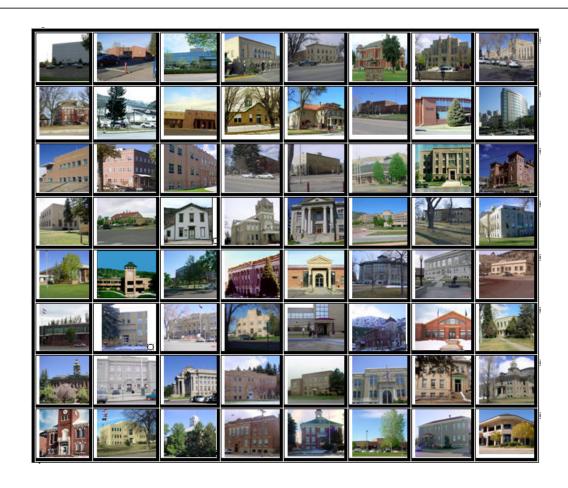


2014 PHILLIPS COUNTY PROPERTY ASSESSMENT STUDY







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 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 2014 and is pleased to report its findings for Phillips County in the following report.



REGIONAL/HISTORICAL SKETCH OF PHILLIPS COUNTY

Regional Information

Phillips 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

Phillips County has a population of approximately 4,442 people with 6.46 people per square mile, according to the U.S. Census Bureau's 2010 census data. This represents a - 0.85 percent change from the 2000 Census.

Phillips County was created in 1889 from part of Logan County. Located on the beautiful high plains of northeastern Colorado, Phillips County's primary industry is agriculture and it is one of the most productive farming and ranching regions in the country. The county was named in honor of R.O. Phillips, a secretary of the Lincoln Land Company, who organized several towns in Colorado.

The county seat, Holyoke, was named for Holyoke, Massachusetts which was in turn named for the Reverend Edward Holyoke, an early president of Harvard College. Holyoke sits on the golden plains of northeastern Colorado. Three major highways run through the community - Hwy. 385, 6 and 23.

Holyoke is home to the Holyoke Dragons and is truly a "City of Pride and Progress." Holyoke offers an airport, indoor swimming pool, 18-hole golf course, ball fields, skateboard park, tennis courts, fishing ponds, parks, camping facilities, motels, a movie theater, many churches, a nice variety of restaurants and many unique stores. It's also home to the Phillips County Historical Society Museum, the County Fair, and two facilities on the historical register - The Burge Hotel and the Heginbotham Library.

Agriculture is the main economic force in Phillips County, with excellent dry land and irrigated cropland to grow wheat, corn, dry edible beans, popcorn and alfalfa. Several fine livestock and feedlot operations are also located in the county.

(www.phillipscountyco.org, www.colorado.com, www.Wikipedia.org, William Bright, Colorado Place Names, 3rd Edition, Johnson Books, 2004, p. 137 and 86)



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 Phillips County are:

	Phillips County Ratio Grid									
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis					
Commercial/Industrial	20	0.972	1.050	16.8	Compliant					
Condominium	N/A	N/A	N/A	N/A	N/A					
Single Family	65	1.007	1.028	13.1	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 Phillips 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 Phillips County has complied with the statutory requirements to analyze the effects of time on value in their county. Phillips 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

Phillips 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 The median and properties and stratified. 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 Res	ults
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	N/A

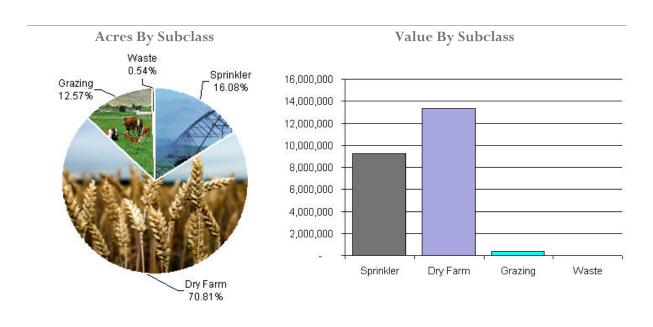
Conclusions

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

Recommendations



AGRICULTURAL LAND STUDY



Agricultural Land

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



	Phillips 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	65,960	140.00	9,209,593	9,208,637	1.00			
4127	Dry Farm	290,482	46.00	13,346,159	13,352,795	1.00			
4147	Grazing	51,584	8.00	393,468	393,468	1.00			
4167	Waste	2,227	2.00	3,887	3,887	1.00			
Total/Avg		410,253	56.00	22,953,107	22,958,787	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

Phillips 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

Phillips 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 Phillips County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 20 sales listed as unqualified.

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

Conclusions

Phillips 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

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

Producing Oil and Gas

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.

§ 39-7-102, C.R.S.

Conclusions

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

Recommendations



VACANT LAND

Phillips County is exempt from the Vacant Land Subdivision Discount Study.



POSSESSORY INTEREST PROPERTIES

Possessory Interest

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

Phillips 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

Phillips 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

Phillips 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.

Phillips 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.

Phillips 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:

- Businesses in a selected area
- Accounts with obvious discrepancies
- New businesses filing for the first time
- 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 close to the \$7,000 actual value exemption status
- Accounts protested with substantial disagreement

Conclusions

Phillips 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



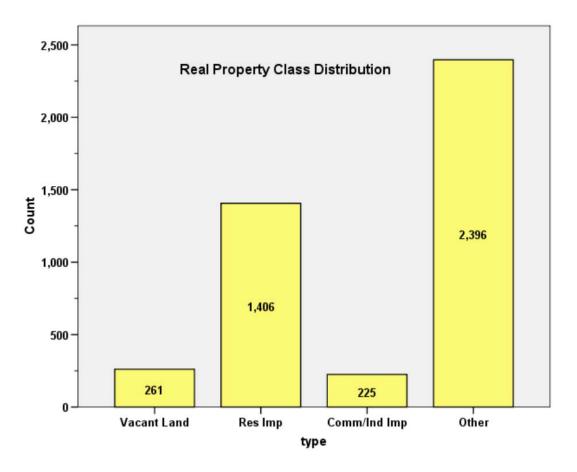
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR PHILLIPS COUNTY 2014

I. OVERVIEW

Phillips County is an agricultural county located in northeastern Colorado. The county has a total of 4,288 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:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 or 1112) accounted for 46.7% of all vacant land parcels, while mobile home land accounted for 14.2%. Based on the number of vacant land parcels in Phillips County, we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 96.6% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 5.25% 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 Phillips Assessor's Office in May 2014. The data included all 5 property record files as specified by the Auditor.

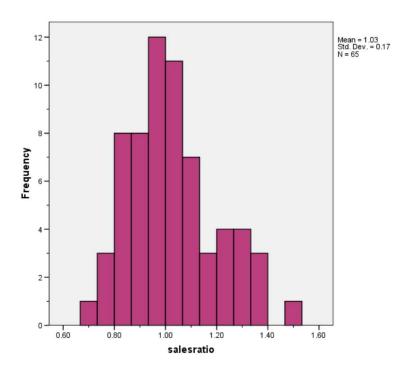
III. RESIDENTIAL SALES RESULTS

We analyzed a total of 65 residential qualified sales between July 1, 2010 and June 30, 2012.

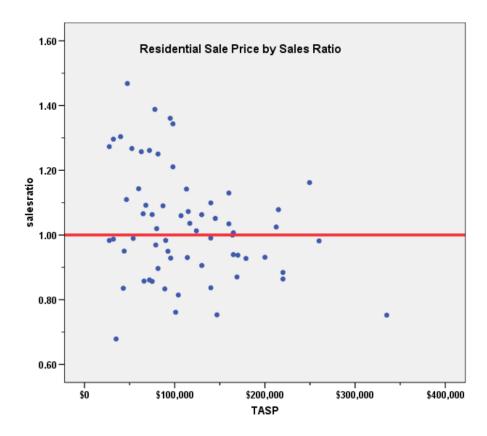
The sales ratio analysis results were as follows:

Median	1.007
Price Related Differential	1.028
Coefficient of Dispersion	.131

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

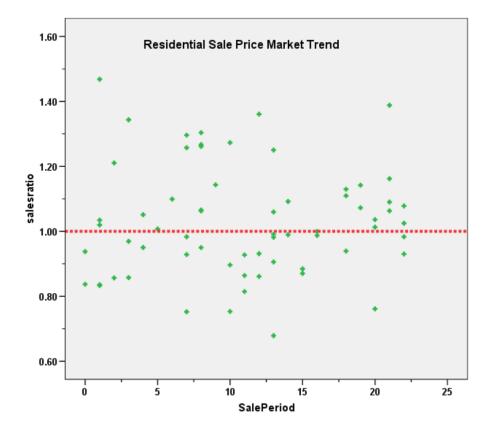
We next analyzed the residential dataset using the 24-month sale period, with the following results:

Coefficients^a

Model	I	Unstandardize	d Coefficients	Standardized Coefficients		
		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.023	.041		24.939	.000
	SalePeriod	.001	.003	.023	.179	.859

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 actual value per square foot between sold and unsold residential properties, as follows;

Group	No. Props	Median Act Val/SF	Mean Act Val/SF
Unsold	1,326	\$57	\$58
Sold	65	\$60	\$61

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

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

We analyzed a total of 21 commercial/industrial qualified sales between July 1, 2007 and June 30, 2012. We trimmed one sale, resulting in a total of 20 sales. We then augmented these sales with 10 supplemental appraisals, bringing the total to 30 properties. We used all 30 sold and appraised

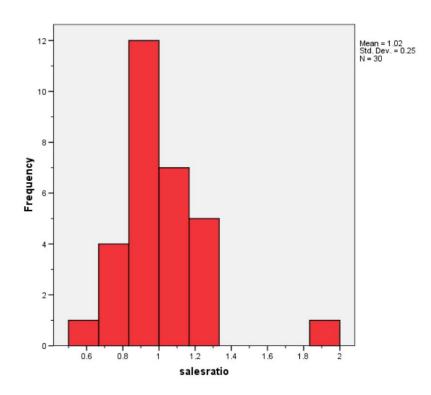


properties for the ratio analysis, and the 20 sold properties for the market trending and sold/unsold analysis.

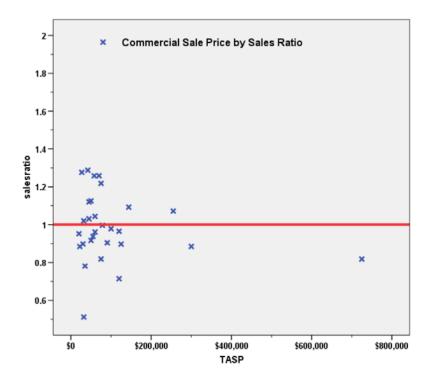
The sales ratio analysis results were as follows:

Median	0.972
Price Related Differential	1.050
Coefficient of Dispersion	.168

The above tables indicate that the Phillips 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

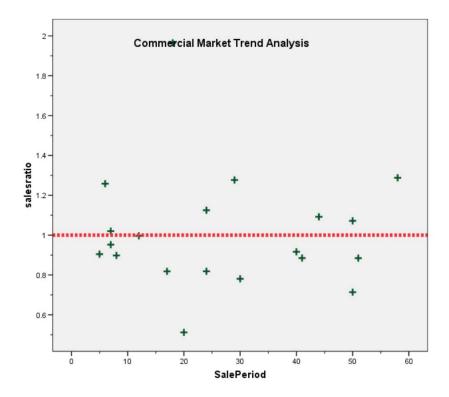
The 20 commercial sales were next analyzed, examining the sale ratios across the 5 year sale period with the following results:

Coefficients^a

ſ	Model		Unstandardized Coefficients		Standardized Coefficients		
L			В	Std. Error	Beta	t	Sig.
Γ	1	(Constant)	1.028	.128		8.046	.000
L		SalePeriod	001	.004	041	176	.862

a. Dependent Variable: salesratio





The above results indicate that there was no significant market trend residual in the commercial/industrial sale ratios.

Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial/industrial 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 and mean actual value per square foot, both groups were valued in a consistent manner:

Group	No. Props	Median Act Val/SF	Mean Act Val/SF
Unsold	203	\$20	\$34
Sold	20	\$29	\$27

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 Phillips County.



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

Descriptives Std. Error Abstrimp Statistic SFR **ImpSalSF** \$68.12 \$1.880 Mean \$64.36 95% Confidence Interval for Lower Bound Mean \$71.87 Upper Bound 5% Trimmed Mean \$68.06 Median \$65.38 236.883 Variance Std. Deviation \$15.391 Minimum \$33 Maximum \$103 Range \$71 Interquartile Range \$22 Skewness .228 .293 .427 Kurtosis .578 Αg \$65.87 \$4.037 Mean Res 95% Confidence Interval for Lower Bound \$57.57 Mean \$74.17 Upper Bound 5% Trimmed Mean \$66.59 Median \$67.26 440.115 Variance Std. Deviation \$20.979 Minimum \$16 Maximum \$103 Range \$88 Interquartile Range \$28 -.750 Skewness .448

VI. CONCLUSIONS

Kurtosis

Based on this statistical analysis, there were no significant compliance issues concluded for Phillips County as of the date of this report in terms of residential, commercial and agricultural residential properties.

495

.872



STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Con	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
1.029	.987	1.071	1.007	.969	1.063	95.4%	1.001	.960	1.042	1.028	.131	16.5%

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

Γ	95% Confidence Interval for Mean			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
	1.020	.926	1.113	.972	.905	1.072	95.7%	.971	.866	1.076	1.050	.168	24.5%

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	10	15.4%
	\$50K to \$100K	24	36.9%
	\$100K to \$150K	15	23.1%
	\$150K to \$200K	9	13.8%
	\$200K to \$300K	6	9.2%
	\$300K to \$500K	1	1.5%
Overall		65	100.0%
Excluded	1	0	
Total		65	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
\$25K to \$50K	1.049	.995	.192	23.7%
\$50K to \$100K	1.064	.999	.138	16.6%
\$100K to \$150K	1.013	1.000	.101	13.3%
\$150K to \$200K	.939	1.003	.060	9.1%
\$200K to \$300K	1.003	.997	.089	11.4%
\$300K to \$500K	.752	1.000	.000	.%
Overall	1.007	1.028	.131	17.0%



Subclass

Case Processing Summary

	Count	Percent
Abstrimp 1212	65	100.0%
Overall	65	100.0%
Excluded	0	
Total	65	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1212	1.007	1.028	.131	17.0%
Overall	1.007	1.028	.131	17.0%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	8	12.3%
	1,000 to 1,500 sf	19	29.2%
	1,500 to 2,000 sf	11	16.9%
	2,000 to 3,000 sf	24	36.9%
	3,000 sf or Higher	3	4.6%
Overall		65	100.0%
Excluded		0	
Total		65	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
500 to 1,000 sf	.967	1.029	.157	22.0%
1,000 to 1,500 sf	1.066	1.021	.137	17.9%
1,500 to 2,000 sf	1.007	1.027	.159	21.1%
2,000 to 3,000 sf	.995	1.017	.086	11.0%
3,000 sf or Higher	1.078	1.031	.127	22.1%
Overall	1.007	1.028	.131	17.0%



Improved Quality

Case Processing Summary

	Count	Percent
QUALITY 1	4	6.2%
2	27	41.5%
3	31	47.7%
4	3	4.6%
Overall	65	100.0%
Excluded	0	
Total	65	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1	.985	1.019	.152	24.6%
2	.983	1.028	.145	18.8%
3	1.025	1.036	.112	15.5%
4	.884	.992	.112	22.3%
Overall	1.007	1.028	.131	17.0%



Improved Condition

Case Processing Summary

		Count	Percent
CONDITION	1	3	4.6%
	2	19	29.2%
	3	38	58.5%
	4	5	7.7%
Overall		65	100.0%
Excluded		0	
Total		65	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1	.983	1.031	.148	23.4%
2	.991	1.018	.145	19.8%
3	1.016	1.030	.126	16.6%
4	.982	.997	.100	13.0%
Overall	1.007	1.028	.131	17.0%



Commercial/Industrial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	2	6.7%
	\$25K to \$50K	10	33.3%
	\$50K to \$100K	11	36.7%
	\$100K to \$150K	4	13.3%
	\$200K to \$300K	2	6.7%
	\$500K to \$750K	1	3.3%
Overall		30	100.0%
Excluded	I	0	
Total		30	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LT \$25K	.918	1.002	.037	5.2%
\$25K to \$50K	1.025	.990	.167	23.0%
\$50K to \$100K	.997	.999	.195	34.3%
\$100K to \$150K	.931	.991	.120	17.0%
\$200K to \$300K	.978	1.008	.096	13.5%
\$500K to \$750K	.818	1.000	.000	.%
Overall	.972	1.050	.168	26.2%



Subclass

Case Processing Summary

		Count	Percent
Abstrimp	2212	8	26.7%
	2220	8	26.7%
	2225	1	3.3%
	2230	10	33.3%
	2233	1	3.3%
	2235	2	6.7%
Overall		30	100.0%
Excluded		0	
Total		30	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
2212	.950	1.105	.210	42.2%
2220	.964	.989	.153	21.1%
2225	1.259	1.000	.000	.%
2230	1.058	1.001	.145	16.9%
2233	.905	1.000	.000	.%
2235	.952	.987	.071	10.1%
Overall	.972	1.050	.168	26.2%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1	3.3%
	500 to 1,000 sf	3	10.0%
	1,000 to 1,500 sf	5	16.7%
	1,500 to 2,000 sf	3	10.0%
	2,000 to 3,000 sf	7	23.3%
	3,000 sf or Higher	11	36.7%
Overall		30	100.0%
Excluded		0	
Total		30	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LE 500 sf	.952	1.000	.000	.%
500 to 1,000 sf	.781	1.003	.165	26.6%
1,000 to 1,500 sf	1.031	1.006	.139	19.0%
1,500 to 2,000 sf	1.044	1.005	.058	8.8%
2,000 to 3,000 sf	1.125	1.019	.131	16.6%
3,000 sf or Higher	.965	1.092	.180	34.8%
Overall	.972	1.050	.168	26.2%



Improved Quality

Case Processing Summary

	Count	Percent
QUALITY 2	19	63.3%
3	10	33.3%
4	1	3.3%
Overall	30	100.0%
Excluded	0	
Total	30	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
2	.938	1.057	.152	20.7%
3	1.058	1.007	.178	31.0%
4	1.092	1.000	.000	.%
Overall	.972	1.050	.168	26.2%



Improved Condition

Case Processing Summary

		Count	Percent
CONDITION	1	5	16.7%
	2	8	26.7%
	3	16	53.3%
	4	1	3.3%
Overall		30	100.0%
Excluded		0	
Total		30	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1	1.020	.985	.073	11.4%
2	.981	1.042	.189	38.9%
3	.965	1.074	.189	23.6%
4	.897	1.000	.000	.%
Overall	.972	1.050	.168	26.2%