



2010
MESA 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

TABLE OF CONTENTS

Introduction	3
Regional/Historical Sketch of Mesa County	4
Ratio Analysis.....	6
<i>Random Deed Analysis</i>	7
Time Trending Verification	8
Sold/Unsold Analysis	9
Agricultural Land Study	11
<i>Agricultural Land</i>	11
<i>Agricultural Outbuildings</i>	13
Sales Verification.....	14
Economic Area Review and Evaluation	15
Natural Resources	16
<i>Earth and Stone Products</i>	16
<i>Producing Oil and Gas Procedures</i>	16
Vacant Land.....	17
Possessory Interest Properties	18
Personal Property Audit	19
Wildrose Auditor Staff.....	21
Appendices.....	22

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 Mesa County in the following report.

REGIONAL / HISTORICAL SKETCH OF MESA COUNTY

Regional Information

Mesa County is located in the Western Slope region of Colorado. The Western Slope of Colorado refers to the region west of the Rocky Mountains. It includes Archuleta, Delta, Dolores, Eagle, Garfield, Grand,

Gunnison, Hinsdale, Jackson, La Plata, Mesa, Moffat, Montezuma, Montrose, Ouray, Pitkin, Rio Blanco, Routt, San Juan, San Miguel, and Summit counties.





Historical Information

Mesa County has a population of approximately 146,093 people with 34.9 people per square mile, according to the U.S. Census Bureau's 2009 estimated population data.

The County, formed from a portion of Gunnison County, was established in 1883 with an area of 3,301 square miles. Its name is Spanish for “table” and refers to the tablelands and plateaus prevalent in the county. The county seat is Grand Junction, so named for its location at the junction of the Gunnison and Grand (later Colorado) rivers. The Grand Mesa National Forest encompasses the Grand Mesa, which is one of the world's largest flattop mountains and has an average elevation of 10,000 feet, dotted with over 300 alpine lakes and reservoirs. The Uncompahgre National Forest includes the Uncompahgre Plateau, portions of the San Juan Mountains and three wilderness areas.

Grand Junction which sits near the mid-point of a 30-mile arcing valley, known as the Grand Valley, is a major fruit-growing region, historically home to the Ute people and settled by white farmers in the 1880s. In recent years,

several wineries have been established in the area as well. The Colorado National Monument, a series of canyons and mesas similar to the Grand Canyon, overlooks the city, while most of the area is surrounded by public lands managed by the Bureau of Land Management.

Grand Junction has a strong history that dates back more than 100 years. In the 1880s, the area was part of the Northern Ute Reservation, although the Native Americans were later moved west into Utah. In September 1881, the area experienced a land rush settlement and a town site was staked. This town, located in the Grand Valley, was first called Ute, then West Denver and finally came to be known as Grand Junction.

By 1883, Mesa County was created from neighboring counties and Grand Junction was named the county seat. Grand Junction began to thrive when the main line of the Denver and Rio Grande Railroad came into the area in 1887. Soon after, major irrigation turned the Grand Valley into a fertile agricultural area.

(www.rootsweb.com, www.gjchamber.org, Wikipedia.org)

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 Mesa County are:

Mesa County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	165	0.980	1.038	11.5	Compliant
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	5,755	0.984	1.009	6.7	Compliant
Vacant Land	744	0.979	1.087	15.2	Compliant

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
10	.970	1.022	.113
12	.979	1.011	.082
15	.985	1.004	.080
19	.980	1.004	.062
22	.985	1.021	.059
25	.980	1.006	.070
27	.987	1.005	.057
29	.979	1.012	.074
30	.988	1.003	.045
31	.994	1.017	.108
Overall	.984	1.009	.067

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

Mesa 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

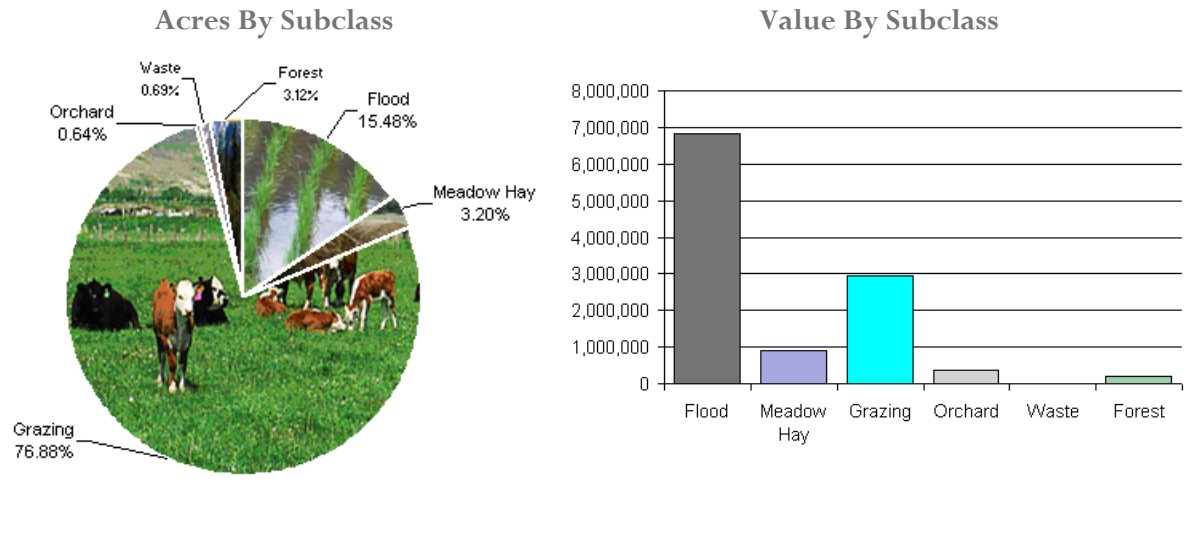
Conclusions

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

Recommendations

None

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 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:

Mesa County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4117	Flood	67,897	100.77	6,841,977	6,579,098	1.04
4137	Meadow Hay	14,018	65.60	919,594	919,209	1.00
4147	Grazing	337,180	8.70	2,933,477	2,933,477	1.00
4157	Orchard	2,827	127.57	360,627	360,627	1.00
4177	Forest	13,663	14.01	191,103	191,103	1.00
4167	Waste	3,011	1.62	4,863	4,863	1.00
Total/Avg		438,596	25.65	11,251,641	10,988,376	1.02

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

Mesa 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 Mesa 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 45 sales listed as unqualified.

All but four of the sales selected in the sample gave reasons that were clear and supportable. Four sales had insufficient documentation.

Conclusions

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

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

Producing Oil and Gas Procedures

Methodology

Assessors Reference Library (ARL) Volume 3, Chapter 6: Valuation of Natural Resources

STATUTORY REFERENCES

Section § 39-1-103, C.R.S., specifies that producing oil or gas leaseholds and lands are valued according to article 7 of title 39, C.R.S.

Actual value determined - when.

(2) The valuation for assessment of leaseholds and lands producing oil or gas shall be determined as provided in article 7 of this title.

§ 39-1-103, C.R.S.

Article 7 covers the listing, valuation, and assessment of producing oil and gas leaseholds and lands.

Valuation:

Valuation for assessment.

(1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:

(a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;

(b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year.

§ 39-7-102, C.R.S.

Conclusions

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

Recommendations

None

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2010 in Mesa 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

Mesa 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.

Mesa 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

Mesa 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

Mesa 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.

Mesa 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

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.

Mesa 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
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Same business type or use
- Non-filing Accounts - Best Information Available
- Accounts close to the \$4,000 actual value exemption status



- Accounts protested with substantial disagreement

Mesa County's median ratio is 1.00. This is in compliance with the State Board of Equalization (SBOE) compliance requirements which range from .90 to 1.10 with no COD requirements.

Conclusions

Mesa 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*

Suzanne Howard, *Audit Administrative Manager*

Steve Kane, *Audit Statistician / Field Analyst*

Carl W. Ross, *Agricultural / Natural Resource Analyst*

J. Andrew Rodriguez, *Field Analyst*

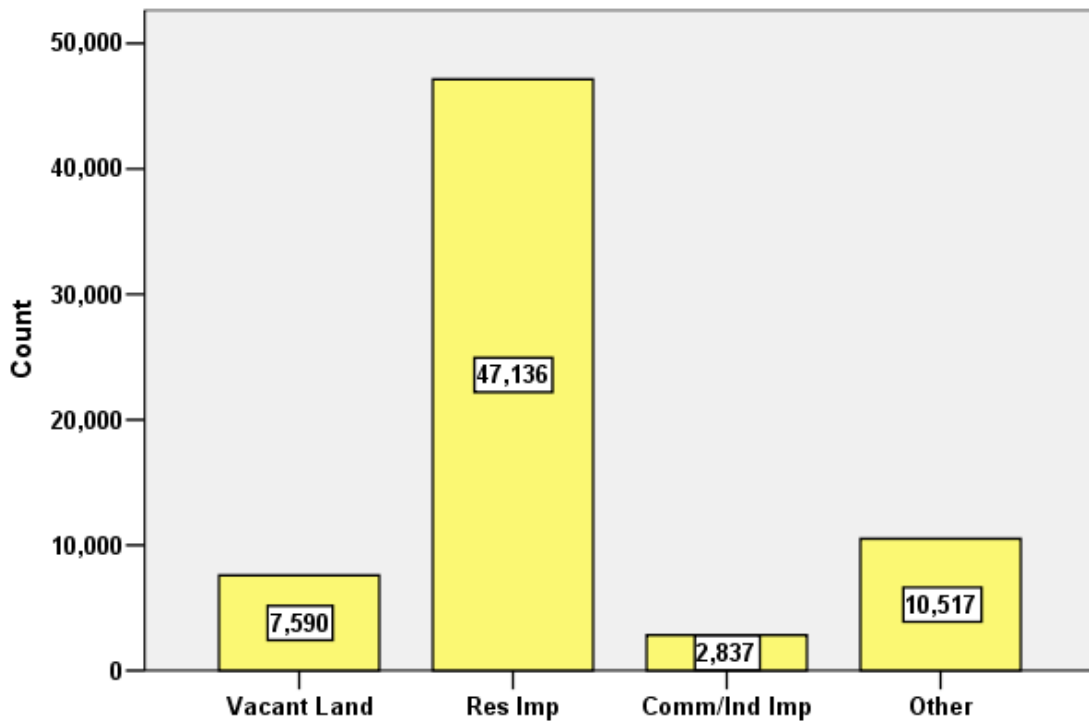
APPENDICES

STATISTICAL COMPLIANCE REPORT FOR MESA COUNTY 2010

I. OVERVIEW

Mesa County is an urban county located along Colorado’s western slope. The county has a total of 68,080 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 commercial lots. These land subclasses (coded 100 and 200) accounted for 61% of all vacant land parcels.

For residential improved properties, single family properties accounted for 93% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 4% 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 Mesa Assessor’s Office in May 2010. The data included all 5 property record files as specified by the Auditor. A separate sale file for residential sales in Economic Area 10 was provided as well.

III. RESIDENTIAL SALES RESULTS

The following steps were taken to analyze the residential sales:

- | | |
|----------------------------------|--------|
| 1. All sales | 10,835 |
| 2. Qualified sales | 7,254 |
| 3. Improved sales | 6,093 |
| 4. Select residential sales only | 5,755 |

The sales ratio analysis results were as follows:

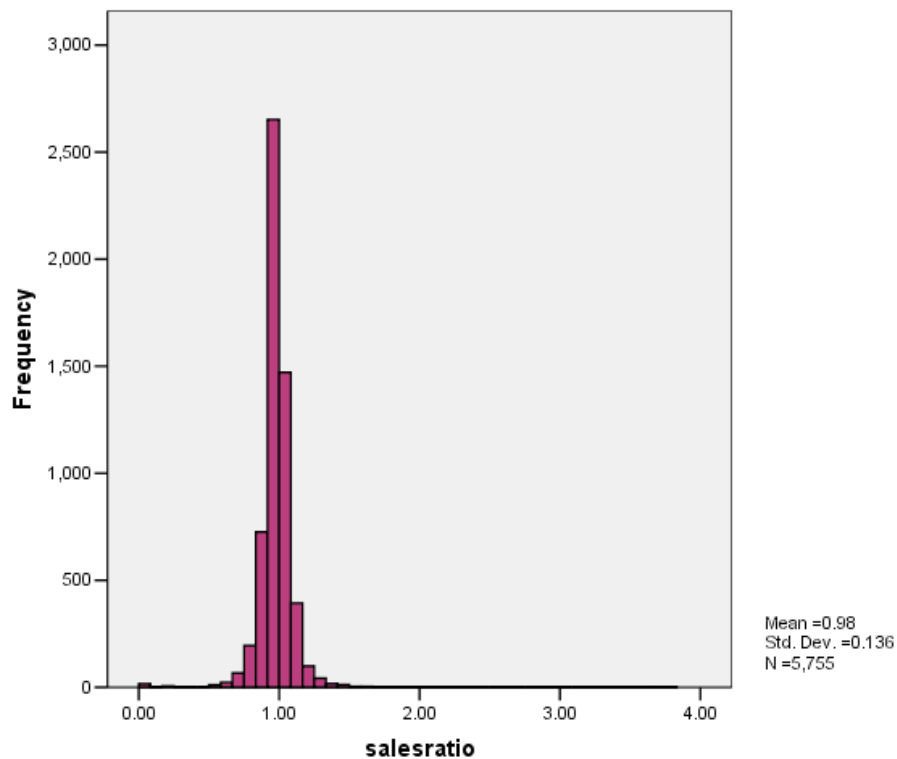
Case Processing Summary

	Count	Percent
ECONAREA 10	157	2.9%
12	428	7.8%
15	879	16.0%
19	747	13.6%
22	945	17.3%
25	131	2.4%
27	745	13.6%
29	560	10.2%
30	767	14.0%
31	118	2.2%
Overall	5477	100.0%
Excluded	278	
Total	5755	

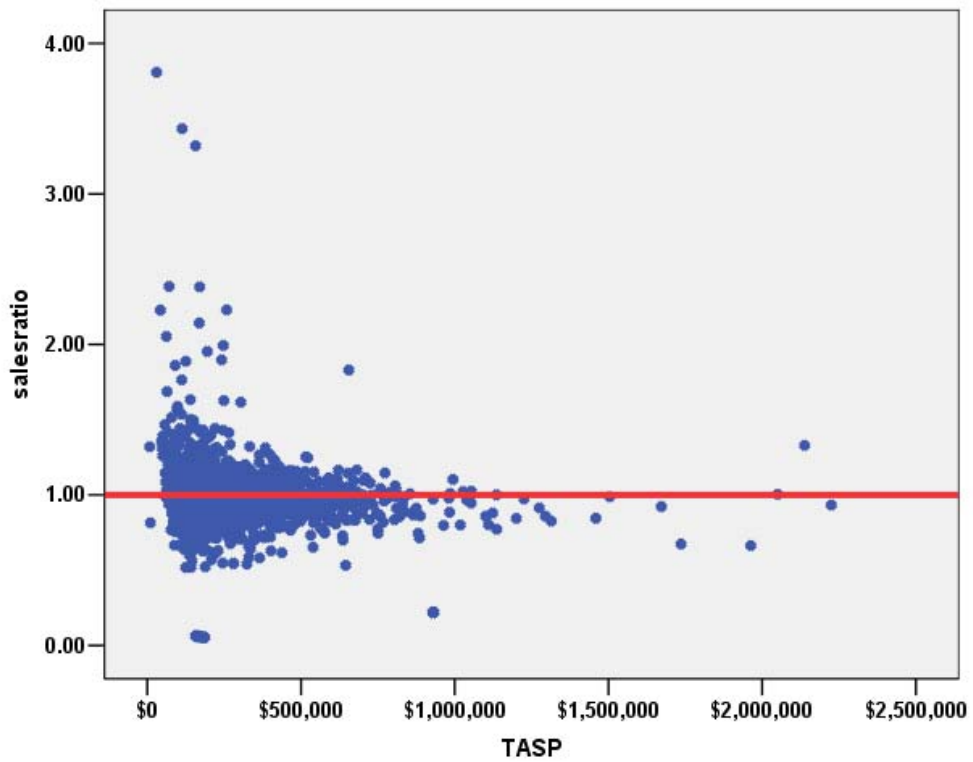
Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
10	.970	1.022	.113
12	.979	1.011	.082
15	.985	1.004	.080
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25	.980	1.006	.070
27	.987	1.005	.057
29	.979	1.012	.074
30	.988	1.003	.045
31	.994	1.017	.108
Overall	.984	1.009	.067

All of the residential sales in economic areas were within the median sales ratio compliance range of 0.95 to 1.05. 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.

Residential Market Trend Analysis

We next analyzed the residential dataset using the 18-month sale period for any residual market trending and broken down by economic area, as follows:

Coefficients^a

ECONAREA	Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
			B	Std. Error	Beta		
.	1	(Constant)	.876	.034		25.594	.000
		SalePeriod	.005	.003	.082	1.366	.173
10	1	(Constant)	.971	.024		41.115	.000
		SalePeriod	.000	.002	.008	.104	.917
12	1	(Constant)	.968	.012		79.707	.000
		SalePeriod	.003	.001	.123	2.560	.011
15	1	(Constant)	.966	.011		84.401	.000
		SalePeriod	.001	.001	.027	.799	.424
19	1	(Constant)	.984	.007		131.692	.000
		SalePeriod	.000	.001	.010	.277	.782
22	1	(Constant)	.997	.007		143.496	.000
		SalePeriod	-.002	.001	-.080	-2.459	.014
25	1	(Constant)	.956	.018		52.714	.000
		SalePeriod	.001	.002	.070	.793	.429
27	1	(Constant)	1.000	.008		129.222	.000
		SalePeriod	-.001	.001	-.035	-.945	.345
29	1	(Constant)	.972	.012		77.941	.000
		SalePeriod	.002	.001	.053	1.263	.207
30	1	(Constant)	.987	.005		216.564	.000
		SalePeriod	.001	.000	.059	1.628	.104
31	1	(Constant)	.981	.036		27.019	.000
		SalePeriod	.003	.003	.090	.969	.334

a. Dependent Variable: salesratio

The sales ratios in all economic areas either had insignificant trends statistically, or had trends with insignificant monthly rates. This indicates that the assessor has adequately considered market trending in the residential valuation of Mesa County.

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	N	Median	Mean
Unsold	41,399	\$151	\$151
Sold	5,737	\$153	\$151

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

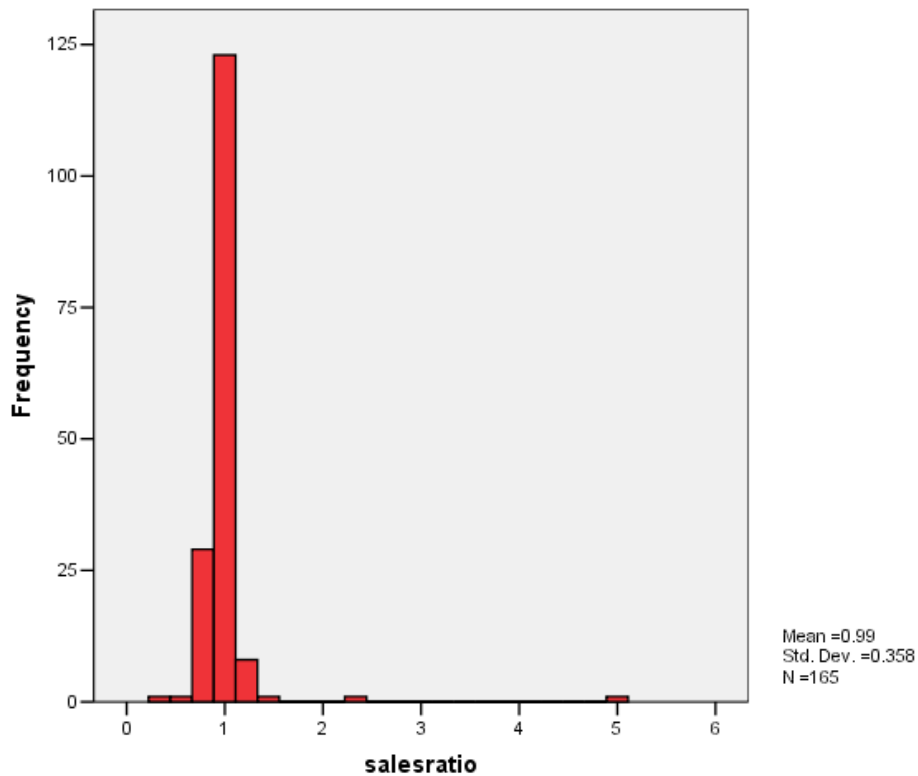
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

1. All sales	10,835
2. Qualified sales	7,254
3. Improved sales	6,093
4. Select commercial/industrial sales only	165

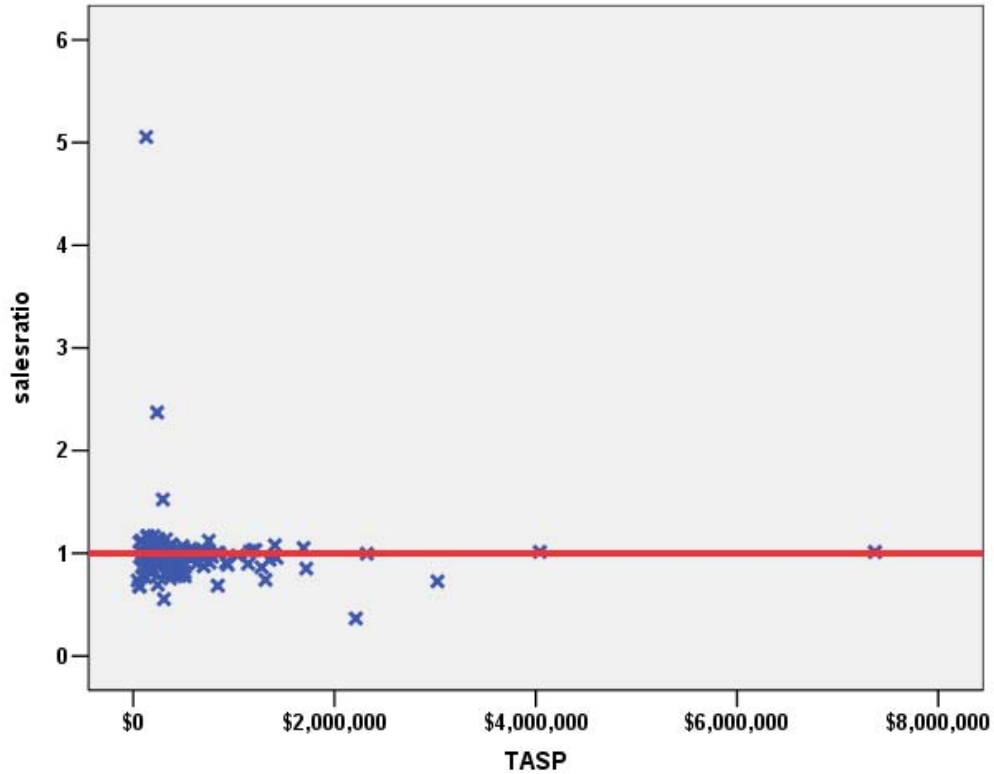
The sales ratio analysis results were as follows:

Median	0.980
Price Related Differential	1.038
Coefficient of Dispersion	.115

The above table indicates that the Mesa County commercial/industrial sales 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/Industrial Market Trend Analysis

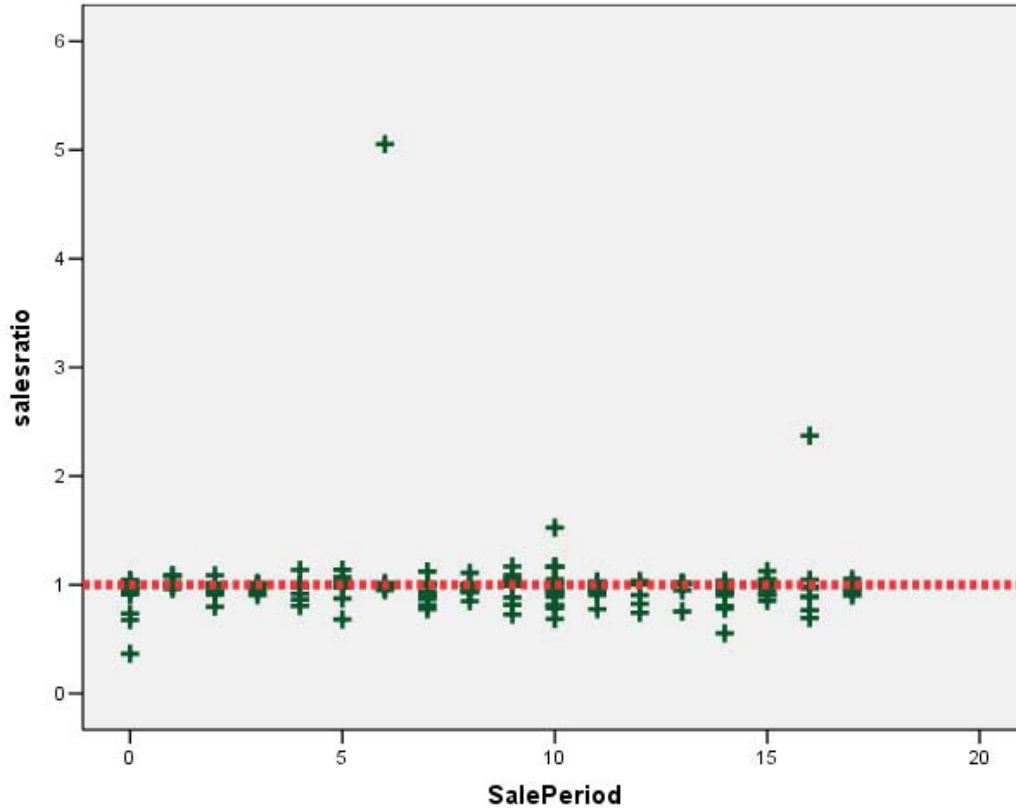
The 165 commercial/industrial sales were next analyzed for residual market trending. We examined the sales ratios across the 18-month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.991	.056		17.705	.000
	SalePeriod	.000	.006	-.004	-.048	.962

a. Dependent Variable: salesratio

Commercial Market Trend Analysis



There was no residual market trending present in the commercial sale ratios. We concluded that the assessor has adequately considered market trending adjustments as part of the commercial/industrial valuation.

Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if sold and unsold properties were valued consistently, as follows:

Group	N	Median	Mean
Unsold	2,645	\$99	\$119
Sold	165	\$115	\$130

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

V. VACANT LAND SALE RESULTS

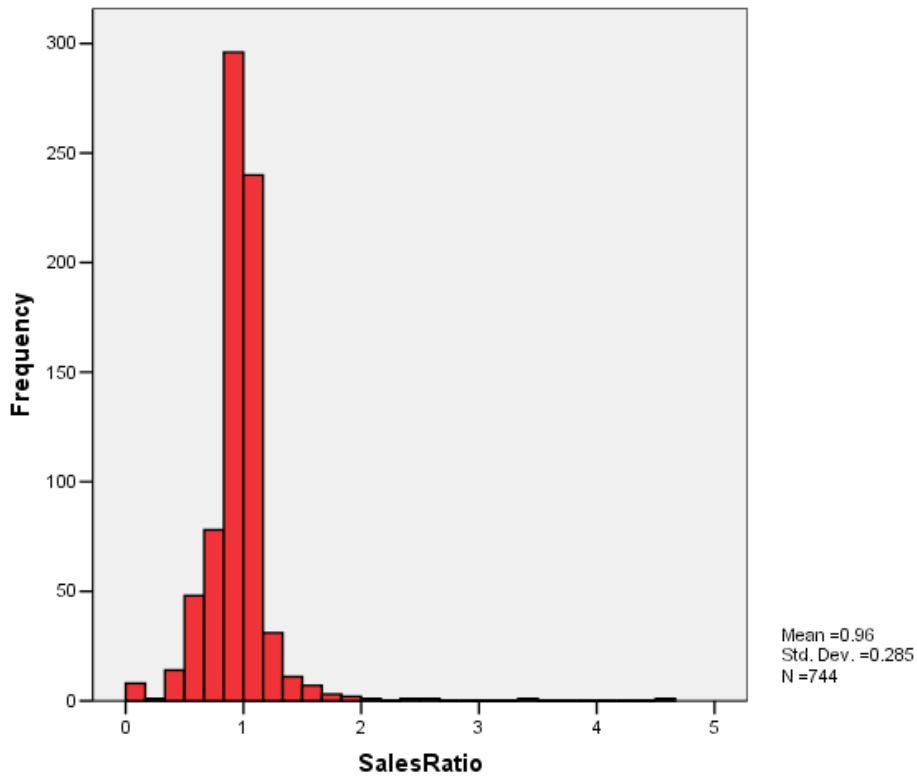
The following steps were taken to analyze the vacant land sales:

- | | |
|---|--------|
| 1. All sales | 10,835 |
| 2. Qualified sales | 7,254 |
| 3. Vacant land sales | 871 |
| 4. Residential & commercial/ind vacant land sales | 744 |

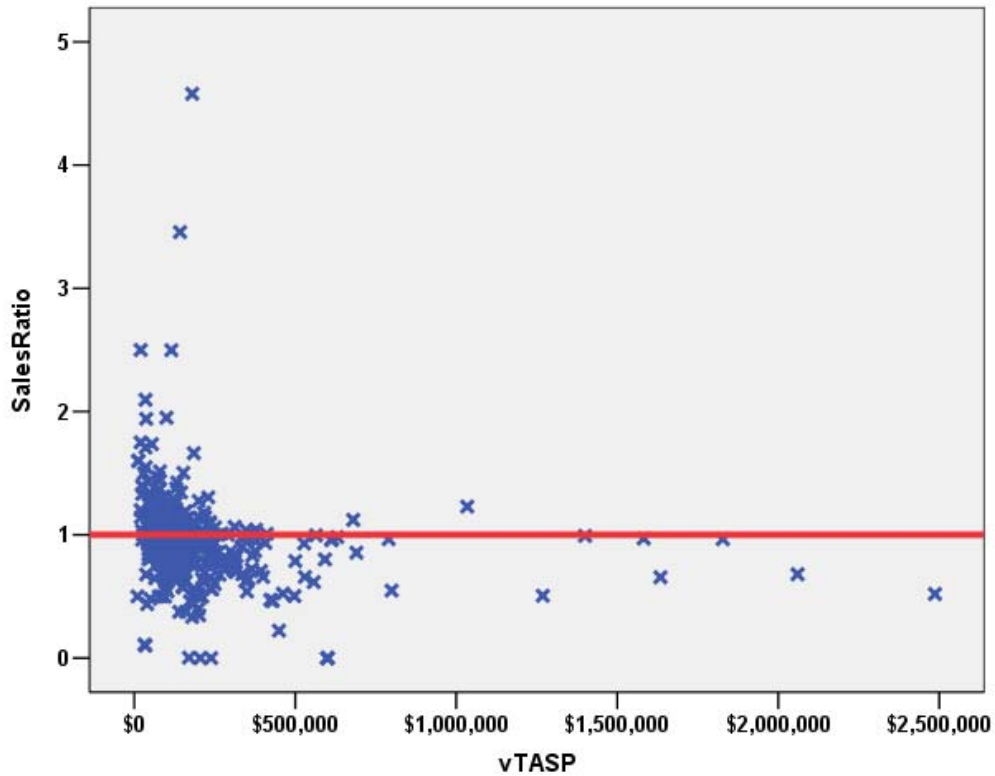
The sales ratio analysis results were as follows:

Median	0.979
Price Related Differential	1.087
Coefficient of Dispersion	.152

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



Vacant Land Sale Price by Sales Ratio



The above histogram indicates that the distribution of the vacant land sale ratios was within state mandated limits. No sales were trimmed.

Vacant Land Market Trend Analysis

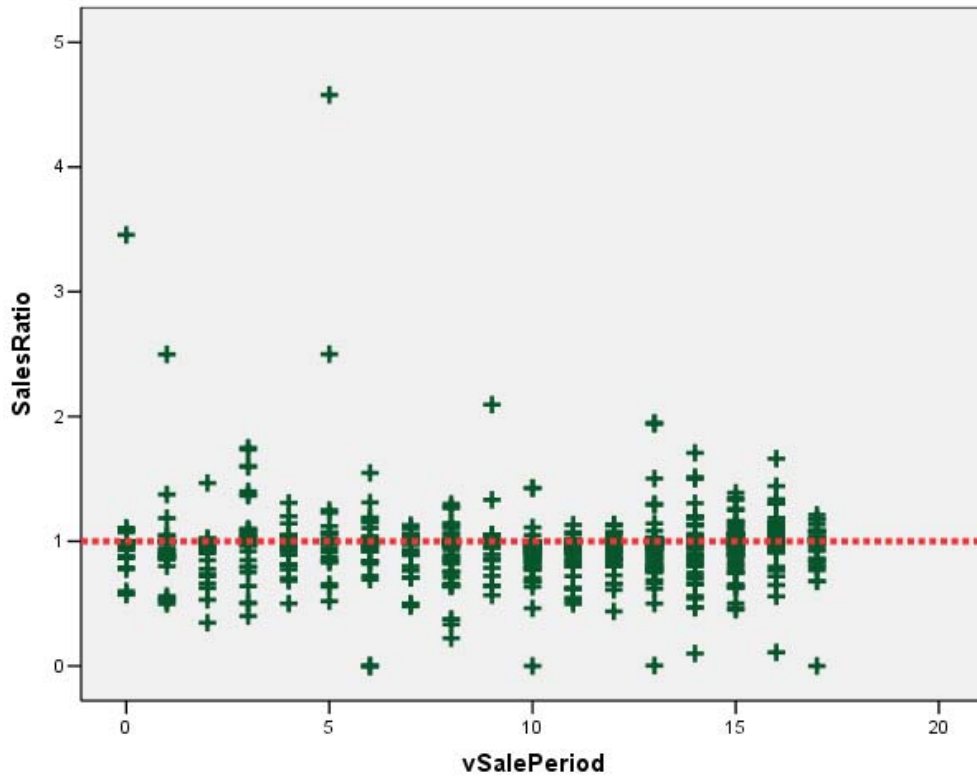
We next analyzed the vacant land dataset using the 18-month sale period, with the following results:

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.964	.024		40.546	.000
	vSalePeriod	-.001	.002	-.010	-.275	.783

a. Dependent Variable: SalesRatio

Vacant Land Sales Market Trend Analysis



The above analysis indicated that no significant market trending was present in the vacant land sale data. We concluded that the assessor has adequately dealt with market trending for vacant land properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold vacant land properties, we compared the median change in value between 2009 and 2010 values, as follows:

Group	N	Median	Mean
Unsold	7,058	1.000	1.006
Sold	732	1.000	1.005

Overall, we concluded that the county assessor valued sold and unsold vacant land properties consistently.

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

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

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

Descriptives

abstrimp			Statistic	Std. Error	
ImpValSF	1212	Mean	\$103.63	\$.127	
		95% Confidence Interval for Mean	\$103.38		
		Lower Bound			
		Upper Bound	\$103.88		
		5% Trimmed Mean	\$104.12		
		Median	\$105.51		
		Variance	709.161		
		Std. Deviation	\$26.630		
		Minimum	\$0		
		Maximum	\$361		
		Range	\$361		
		Interquartile Range	\$29		
		Skewness	-.075		.012
		Kurtosis	3.464		.023
	4277	Mean	\$107.70	\$.657	
		95% Confidence Interval for Mean	\$106.41		
		Lower Bound			
		Upper Bound	\$108.99		
		5% Trimmed Mean	\$107.21		
		Median	\$107.39		
		Variance	1612.347		
		Std. Deviation	\$40.154		
		Minimum	\$1		
		Maximum	\$726		
		Range	\$725		
		Interquartile Range	\$47		
		Skewness	1.761		.040
		Kurtosis	21.782		.080

VI. Conclusions

Based on this 2010 audit statistical analysis, residential, commercial/industrial and vacant land properties were found to be in compliance with state guidelines.



STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean		.982
95% Confidence Interval for Mean	Lower Bound	.979
	Upper Bound	.986
Median		.983
95% Confidence Interval for Median	Lower Bound	.981
	Upper Bound	.984
	Actual Coverage	95.2%
Weighted Mean		.974
95% Confidence Interval for Weighted Mean	Lower Bound	.970
	Upper Bound	.978
Price Related Differential		1.009
Coefficient of Dispersion		.073
Coefficient of Variation	Mean Centered	13.9%

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 Land

Ratio Statistics for CURRTOT / TASP

Mean		.988
95% Confidence Interval for Mean	Lower Bound	.933
	Upper Bound	1.043
Median		.980
95% Confidence Interval for Median	Lower Bound	.962
	Upper Bound	.990
	Actual Coverage	95.7%
Weighted Mean		.952
95% Confidence Interval for Weighted Mean	Lower Bound	.910
	Upper Bound	.994
Price Related Differential		1.038
Coefficient of Dispersion		.115
Coefficient of Variation	Mean Centered	36.2%

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		.821
95% Confidence Interval for Mean	Lower Bound	.792
	Upper Bound	.849
Median		.957
95% Confidence Interval for Median	Lower Bound	.944
	Upper Bound	.967
	Actual Coverage	95.1%
Weighted Mean		.678
95% Confidence Interval for Weighted Mean	Lower Bound	.629
	Upper Bound	.727
Price Related Differential		1.210
Coefficient of Dispersion		.278
Coefficient of Variation	Mean Centered	51.8%

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	2	.0%
	\$25K to \$50K	6	.1%
	\$50K to \$100K	127	2.2%
	\$100K to \$150K	513	8.9%
	\$150K to \$200K	1300	22.6%
	\$200K to \$300K	2558	44.4%
	\$300K to \$500K	1008	17.5%
	\$500K to \$750K	176	3.1%
	\$750K to \$1,000K	41	.7%
	Over \$1,000K	24	.4%
Overall		5755	100.0%
Excluded		0	
Total		5755	



Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LT \$25K	1.068	1.035	.237	33.5%
\$25K to \$50K	1.372	1.081	.426	84.2%
\$50K to \$100K	1.031	1.010	.155	24.0%
\$100K to \$150K	.985	1.003	.110	19.1%
\$150K to \$200K	.981	1.000	.087	17.1%
\$200K to \$300K	.986	1.000	.055	8.7%
\$300K to \$500K	.976	1.001	.058	8.6%
\$500K to \$750K	.969	1.000	.079	12.3%
\$750K to \$1,000K	.912	1.012	.192	31.2%
Over \$1,000K	.919	.995	.107	14.8%
Overall	.983	1.009	.073	13.8%

Subclass

Case Processing Summary

	Count	Percent
PredUse 1212	5250	91.2%
1215	62	1.1%
1220	51	.9%
1225	2	.0%
1230	390	6.8%
Overall	5755	100.0%
Excluded	0	
Total	5755	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1212	.984	1.009	.070	12.8%
1215	.980	1.025	.114	26.1%
1220	.976	1.032	.099	13.4%
1225	.968	1.003	.008	1.2%
1230	.979	1.020	.111	22.2%
Overall	.983	1.009	.073	13.8%

Age

Case Processing Summary

		Count	Percent
AgeRec	0	18	.3%
	Over 100	121	2.1%
	75 to 100	148	2.6%
	50 to 75	552	9.6%
	25 to 50	1444	25.1%
	5 to 25	1758	30.5%
	5 or Newer	1714	29.8%
Overall		5755	100.0%
Excluded		0	
Total		5755	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.061	2.626	1.888	588.6%
Over 100	.954	1.029	.116	15.4%
75 to 100	.958	1.014	.108	15.1%
50 to 75	.977	1.007	.092	14.9%
25 to 50	.980	1.006	.075	10.9%
5 to 25	.983	1.009	.066	12.6%
5 or Newer	.989	1.014	.058	13.7%
Overall	.983	1.009	.073	13.8%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	0	18	.3%
	LE 500 sf	2	.0%
	500 to 1,000 sf	523	9.1%
	1,000 to 1,500 sf	2232	38.8%
	1,500 to 2,000 sf	1802	31.3%
	2,000 to 3,000 sf	935	16.2%
	3,000 sf or Higher	243	4.2%
Overall		5755	100.0%
Excluded		0	
Total		5755	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.061	2.626	1.888	588.6%
LE 500 sf	1.002	1.000	.023	3.2%
500 to 1,000 sf	.968	1.015	.095	13.9%
1,000 to 1,500 sf	.981	1.014	.069	13.2%
1,500 to 2,000 sf	.987	1.005	.061	9.7%
2,000 to 3,000 sf	.986	1.012	.070	15.0%
3,000 sf or Higher	.983	1.025	.103	19.7%
Overall	.983	1.009	.073	13.8%

Quality

Case Processing Summary

	Count	Percent
QUAL 1	4	.1%
2	118	2.1%
3	4718	82.2%
4	803	14.0%
5	84	1.5%
6	8	.1%
7	1	.0%
8	1	.0%
Overall	5737	100.0%
Excluded	18	
Total	5755	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1	.823	1.053	.118	19.4%
2	.966	1.041	.153	22.6%
3	.983	1.009	.070	12.7%
4	.988	1.010	.062	12.5%
5	.983	1.021	.076	10.7%
6	.997	1.022	.039	5.7%
7	1.004	1.000	.000	.
8	1.329	1.000	.000	.
Overall	.983	1.010	.071	12.9%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	1	.6%
	\$50K to \$100K	9	5.5%
	\$100K to \$150K	18	10.9%
	\$150K to \$200K	21	12.7%
	\$200K to \$300K	19	11.5%
	\$300K to \$500K	52	31.5%
	\$500K to \$750K	20	12.1%
	\$750K to \$1,000K	8	4.8%
	Over \$1,000K	17	10.3%
Overall		165	100.0%
Excluded		0	
Total		165	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$25K to \$50K	.735	1.000	.000	.
\$50K to \$100K	.960	.993	.133	18.3%
\$100K to \$150K	.984	.992	.299	100.8%
\$150K to \$200K	.968	1.002	.061	7.6%
\$200K to \$300K	1.013	.996	.160	35.2%
\$300K to \$500K	.965	.998	.075	10.7%
\$500K to \$750K	.989	.997	.048	7.7%
\$750K to \$1,000K	.938	1.004	.094	13.4%
Over \$1,000K	.981	.996	.114	19.1%
Overall	.980	1.038	.115	36.5%

Subclass

Case Processing Summary

	Count	Percent
PredUse 2212	26	15.8%
2215	6	3.6%
2220	13	7.9%
2230	45	27.3%
2235	6	3.6%
2240	3	1.8%
2245	39	23.6%
3212	10	6.1%
3215	3	1.8%
3225	1	.6%
3230	13	7.9%
Overall	165	100.0%
Excluded	0	
Total	165	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
2212	.986	.991	.058	8.1%
2215	1.010	1.029	.054	12.6%
2220	.980	1.046	.157	41.5%
2230	.949	1.060	.202	66.7%
2235	.985	.979	.045	5.4%
2240	.978	1.000	.013	2.3%
2245	.989	1.018	.082	12.9%
3212	.941	1.016	.078	12.0%
3215	.973	.974	.058	11.7%
3225	.366	1.000	.000	.
3230	.962	.991	.071	10.7%
Overall	.980	1.038	.115	36.5%

Vacant Land Median Ratio Stratification

Case Processing Summary

	Count	Percent
vPredUse 100	186	25.0%
200	35	4.7%
300	18	2.4%
510	2	.3%
520	8	1.1%
530	5	.7%
540	5	.7%
550	17	2.3%
600	8	1.1%
1112	2	.3%
1135	5	.7%
1212	431	57.9%
1215	2	.3%
1225	1	.1%
1235	4	.5%
2230	5	.7%
2245	3	.4%
3212	6	.8%
3215	1	.1%
Overall	744	100.0%
Excluded	0	
Total	744	

Ratio Statistics for CURRLND / vTASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
100	.932	1.041	.174	24.4%
200	1.000	1.180	.099	15.6%
300	.959	1.086	.177	24.9%
510	.361	1.005	.039	5.5%
520	.580	1.309	.509	62.9%
530	.862	1.092	.288	52.8%
540	1.008	1.083	.149	23.8%
550	1.108	1.148	.375	51.1%
600	.885	1.047	.251	42.2%
1112	2.895	.914	.581	82.2%
1135	1.005	1.113	.114	17.8%
1212	.989	1.030	.110	22.2%
1215	.879	.995	.058	8.2%
1225	.757	1.000	.000	.
1235	.918	1.012	.089	11.8%
2230	.964	.975	.096	17.0%
2245	.000	.	.	.
3212	1.013	.959	.136	16.9%
3215	.991	1.000	.000	.
Overall	.979	1.087	.152	29.2%