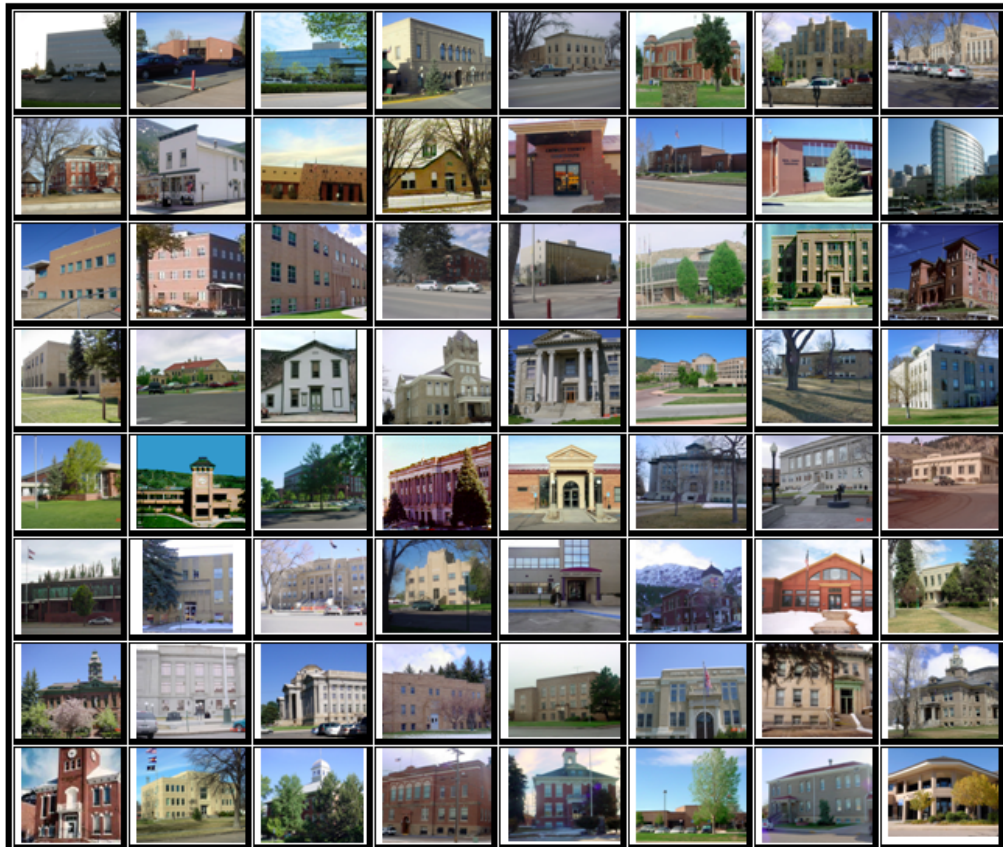




2010  
FREMONT COUNTY  
PROPERTY ASSESSMENT  
STUDY

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WILDROSE  
APPRAISAL, INCORPORATED  
Audit Division



September 15, 2010

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

**RE: Final Report for the 2010 Colorado Property Assessment Study**

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2010 Colorado Property Assessment Study.

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

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

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

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

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

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

## TABLE OF CONTENTS

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

# INTRODUCTION

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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 2010 and is pleased to report its findings for Fremont County in the following report.

# REGIONAL/HISTORICAL SKETCH OF FREMONT COUNTY

## Regional Information

Fremont 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

Fremont County has a population of approximately 47,815 people with 30.1 people per square mile, according to the U.S. Census Bureau's 2009 estimated population data.

The County was established in 1861 and has 1,561 square miles in area. It was named for General John C. Fremont and was one of the original seventeen territorial counties. The county seat is Canon City, named for the nearby Grand Canyon of the Arkansas River.

The majestic Royal Gorge Canyon has been the focal point of Fremont County history since prehistoric times. For centuries Ute Indians knew its secrets as did later groups of Spanish Conquistadors. Lt. Zebulon Pike explored the canyon in the winter of 1806 by traveling up the frozen Arkansas River. The county is named for famed explorer, Captain John Fremont, who arrived in 1843. When Cañon City was incorporated in 1872, it was already a bustling little town, even if it was only four blocks long.

The first Colorado Territory prison was built here in 1871, five years before Colorado became a state. Since that early time, Fremont County has been home to a large number of state and federal correction facilities. But corrections are only part of the local history. Natural resource extraction has also been important. As early as 1872 oil was selling from the Oil Creek area. Nearby, large coal reserves provided further impetus for the railroads to push a route through the Royal Gorge to reach the silver mines in Leadville. This legacy of rail travel into the depths of the Royal Gorge is still available today.

Fremont County's scenic canyons, hot springs and hospitable climate began attracting film makers as early as 1910 when cowboy star, Tom Mix starred in a silent film produced by the Selig Film Company. Over the intervening years, many films have been made here. (*Wikipedia.org & fremontco.com*)

# RATIO ANALYSIS

## Methodology

All significant classes of properties were analyzed. Sales were collected for each property class over the appropriate sale period, which was typically defined as the 18-month period between January 2007 and June 2008. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2008 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and price-related differential for each class of property. Counties were not passed or failed by these

latter measures, but were counseled if there were anomalies noted during our analysis. Qualified sales were based on the qualification code used by each county, which were typically coded as either “Q” or “C.” The ratio analysis included all sales. The data was trimmed for counties with obvious outliers using IAAO standards for data analysis. In every case, we examined the loss in data from trimming to ensure that only true outliers were excluded. Any county with a significant portion of sales excluded by this trimming method was examined further. No county was allowed to pass the audit if more than 5% of the sales were “lost” because of trimming. For the largest 11 counties, the residential ratio statistics were broken down by economic area as well.

## Conclusions

For this final analysis report, the minimum acceptable statistical standards allowed by the State Board of Equalization are:

ALLOWABLE STANDARDS RATIO GRID		
Property Class	Unweighted Median Ratio	Coefficient of Dispersion
Commercial/Industrial	Between .95-1.05	Less than 20.99
Condominium	Between .95-1.05	Less than 15.99
Single Family	Between .95-1.05	Less than 15.99
Vacant Land	Between .95-1.05	Less than 20.99

The results for Fremont County are:

<b>Fremont 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	34	0.979	1.040	8.2	Compliant
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	543	0.965	1.020	9.8	Compliant
Vacant Land	129	0.995	1.030	11.2	Compliant

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

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

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

If either residential or commercial differences were significant using the unit value method, or if data limitations made the comparison invalid, then the next step was to perform a ratio analysis comparing the 2009 and 2010 actual values for each qualified class of property. All qualified vacant land classes were tested using this method. The sale property ratios were arrayed using a range of 0.8 to 1.5, which theoretically excluded changes between years that were due to other unrelated changes in the property. These ratios were also stratified at the appropriate level of analysis. Once the percent change was determined for each appropriate class and sub-class, the next step was to select the unsold sample. This sample

was at least 1% of the total population of unsold properties and excluded any sale properties. The unsold sample was filtered based on the attributes of the sold dataset to closely correlate both groups. The ratio analysis was then performed on the unsold properties and stratified. The median and mean ratio distribution was then compared between the sold and unsold group. A non-parametric test such as the Mann-Whitney test for differences between independent samples was undertaken to determine whether any observed differential was significant. If this test determined that the unsold properties were treated in a manner similar to the sold properties, it was concluded that no further testing was warranted and that the county was in compliance.

If a class or sub-class of property was determined to be significantly different by this method, the final step was to perform a multi-variate mass appraisal model that developed ratio statistics from the sold properties that were then applied to the unsold sample. This test compared the measures of central tendency and confidence intervals for the sold properties with the unsold property sample. If this comparison was also determined to be significantly different, then the conclusion was that the county had treated the unsold properties in a different manner than sold properties.

These tests were supported by both tabular and chart presentations, along with saved sold and unsold sample files.

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

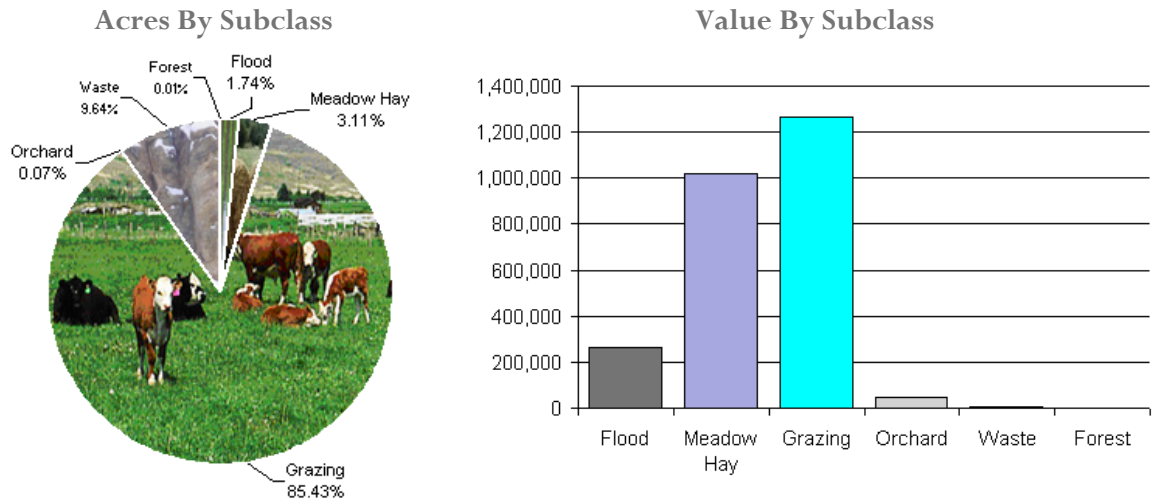
### **Conclusions**

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

### **Recommendations**

None

# AGRICULTURAL LAND STUDY



## Agricultural Land

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

(See Assessor Reference Library Volume 3 Chapter 5.)

### Conclusions

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



<b>Fremont 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	5,100	51.59	263,086	263,086	1.00
4137	Meadow Hay	9,108	111.89	1,019,065	1,019,065	1.00
4147	Grazing	250,159	5.06	1,265,412	1,265,412	1.00
4157	Orchard	213	215.00	45,795	45,795	1.00
4177	Forest	44	1.62	71	71	1.00
4167	Waste	28,217	1.62	6,836	6,836	1.00
<b>Total/Avg</b>		<b>292,840</b>	<b>8.88</b>	<b>2,600,265</b>	<b>2,600,265</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**

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

### **Recommendations**

None

## SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

WRA reviewed the sales verification procedures in 2010 for Fremont 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**

Fremont 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**

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

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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 2010 in Fremont County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14) and by applying the recommended methodology in ARL Vol 3, Chap 4. Subdivision Discounting in the intervening year was accomplished by reducing the absorption period by one year.

### **Conclusions**

Fremont 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.

Fremont 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

Fremont 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

Fremont 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.

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

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

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

Fremont County submitted their personal property written audit plan and was current for the 2010 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Businesses in a selected area
- Accounts with obvious discrepancies
- New businesses filing for the first time
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Businesses with no deletions or additions for 2 or more years



- Non-filing Accounts - Best Information Available
- Accounts close to the \$4,000 actual value exemption status
- Accounts protested with substantial disagreement

### **Conclusions**

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

### **Recommendations**

None

## WILDROSE AUDITOR STAFF

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

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

**Steve Kane**, *Audit Statistician / Field Analyst*

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

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

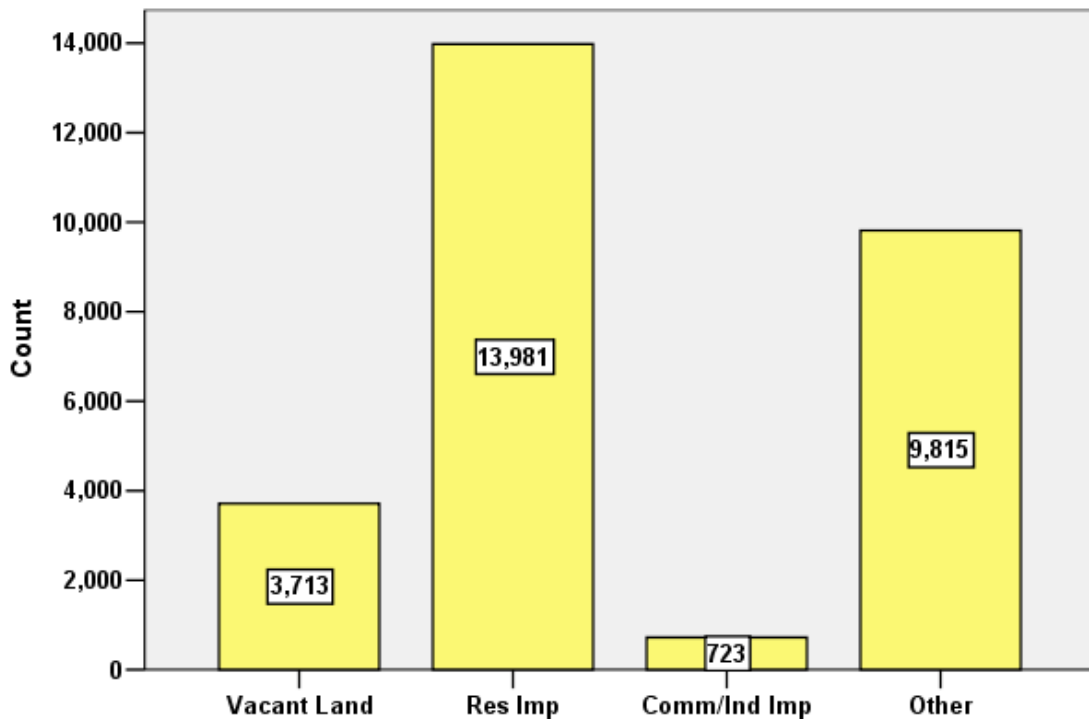
# APPENDICES

## **STATISTICAL COMPLIANCE REPORT FOR FREMONT COUNTY 2010**

### I. OVERVIEW

Fremont County is located in central Colorado. The county has a total of 28,232 real property parcels, according to data submitted by the county assessor’s office in 2010. The following provides a breakdown of property classes for this county:

**Real Property Class Distribution**



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 and 1112) accounted for 78% of all vacant land parcels.

For residential improved properties, single family properties accounted for 97% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 3% of all such properties in this county.



## II. DATA FILES

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

## III. RESIDENTIAL SALES RESULTS

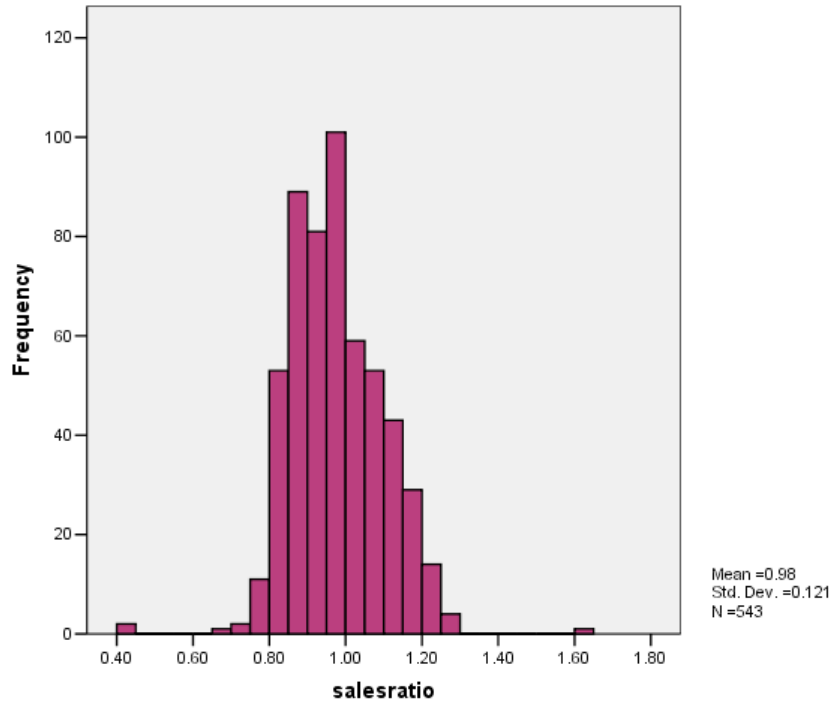
The following steps were taken to analyze the residential sales:

1. Total sales	65,535
2. Selected qualified sales	3,212
3. Select improved sales	2,681
4. Select residential sales only	2,166
5. Sales between January 1, 2007 and June 30, 2008	543

The sales ratio analysis was analyzed as follows:

Median	<b>0.965</b>
Price Related Differential	<b>1.020</b>
Coefficient of Dispersion	<b>.098</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

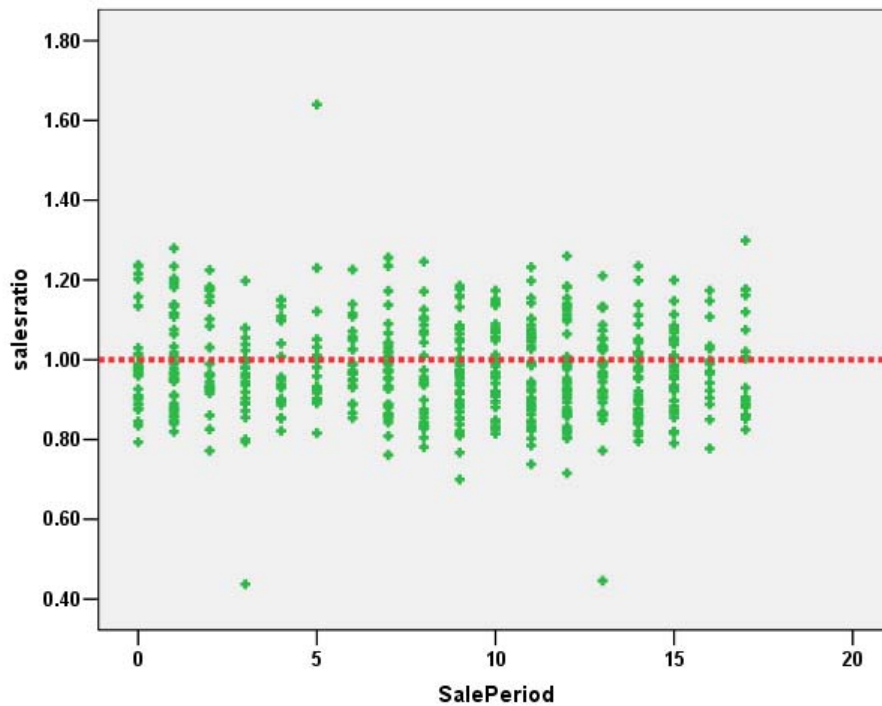
We next analyzed the residential dataset using the 18-month sale period for any residual market trending, with the following results:

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

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.991	.010		94.445	.000
	SalePeriod	-.002	.001	-.073	-1.692	.091

a. Dependent Variable: salesratio

**Residential Sale Price Market Trend**



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

### Sold/Unsold Analysis

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

Group	No.	Median	Mean
Unsold	13,439	\$99	\$103
Sold	542	\$99	\$100

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

### IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

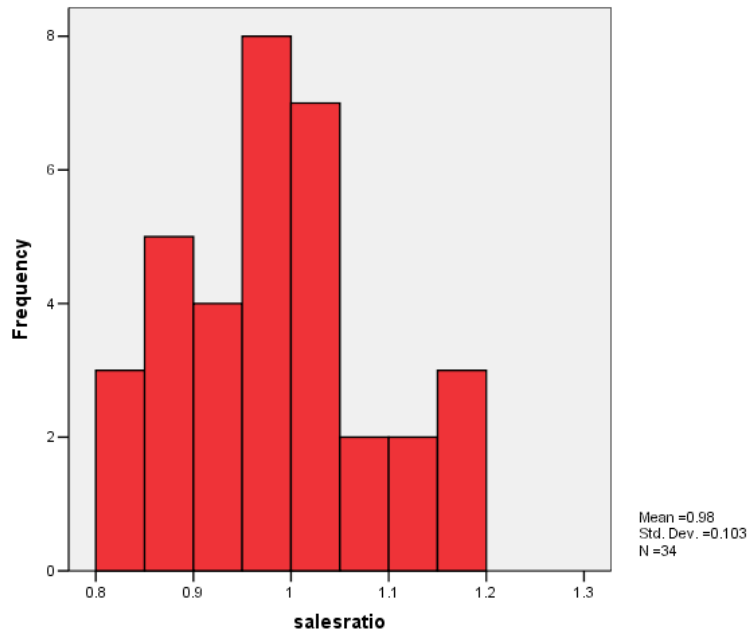
The following steps were taken to analyze the commercial sales:

1. Total sales	65,535
2. Selected qualified sales	3,212
3. Select improved sales	2,681
4. Select commercial/industrial sales only	100
5. Sales between January 2007 and June 2008	34

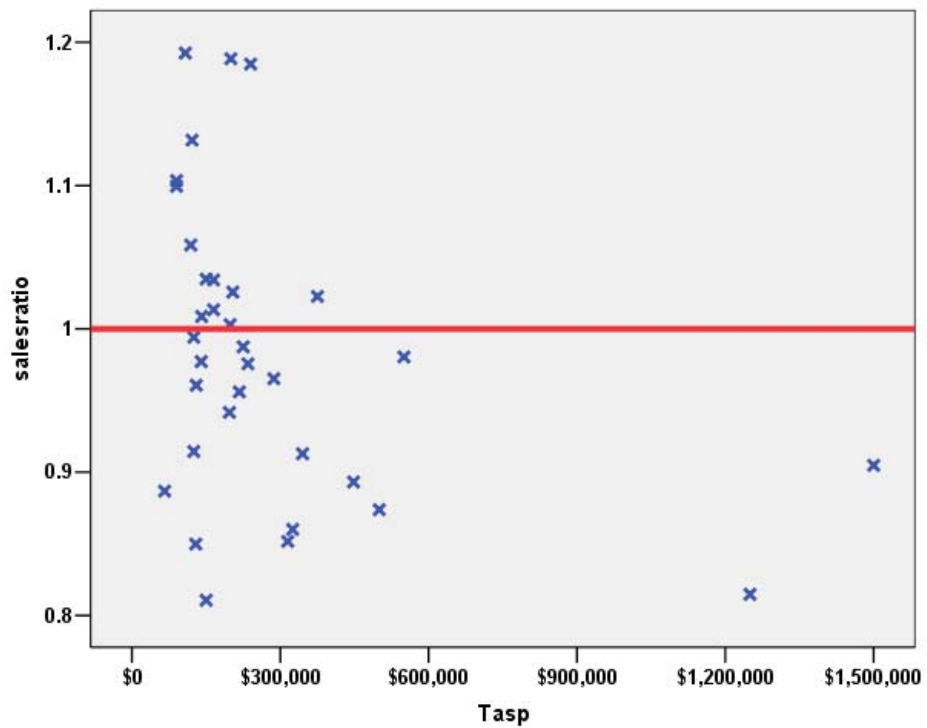
The sales ratio analysis was analyzed as follows:

Median	<b>0.979</b>
Price Related Differential	<b>1.04</b>
Coefficient of Dispersion	<b>.082</b>

The above table indicates that the Fremont 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

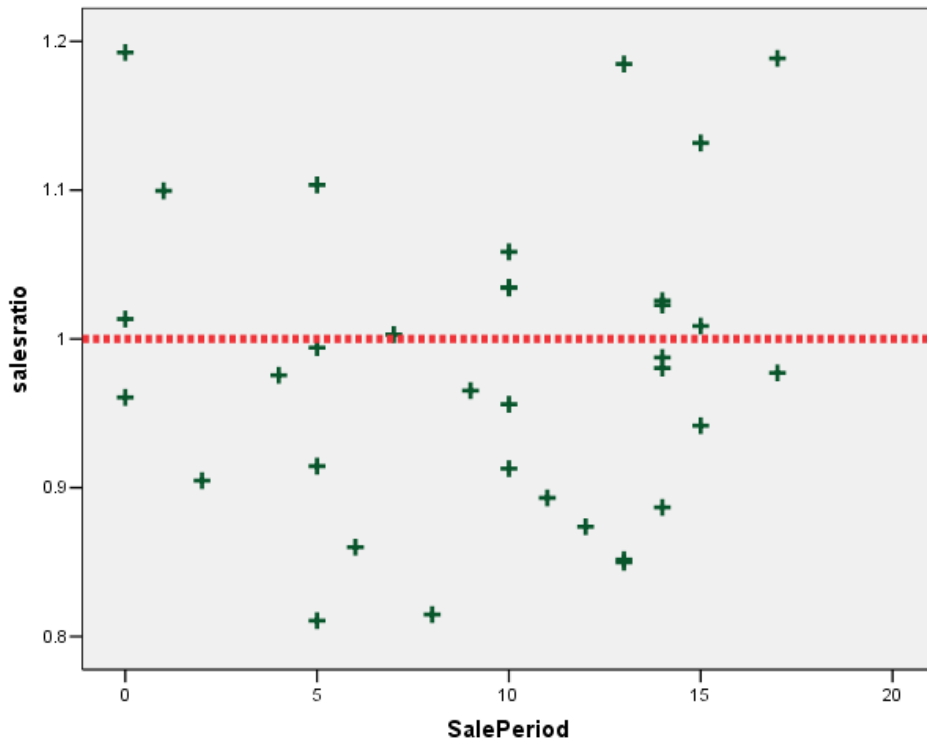
The 34 commercial/industrial sales were next analyzed, examining the sale ratios across an 18-month sale period with the following results:

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

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.980	.038		26.122	.000
	SalePeriod	.000	.004	.017	.094	.926

a. Dependent Variable: salesratio

**Commercial Market Trend Analysis**



The market trend results indicated no statistically significant trend. We concur that no market trend adjustments were warranted for properties in this class for Fremont County.

### Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if the assessor was valuing each group consistently, as follows:

Group	No.	Median	Mean
Unsold	690	\$53	\$68
Sold	3	\$59	\$78

Based on these results, we concluded that the Fremont County Assessor has valued sold and unsold commercial properties consistently.

### V. VACANT LAND SALE RESULTS

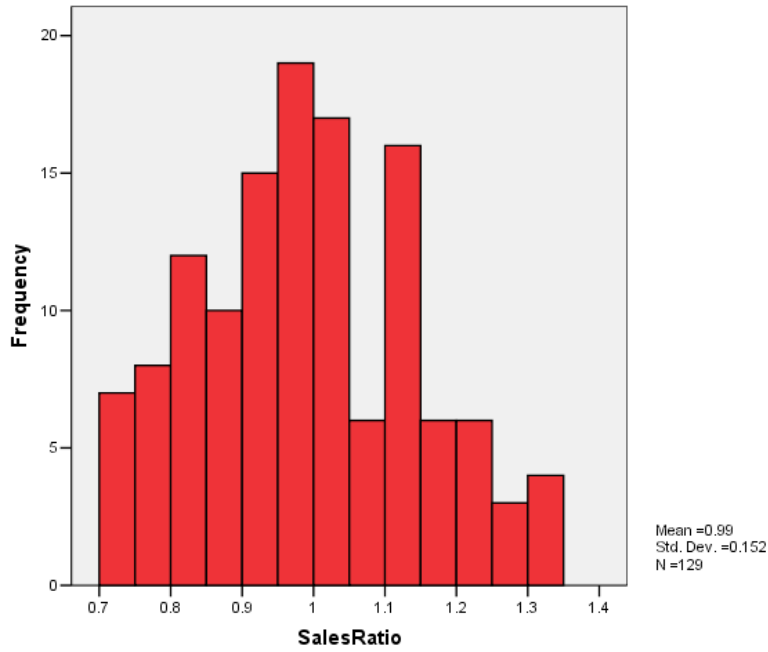
The following steps were taken to analyze vacant land sales:

1. Total sales	65,535
2. Selected qualified sales	3,212
3. Select vacant land sales	479
4. Select non-agricultural sales	479
5. Sales between July 1, 2006 and June 30, 2008	129

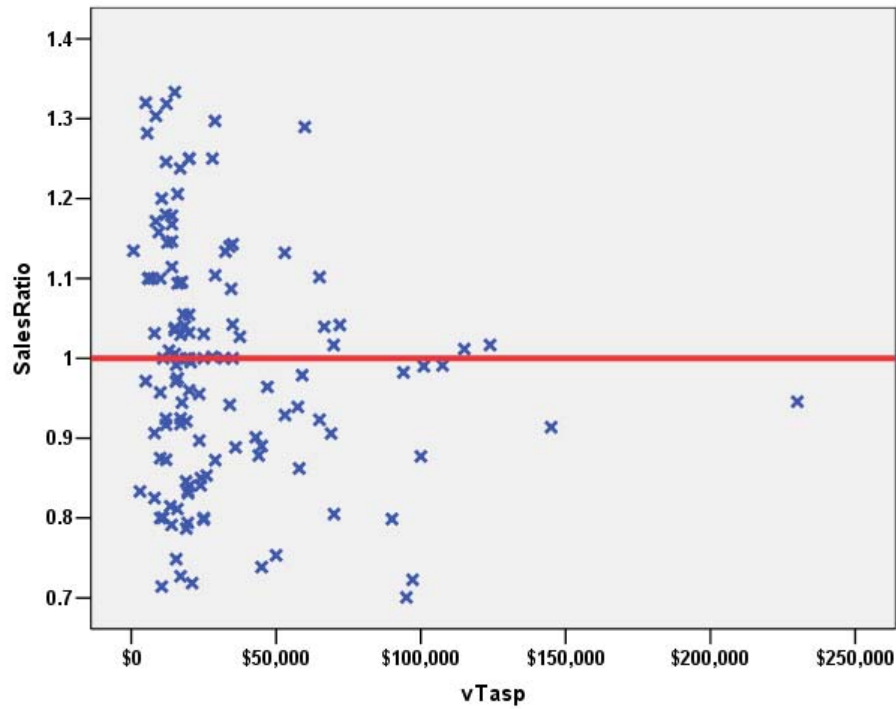
The sales ratio analysis was analyzed as follows:

Median	<b>0.995</b>
Price Related Differential	<b>1.030</b>
Coefficient of Dispersion	<b>.112</b>

The above tables indicate that the Fremont 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

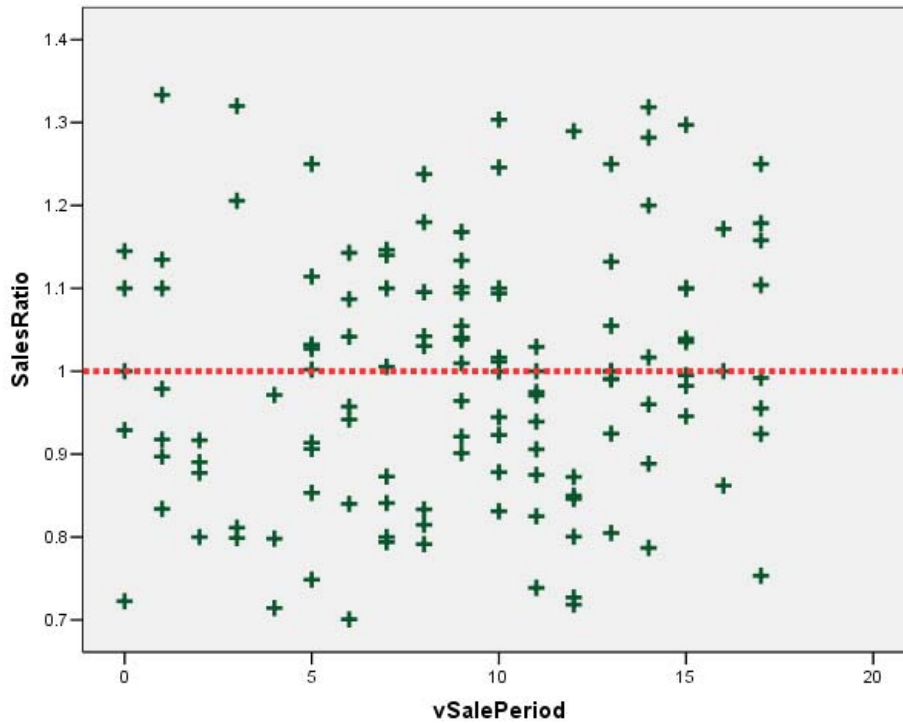
The 129 vacant land sales were next analyzed, examining the sale ratios across the 18 month sale period with the following results:

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

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.957	.029		33.400	.000
	vSalePeriod	.004	.003	.123	1.398	.165

a. Dependent Variable: SalesRatio

**Vacant Land Sales Market Trend Analysis**



The market trend results indicated no statistically significant trend. We concur that no market trend adjustments were warranted for properties in this class for Fremont County.

### **Sold/Unsold Analysis**

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

<b>Group</b>	<b>N</b>	<b>Median</b>	<b>Mean</b>
<b>Unsold</b>	3,334	1.15	1.45
<b>Sold</b>	108	1.15	1.16

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

### **V. AGRICULTURAL IMPROVEMENTS ANALYSIS**

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

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

**Descriptives**

abstrimp			Statistic	Std. Error	
ImpValSF	1212	Mean	\$76.06	\$ .229	
		95% Confidence Interval for Mean	\$75.61		
		Lower Bound			
		Upper Bound	\$76.51		
		5% Trimmed Mean	\$74.67		
		Median	\$74.10		
		Variance	705.879		
		Std. Deviation	\$26.568		
		Minimum	\$2		
		Maximum	\$305		
		Range	\$303		
		Interquartile Range	\$32		
		Skewness	.999		.021
		Kurtosis	2.706		.042
	4277	Mean	\$94.95	\$1.160	
		95% Confidence Interval for Mean	\$92.68		
		Lower Bound			
		Upper Bound	\$97.23		
		5% Trimmed Mean	\$92.83		
		Median	\$89.04		
		Variance	1570.566		
		Std. Deviation	\$39.630		
		Minimum	\$13		
		Maximum	\$268		
		Range	\$255		
		Interquartile Range	\$52		
		Skewness	.814		.072
		Kurtosis	.628		.143

**VI. Conclusions**

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

**STATISTICAL ABSTRACT**

**Residential**

**Ratio Statistics for currtot / Tasp**

Mean		.976
95% Confidence Interval for Mean	Lower Bound	.966
	Upper Bound	.986
Median		.965
95% Confidence Interval for Median	Lower Bound	.955
	Upper Bound	.974
	Actual Coverage	95.2%
Weighted Mean		.957
95% Confidence Interval for Weighted Mean	Lower Bound	.938
	Upper Bound	.976
Price Related Differential		1.020
Coefficient of Dispersion		.098
Coefficient of Variation	Mean Centered	12.4%

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.

**Commercial/Industrial**

**Ratio Statistics for currtot / Tasp**

Mean		.983
95% Confidence Interval for Mean	Lower Bound	.947
	Upper Bound	1.019
Median		.979
95% Confidence Interval for Median	Lower Bound	.914
	Upper Bound	1.023
	Actual Coverage	97.6%
Weighted Mean		.942
95% Confidence Interval for Weighted Mean	Lower Bound	.898
	Upper Bound	.986
Price Related Differential		1.043
Coefficient of Dispersion		.082
Coefficient of Variation	Mean Centered	10.5%

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

**Vacant Land**

**Ratio Statistics for currInd / vTasp**

Mean		.993
95% Confidence Interval for Mean	Lower Bound	.966
	Upper Bound	1.019
Median		.995
95% Confidence Interval for Median	Lower Bound	.955
	Upper Bound	1.017
	Actual Coverage	96.6%
Weighted Mean		.964
95% Confidence Interval for Weighted Mean	Lower Bound	.935
	Upper Bound	.992
Price Related Differential		1.030
Coefficient of Dispersion		.123
Coefficient of Variation	Mean Centered	15.3%

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

**Residential Median Ratio Stratification**

**Sale Price**

**Case Processing Summary**

		Count	Percent
SPRec	LT \$25K	1	.2%
	\$25K to \$50K	10	1.8%
	\$50K to \$100K	128	23.6%
	\$100K to \$150K	227	41.8%
	\$150K to \$200K	119	21.9%
	\$200K to \$300K	44	8.1%
	\$300K to \$500K	11	2.0%
	\$500K to \$750K	2	.4%
	Over \$1,000K	1	.2%
Overall		543	100.0%
Excluded		0	
Total		543	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LT \$25K	.988	1.000	.000	.
\$25K to \$50K	1.122	.996	.082	11.8%
\$50K to \$100K	1.012	1.004	.104	12.4%
\$100K to \$150K	.957	1.001	.093	12.1%
\$150K to \$200K	.957	1.001	.078	10.3%
\$200K to \$300K	.923	1.002	.103	13.8%
\$300K to \$500K	.926	1.012	.118	14.5%
\$500K to \$750K	.933	.999	.013	1.8%
Over \$1,000K	.446	1.000	.000	.
Overall	.965	1.020	.098	12.6%

**Subclass**

**Case Processing Summary**

	Count	Percent
preduce	12120	528 97.2%
	12150	7 1.3%
	12200	6 1.1%
	12400	2 .4%
Overall	543	100.0%
Excluded	0	
Total	543	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
12120	.965	1.010	.096	12.2%
12150	1.026	1.021	.070	11.0%
12200	.890	1.014	.067	10.8%
12400	.442	.994	.009	1.3%
Overall	.965	1.020	.098	12.6%

**Age**

**Case Processing Summary**

		Count	Percent
AgeRec	0	1	.2%
	Over 100	89	16.4%
	75 to 100	49	9.0%
	50 to 75	93	17.1%
	25 to 50	194	35.7%
	5 to 25	105	19.3%
	5 or Newer	12	2.2%
Overall		543	100.0%
Excluded		0	
Total		543	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.438	1.000	.000	.
Over 100	.928	1.012	.098	12.6%
75 to 100	.946	1.019	.088	10.8%
50 to 75	.969	1.014	.105	12.8%
25 to 50	.969	1.030	.091	12.5%
5 to 25	.971	1.018	.103	12.9%
5 or Newer	1.041	1.014	.080	10.0%
Overall	.965	1.020	.098	12.6%

**Improved Area**

**Case Processing Summary**

		Count	Percent
ImpSFRec	0	1	.2%
	LE 500 sf	3	.6%
	500 to 1,000 sf	117	21.5%
	1,000 to 1,500 sf	258	47.5%
	1,500 to 2,000 sf	102	18.8%
	2,000 to 3,000 sf	51	9.4%
	3,000 sf or Higher	11	2.0%
Overall		543	100.0%
Excluded		0	
Total		543	



**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
0	.438	1.000	.000	.
LE 500 sf	1.027	1.011	.124	20.2%
500 to 1,000 sf	.930	1.016	.100	13.1%
1,000 to 1,500 sf	.965	1.013	.097	12.5%
1,500 to 2,000 sf	.975	1.013	.091	11.1%
2,000 to 3,000 sf	1.008	1.010	.082	10.7%
3,000 sf or Higher	.922	1.121	.112	19.2%
Overall	.965	1.020	.098	12.6%

**Improvement Quality**

**Case Processing Summary**

	Count	Percent
qual 1	1	.2%
2	20	3.7%
3	55	10.1%
4	428	79.0%
5	37	6.8%
6	1	.2%
Overall	542	100.0%
Excluded	1	
Total	543	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1	1.080	1.000	.000	.
2	.969	1.051	.112	13.8%
3	1.085	1.007	.103	12.2%
4	.965	1.011	.089	11.5%
5	.870	1.002	.092	14.0%
6	.921	1.000	.000	.
Overall	.965	1.019	.097	12.4%



**Commercial Median Ratio Stratification**

**Sale Price**

**Case Processing Summary**

		Count	Percent
SPRec	\$50K to \$100K	3	8.8%
	\$100K to \$150K	11	32.4%
	\$150K to \$200K	5	14.7%
	\$200K to \$300K	6	17.6%
	\$300K to \$500K	6	17.6%
	\$500K to \$750K	1	2.9%
	Over \$1,000K	2	5.9%
Overall		34	100.0%
Excluded		0	
Total		34	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
\$50K to \$100K	1.100	.987	.066	13.7%
\$100K to \$150K	.994	1.006	.084	11.3%
\$150K to \$200K	1.013	.999	.055	9.4%
\$200K to \$300K	.982	1.001	.051	9.6%
\$300K to \$500K	.883	1.000	.046	7.5%
\$500K to \$750K	.980	1.000	.000	.
Over \$1,000K	.860	.995	.052	7.4%
Overall	.979	1.043	.082	10.5%

**Subclass**

**Case Processing Summary**

		Count	Percent
preduse	22120	14	41.2%
	22200	6	17.6%
	22300	10	29.4%
	22350	3	8.8%
	32150	1	2.9%
Overall		34	100.0%
Excluded		0	
Total		34	

**Ratio Statistics for currtot / Tasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
22120	.982	1.041	.085	11.5%
22200	.982	.972	.095	12.7%
22300	.997	1.062	.059	8.5%
22350	.913	1.034	.076	12.2%
32150	.860	1.000	.000	.
Overall	.979	1.043	.082	10.5%

**Vacant Land Median Ratio Stratification**

**Case Processing Summary**

	Count	Percent
vpreduse 1000	93	72.1%
2000	1	.8%
3000	1	.8%
5400	2	1.6%
5500	5	3.9%
6000	2	1.6%
11120	6	4.7%
11350	6	4.7%
12120	12	9.3%
12150	1	.8%
Overall	129	100.0%
Excluded	0	
Total	129	

**Ratio Statistics for currInd / vTasp**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1000	1.000	1.028	.127	15.6%
2000	.875	1.000	.000	.
3000	1.040	1.000	.000	.
5400	.774	1.045	.077	10.9%
5500	.878	1.023	.113	14.5%
6000	.865	1.153	.190	26.9%
11120	.963	1.023	.110	13.3%
11350	.979	1.017	.064	8.7%
12120	1.003	1.006	.107	15.2%
12150	1.143	1.000	.000	.
Overall	.995	1.030	.123	15.3%