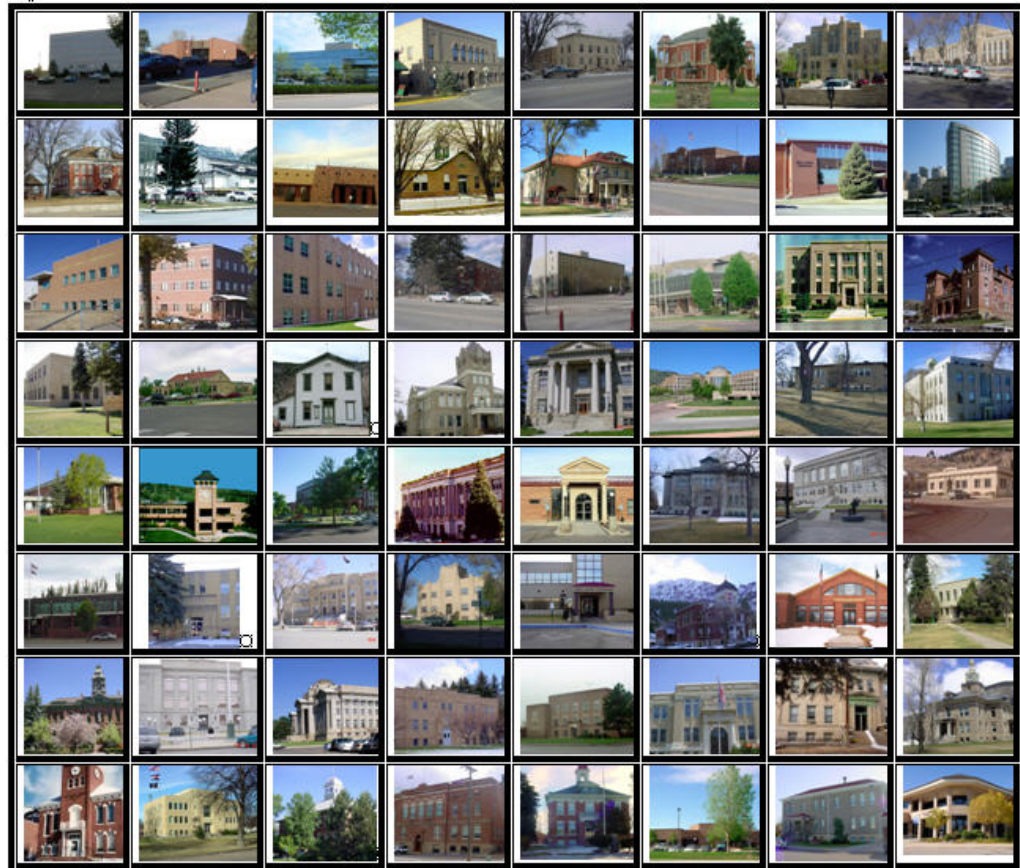




2013  
HUERFANO COUNTY  
PROPERTY ASSESSMENT  
STUDY

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September 15, 2013

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

**RE: Final Report for the 2013 Colorado Property Assessment Study**

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2013 Colorado Property Assessment Study.

These reports are the result of two analyses: A procedural audit and a statistical audit.

The procedural audit examines all classes of property. It specifically looks at how the assessor develops economic areas, confirms and qualifies sales, develops time adjustments and performs periodic physical property inspections. The audit reviews the procedures for determining subdivision absorption and subdivision discounting. Valuation methodology is examined for residential properties and commercial properties. Procedures are reviewed for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests, and non-producing patented mining claims.

Statistical audits are performed on vacant land, residential properties, commercial/industrial properties and agricultural land. A statistical analysis is performed for personal property compliance on the eleven largest counties: Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo and Weld. The remaining counties receive a personal property procedural study.

Wildrose Appraisal Inc. – Audit Division appreciates the opportunity to be of service to the State of Colorado. Please contact us with any questions or concerns.

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

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

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# INTRODUCTION

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## 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.

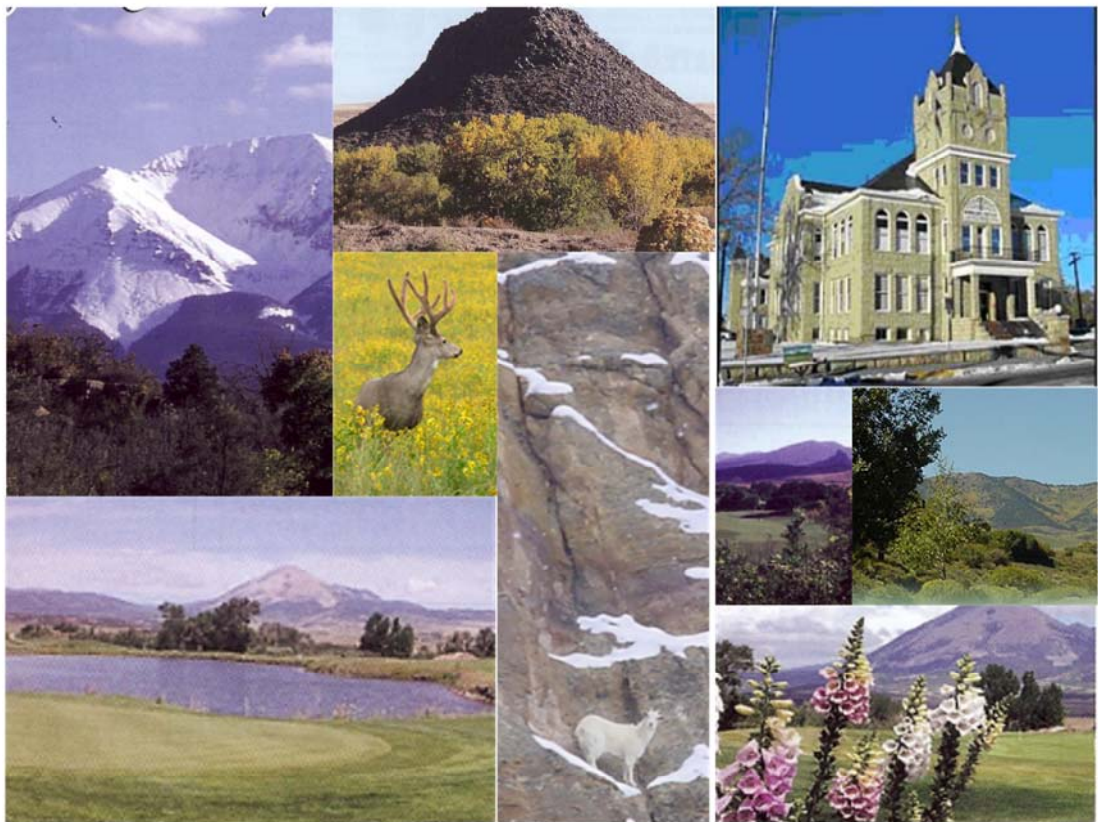
Wildrose Audit has completed the Property Assessment Study for 2013 and is pleased to report its findings for Huerfano County in the following report.

# REGIONAL/HISTORICAL SKETCH OF HUERFANO COUNTY

## Regional Information

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

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





## Historical Information

Huerfano County has a population of approximately 6,711 people with 4.22 people per square mile, according to the U.S. Census Bureau's 2010 census data. This represents a -14.64 percent change from the 2000 Census.

Huerfano County was a crossroads in the American west long before the Europeans arrived. Taos Pueblo, in northern New Mexico, has been a major Native American trading center for over 1,000 years. In those days, the Utes, Navajos, Jicarilla Apaches, and Comanches came and went through Huerfano County. The Spanish Peaks were sacred mountains to these people.

The first Europeans to come to Huerfano County were most likely Spanish but there were also a lot of French trappers traveling through. The Zebulon Pike Expedition in 1806-07 is recognized as the first Americans to

officially enter Huerfano County but by that time over 1400 Europeans are recorded to have passed through Badito as they journeyed along the Taos (or Trapper's) Trail.

In the beginning of the Colorado Territory days, Huerfano County was much larger, stretching from the Arkansas River south to New Mexico and from the Kansas border to the mountains, but over time it was cut up and portions of the original county became new counties. In the earliest days of American "ownership," Badito was still the main center of business and was the official county seat for a couple of years, before Walsenburg became more established and the county offices were moved there (as the fortunes of the fur trade declined, so did Badito). These days, Walsenburg is a hub with roads heading cross-country in all directions. ([www.huerfano.us](http://www.huerfano.us))

# RATIO ANALYSIS

## Methodology

All significant classes of properties were analyzed. Sales were collected for each property class over the appropriate sale period, which was typically defined as the 18-month period between January 2011 and June 2012. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2012 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and 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 Huerfano County are:

<b>Huerfano County Ratio Grid</b>					
<b>Property Class</b>	<b>Number of Qualified Sales</b>	<b>Unweighted Median Ratio</b>	<b>Price Related Differential</b>	<b>Coefficient of Dispersion</b>	<b>Time Trend Analysis</b>
*Commercial/Industrial	N/A	N/A	N/A	N/A	N/A
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	51	1.037	1.006	4.6	Compliant
Vacant Land	31	0.999	1.001	5.4	Compliant

*\*Due to the small number of sales, a procedural audit was performed.*

After applying the above described methodologies, it is concluded from the sales ratios that Huerfano County is in compliance

with SBOE, DPT, and Colorado State Statute valuation guidelines.

**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 Huerfano County has complied with the statutory requirements to analyze the effects of time on value in their county. Huerfano 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

Huerfano County was tested for the equal treatment of sold and unsold properties to ensure that “sales chasing” has not occurred. The auditors employed a multi-step process to determine if sold and unsold properties were valued in a consistent manner.

All qualified residential and commercial class properties were examined using the unit value method, where the actual value per square foot was compared between sold and unsold properties. A class was considered qualified if it met the criteria for the ratio analysis. The median value per square foot for both groups was compared from an appraisal and statistical perspective. If no significant difference was indicated, then we concluded that no further testing was warranted and that the county was in compliance in terms of sold/unsold consistency.

If either residential or commercial differences were significant using the unit value method, or if data limitations made the comparison invalid, then the next step was to perform a ratio analysis comparing the 2012 and 2013 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.

<b>Sold/Unsold Results</b>	
<b>Property Class</b>	<b>Results</b>
Commercial/Industrial	N/A
Condominium	N/A
Single Family	Compliant
Vacant Land	Compliant

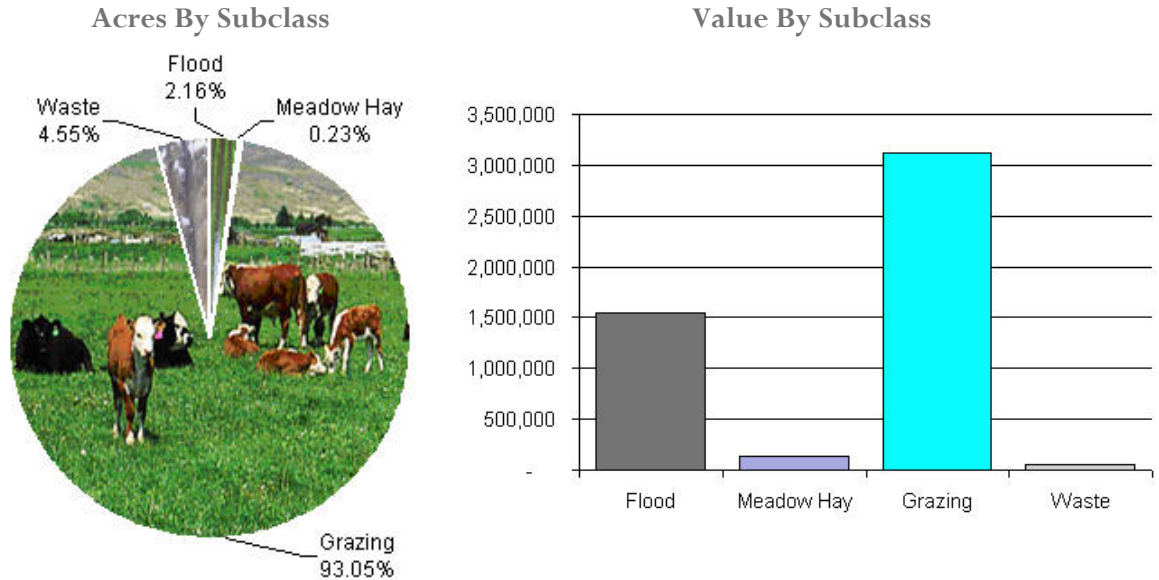
### **Conclusions**

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

<b>Huerfano County Agricultural Land Ratio Grid</b>						
<b>Abstract Code</b>	<b>Land Class</b>	<b>Number Of Acres</b>	<b>County Value Per Acre</b>	<b>County Assessed Total Value</b>	<b>WRA Total Value</b>	<b>Ratio</b>
4117	Flood	14,611	106.00	1,544,796	1,551,461	1.00
4137	Meadow Hay	1,583	85.00	134,457	134,457	1.00
4147	Grazing	628,250	5.00	3,121,671	3,121,671	1.00
4167	Waste	30,704	2.00	53,596	53,596	1.00
<b>Total/Avg</b>		<b>675,148</b>	<b>7.00</b>	<b>4,854,521</b>	<b>4,861,185</b>	<b>1.00</b>

### Recommendations

None

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## Agricultural Outbuildings

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### 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

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

### Recommendations

None

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## Agricultural Land Under Improvements

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### Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.19 and 5.20 were being followed.

Huerfano County utilized the following discovery method(s):

- Questionnaires
- Phone Interviews
- In-Person Interviews
- Written Correspondence

- Personal Knowledge of Owners and Tenants

### Conclusions

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

### Recommendations

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 2013 for Huerfano County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 58 sales listed as unqualified.

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

For residential, commercial, and vacant land sales with considerations over \$500, the contractor has examined and reported the ratio of qualified sales to total sales by class and performed the following analyses of unqualified sales:

The contractor has examined the manner in which sales have been classified as qualified or unqualified, including a listing of each step in the sales verification process, any adjustment procedures, and the county official responsible for making the final decision on qualification.

When less than 50 percent of sales are qualified in any of the three property classes (residential, commercial, and vacant land), the contractor analyzed the reasons for disqualifying sales in any subclass that constitutes at least 20 percent of the class, either by number of properties or by value, from the prior year. The contractor has

reviewed with the assessor any analysis indicating that sales data are inadequate, fail to reflect typical properties, or have been disqualified for insufficient cause. In addition, the contractor has reviewed the disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis to determine if the sales included in that code have been assigned appropriately.

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of unqualified sales, excluding sales that were disqualified for obvious reasons.

The following subclasses were analyzed for Huerfano County:

- 0100 Residential Lots
- 1212 Single Family Residence
- 2112 Merchandising
- 2120 Offices
- 2230 Special Purpose

### **Conclusions**

Huerfano 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**

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

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## Earth and Stone Products

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### 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

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## Producing Oil and Gas

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### 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 2013 in Huerfano 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**

Huerfano 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.

Huerfano 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

Huerfano 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

Huerfano 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.

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

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

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

Huerfano County submitted their personal property written audit plan and was current for the 2013 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
- Businesses with no deletions or additions for 2 or more years

- Non-filing Accounts - Best Information Available

### **Conclusions**

Huerfano County has employed adequate discovery, classification, documentation, valuation, and auditing procedures for their

personal property assessment and is in compliance with SBOE requirements.

### **Recommendations**

None

## WILDROSE AUDITOR STAFF

**Harry J. Fuller**, *Audit Project Manager*

**Suzanne Howard**, *Audit Administrative Manager*

**Steve Kane**, *Audit Statistician*

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

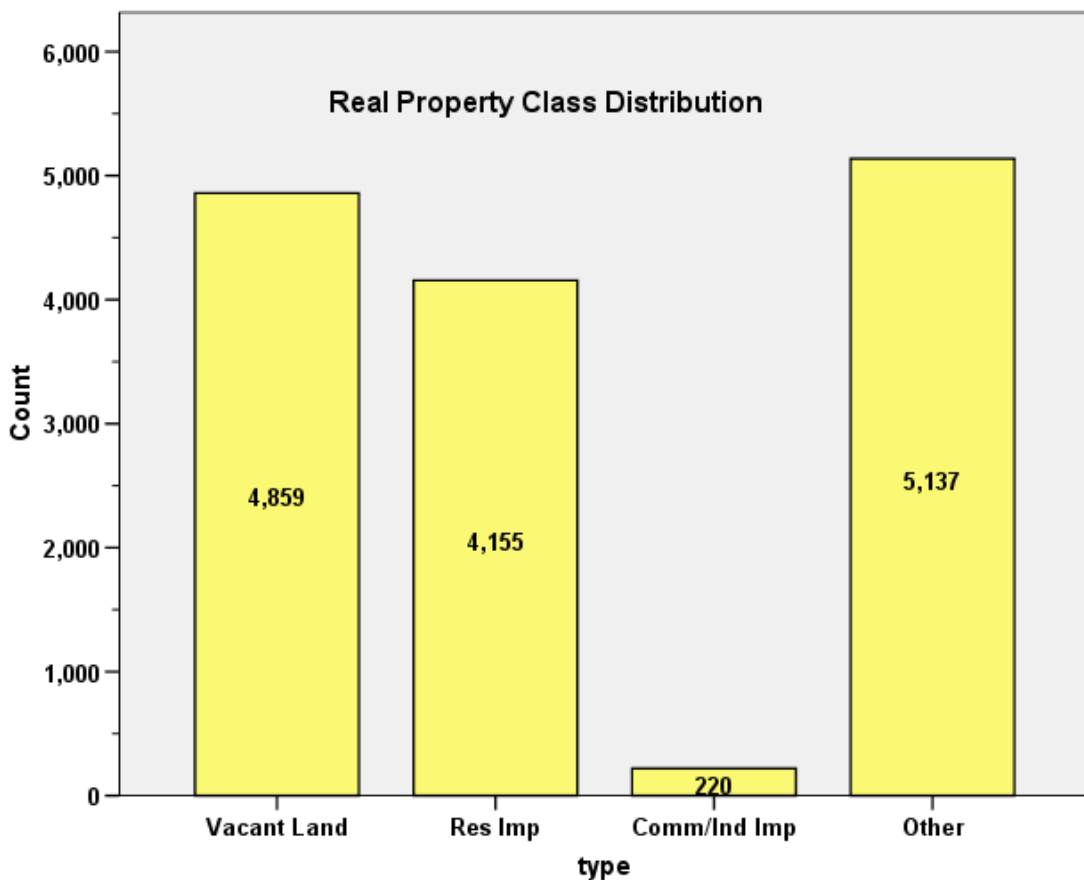
**J. Andrew Rodriguez**, *Field Analyst*

# APPENDICES

**STATISTICAL COMPLIANCE REPORT  
 FOR HUERFANO COUNTY  
 2013**

**I. OVERVIEW**

Huerfano County is located in south central Colorado. The county has a total of 14,371 real property parcels, according to data submitted by the county assessor’s office in 2013. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 and 1112) accounted for 83.5% of all vacant land parcels.

For residential improved properties, single family properties accounted for 78.4% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 1.5% of all such properties in this county.

## II. DATA FILES

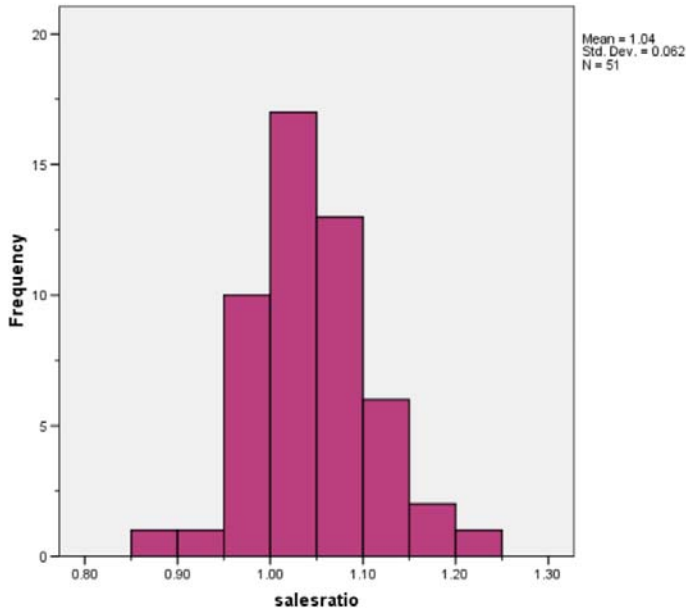
The following sales analyses were based on the requirements of the 2013 Colorado Property Assessment Study. Information was provided by the Huerfano Assessor’s Office in May 2013. The data included all 5 property record files as specified by the Auditor.

## III. RESIDENTIAL SALES RESULTS

There were 51 qualified residential qualified sales for the 18 month sale period. The sales ratio analysis was analyzed as follows:

Median	<b>1.037</b>
Price Related Differential	<b>1.006</b>
Coefficient of Dispersion	<b>.046</b>

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:







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

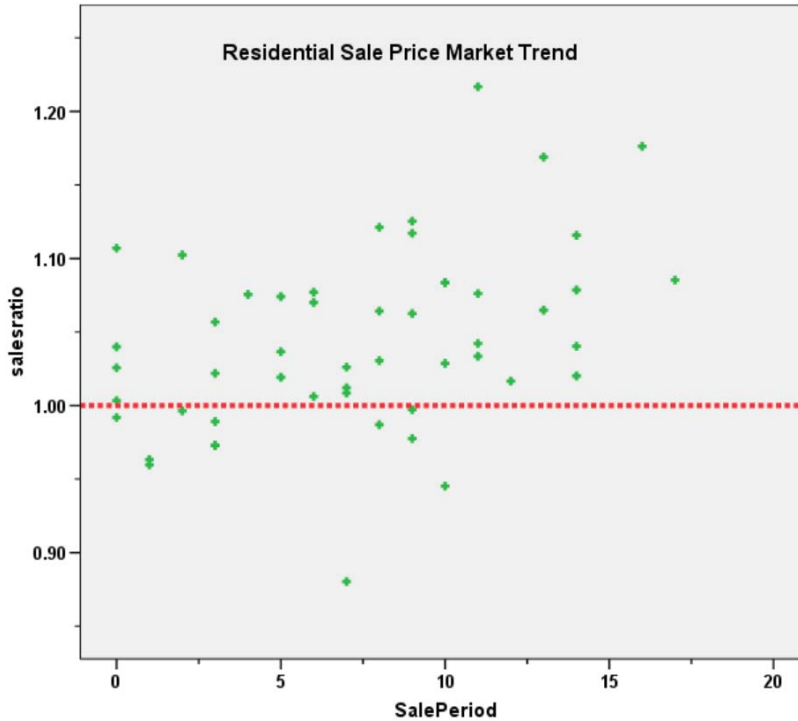
### Residential Market Trend Analysis

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

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.005	.015		65.964	.000
	SalePeriod	.005	.002	.400	3.051	.004

a. Dependent Variable: salesratio



The above analysis indicated that there is a marginal residual trend in the sale data. **While borderline in terms of statistical significance, we recommend that the assessor carefully examine market trending for residential properties in this market. This may explain why the median ratio is somewhat above 1.0 (although still within the compliance range).**

### Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median and mean change in value between sold and unsold groups from 2012 to 2013, as follows:

Group	N	Median Pct Chg	Mean Pct Chg
Unsold	4,104	1.09	0.89
Sold	51	1.09	1.00

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

## IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

The County did not have enough qualified commercial/industrial sales to be statistically significant. A procedural audit was completed for taxable year 2013. This analysis reviewed all qualified commercial sales. Information was gathered concerning class of property, year built, improvement size, type and quality of construction, condition at the time of sale, sale date and amount and the Assessor value. The audit then determined sale price per square foot and the sales ratio.

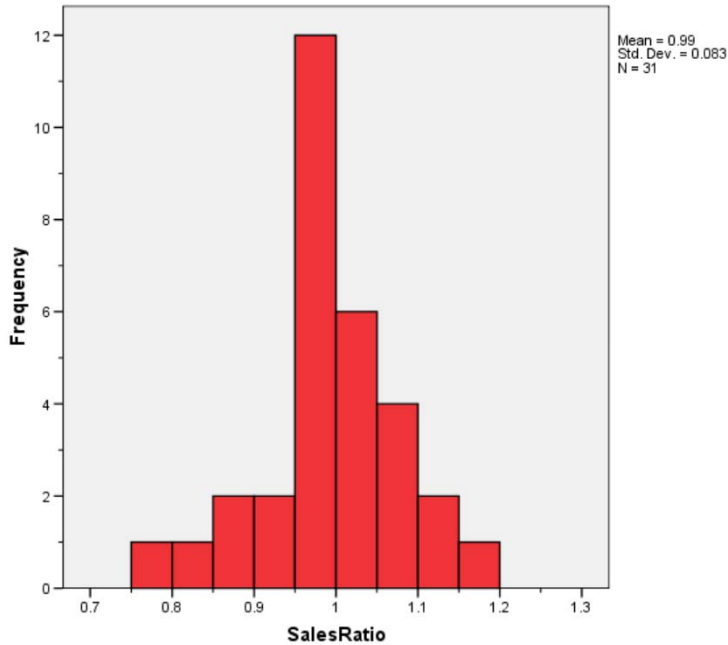
The audit concluded that Huerfano County is in compliance due to the lack of substantive data to support a revaluation decision.

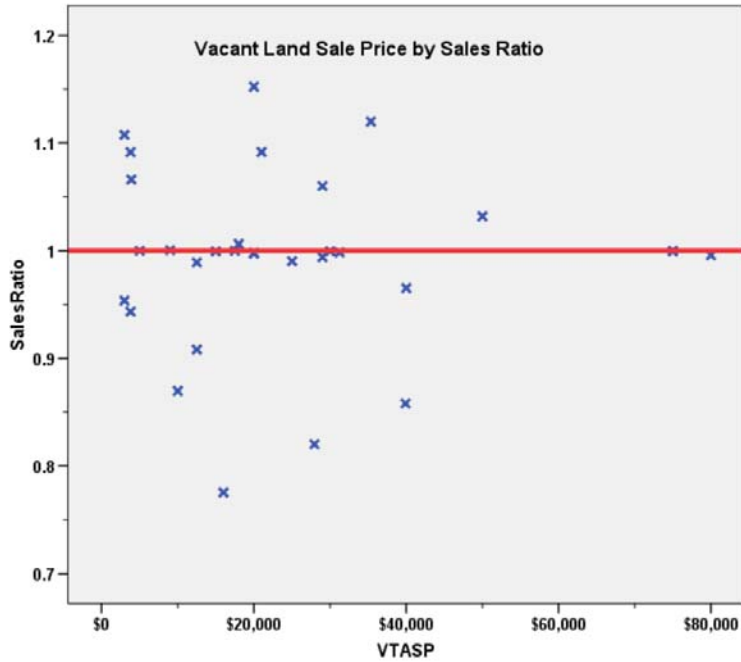
**V. VACANT LAND SALE RESULTS**

There were 31 qualified vacant land sales for the 18 month sale period. The sales ratio analysis was analyzed as follows:

Median	<b>0.999</b>
Price Related Differential	<b>1.001</b>
Coefficient of Dispersion	<b>.054</b>

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





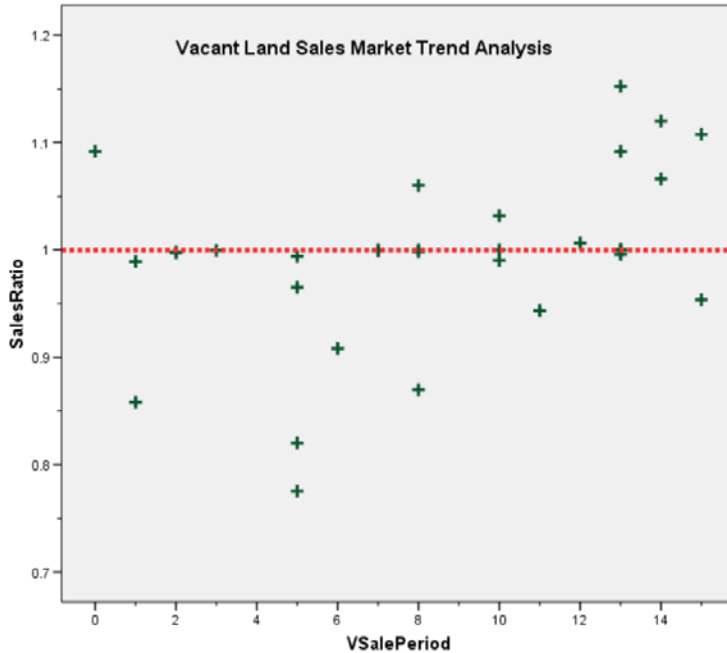
### Vacant Land Market Trend Analysis

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 31 vacant land sales were analyzed, examining the sales ratios across the 18 month sale period with the following results:

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.933	.029		31.922	.000
	VSalePeriod	.007	.003	.400	2.353	.026

a. Dependent Variable: SalesRatio



The market trend analysis indicated a statistically significant trend, although the magnitude of the trend was not significant. 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 2012 and 2013 for vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Subdiv	Group	N	Median	Mean
Total	Unsold	4,828	1.00	1.26
	Sold	31	1.00	1.24

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

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

**Descriptives**

<u>abstrimp</u>				Statistic	Std. Error
<b>Imp</b> <u>ValSF</u>	<b>SFR</b>	Mean		\$107.78	\$5.852
		95% Confidence Interval for	Lower Bound	\$96.23	
		Mean	Upper Bound	\$119.33	
		5% Trimmed Mean		\$101.28	
		Median		\$86.70	
		Variance		5752.670	
		Std. Deviation		\$75.846	
		Minimum		\$10	
		Maximum		\$502	
		Range		\$493	
		Interquartile Range		\$82	
		<u>Skewness</u>		1.751	.187
		Kurtosis		4.680	.373
	<b>Ag</b> <b>Res</b>	<b>SFR</b>	Mean		\$138.60
95% Confidence Interval for			Lower Bound	\$123.77	
Mean			Upper Bound	\$153.44	
5% Trimmed Mean				\$117.46	
Median				\$93.88	
Variance				25648.224	
Std. Deviation				\$160.151	
Minimum				\$0	
Maximum				\$1,579	
Range				\$1,579	
Interquartile Range				\$134	
<u>Skewness</u>				3.547	.115
Kurtosis				20.857	.230

**VI. CONCLUSIONS**

Based on this statistical analysis, there were no significant compliance issues concluded for Huerfano County as of the date of this report. As noted, the market trending results were marginal for residential sales, but we concluded they met compliance requirements overall.

**STATISTICAL ABSTRACT**

**Residential**

**Ratio Statistics for TOT ACT VAL / TASP**

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			Mean Centered
1.044	1.027	1.062	1.037	1.020	1.065	95.1%	1.038	1.020	1.056	1.006	.046	5.9%

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.

**Vacant Land**

**Ratio Statistics for ACT LAND VAL / VTASP**

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			Mean Centered
.993	.962	1.024	.999	.990	1.001	97.1%	.992	.964	1.020	1.001	.054	8.4%

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

**Residential Median Ratio Stratification**

**Sale Price**

**Case Processing Summary**

		Count	Percent
SPRec	\$25K to \$50K	6	11.8%
	\$50K to \$100K	11	21.6%
	\$100K to \$150K	9	17.6%
	\$150K to \$200K	12	23.5%
	\$200K to \$300K	7	13.7%
	\$300K to \$500K	6	11.8%
Overall		51	100.0%
Excluded		0	
Total		51	

**Ratio Statistics for TOT ACT VAL / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$25K to \$50K	1.041	.997	.055	7.4%
\$50K to \$100K	1.085	1.005	.055	6.9%
\$100K to \$150K	1.034	1.000	.019	2.7%
\$150K to \$200K	1.030	.999	.043	4.9%
\$200K to \$300K	1.040	.994	.052	7.6%
\$300K to \$500K	1.016	1.000	.040	5.6%
Overall	1.037	1.006	.046	6.0%



**Subclass**

**Case Processing Summary**

	Count	Percent
abstrimp 1212	47	92.2%
1230	4	7.8%
Overall	51	100.0%
Excluded	0	
Total	51	

**Ratio Statistics for TOT ACT VAL / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1212	1.040	1.008	.048	6.1%
1230	1.020	.992	.018	2.8%
Overall	1.037	1.006	.046	6.0%

## Improvement Age

### Case Processing Summary

	Count	Percent
AgeRec Over 100	9	17.6%
75 to 100	7	13.7%
50 to 75	1	2.0%
25 to 50	18	35.3%
5 to 25	15	29.4%
5 or Newer	1	2.0%
Overall	51	100.0%
Excluded	0	
Total	51	

### Ratio Statistics for TOT ACT VAL / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
Over 100	1.057	1.019	.053	7.8%
75 to 100	1.085	1.005	.041	5.5%
50 to 75	1.070	1.000	.000	.%
25 to 50	1.030	1.009	.036	5.0%
5 to 25	1.020	.990	.051	6.6%
5 or Newer	1.037	1.000	.000	.%
Overall	1.037	1.006	.046	6.0%

## Improved Area

### Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	31	60.8%
	500 to 1,000 sf	16	31.4%
	1,000 to 1,500 sf	3	5.9%
	1,500 to 2,000 sf	1	2.0%
Overall	51	100.0%	
Excluded	0		
Total	51		

### Ratio Statistics for TOT ACT VAL / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LE 500 sf	1.042	1.012	.047	6.1%
500 to 1,000 sf	1.033	.993	.043	5.2%
1,000 to 1,500 sf	1.022	1.054	.060	10.2%
1,500 to 2,000 sf	1.037	1.000	.000	.%
Overall	1.037	1.006	.046	6.0%

## Improvement Quality

### Case Processing Summary

		Count	Percent
quality	AVERAGE	23	45.1%
	FAIR QUAL	14	27.5%
	GOOD QUAL	8	15.7%
	LOW QUAL	1	2.0%
	POOR QUAL	2	3.9%
	VERY GOOD	3	5.9%
Overall		51	100.0%
Excluded		0	
Total		51	

### Ratio Statistics for TOT ACT VAL / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
AVERAGE	1.022	1.006	.037	5.0%
FAIR QUAL	1.075	1.006	.048	6.3%
GOOD QUAL	1.074	.983	.040	5.6%
LOW QUAL	1.169	1.000	.000	.%
POOR QUAL	1.019	.992	.045	6.4%
VERY GOOD	1.026	1.002	.007	1.3%
Overall	1.037	1.006	.046	6.0%

### Improvement Condition

#### Case Processing Summary

		Count	Percent
condition	ABOVE AVG	11	21.6%
	AVERAGE	23	45.1%
	FAIR	7	13.7%
	GOOD	9	17.6%
	POOR	1	2.0%
Overall		51	100.0%
Excluded		0	
Total		51	

#### Ratio Statistics for TOT ACT VAL / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
ABOVE AVG	1.063	.998	.039	5.1%
AVERAGE	1.031	1.005	.047	6.6%
FAIR	1.085	.998	.053	7.0%
GOOD	1.026	.994	.028	4.2%
POOR	1.065	1.000	.000	.%
Overall	1.037	1.006	.046	6.0%

**Vacant Land Median Ratio Stratification**

**Sale Price**

**Case Processing Summary**

	Count	Percent
SPRec LT \$25K	19	61.3%
\$25K to \$50K	9	29.0%
\$50K to \$100K	3	9.7%
Overall	31	100.0%
Excluded	0	
Total	31	

**Ratio Statistics for ACT LAND VAL / VTASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LT \$25K	.999	1.000	.057	8.7%
\$25K to \$50K	.998	.998	.064	9.5%
\$50K to \$100K	.999	1.000	.001	.3%
Overall	.999	1.001	.054	8.4%

**Subclass**

**Case Processing Summary**

		Count	Percent
ABSTR/LND	100	27	87.1%
	550	4	12.9%
Overall		31	100.0%
Excluded		0	
Total		31	

**Ratio Statistics for ACT LAND VAL /VTASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
100	.998	1.006	.056	8.6%
550	1.016	1.007	.038	6.1%
Overall	.999	1.001	.054	8.4%