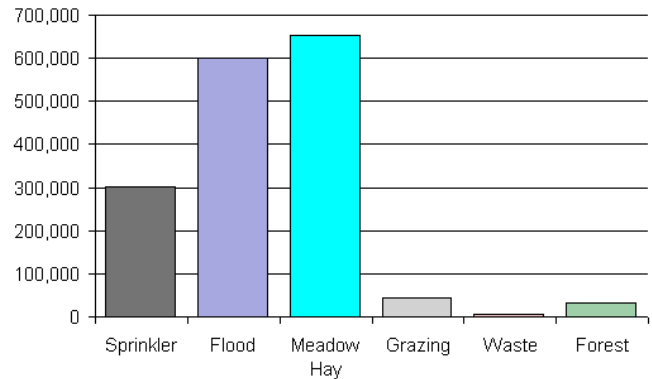
None

AGRICULTURAL LAND STUDY

Acres By Subclass



Value By Subclass



Agricultural Land

County records were reviewed to determine major land categories such as irrigated farm, dry farm, meadow hay, grazing and other lands. In addition, county records were reviewed in order to determine if: Aerial photographs are available and are being used; soil conservation guidelines have been used to classify lands based on productivity; crop rotations have been documented; typical commodities and yields have been determined; orchard lands have been properly classified and valued; expenses reflect a ten year average and are typical landlord expenses; grazing lands have been properly classified and valued; the number of acres in each class and subclass have been determined; the capitalization rate was properly applied. Also, documentation was required for the valuation methods used and any locally developed yields, carrying capacities, and expenses. Records were also checked to ensure that the commodity prices and expenses, furnished by the Property Tax Administrator (PTA), were applied properly.

(See Assessor Reference Library Volume 3 Chapter 5.)

Conclusions

An analysis of the agricultural land data indicates an acceptable appraisal of this property type. Directives, commodity prices and expenses provided by the PTA were properly applied. County yields compared favorably to those published by Colorado Agricultural Statistics. Expenses used by the county were allowable expenses and were in an acceptable range. Grazing lands carrying capacities were in an acceptable range. The data analyzed resulted in the following ratios:



Chaffee County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4107	Sprinkler	3,758	80.14	301,170	300,394	1.00
4117	Flood	7,818	76.69	599,599	603,368	0.99
4137	Meadow Hay	7,585	86.08	652,916	652,916	1.00
4147	Grazing	40,826	11.40	44,797	44,797	1.00
4177	Forest	1,534	1.62	31,743	31,743	1.00
4167	Waste	3,929	1.62	6,345	6,345	1.00
Total/Avg		65,449	25.01	1,636,569	1,639,562	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

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

Recommendations

None

SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

WRA reviewed the sales verification procedures in 2010 for Chaffee 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 32 sales listed as unqualified.

All but one of the sales selected in the sample gave reasons that were clear and supportable. One sale had insufficient documentation.

Conclusions

Chaffee County appears to be doing an good job of verifying their sales. There are no recommendations.

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations

None

NATURAL RESOURCES

Earth and Stone Products

Methodology

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

the reserves or the lease. Value is based on two variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

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

Recommendations

None

0

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2010 in Chaffee 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.

Conclusions

Chaffee County has implemented proper procedures to adequately estimate absorption periods, discount rates, and lot values for qualifying subdivisions.

Recommendations

None

POSSESSORY INTEREST PROPERTIES

Possessory Interest

Possessory interest property discovery and valuation is described in the Assessor's Reference Library (ARL) Volume 3 section 7 in accordance with the requirements of Chapter 39-1-103 (17)(a) (II) C.R.S. Possessory Interest is defined by the Property Tax Administrator's Publication ARL Volume 3, Chapter 7: A private property interest in government-owned property or the right to the occupancy and use of any benefit in government-owned property that has been granted under lease, permit, license, concession, contract, or other agreement.

Chaffee County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural, commercial

and ski area possessory interest properties. The county has also been queried as to their confidence that the possessory interest properties have been discovered and placed on the tax rolls.

Conclusions

Chaffee County has implemented a discovery process to place possessory interest properties on the roll. They have also correctly and consistently applied the correct procedures and valuation methods in the valuation of possessory interest properties.

Recommendations

None

PERSONAL PROPERTY AUDIT

Chaffee 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.

Chaffee 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.

Chaffee 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:

- Businesses in a selected area
- Accounts with obvious discrepancies
- New businesses filing for the first time
- Accounts with greater than 10% change
- Incomplete or inconsistent declarations
- Accounts with omitted property



- Same business type or use
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts close to the \$4,000 actual value exemption status
- Lowest or highest quartile of value per square foot
- Accounts protested with substantial disagreement

Conclusions

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

Recommendations

None

WILDROSE AUDITOR STAFF

Harry J. Fuller, *Audit Project Manager*

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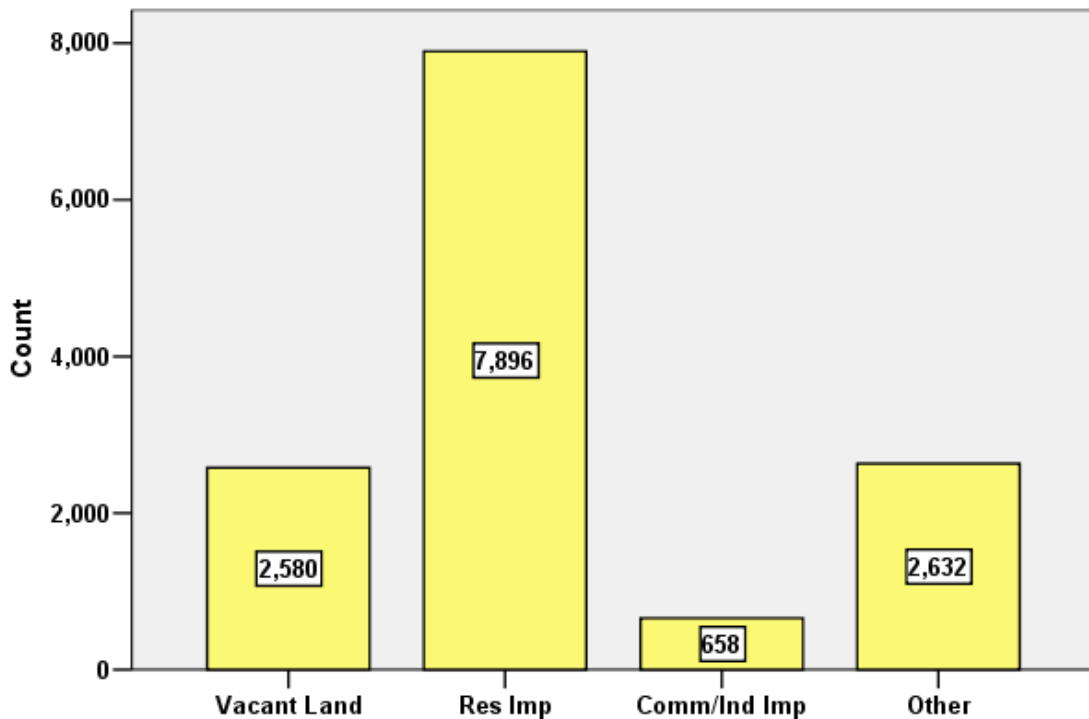
APPENDICES

STATISTICAL COMPLIANCE REPORT FOR CHAFFEE COUNTY 2010

I. OVERVIEW

Chaffee County is located in central Colorado. The county has a total of 13, 766 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 and PUD land. Residential lots (coded 100) accounted for 76.7% of all vacant land parcels.

For residential improved properties, single family properties accounted for 87% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 5% of all such properties in this county.

II. DATA FILES

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

III. RESIDENTIAL SALES RESULTS

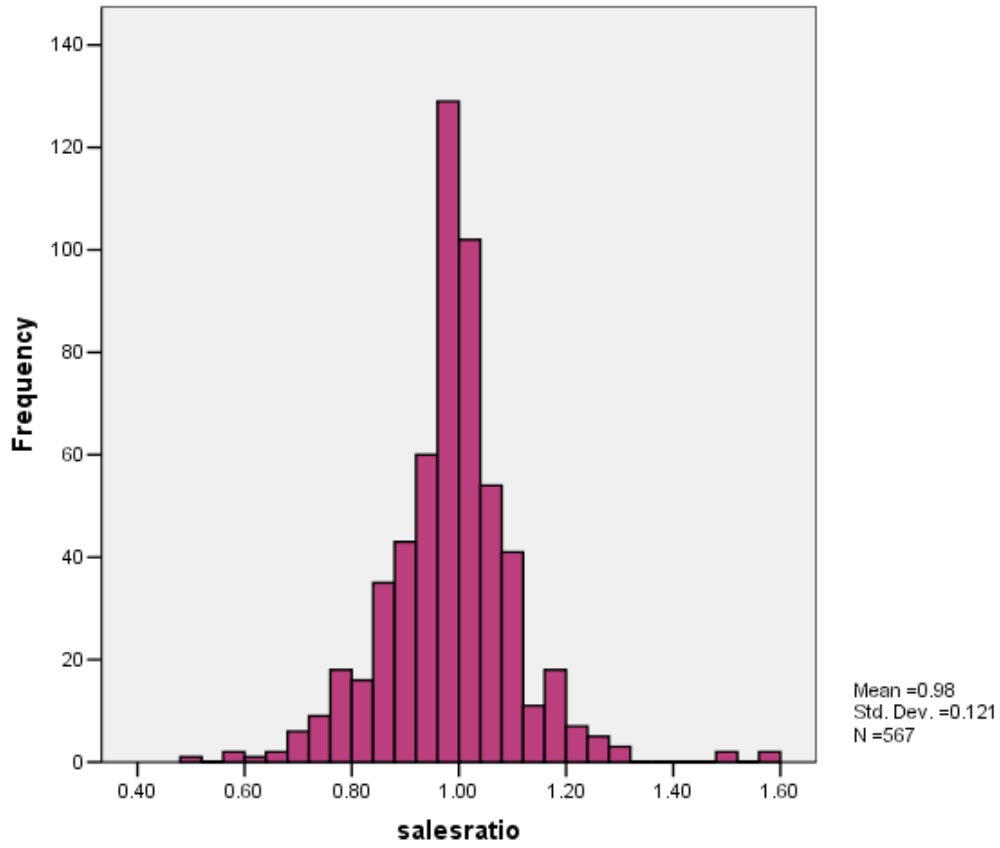
The following steps were taken to analyze the residential sales:

1. Total sales	3,801
2. Selected qualified sales	1,355
3. Select improved sales	820
4. Select residential sales only	768
5. Sales between January 1, 2007 and June 30, 2008	567

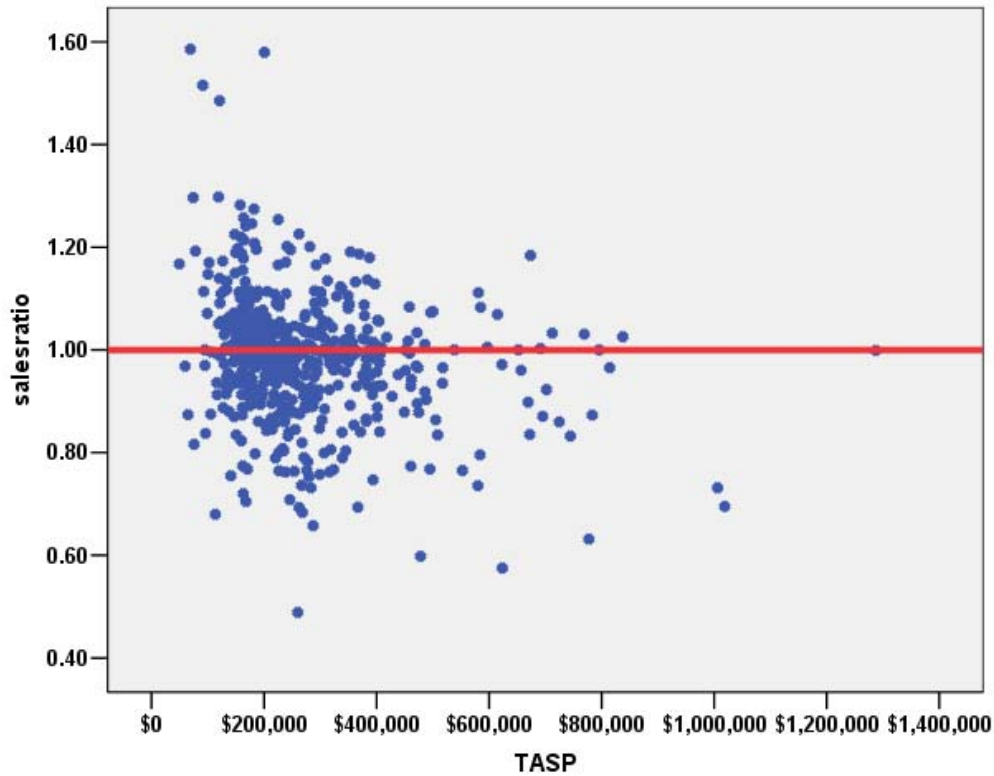
The sales ratio analysis was analyzed as follows:

Median	0.994
Price Related Differential	1.016
Coefficient of Dispersion	.084

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 these properties:



Residential Sale Price by Sales Ratio



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

Residential Market Trend Analysis

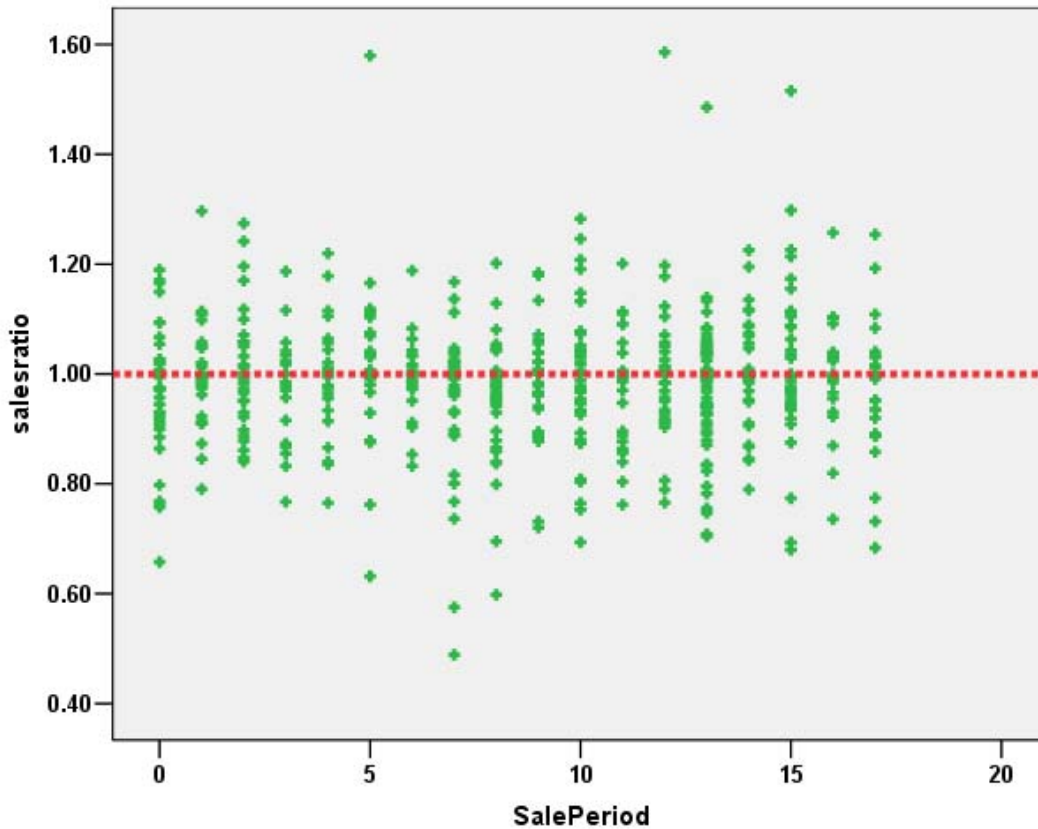
We next analyzed the residential dataset using the 18-month sale period for any residual market trending, with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.983	.010		96.394	.000
SalePeriod	.000	.001	.008	.196	.845

a. Dependent Variable: salesratio

Residential Sale Price Market Trend



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

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2010 between each group, as follows:

Group	No.	Median	Mean
Unsold	7,028	\$139	\$151
Sold	567	\$136	\$144

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

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

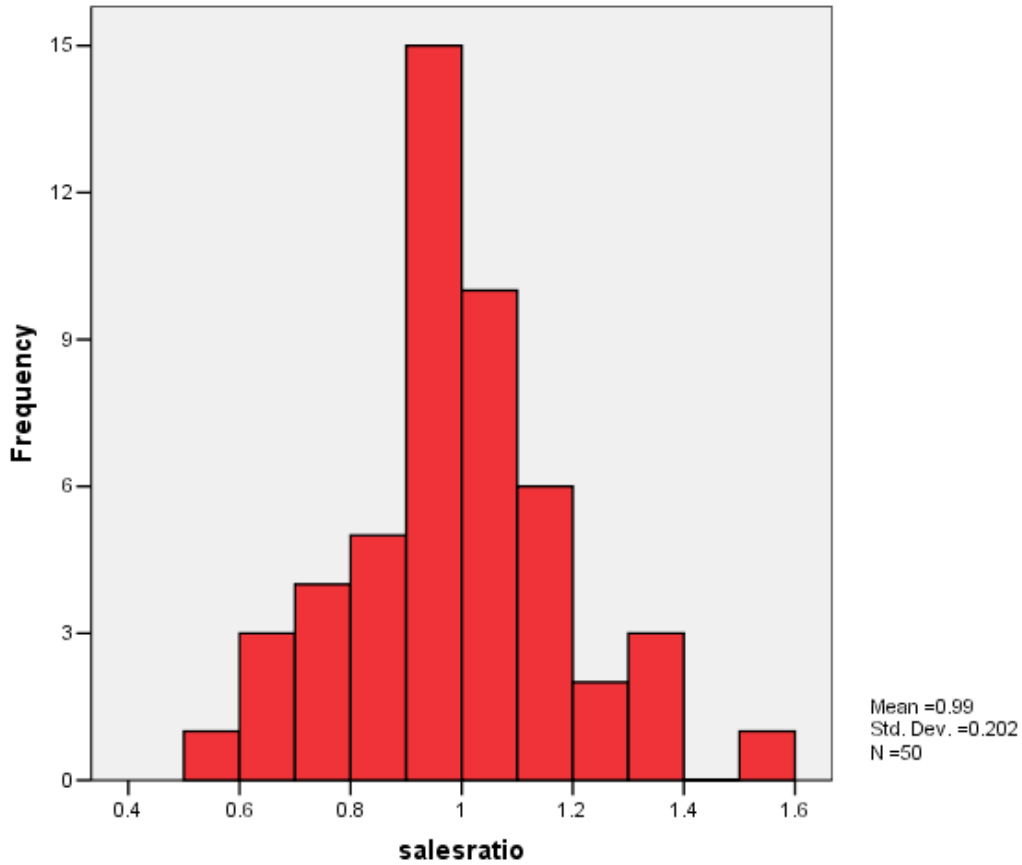
The following steps were taken to analyze the commercial sales:

- | | |
|--|-------|
| 1. Total sales | 3,801 |
| 2. Selected qualified sales | 1,355 |
| 3. Select improved sales | 820 |
| 4. Select commercial/industrial sales only | 50 |

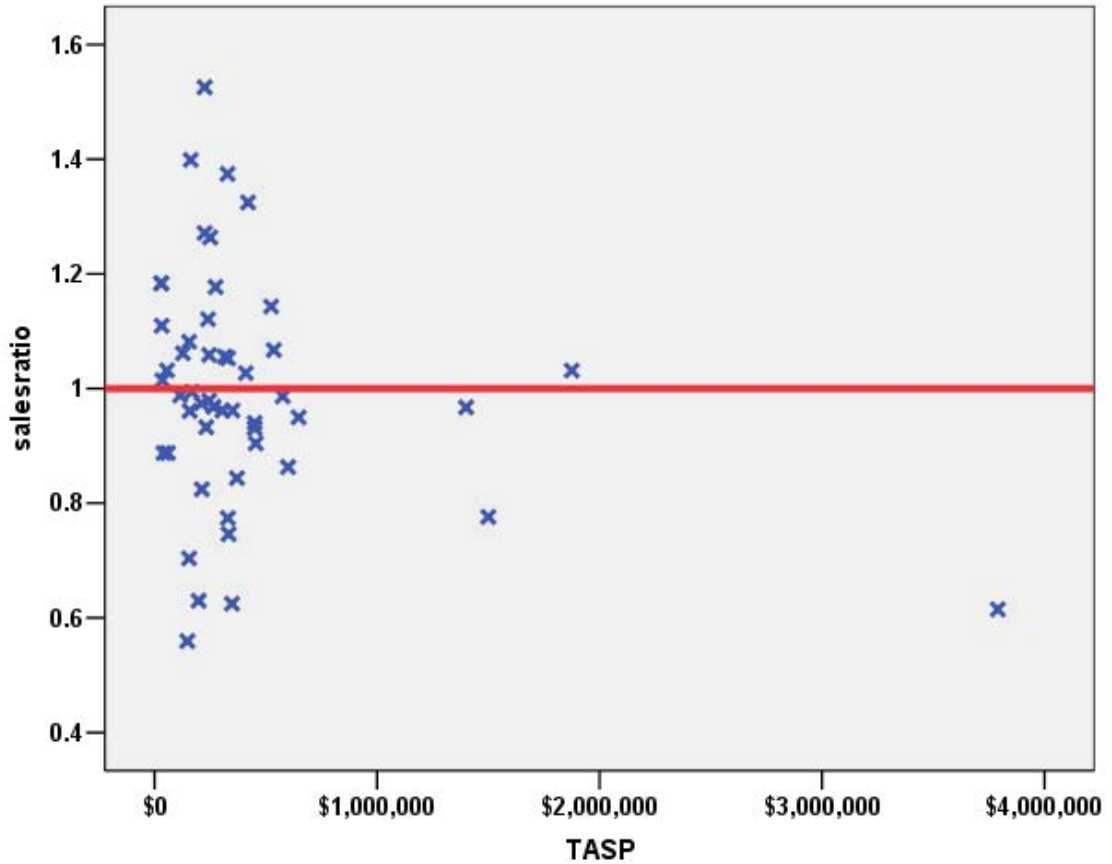
The sales ratio analysis was analyzed as follows:

Median	0.983
Price Related Differential	1.087
Coefficient of Dispersion	.150

The above table indicates that the Chaffee 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 Sale Price by Sales Ratio



Commercial Market Trend Analysis

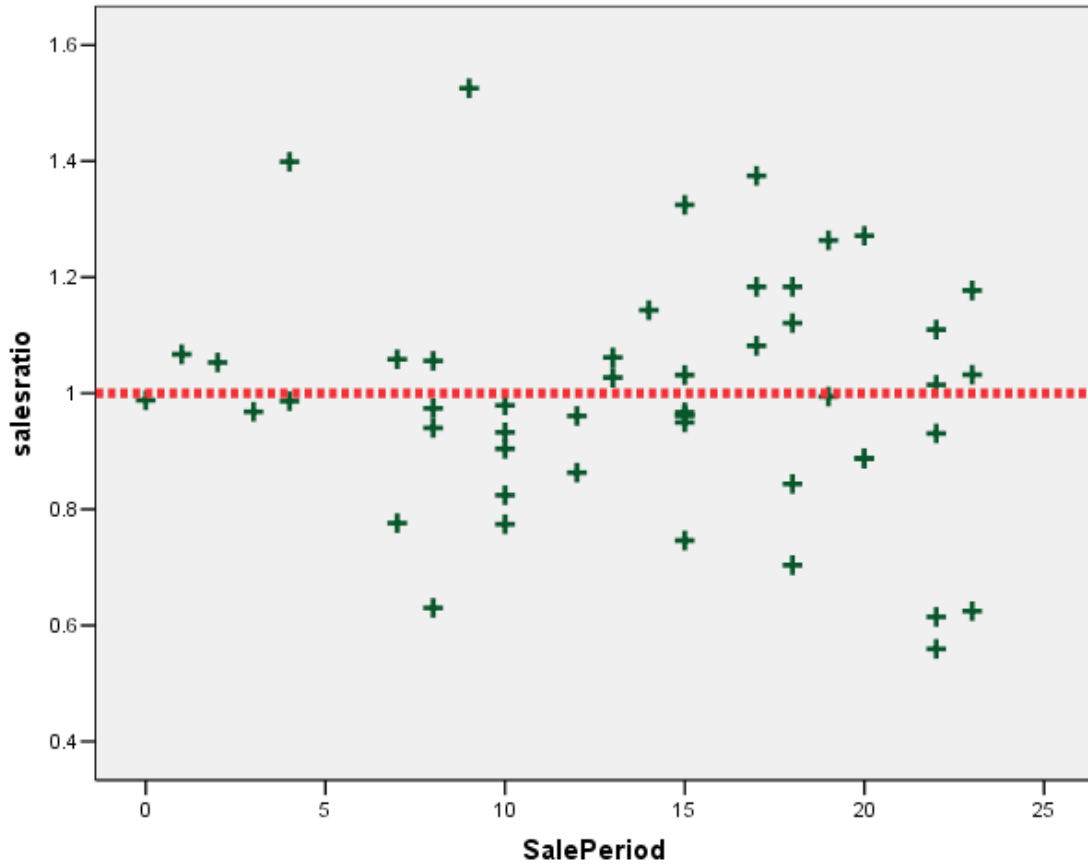
The 50 commercial/industrial sales were next analyzed, examining the sales ratios across the 23-month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.036	.069		15.074	.000
	SalePeriod	-.003	.005	-.098	-.682	.498

a. Dependent Variable: salesratio

Commercial Market Trend Analysis



The market trend results indicated no statistically significant trend, indicating that the assessor has adequately addressed the issue of market trending for commercial/industrial properties in Chaffee County.

Sold/Unsold Analysis

We compared the median actual value per square foot for sold and unsold commercial properties to determine if the assessor was valuing each group consistently. The analysis was stratified by commercial and industrial subclass, as follows:

Group	N	Median	Mean
Unsold	563	\$103	\$116
Sold	48	\$116	\$145

Based on these results, we concluded that the assessor was valuing sold and unsold commercial properties consistently in Chaffee County.

V. VACANT LAND SALE RESULTS

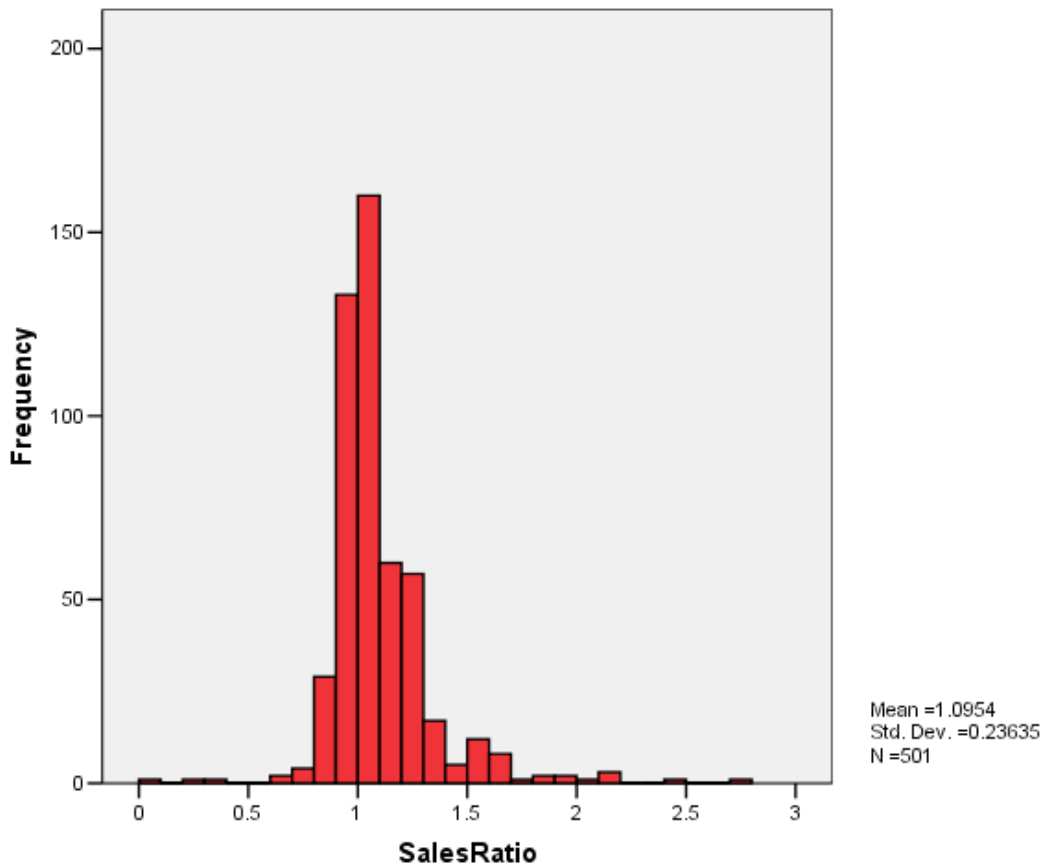
The following steps were taken to analyze vacant land sales:

1. Total sales	3,801
2. Selected qualified sales	1,355
3. Select vacant land sales	512
4. Select non-agricultural sales	501

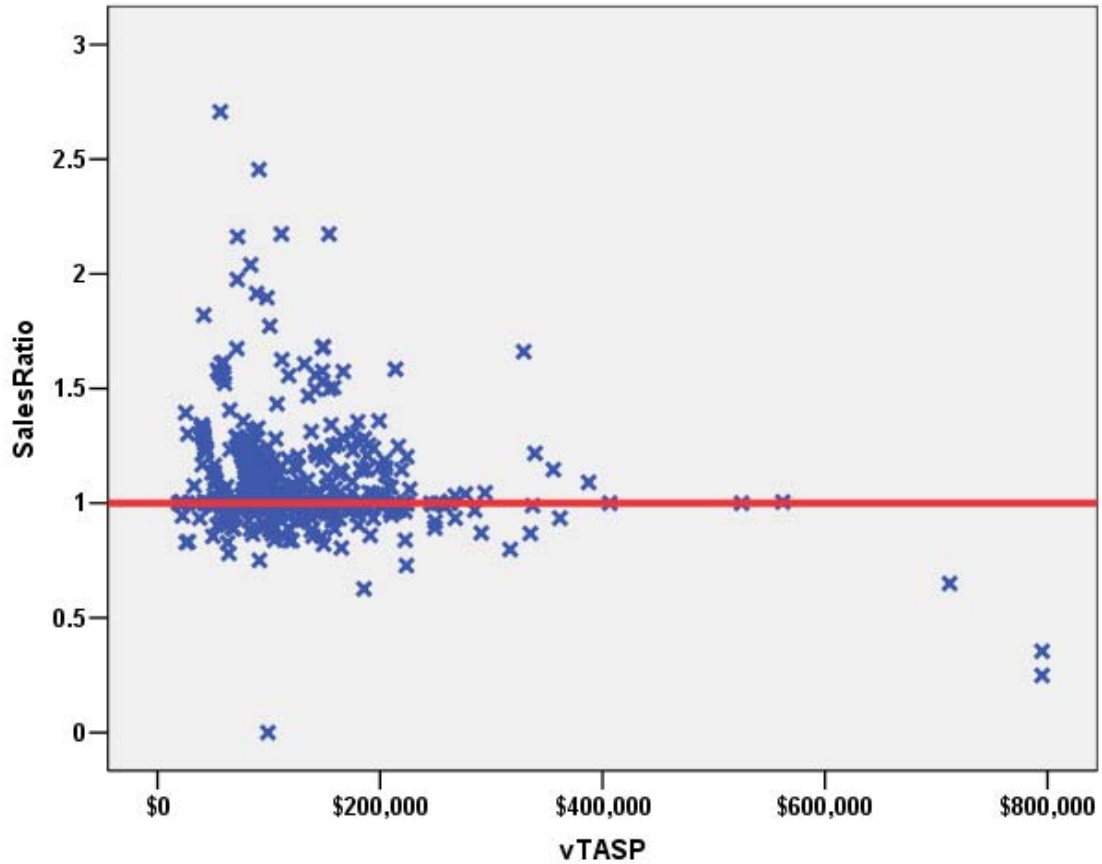
The sales ratio analysis was analyzed as follows:

Median	1.016
Price Related Differential	1.036
Coefficient of Dispersion	.139

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



Vacant Land Sale Price by Sales Ratio



Vacant Land Market Trend Analysis

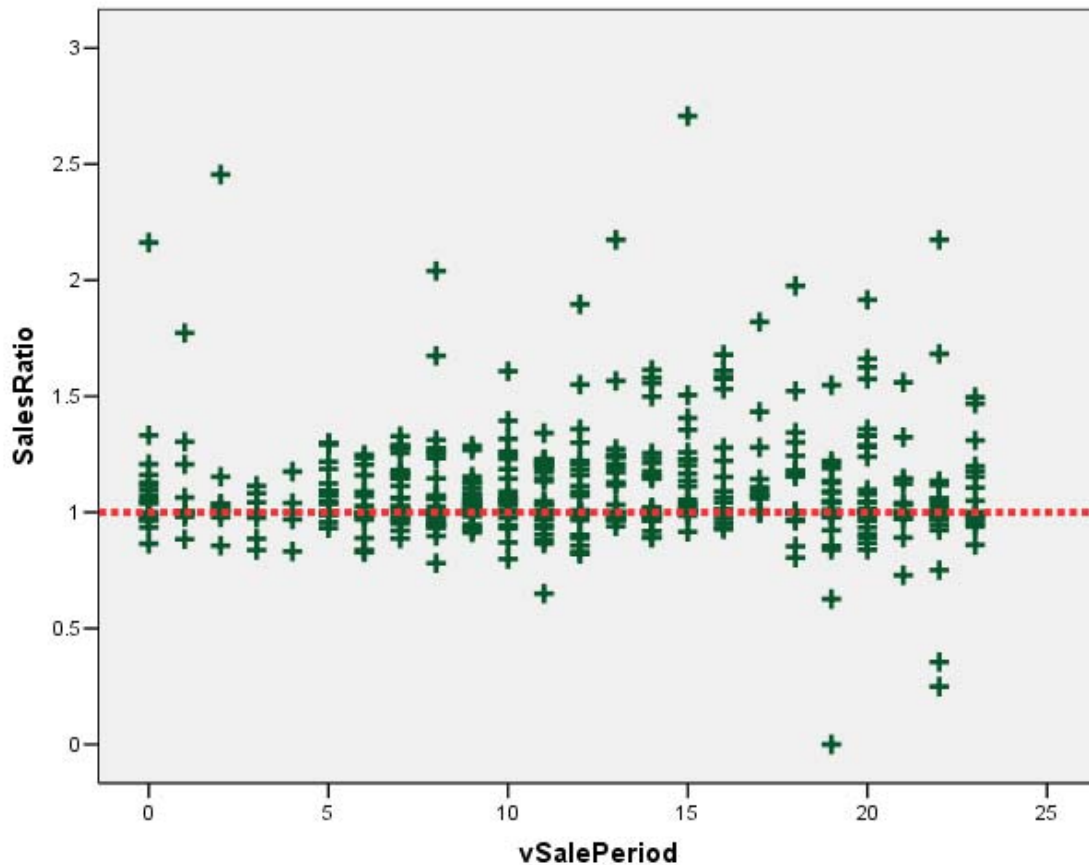
The 501 vacant land sales were next analyzed, examining the sales ratios across the 24 month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.091	.023		47.201	.000
	vSalePeriod	.000	.002	.009	.196	.845

a. Dependent Variable: SalesRatio

Vacant Land Sales Market Trend Analysis



Based on the above results, we concluded that the assessor has adequately addressed market trending in the vacant land valuation.

Sold/Unsold Analysis

We compared the median change in actual value between 2008 and 2010 for vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Group	N	Median	Mean
Unsold	2,473	1.13	1.23
Sold	354	1.24	1.36

The above results indicated that sold and unsold vacant land properties were valued consistently overall.

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 Chaffee County.

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

Descriptives

ABSTRIMP		Statistic	Std. Error		
ImpValSF	1212	Mean	\$90.90	\$.925	
		95% Confidence Interval for Mean	\$89.08		
		Lower Bound	\$92.71		
		Upper Bound	\$92.71		
		5% Trimmed Mean	\$87.38		
		Median	\$82.88		
		Variance	5918.076		
		Std. Deviation	\$76.929		
		Minimum	\$1		
		Maximum	\$4,113		
		Range	\$4,112		
		Interquartile Range	\$49		
		Skewness	36.241		.029
		Kurtosis	1806.147		.059
4277		Mean	\$105.08	\$4.587	
		95% Confidence Interval for Mean	\$95.99		
		Lower Bound	\$114.17		
		Upper Bound	\$114.17		
		5% Trimmed Mean	\$102.27		
		Median	\$97.73		
		Variance	2335.235		
		Std. Deviation	\$48.324		
		Minimum	\$26		
		Maximum	\$329		
		Range	\$302		
		Interquartile Range	\$68		
		Skewness	1.238		.229
		Kurtosis	2.969		.455

VI. Conclusions

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

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean		.985
95% Confidence Interval for Mean	Lower Bound	.975
	Upper Bound	.995
Median		.994
95% Confidence Interval for Median	Lower Bound	.985
	Upper Bound	1.000
	Actual Coverage	95.6%
Weighted Mean		.970
95% Confidence Interval for Weighted Mean	Lower Bound	.958
	Upper Bound	.981
Price Related Differential		1.016
Coefficient of Dispersion		.084
Coefficient of Variation	Mean Centered	12.3%

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

Ratio Statistics for CURRTOT / TASP

Mean		.994
95% Confidence Interval for Mean	Lower Bound	.936
	Upper Bound	1.051
Median		.983
95% Confidence Interval for Median	Lower Bound	.950
	Upper Bound	1.053
	Actual Coverage	96.7%
Weighted Mean		.914
95% Confidence Interval for Weighted Mean	Lower Bound	.794
	Upper Bound	1.034
Price Related Differential		1.087
Coefficient of Dispersion		.150
Coefficient of Variation	Mean Centered	20.3%

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.

Vacant Land

Ratio Statistics for CURRLND / vTASP

Mean		1.095
95% Confidence Interval for Mean	Lower Bound	1.075
	Upper Bound	1.116
Median		1.016
95% Confidence Interval for Median	Lower Bound	1.003
	Upper Bound	1.038
	Actual Coverage	95.1%
Weighted Mean		1.058
95% Confidence Interval for Weighted Mean	Lower Bound	1.023
	Upper Bound	1.092
Price Related Differential		1.036
Coefficient of Dispersion		.139
Coefficient of Variation	Mean Centered	21.6%

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	\$25K to \$50K	1	.2%
	\$50K to \$100K	12	2.1%
	\$100K to \$150K	54	9.5%
	\$150K to \$200K	135	23.8%
	\$200K to \$300K	202	35.6%
	\$300K to \$500K	129	22.8%
	\$500K to \$750K	25	4.4%
	\$750K to \$1,000K	6	1.1%
	Over \$1,000K	3	.5%
Overall		567	100.0%
Excluded		0	
Total		567	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$25K to \$50K	1.168	1.000	.000	.
\$50K to \$100K	1.036	1.003	.186	25.3%
\$100K to \$150K	1.007	1.001	.090	12.8%
\$150K to \$200K	1.005	1.001	.075	10.3%
\$200K to \$300K	.978	1.002	.080	11.8%
\$300K to \$500K	.993	1.003	.076	10.5%
\$500K to \$750K	.935	.999	.111	14.3%
\$750K to \$1,000K	.983	.998	.099	17.0%
Over \$1,000K	.732	.981	.138	26.1%
Overall	.994	1.016	.084	12.2%

Subclass

Case Processing Summary

	Count	Percent
PredUse 1112	502	88.5%
1115	5	.9%
1125	1	.2%
1135	5	.9%
1212	1	.2%
1230	53	9.3%
Overall	567	100.0%
Excluded	0	
Total	567	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1112	.993	1.016	.087	12.3%
1115	.942	1.032	.129	21.0%
1125	1.000	1.000	.000	.
1135	.977	1.055	.223	35.5%
1212	.816	1.000	.000	.
1230	.999	1.004	.036	5.8%
Overall	.994	1.016	.084	12.2%

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	29	5.1%
	75 to 100	28	4.9%
	50 to 75	62	10.9%
	25 to 50	123	21.7%
	5 to 25	203	35.8%
	5 or Newer	122	21.5%
Overall		567	100.0%
Excluded		0	
Total		567	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
Over 100	.951	1.030	.113	15.4%
75 to 100	1.001	1.030	.094	13.0%
50 to 75	.985	1.022	.116	14.8%
25 to 50	.979	1.024	.102	15.3%
5 to 25	.996	1.013	.080	11.5%
5 or Newer	.999	1.009	.047	6.9%
Overall	.994	1.016	.084	12.2%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	7	1.2%
	500 to 1,000 sf	62	10.9%
	1,000 to 1,500 sf	155	27.3%
	1,500 to 2,000 sf	140	24.7%
	2,000 to 3,000 sf	123	21.7%
	3,000 sf or Higher	80	14.1%
Overall		567	100.0%
Excluded		0	
Total		567	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LE 500 sf	.970	1.005	.120	16.1%
500 to 1,000 sf	1.001	1.023	.108	15.8%
1,000 to 1,500 sf	.984	1.007	.087	12.3%
1,500 to 2,000 sf	.986	1.022	.090	12.4%
2,000 to 3,000 sf	.991	1.011	.063	8.9%
3,000 sf or Higher	1.001	1.025	.078	12.7%
Overall	.994	1.016	.084	12.2%

Improvement Quality

Case Processing Summary

	Count	Percent
Qual 2	154	27.2%
3	73	12.9%
4	31	5.5%
5	125	22.0%
6	96	16.9%
7	32	5.6%
8	4	.7%
9	21	3.7%
10	30	5.3%
11	1	.2%
Overall	567	100.0%
Excluded	0	
Total	567	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
2	1.000	1.011	.070	10.7%
3	.991	1.016	.068	10.3%
4	.991	1.048	.110	15.4%
5	.972	1.020	.096	13.5%
6	.988	1.012	.078	10.6%
7	1.007	1.002	.077	10.0%
8	1.017	1.005	.026	3.7%
9	1.029	1.011	.121	15.2%
10	1.003	1.029	.122	19.0%
11	1.000	1.000	.000	.
Overall	.994	1.016	.084	12.2%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	5	10.0%
	\$50K to \$100K	2	4.0%
	\$100K to \$150K	3	6.0%
	\$150K to \$200K	6	12.0%
	\$200K to \$300K	11	22.0%
	\$300K to \$500K	14	28.0%
	\$500K to \$750K	5	10.0%
	Over \$1,000K	4	8.0%
Overall		50	100.0%
Excluded		0	
Total		50	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$25K to \$50K	1.110	1.012	.084	11.9%
\$50K to \$100K	.960	1.003	.075	10.6%
\$100K to \$150K	.988	1.023	.169	31.1%
\$150K to \$200K	.978	1.011	.201	28.4%
\$200K to \$300K	1.059	.999	.144	19.3%
\$300K to \$500K	.951	.998	.150	21.4%
\$500K to \$750K	.986	1.006	.081	11.1%
Over \$1,000K	.872	1.070	.174	21.9%
Overall	.983	1.087	.150	20.6%

Subclass

Case Processing Summary

	Count	Percent
PredUse 2112	16	32.0%
2115	3	6.0%
2120	3	6.0%
2130	12	24.0%
2135	3	6.0%
2230	2	4.0%
2235	6	12.0%
2245	3	6.0%
3112	1	2.0%
3115	1	2.0%
Overall	50	100.0%
Excluded	0	
Total	50	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
2112	.961	1.013	.149	19.3%
2115	1.031	1.189	.144	28.6%
2120	1.177	1.014	.158	24.4%
2130	.981	1.045	.135	19.3%
2135	.979	.915	.145	30.3%
2230	1.010	1.008	.022	3.1%
2235	1.062	1.027	.108	13.0%
2245	.974	1.026	.263	39.7%
3112	.824	1.000	.000	.
3115	.962	1.000	.000	.
Overall	.983	1.087	.150	20.6%

Vacant Land Median Ratio Stratification

Case Processing Summary

	Count	Percent
VPredUse 100	400	79.8%
200	8	1.6%
300	5	1.0%
510	8	1.6%
520	15	3.0%
530	6	1.2%
540	9	1.8%
550	9	1.8%
1112	31	6.2%
1135	7	1.4%
2112	1	.2%
2120	1	.2%
2130	1	.2%
Overall	501	100.0%
Excluded	0	
Total	501	

Ratio Statistics for CURRLND / vTASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
100	1.025	1.016	.139	24.7%
200	.934	1.554	.216	37.3%
300	1.000	1.017	.068	8.9%
510	1.199	1.008	.084	14.7%
520	.995	1.005	.066	10.4%
530	.995	1.028	.084	15.4%
540	1.124	1.013	.227	29.7%
550	1.000	.988	.045	6.4%
1112	1.111	1.018	.093	14.6%
1135	1.000	.923	.108	24.1%
2112	1.000	1.000	.000	.
2120	.927	1.000	.000	.
2130	.650	1.000	.000	.
Overall	1.016	1.036	.139	24.5%