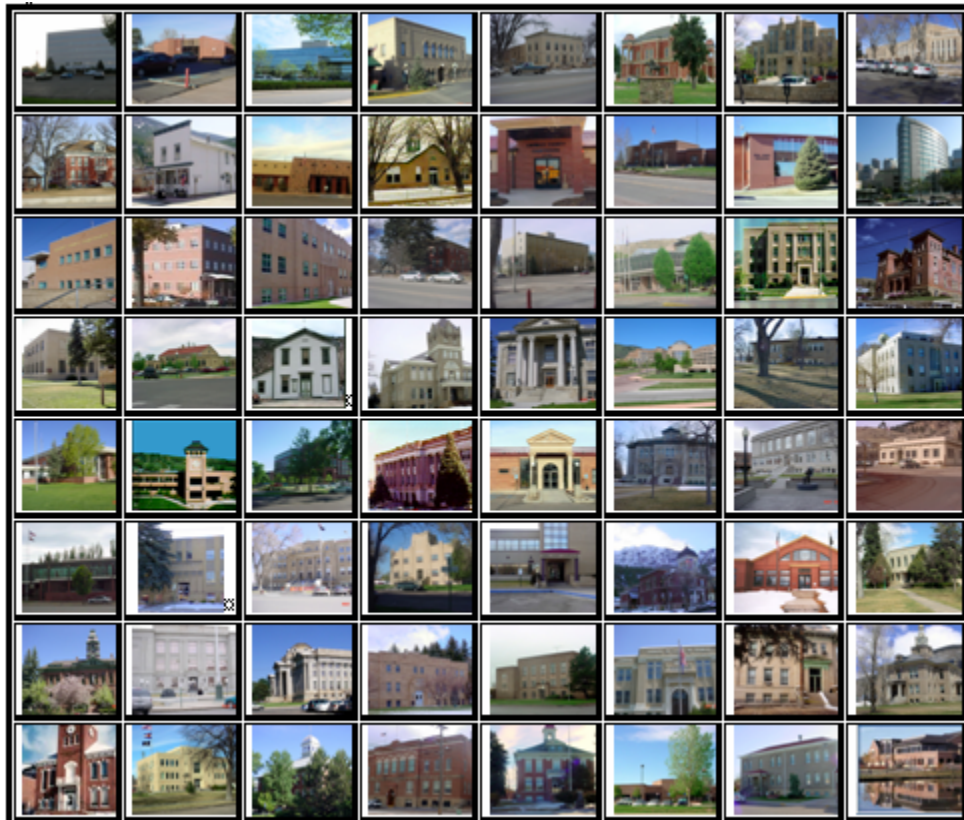




2009
MONTEZUMA COUNTY
PROPERTY ASSESSMENT
STUDY



WILDROSE
APPRAISAL, INCORPORATED
Audit Division



September 15, 2009

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

RE: Final Report for the 2009 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2009 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, flowing style.

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

TABLE OF CONTENTS

Introduction	3
Regional/Historical Sketch of Montezuma 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.....	18
Possessory Interest Properties	19
Personal Property Audit	20
Wildrose Auditor Staff.....	22
Appendices.....	23

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 2009 and is pleased to report its findings for Montezuma County in the following report.

REGIONAL / HISTORICAL SKETCH OF MONTEZUMA COUNTY

Regional Information

Montezuma 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

Montezuma County has a population of approximately 25,217 people with 11.7 people per square mile, according to the U.S. Census Bureau's 2006 estimated population data.

Montezuma County is the southwesternmost of the 64 Colorado counties and is where the San Juan Mountains meet the desert canyon country. The elevation ranges from 6,200 feet in Cortez to approximately 7,000 feet in Mancos and Dolores.

Mesa Verde National Park, Canyon of the Ancients National Monument, Yucca House National Monument, and Hovenweep National Monument preserve hundreds of ancient AmerIndian structures, including the famous cliff-dwellings, found in the county. Montezuma County is also home to most of the Ute Mountain Indian Reservation, home of the Weeminuche Band of the Ute Nation, known as the Ute Mountain Ute Tribe, with its headquarters at Towaoc.

Montezuma County has been settled since approximately AD 600, and had an estimated population of approximately 100,000, four times its current population, in the 1100s. A series of events, however, caused virtually all permanent settlements to be abandoned between 1200 and 1300, and the area was contested between nomadic Ute and Navajo bands until resettlement occurred in the 1870s. Montezuma County was created out of the western portion of La Plata County by the Colorado Legislature in April, 1889. It was named in honor of a famous chief of the Aztec Indians in Mexico. The building ruins in Mesa Verde National Park were thought to be of Aztec origin at the time.

The City of Cortez is a Home Rule Municipality and is the county seat. (www.Wikipedia.org & theusgenweb.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 Montezuma County are:

Montezuma County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	28	1.010	1.036	5.6	Compliant
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	355	0.973	1.006	13.2	Compliant
Vacant Land	65	0.990	0.988	14	Compliant

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

Montezuma 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 2008 and 2009 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

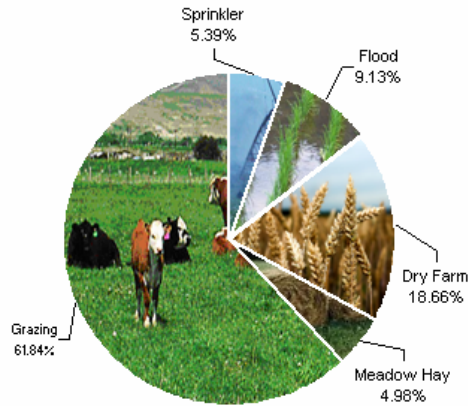
After applying the above described methodologies, it is concluded that Montezuma County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

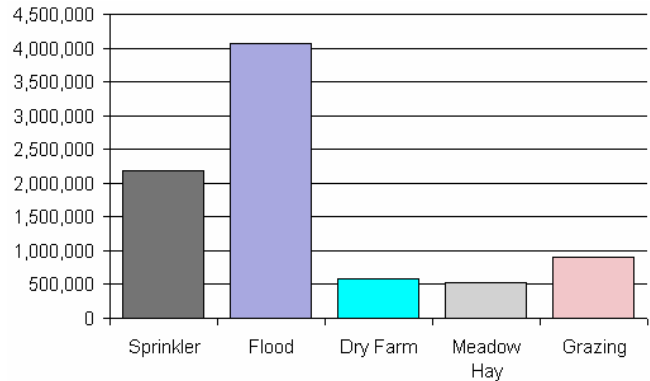
None

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:

Montezuma 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	16,212	134.50	2,180,518	2,066,724	1.06
4117	Flood	27,455	148.37	4,073,624	4,021,523	1.01
4127	Dry Farm	56,100	10.57	593,068	607,598	0.98
4137	Meadow Hay	14,963	35.81	535,843	535,843	1.00
4147	Grazing	185,959	4.86	903,375	903,375	1.00
Total/Avg		300,689	27.56	8,286,429	8,135,063	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

Montezuma 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 2009 for Montezuma 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 30 sales listed as unqualified.

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

Conclusions

Montezuma 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

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

Montezuma County has submitted a written narrative describing the economic areas that make up the county's market areas. Montezuma 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 Montezuma 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 Assessor is not utilizing the BELs and the Valuation Grids in the valuation of oil and gas production equipment according to The Division of Property Taxation's ARL 5, page 6.2.



Recommendations:

It is recommended that Montezuma County be ordered to utilize the BELs and Valuation Grids in the valuation of oil and gas production equipment.

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2009 in Montezuma County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14). Discounting procedures were applied to all subdivisions where less than 80 percent of all sites were sold using the present worth method. The market approach was applied where 80 percent or more of the subdivision sites were sold. An absorption period was estimated for each subdivision that was discounted. An appropriate discount rate was developed using the summation method.

Subdivision land with structures was appraised at full market value.

Conclusions

Montezuma 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.

Montezuma 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

Montezuma 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

Montezuma 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.

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

- Public Record Documents
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth
- 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.

Montezuma County submitted their personal property written audit plan and was current for the 2009 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Incomplete or inconsistent declarations
- Accounts with omitted property
- Non-filing Accounts - Best Information Available
- Accounts protested with substantial disagreement
- Non-filing taxpayers Appeal

Conclusions

Montezuma 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*

Andy Rodriguez, *Field Analyst*

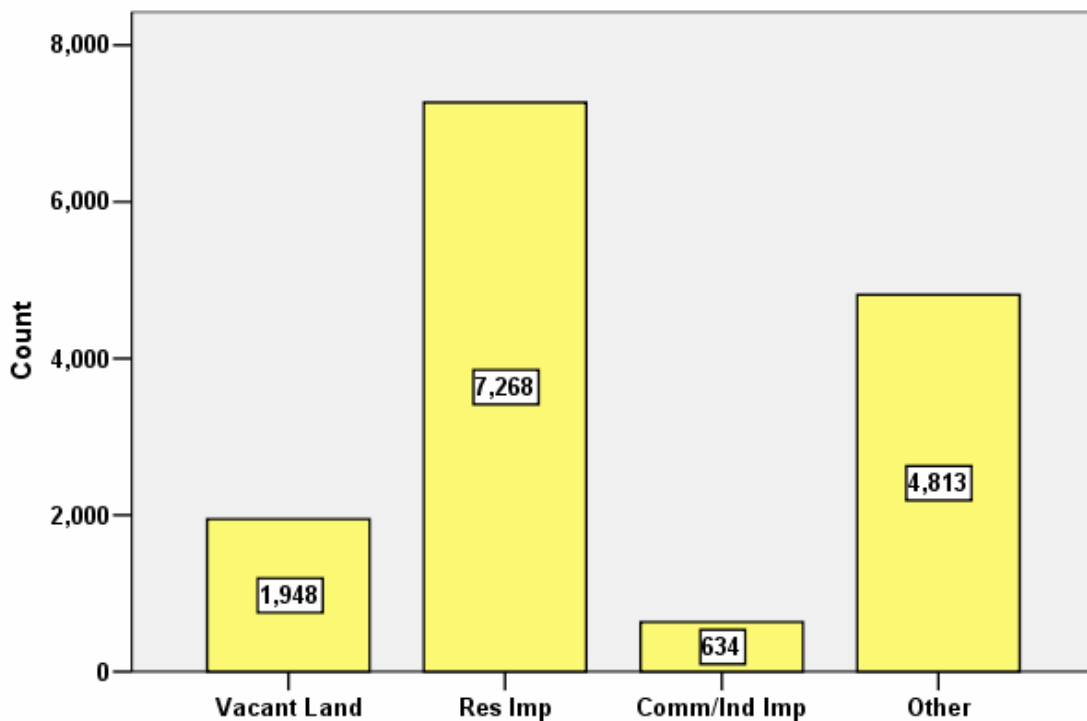
APPENDICES

STATISTICAL COMPLIANCE REPORT FOR MONTEZUMA COUNTY 2009

I. OVERVIEW

Montezuma County is located in extreme southwestern Colorado. The county has a total of 14,663 real property parcels, according to data submitted by the county assessor's office in 2009. The following provides a breakdown of property classes for this county:

Real Property Class Distribution



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 and 1112) accounted for 73% of all vacant land parcels.

For residential improved properties, single family properties accounted for 90% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 4% of all such properties in this county.

II. DATA FILES

The following sales analyses were based on the requirements of the 2009 Colorado Property Assessment Study. Information was provided by the Montezuma Assessor's Office on July 29, 2009. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

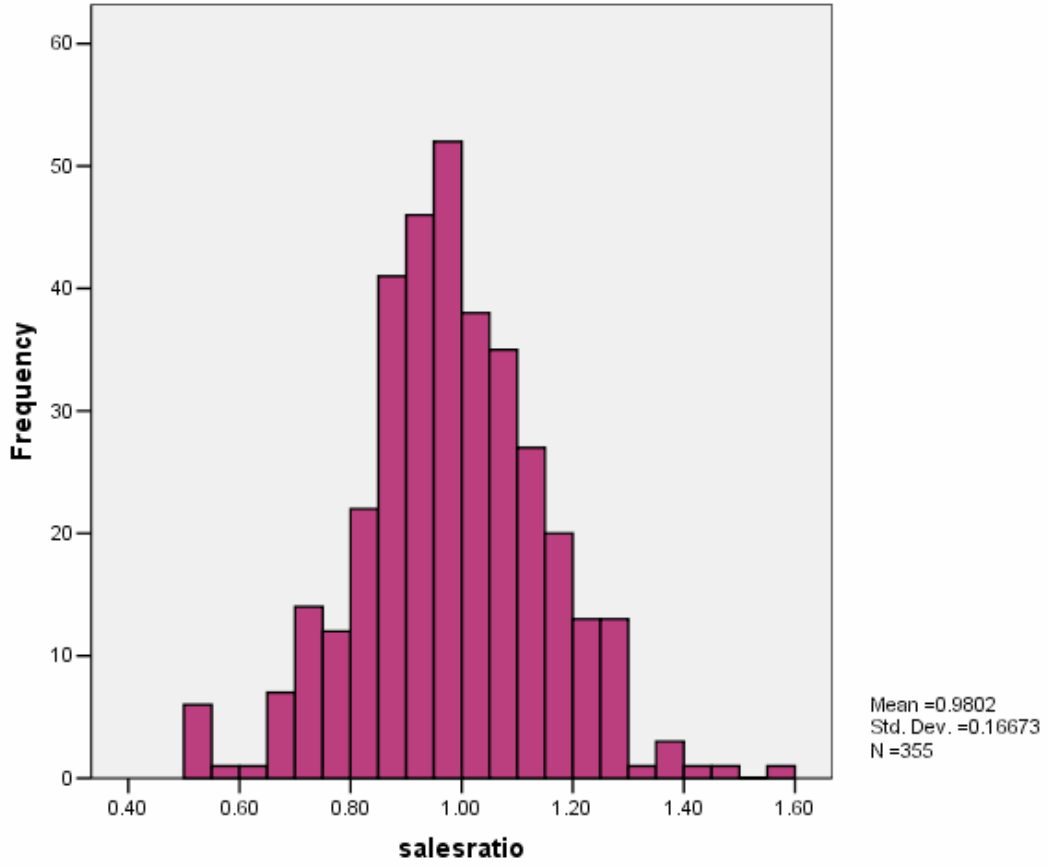
The following steps were taken to analyze the residential sales:

1. Total sales	8,234
2. Selected qualified sales	466
3. Select improved sales	398
4 Select residential sales only	355
5 Sales between January 1, 2007 and June 30, 2008	355

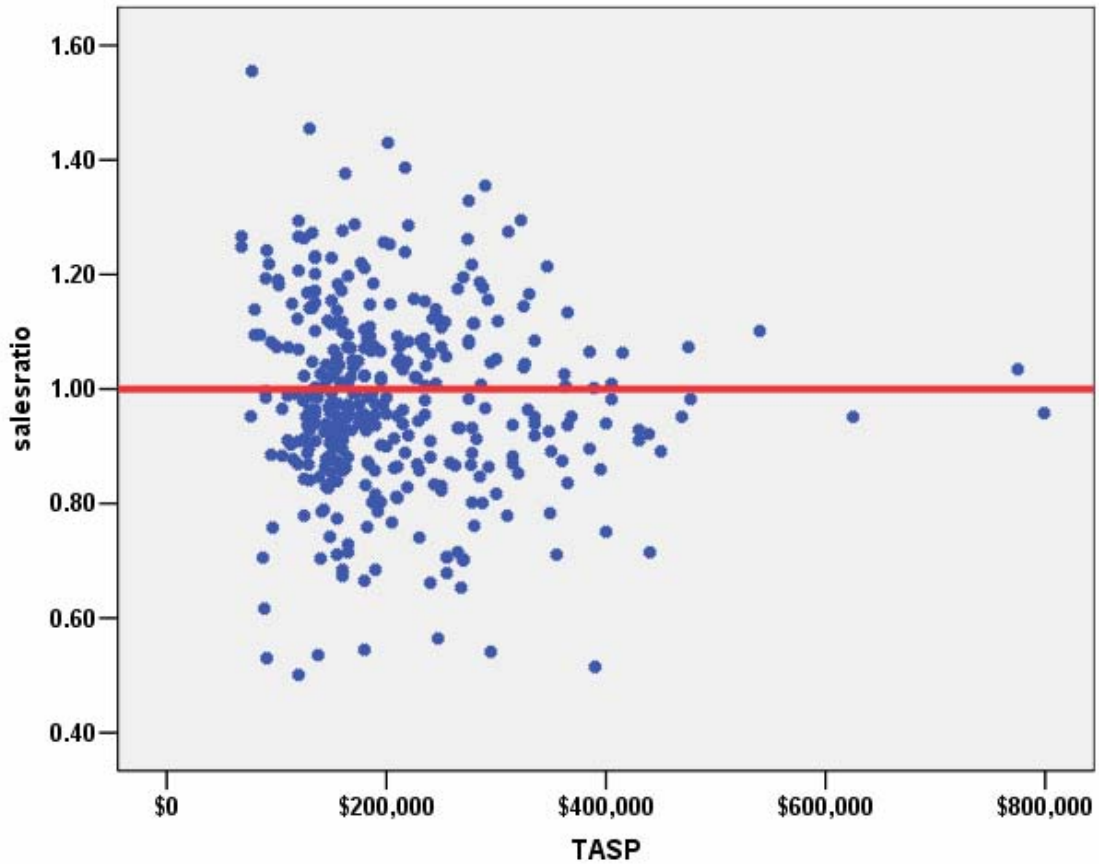
The sales ratio analysis was analyzed as follows:

Median	0.973
Price Related Differential	1.006
Coefficient of Dispersion	.132

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

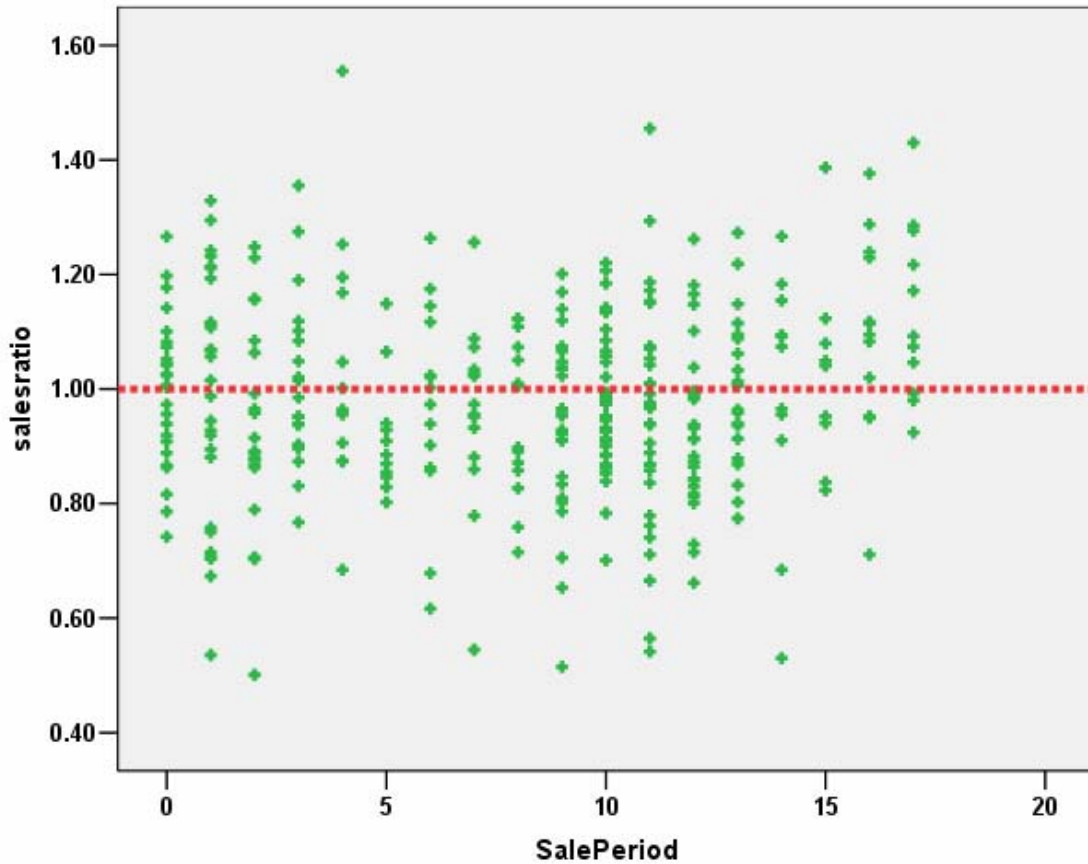
We next analyzed the residential dataset using the 18-month sale period for any residual market trending, with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.961	.017		56.467	.000
SalePeriod	.002	.002	.071	1.342	.180

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 2009 between each group, as follows:

Group	No.	Median	Mean
Unsold	5,957	\$114	\$120
Sold	348	\$127	\$129

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/industrial sales:

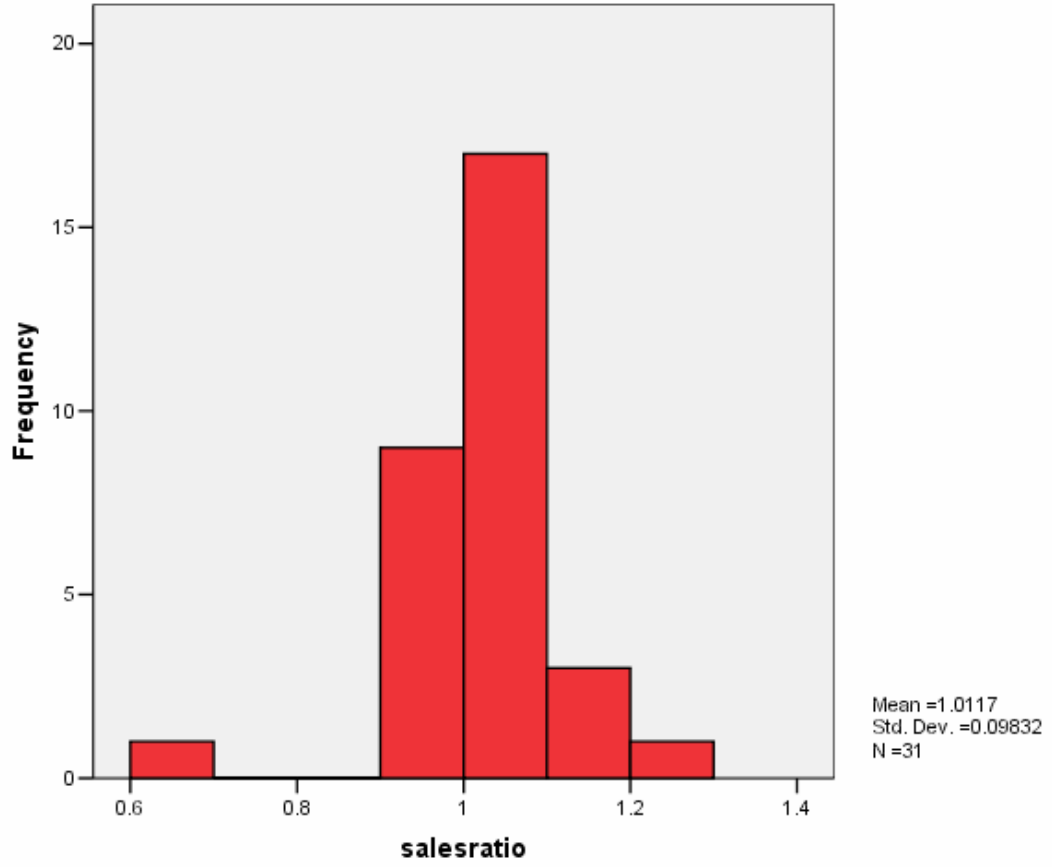
1. Total sales	8,234
2. Selected qualified sales	466
3. Select improved sales	398
4. Select commercial/industrial sales	28

We augmented these sales with 3 additional sales from 2006 to arrive at a total of 31 sales. The 31 sales were used to perform the ratio analysis, while the 28 sales within the 18-month sale period were used for the residual market trend analysis and the commercial sold/unsold analysis.

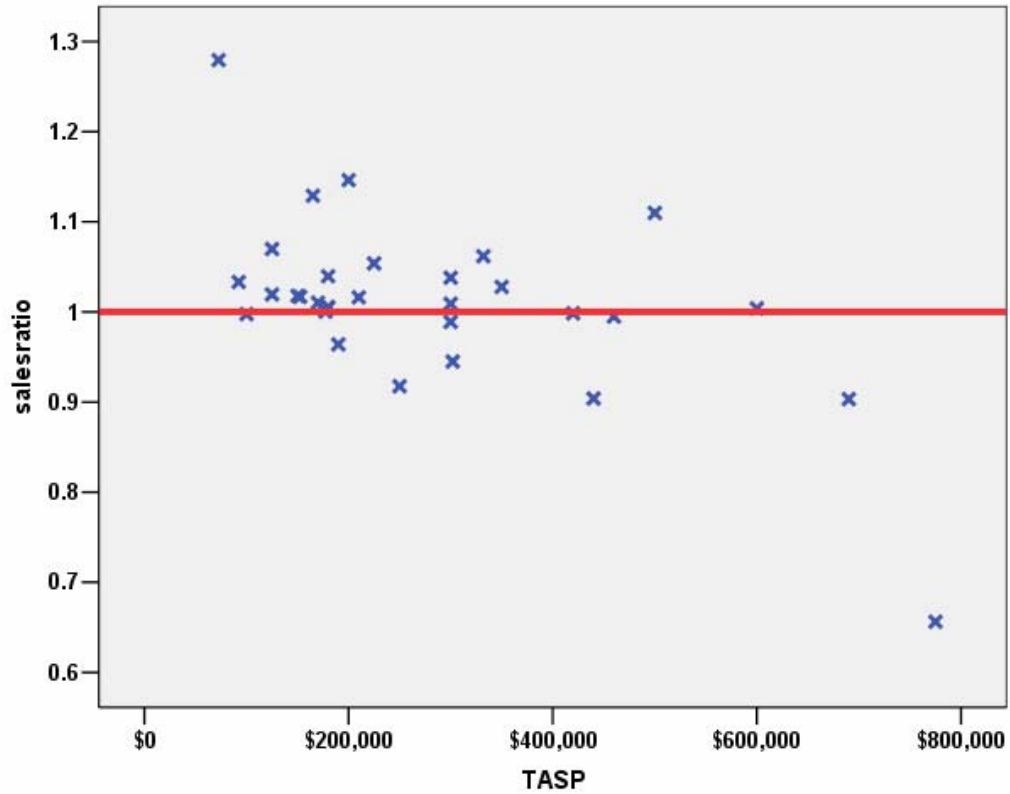
The sales ratio analysis was analyzed as follows:

Median	1.010
Price Related Differential	1.036
Coefficient of Dispersion	.056

The above tables indicate that the Montezuma 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

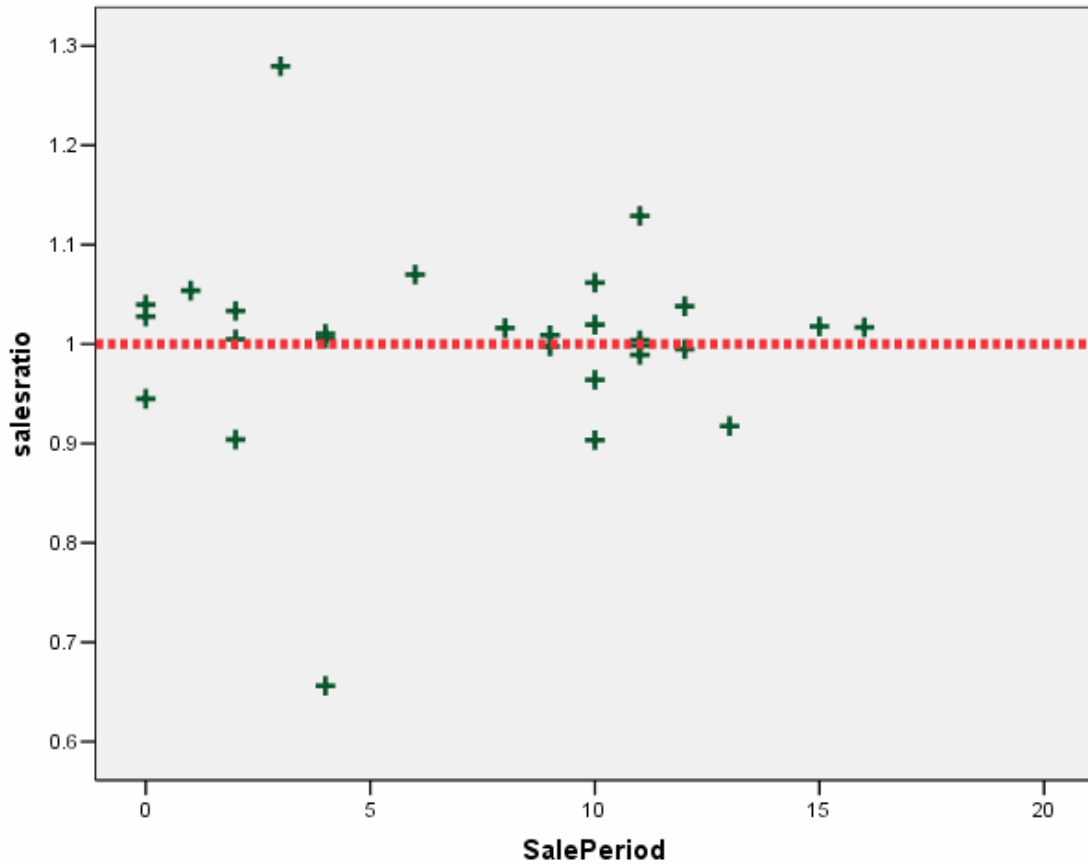
The assessor did not apply any market trend adjustment to the commercial dataset. The 28 commercial/industrial sales were analyzed, examining the sale ratios across the standard 18 month sale period with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	1.004	.035		28.911	.000
SalePeriod	-6.6E-005	.004	-.003	-.017	.987

a. Dependent Variable: salesratio

Commercial Market Trend Analysis



The market trend results indicated no statistically significant trend. We concluded that the assessor has adequately considered market trending in their commercial/industrial valuations.

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, as follows

Subclass	Group	No.	Median	Mean
Total	Unsold	531	\$63	\$73
	Sold	26	\$57	\$60

The above results indicate that the assessor has valued sold and unsold commercial/industrial properties consistently.

V. VACANT LAND SALE RESULTS

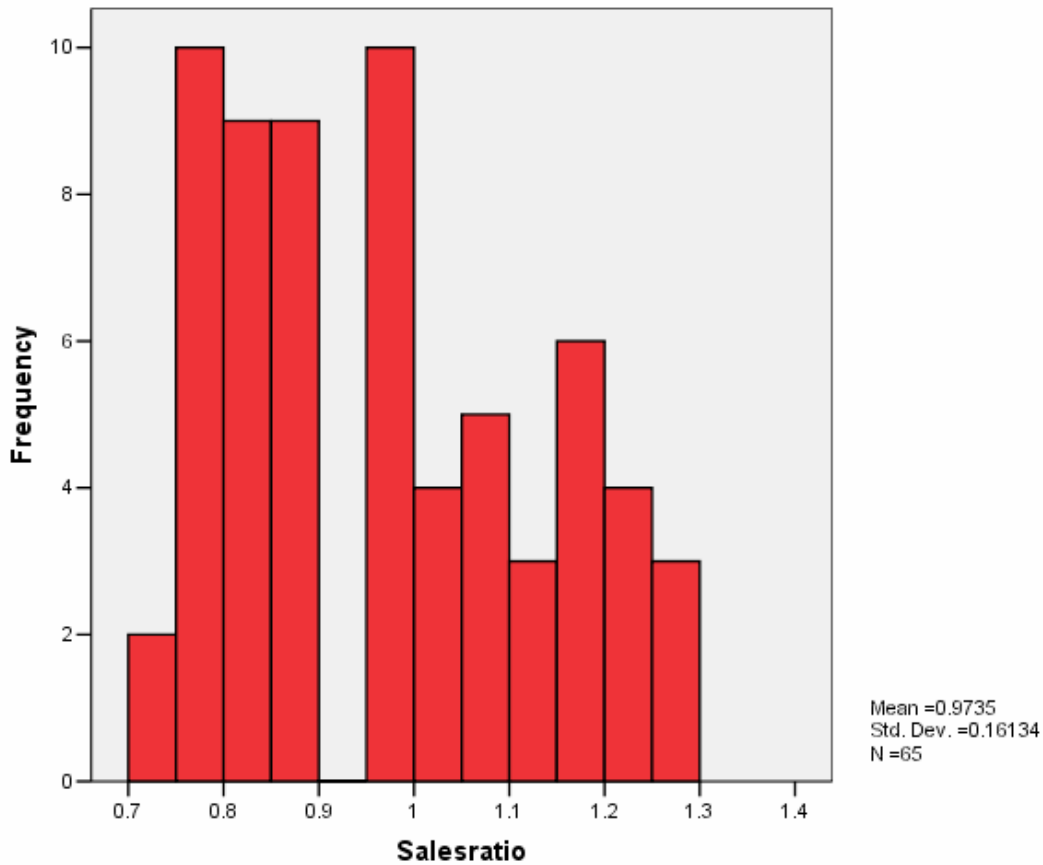
The following steps were taken to analyze vacant land sales:

1. Total sales	8,234
2. Selected qualified sales	466
3. Select vacant land sales	65
4. Select non-agricultural sales	65
5. Sales between July 1, 2006 and June 30, 2008	65

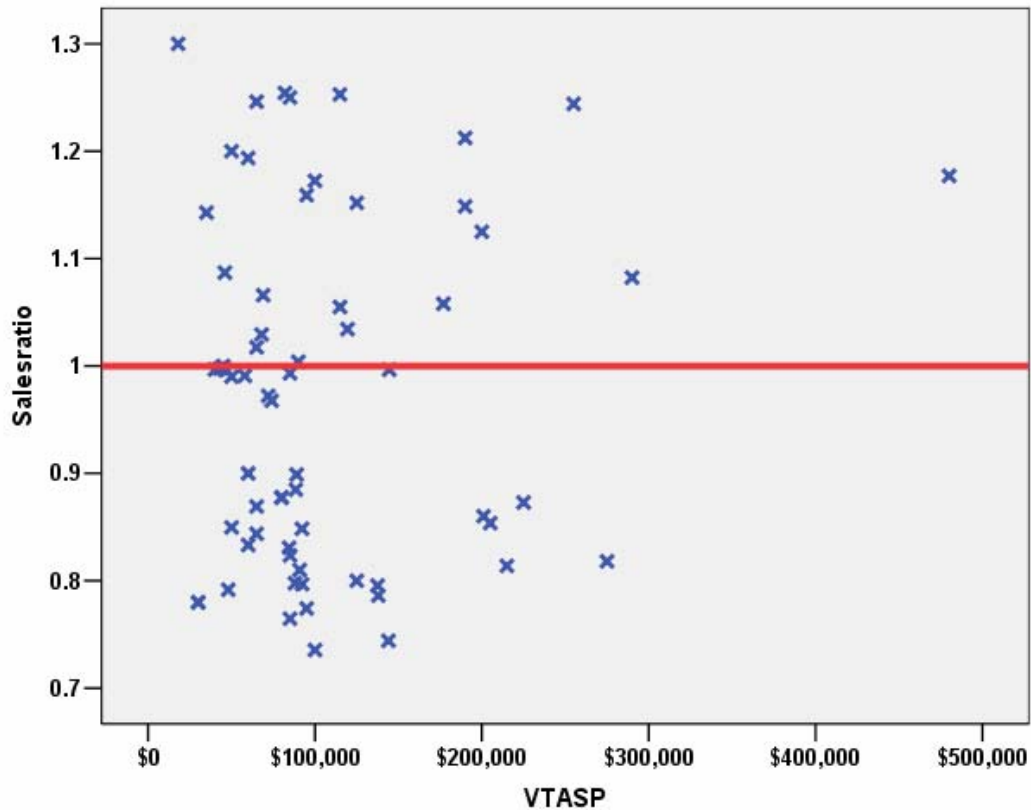
The sales ratio analysis was analyzed as follows:

Median	0.990
Price Related Differential	0.988
Coefficient of Dispersion	.140

The above tables indicate that the Montezuma 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

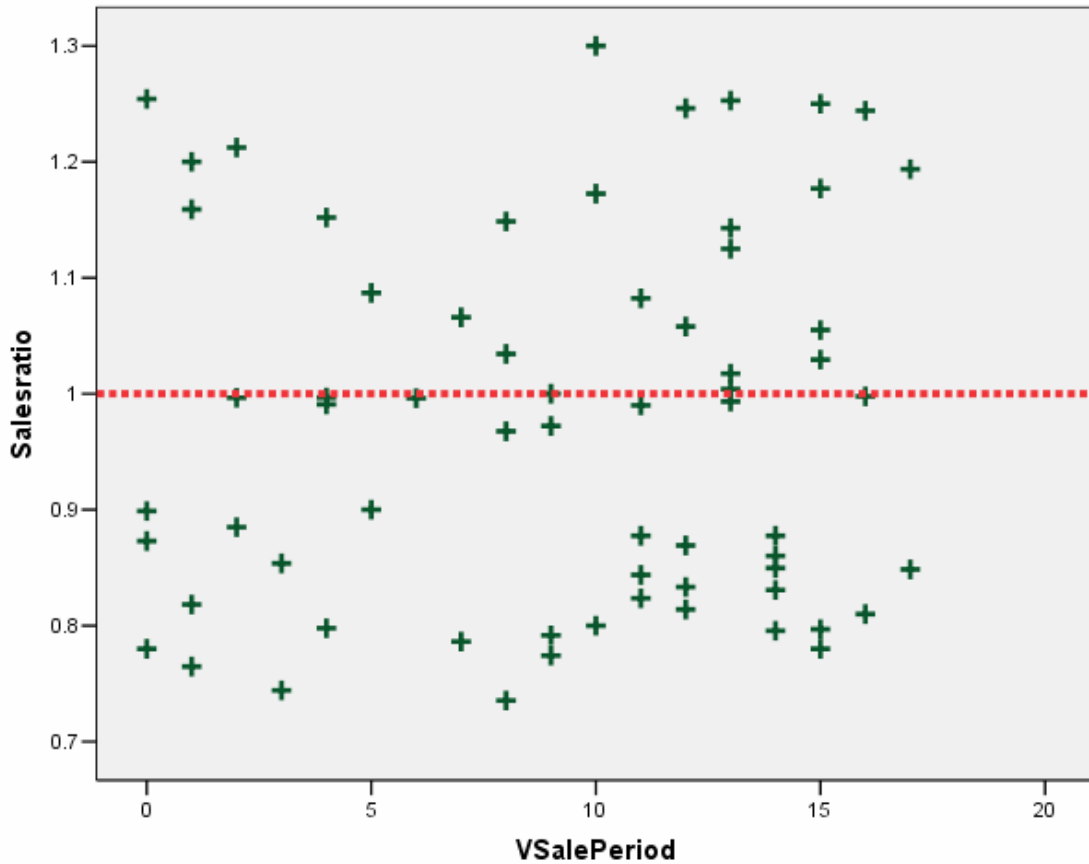
The assessor did not apply market trend adjustments to the vacant land dataset. We analyzed the sales ratios for vacant land sales, based on the time adjusted sale price (TASP) and the actual land value to determine if there was any residual time trending in the vacant land valuations. The 65 vacant land sales were analyzed, examining 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)	.955	.041		23.305	.000
VSalePeriod	.002	.004	.064	.508	.613

a. Dependent Variable: Salesratio

Vacant Land Sales Market Trend Analysis



The market trend analysis indicated no statistically significant trend. Based on these results, we concluded that the assessor has adequately considered market trending in their vacant land valuations.

Sold/Unsold Analysis

We compared the median change in actual value between 2008 and 2009 for vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Group	N	Median	Mean
Unsold	1,362	1.20	1.20
Sold	59	1.20	1.27

The above results indicated that sold vacant land properties were valued consistently with unsold vacant land properties for Montezuma County.

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

The final statistical 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 the actual improved value per square foot for residential single family improvements in Montezuma County.

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

Descriptives

ABSTRIMP		Statistic	Std. Error		
ImpValSF	1212	Mean	\$92.23	\$.413	
		95% Confidence Interval for Mean	\$91.42		
		Lower Bound	\$93.04		
		Upper Bound	\$90.60		
		5% Trimmed Mean	\$90.60		
		Median	\$87.20		
		Variance	972.778		
		Std. Deviation	\$31.189		
		Minimum	\$40		
		Maximum	\$271		
		Range	\$232		
		Interquartile Range	\$41		
		Skewness	.847		.032
		Kurtosis	.964		.065
4277		Mean	\$95.79	\$1.817	
		95% Confidence Interval for Mean	\$92.22		
		Lower Bound	\$99.36		
		Upper Bound	\$93.57		
		5% Trimmed Mean	\$93.57		
		Median	\$91.66		
		Variance	1416.291		
		Std. Deviation	\$37.634		
		Minimum	\$40		
		Maximum	\$247		
		Range	\$207		
		Interquartile Range	\$51		
		Skewness	.839		.118
		Kurtosis	.638		.235

VI. CONCLUSIONS

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

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean		.980
95% Confidence Interval for Mean	Lower Bound	.963
	Upper Bound	.998
Median		.973
95% Confidence Interval for Median	Lower Bound	.952
	Upper Bound	.992
	Actual Coverage	95.6%
Weighted Mean		.974
95% Confidence Interval for Weighted Mean	Lower Bound	.956
	Upper Bound	.992
Price Related Differential		1.006
Coefficient of Dispersion		.132
Coefficient of Variation	Mean Centered	17.0%

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

Commercial/Industrial

Ratio Statistics for CURRTOT / TASP

Mean		1.012
95% Confidence Interval for Mean	Lower Bound	.976
	Upper Bound	1.048
Median		1.010
95% Confidence Interval for Median	Lower Bound	.998
	Upper Bound	1.033
	Actual Coverage	97.1%
Weighted Mean		.976
95% Confidence Interval for Weighted Mean	Lower Bound	.911
	Upper Bound	1.041
Price Related Differential		1.036
Coefficient of Dispersion		.056
Coefficient of Variation	Mean Centered	9.7%

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		.974
95% Confidence Interval for Mean	Lower Bound	.934
	Upper Bound	1.013
Median		.990
95% Confidence Interval for Median	Lower Bound	.873
	Upper Bound	1.004
	Actual Coverage	95.4%
Weighted Mean		.985
95% Confidence Interval for Weighted Mean	Lower Bound	.933
	Upper Bound	1.037
Price Related Differential		.988
Coefficient of Dispersion		.140
Coefficient of Variation	Mean Centered	16.6%

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	\$50K to \$100K	19	5.4%
	\$100K to \$150K	89	25.1%
	\$150K to \$200K	100	28.2%
	\$200K to \$300K	96	27.0%
	\$300K to \$500K	47	13.2%
	\$500K to \$750K	2	.6%
	\$750K to \$1,000K	2	.6%
Overall		355	100.0%
Excluded		0	
Total		355	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$50K to \$100K	1.082	1.010	.173	23.7%
\$100K to \$150K	.965	1.003	.126	16.8%
\$150K to \$200K	.973	1.000	.115	15.1%
\$200K to \$300K	.982	1.002	.152	18.6%
\$300K to \$500K	.940	1.004	.114	15.7%
\$500K to \$750K	1.026	1.005	.073	10.3%
\$750K to \$1,000K	.996	1.001	.038	5.4%
Overall	.973	1.006	.132	17.2%

Age

Case Processing Summary

	Count	Percent
AgeRec 0	1	.3%
Over 100	13	3.7%
75 to 100	28	7.9%
50 to 75	66	18.6%
25 to 50	99	27.9%
5 to 25	105	29.6%
5 or Newer	43	12.1%
Overall	355	100.0%
Excluded	0	
Total	355	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.515	1.000	.000	.
Over 100	.895	1.037	.184	28.7%
75 to 100	.921	1.027	.143	19.7%
50 to 75	.964	1.024	.107	14.7%
25 to 50	.945	1.019	.127	16.1%
5 to 25	.982	.999	.135	17.7%
5 or Newer	1.084	1.011	.086	11.0%
Overall	.973	1.006	.132	17.2%

Improved Area

Case Processing Summary

	Count	Percent
ImpSFRec 0	1	.3%
500 to 1,000 sf	54	15.2%
1,000 to 1,500 sf	123	34.6%
1,500 to 2,000 sf	95	26.8%
2,000 to 3,000 sf	65	18.3%
3,000 sf or Higher	17	4.8%
Overall	355	100.0%
Excluded	0	
Total	355	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.515	1.000	.000	.
500 to 1,000 sf	.937	1.017	.137	17.8%
1,000 to 1,500 sf	.959	1.009	.120	16.2%
1,500 to 2,000 sf	1.002	1.015	.128	15.6%
2,000 to 3,000 sf	1.024	1.017	.134	17.3%
3,000 sf or Higher	.967	1.003	.135	18.9%
Overall	.973	1.006	.132	17.2%

Improvement Quality

Case Processing Summary

		Count	Percent
QUAL	1.00	2	.6%
	1.50	4	1.1%
	2.00	15	4.2%
	2.25	1	.3%
	2.33	2	.6%
	2.50	8	2.3%
	2.60	1	.3%
	2.75	1	.3%
	3.00	122	34.5%
	3.25	1	.3%
	3.33	1	.3%
	3.50	55	15.5%
	3.67	10	2.8%
	3.71	1	.3%
	3.75	3	.8%
	3.80	1	.3%
	4.00	88	24.9%
	4.25	2	.6%
	4.33	3	.8%
	4.40	1	.3%
	4.50	13	3.7%
	4.67	1	.3%
	4.75	1	.3%
	5.00	14	4.0%
	5.33	1	.3%
	6.00	2	.6%
Overall		354	100.0%
Excluded		1	
Total		355	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1.00	.703	.969	.288	40.7%
1.50	.983	1.048	.164	20.7%
2.00	.996	1.047	.199	26.0%
2.25	.956	1.000	.000	.
2.33	.965	.965	.214	30.3%
2.50	.961	1.004	.187	23.8%
2.60	1.211	1.000	.000	.
2.75	1.376	1.000	.000	.
3.00	.966	1.007	.103	13.9%
3.25	.715	1.000	.000	.
3.33	.878	1.000	.000	.
3.50	.939	1.009	.143	17.6%
3.67	.815	1.021	.160	18.7%
3.71	.711	1.000	.000	.
3.75	.812	.996	.189	30.1%
3.80	.541	1.000	.000	.
4.00	1.036	1.006	.125	16.2%
4.25	1.080	1.000	.050	7.1%
4.33	1.020	1.002	.090	14.6%
4.40	.891	1.000	.000	.
4.50	1.005	1.009	.085	12.5%
4.67	.836	1.000	.000	.
4.75	.958	1.000	.000	.
5.00	1.036	1.011	.098	11.6%
5.33	1.009	1.000	.000	.
6.00	1.054	1.004	.018	2.6%
Overall	.973	1.005	.131	17.0%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$50K to \$100K	3	9.7%
	\$100K to \$150K	3	9.7%
	\$150K to \$200K	9	29.0%
	\$200K to \$300K	6	19.4%
	\$300K to \$500K	7	22.6%
	\$500K to \$750K	2	6.5%
	\$750K to \$1,000K	1	3.2%
Overall		31	100.0%
Excluded		0	
Total		31	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$50K to \$100K	1.033	1.015	.091	17.0%
\$100K to \$150K	1.019	1.001	.017	3.5%
\$150K to \$200K	1.010	.999	.039	6.6%
\$200K to \$300K	1.013	1.000	.032	4.8%
\$300K to \$500K	.998	.998	.051	7.0%
\$500K to \$750K	.954	1.004	.053	7.5%
\$750K to \$1,000K	.656	1.000	.000	.
Overall	1.010	1.036	.056	9.7%

Subclass

Case Processing Summary

		Count	Percent
0	2112	13	41.9%
	2120	2	6.5%
	2130	8	25.8%
	2135	3	9.7%
	2230	2	6.5%
	2235	1	3.2%
	3112	1	3.2%
	3115	1	3.2%
Overall		31	100.0%
Excluded		0	
Total		31	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
2112	1.019	1.017	.048	8.5%
2120	.911	1.002	.007	1.1%
2130	1.013	1.003	.020	3.0%
2135	.995	1.100	.128	24.3%
2230	1.073	.996	.068	9.6%
2235	1.110	1.000	.000	.
3112	1.018	1.000	.000	.
3115	.903	1.000	.000	.
Overall	1.010	1.036	.056	9.7%

Vacant Land Median Ratio Stratification

Case Processing Summary

	Count	Percent
VPreduse 100	37	56.9%
200	3	4.6%
520	7	10.8%
530	3	4.6%
540	4	6.2%
550	8	12.3%
560	1	1.5%
1112	2	3.1%
Overall	65	100.0%
Excluded	0	
Total	65	

Ratio Statistics for CURRLND / VTASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
100	.899	1.000	.129	15.5%
200	1.143	1.036	.088	13.2%
520	.968	1.024	.134	17.9%
530	.878	1.047	.194	32.2%
540	1.023	1.057	.169	19.9%
550	1.027	.992	.128	15.9%
560	1.177	1.000	.000	.
1112	1.202	.984	.035	5.0%
Overall	.990	.988	.140	16.4%