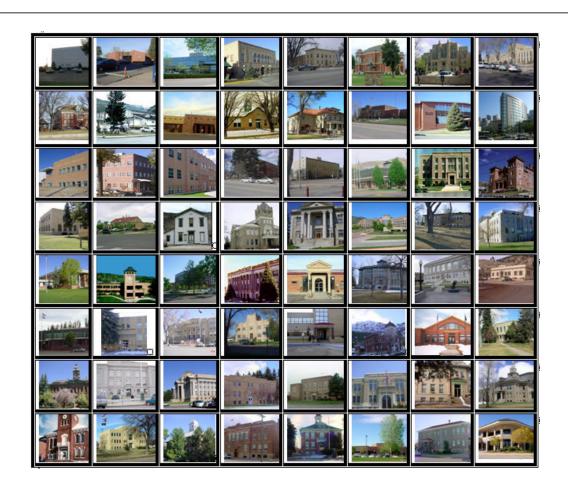


2013 GARFIELD COUNTY PROPERTY ASSESSMENT STUDY







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.

Harry J. Fuller Project Manager

Harry J. Zulla

Wildrose Appraisal Inc. – Audit Division



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INTRODUCTION



The State Board of Equalization (SBOE) reviews assessments for conformance to the Constitution. The SBOE will order revaluations for counties whose valuations do not reflect the proper valuation period level of value.

The statutory basis for the audit is found in C.R.S. 39-1-104 (16)(a)(b) and (c).

The legislative council sets forth two criteria that are the focus of the audit group:

To determine whether each county assessor is applying correctly the constitutional and statutory provisions, compliance requirements of the State Board of Equalization, and the manuals published by the State Property Tax Administrator to arrive at the actual value of each class of property.

To determine if each assessor is applying correctly the provisions of law to the actual values when arriving at valuations for assessment of all locally valued properties subject to the property tax.

The property assessment audit conducts a two-part analysis: A procedural analysis and a statistical analysis.

The procedural analysis includes all classes of property and specifically looks at how the assessor develops economic areas, confirms and qualifies sales, and develops time adjustments. The audit also examines the procedures for adequately discovering, classifying and valuing agricultural outbuildings, discovering subdivision build-out subdivision and discounting procedures. Valuation methodology for vacant land, improved properties commercial residential and properties is examined. Procedures for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests and non-producing patented mining claims are also reviewed.

Statistical analysis is performed on vacant land, residential properties, commercial industrial properties, agricultural land, and personal property. The statistical study results are compared with State Board of Equalization compliance requirements and the manuals published by the State Property Tax Administrator.

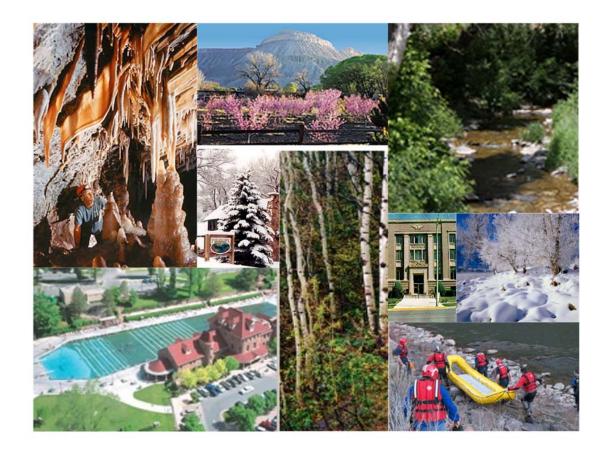
Wildrose Audit has completed the Property Assessment Study for 2013 and is pleased to report its findings for Garfield County in the following report.



REGIONAL/HISTORICAL SKETCH OF GARFIELD COUNTY

Regional Information

Garfield County is located in the Western Slope region of Colorado. The Western Slope of Colorado refers to the region west of the Rocky Mountains. It includes Archuleta, Delta, Dolores, Eagle, Garfield, Grand, Gunnison, Hinsdale, Jackson, La Plata, Mesa, Moffat, Montezuma, Montrose, Ouray, Pitkin, Rio Blanco, Routt, San Juan, San Miguel, and Summit counties.





Historical Information

Garfield County has a population of approximately 56,389 people with 19.13 people per square mile, according to the U.S. Census Bureau's 2010 census data. This represents a 28.77 percent change from the 2000 Census.

Garfield County is located in the scenic plateau and canyon country of western Colorado. Covering 3000 square miles, it is 110 miles long and extends to the Utah border. It was carved out of Summit County on February 10, 1883. In historical times, the earliest inhabitants were the Ute Indians, and the land was theirs by treaty until April 12, 1880, when they were removed to reservations after the "Meeker Massacre" of 1879. explorers, missionaries, miners, and a few settlers had already visited the area of Garfield County, the main influx of settlers began to arrive and towns were founded beginning in 1880.

The towns in Garfield County are located along the Colorado and Roaring Fork rivers in the eastern end of the county, while much of the western portion has only a few roads and fewer inhabitants. The town of Defiance was founded in 1831 by Isaac Cooper who hoped to develop the natural hot springs into a resort. Unfortunately he died before his dream could be realized. It became the county seat in 1883 and was incorporated and renamed in 1885 as Glenwood Springs, which remains the county seat and largest city today. In 1887 a coal tycoon, Walter Devereaux purchased the hot springs and vapor caves for \$125,000 and began to build the famous pool and spa resort. This was the same year that the Denver and Rio Grande Railroad extended its tracks through the difficult Glenwood Canyon and into Glenwood Springs, Aspen and beyond.

While the county retains part of its ranching and farming heritage, and tourism is important, every town from Carbondale to Parachute has become a bedroom community to provide workers to the ever-booming and ever-expanding Aspen skiing economy. People commute to Aspen, 86 miles from Battlement Mesa, as well as to Grand Junction, 63 miles from Rifle.

(Garfield County, Colorado by Judy Crook and Vikki Gray)



RATIO ANALYSIS

Methodology

All significant classes of properties were Sales were collected for each analyzed. property class over the appropriate sale period, which was typically defined as the 18-month period between January 2011 and June 2012. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2012 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and pricerelated differential for each class of property. Counties were not passed or failed by these

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

Conclusions

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

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



The results for Garfield County are:

Garfield County Ratio Grid						
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis	
Commercial/Industrial	73	1.005	0.996	12.6	Compliant	
Condominium	N/A	N/A	N/A	N/A	N/A	
Single Family	1,279	0.999	1.013	7.8	Compliant	
Vacant Land	93	1.001	1.075	10.9	Compliant	

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

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

Recommendations



TIME TRENDING VERIFICATION

Methodology

While we recommend that counties use the inverted ratio regression analysis method to account for market (time) trending, some counties have used other IAAO-approved methods, such as the weighted monthly median approach. We are not auditing the methods used, but rather the results of the methods used. Given this range of methodologies used to account for market trending, we concluded that the best validation method was to examine the sale ratios for each class across the appropriate sale period. To be specific, if a county has considered and adjusted correctly for market trending, then the sale ratios should remain stable (i.e. flat) across the sale period. If a residual market trend is detected, then the county may or may not have addressed market

trending adequately, and a further examination is warranted. This validation methodology also considers the number of sales and the length of the sale period. Counties with few sales across the sale period were carefully examined to determine if the statistical results were valid.

Conclusions

After verification and analysis, it has been determined that Garfield County has complied with the statutory requirements to analyze the effects of time on value in their county. Garfield County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations



SOLD/UNSOLD ANALYSIS

Methodology

Garfield 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. 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 nonparametric test such as the Mann-Whitney test for differences between independent samples was undertaken to determine whether any observed differential was significant. If this test determined that the unsold properties were treated in a manner similar to the sold properties, it was concluded that no further testing was warranted and that the county was in compliance.

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

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



Sold/Unsold R	esults
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	Compliant

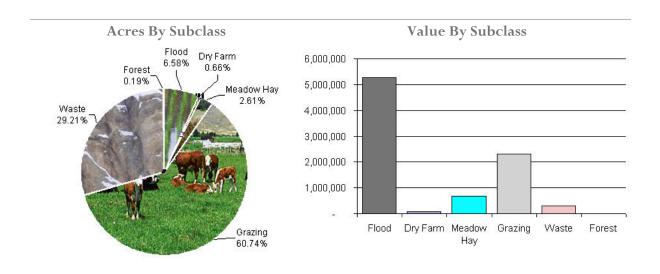
Conclusions

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

Recommendations



AGRICULTURAL LAND STUDY



Agricultural Land

County records were reviewed to determine major land categories such as irrigated farm, dry farm, meadow hay, grazing and other In addition, county records were 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 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:



	Garfield County Agricultural Land Ratio Grid					
Abstract Code	Land Class	Number Of Acres	County Value Per Acre 7	County Assessed Total Value	WRA Total Value	Ratio
4117	Flood	37,974	139.00	5,259,762	5,240,280	1.00
4127	Dry Farm	3,803	17.00	65,745	68,846	0.95
4137	Meadow Hay	15,086	46.00	689,190	689,190	1.00
4147	Grazing	350,576	7.00	2,315,248	2,315,248	1.00
4177	Forest	1,119	2.00	12,210	12,210	1.00
4167	Waste	168,584	2.00	294,276	294,276	1.00
Total/Avg		577,142	15.00	8,636,432	8,620,050	1.00

Recommendations



Agricultural Outbuildings

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.74 through 5.77 were being followed.

Conclusions

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

Recommendations

None

Agricultural Land Under Improvements

Methodology

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

Garfield County utilized the following discovery method(s):

- Questionnaires
- In-Person Interviews
- Personal Knowledge of Owners and Tenants

Conclusions

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

Recommendations



SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

WRA reviewed the sales verification procedures in 2013 for Garfield County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 60 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 inadequate, fail to reflect typical properties, or have been disqualified for insufficient cause. In addition, the contractor has reviewed disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis 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 Garfield County:

- 0100 Residential Lots
- 0200 Commercial Lots

Conclusions

Garfield County appears to be doing an excellent job of verifying their sales. WRA agreed with the county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

adequately identified homogeneous economic areas comprised of smaller neighborhoods. Each economic area defined is equally subject to a set of economic forces that impact the value of the properties within that geographic area and this has been adequately addressed. Each economic area defined adequately delineates an area that will give "similar values for similar properties in similar areas."

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Natural Resource Valuation Procedures, the income approach was applied to determine value for production of earth and stone products. The number of tons was multiplied by an economic royalty rate determined by the Division of Property Taxation to determine income. The income was multiplied by a recommended Hoskold factor to determine the actual value. The Hoskold factor is determined by the life of the reserves or the lease. Value is based on two variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

The County has applied the correct formulas and state guidelines to earth and stone production.

Recommendations

None

Producing Oil and Gas

Methodology

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

STATUTORY REFERENCES

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

Actual value determined - when.

(2) The valuation for assessment of leaseholds and lands producing oil or gas shall be determined as provided in article 7 of this title. § 39-1-103, C.R.S.

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

Valuation:

Valuation for assessment.

- (1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:
- (a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;
- (b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year.

§ 39-7-102, C.R.S.

Conclusions

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

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2013 in Garfield 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

Garfield County has implemented proper procedures to adequately estimate absorption periods, discount rates, and lot values for qualifying subdivisions.

Recommendations



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

Garfield County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural, commercial and ski area possessory interest properties. The county has also been queried as to their confidence that the possessory interest properties have been discovered and placed on the tax rolls.

Conclusions

Garfield County has implemented a discovery process to place possessory interest properties on the roll. They have also correctly and consistently applied the correct procedures and valuation methods in the valuation of possessory interest properties.

Recommendations



PERSONAL PROPERTY AUDIT

Garfield 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.

Garfield 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.

Garfield 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:

- Accounts with obvious discrepancies
- New businesses filing for the first time
- Accounts with greater than 10% change
- 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 \$7,000 actual value exemption status
- Accounts protested with substantial disagreement

Conclusions

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

Recommendations



WILDROSE AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

Suzanne Howard, Audit Administrative Manager

Steve Kane, Audit Statistician

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



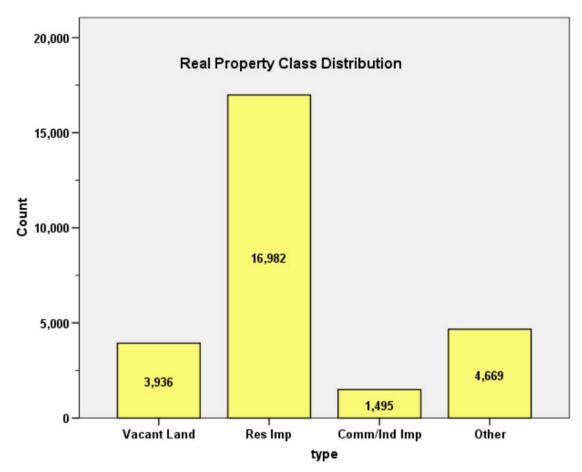
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR GARFIELD COUNTY 2013

I. OVERVIEW

Garfield County is a mountain resort county located in west central Colorado. The county has a total of 27,082 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 60.1% of all vacant land parcels.

For residential improved properties, single family properties accounted for 86.9% of all residential properties.



Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 5.5% 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 Garfield Assessor's Office in April 2013. The data included all 5 property record files as specified by the Auditor.

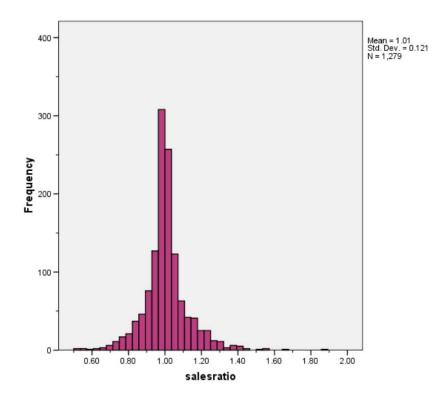
III. RESIDENTIAL SALES RESULTS

There were 1,279 qualified residential sales for this analysis. The sale period ran from July 2010 to June 2012.

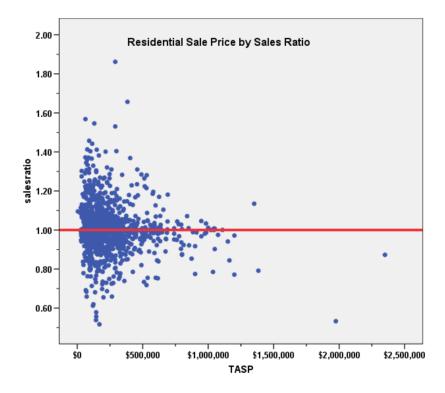
The sales ratio analysis was analyzed as follows:

Median	0.999
Price Related Differential	1.013
Coefficient of Dispersion	.078

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 24-month sale period for any residual market trending, as follows:

Coefficients^a

Mode	I	Unstandardize	d Coefficients	Standardized Coefficients		
		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.004	.006		167.571	.000
	SalePeriod	.000	.001	.014	.482	.630

a. Dependent Variable: salesratio





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 2013 between each group, as follows:

Group	N	Median	Mean
Unsold	15,279	\$129	\$142
Sold	1,276	\$122	\$135

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

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

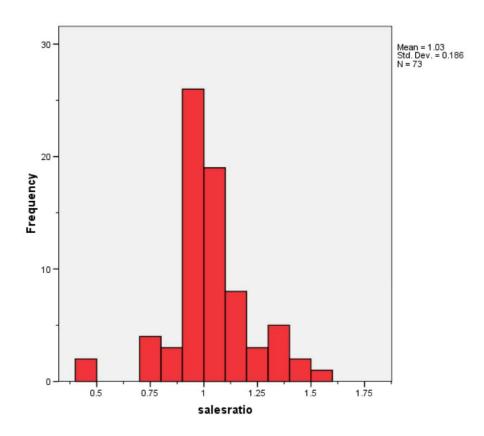
There were 73 qualified commercial sales for this analysis. The sale period ran from July 2009 to June 2012.



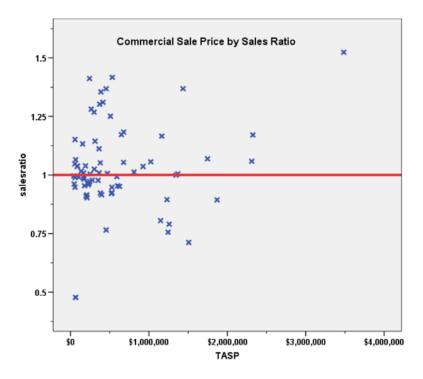
The sales ratio analysis was analyzed as follows:

Median	1.005
Price Related Differential	0.996
Coefficient of Dispersion	.126

The above tables indicate that the Garfield County commercial/industrial sale ratios were in compliance with the SBOE standards. The following histogram and scatter plot describe the sales ratio distribution further:







Commercial Market Trend Analysis

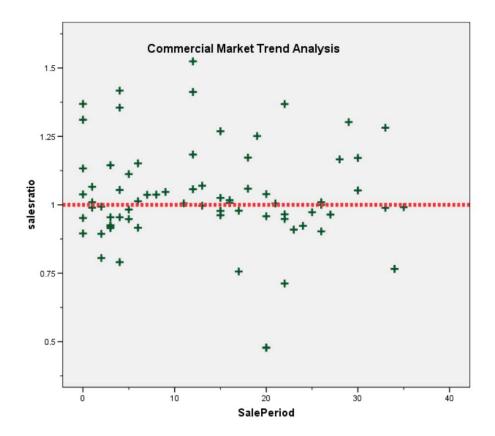
The assessor did not apply any market trend adjustment to the commercial dataset. The commercial sales were analyzed, examining the sale ratios across the 36 month sale period with the following results:

Coefficients^a

Model		Unstandardize	d Coefficients	Standardized Coefficients		
		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.050	.036		29.113	.000
	SalePeriod	001	.002	083	700	.486

a. Dependent Variable: salesratio





The market trend results indicated no statistically significant trend. We concur that no market trend adjustments were warranted for properties in this class for Garfield 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. The following results indicate that based on the median actual value, we concluded that sold and unsold commercial properties were valued consistently:

Group	No, Props	Median Val / SF	Mean Val / SF
Unsold	1,318	\$105	\$125
Sold	73	\$137	\$167

We next ran the comparison between sold and unsold commercial properties using the change in value between 2010 and 2013, as follows:

Group	No, Props	Median % Chg Val	Mean % Chg Val
Unsold	1,426	0.835	0.897
Sold	73	0.865	0.908



Based on the two comparison analyses, we concluded that Garfield County has valued sold and unsold commercial properties consistently.

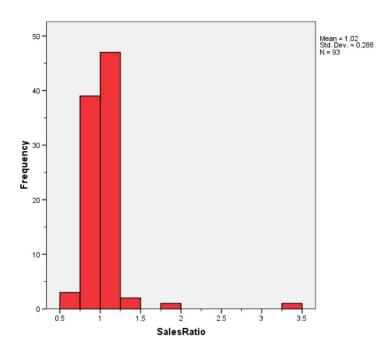
V. VACANT LAND SALE RESULTS

There were 93 total qualified vacant land sales for this analysis. The sale period ran from July 2009 to June 2012.

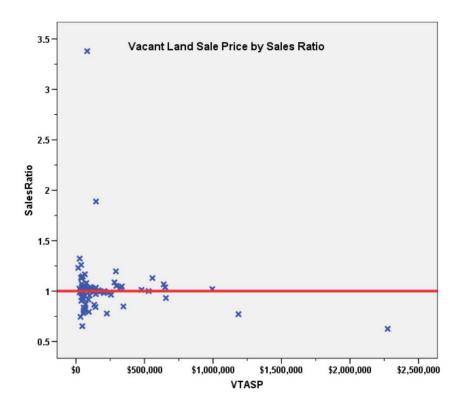
The sales ratio analysis was analyzed as follows:

Median	1.001
Price Related Differential	1.075
Coefficient of Dispersion	.109

The above tables indicate that the Garfield 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

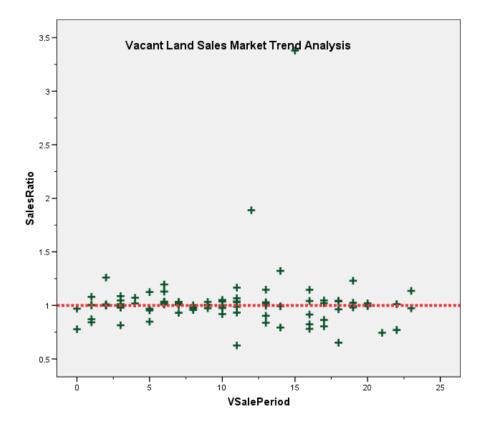
The assessor did apply market trend adjustments to the vacant land dataset. The 93 vacant land sales were analyzed, examining the sale ratios across the 24 month sale period with the following results:

Coefficients^a

Mode	el	Unstandardize	d Coefficients	Standardized Coefficients		
		В	Std. Error	Beta	t	Sig.
1	(Constant)	1.006	.058		17.427	.000
	VSalePeriod	.002	.005	.038	.363	.717

a. Dependent Variable: SalesRatio





The above analysis indicated that there was no significant residual market trending in the sales ratio across the 24 month sale period. We concluded that the assessor has applied market trending adjustments in an appropriate manner.

Sold/Unsold Analysis

We compared the median change in actual value between 2011 and 2013 for vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Group	N	Median	Mean
Unsold	3,777	0.57	0.68
Sold	90	0.55	0.62

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

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

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

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



Descriptives

	abstrin	пр		Statistic	Std. Error
ImpValSF	1212	Mean		75.7714	.52093
		95% Confidence Interval for Mean	Lower Bound	74.7500	
		TOT MEAT	Upper Bound	76.7929	
		5% Trimmed Mean		75.1450	
		Median		76.8632	
		Variance		773.387	
		Std. Deviation		27.80983	
		Minimum		3.37	
		Maximum		205.64	
		Range		202.27	
		Interquartile Range		36.70	
		Skewness		.328	.046
		Kurtosis		.282	.092
	4277	Mean		83.9667	3.85284
		95% Confidence Interval for Mean	Lower Bound	76.3689	
		IOI MEAII	Upper Bound	91.5646	
		5% Trimmed Mean		79.3196	
		Median		74.0759	
		Variance		2954.037	
		Std. Deviation		54.35105	
		Minimum		9.43	
		Maximum		348.23	
		Range		338.80	
		Interquartile Range		66.35	
		Skewness		1.508	.172
		Kurtosis		3.845	.343

VI. CONCLUSIONS

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



STATISTICAL ABSTRACT Residential Median Ratio

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Con	fidence Interval fo	or Median		95% Confiden Weighte				Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
1.006	.999	1.013	.999	.997	1.001	95.6%	.993	.983	1.003	1.013	.078	12.0%

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

Commercial/Industrial Median Ratio

Ratio Statistics for CURRTOT / TASP

	95% Confiden Me			95% Con	fidence Interval fo	or Median		95% Confiden Weighte				Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
1.030	.987	1.074	1.005	.978	1.038	96.6%	1.066	.975	1.157	.966	.126	18.1%

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 Median Ratio

	95% Confiden Me			95% Con	fidence interval fo	or Median		95% Confiden Weighte				Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
1.024	.965	1.083	1.001	.996	1.016	96.2%	.953	.850	1.056	1.075	.109	28.1%

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 Sale Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	1	.1%
	\$25K to \$50K	43	3.4%
	\$50K to \$100K	190	14.9%
	\$100K to \$150K	227	17.7%
	\$150K to \$200K	225	17.6%
	\$200K to \$300K	271	21.2%
	\$300K to \$500K	207	16.2%
	\$500K to \$750K	74	5.8%
	\$750K to \$1,000K	25	2.0%
	Over \$1,000K	16	1.3%
Overall		1279	100.0%
Excluded		0	
Total		1279	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LT \$25K	1.095	1.000	.000	.%
\$25K to \$50K	.996	1.003	.071	10.5%
\$50K to \$100K	1.005	1.004	.104	14.8%
\$100K to \$150K	1.003	1.001	.085	13.2%
\$150K to \$200K	1.000	1.000	.068	10.4%
\$200K to \$300K	.999	.999	.073	12.1%
\$300K to \$500K	.996	.999	.064	10.3%
\$500K to \$750K	.992	1.000	.072	11.1%
\$750K to \$1,000K	.981	.999	.056	7.4%
Over \$1,000K	.956	1.021	.108	15.6%
Overall	.999	1.013	.078	12.1%



Subclass

Case Processing Summary

		Count	Percent
abstrimp	1212	1129	88.3%
	1215	6	.5%
	1220	4	.3%
	1230	140	10.9%
Overall		1279	100.0%
Excluded		0	
Total		1279	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1212	.999	1.014	.077	11.8%
1215	1.009	1.008	.032	4.3%
1220	1.237	1.087	.311	38.2%
1230	.997	1.012	.081	11.6%
Overall	.999	1.013	.078	12.1%



Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	1	.1%
	75 to 100	3	.2%
	50 to 75	29	2.3%
	25 to 50	286	22.4%
	5 to 25	704	55.0%
	5 or Newer	256	20.0%
Overall		1279	100.0%
Excluded		0	
Total		1279	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
Over 100	1.092	1.000	.000	.%
75 to 100	.938	.997	.025	3.7%
50 to 75	1.002	1.024	.080	11.6%
25 to 50	1.000	1.008	.068	11.2%
5 to 25	.999	1.012	.081	12.6%
5 or Newer	.996	1.018	.080	11.7%
Overall	.999	1.013	.078	12.1%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1007	78.7%
	500 to 1,000 sf	255	19.9%
	1,000 to 1,500 sf	12	.9%
	1,500 to 2,000 sf	1	.1%
	2,000 to 3,000 sf	4	.3%
Overall		1279	100.0%
Excluded		0	
Total		1279	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LE 500 sf	.999	1.013	.079	12.3%
500 to 1,000 sf	.998	1.014	.071	10.9%
1,000 to 1,500 sf	1.023	1.025	.090	14.7%
1,500 to 2,000 sf	.884	1.000	.000	.%
2,000 to 3,000 sf	.972	1.012	.168	33.4%
Overall	.999	1.013	.078	12.1%



Quality

Case Processing Summary

	Count	Percent
QUALITY 1	1	.1%
2	140	11.0%
3	1029	80.5%
4	102	8.0%
5	5	.4%
6	1	.1%
Overall	1278	100.0%
Excluded	1	
Total	1279	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
1	.993	1.000	.000	.%
2	1.003	1.015	.097	15.5%
3	.998	1.009	.075	11.6%
4	1.007	1.020	.076	11.1%
5	.975	1.059	.155	24.8%
6	1.153	1.000	.000	.%
Overall	.999	1.013	.078	12.1%



Commercial Sale Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$25K to \$50K	2	2.7%
	\$50K to \$100K	9	12.3%
	\$100K to \$150K	2	2.7%
	\$150K to \$200K	7	9.6%
	\$200K to \$300K	10	13.7%
	\$300K to \$500K	15	20.5%
	\$500K to \$750K	11	15.1%
	\$750K to \$1,000K	2	2.7%
	Over \$1,000K	15	20.5%
Overall		73	100.0%
Excluded	i	0	
Total		73	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
\$25K to \$50K	.979	1.001	.018	2.5%
\$50K to \$100K	1.037	.997	.151	27.5%
\$100K to \$150K	1.004	.998	.013	1.8%
\$150K to \$200K	.989	1.004	.048	7.3%
\$200K to \$300K	.969	.994	.097	18.9%
\$300K to \$500K	1.053	1.002	.142	18.1%
\$500K to \$750K	.993	1.000	.126	18.4%
\$750K to \$1,000K	1.025	.999	.012	1.6%
Over \$1,000K	1.005	.951	.170	22.6%
Overall	1.005	.966	.126	18.7%



Subclass

Case Processing Summary

		Count	Percent
abstrimp	1414	1	1.4%
	1550	1	1.4%
	1712	1	1.4%
	1714	2	2.7%
	1769	1	1.4%
	1891	1	1.4%
	2212	11	15.1%
	2215	2	2.7%
	2220	3	4.1%
	2225	1	1.4%
	2230	12	16.4%
	2235	12	16.4%
	2240	1	1.4%
	2245	23	31.5%
	3212	1	1.4%
Overall		73	100.0%
Excluded		0	
Total		73	

Group					fficient of riation
	Median	Price Related Differential	Coefficient of Dispersion		edian entered
1414	.766	1.000	.000	.%	
1550	1.057	1.000	.000	.%	
1712	1.112	1.000	.000	.%	
1714	1.096	.964	.064		9.1%
1769	1.000	1.000	.000	.%	
1891	1.368	1.000	.000	.%	
2212	.925	1.004	.142		22.0%
2215	1.298	1.044	.088		12.5%
2220	1.302	1.034	.092		19.0%
2225	1.269	1.000	.000	.%	
2230	1.026	.882	.132		19.4%
2235	1.022	1.007	.111		15.3%
2240	.954	1.000	.000	.%	
2245	.990	.982	.076		16.4%
3212	1.417	1.000	.000	.%	
Overall	1.005	.966	.126		18.7%



Age

Case Processing Summary

		Count	Percent
AgeRec	.00	35	47.9%
	75 to 100	1	1.4%
	50 to 75	3	4.1%
	25 to 50	18	24.7%
	5 to 25	12	16.4%
	5 or Newer	4	5.5%
Overall		73	100.0%
Excluded		0	
Total		73	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
.00	.989	1.017	.097	17.0%
75 to 100	1.112	1.000	.000	.%
50 to 75	1.311	1.004	.033	5.7%
25 to 50	.992	1.047	.162	20.8%
5 to 25	1.055	.926	.098	17.0%
5 or Newer	1.104	.966	.087	11.4%
Overall	1.005	.966	.126	18.7%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	11	15.1%
	500 to 1,000 sf	17	23.3%
	1,000 to 1,500 sf	12	16.4%
	1,500 to 2,000 sf	12	16.4%
	2,000 to 3,000 sf	5	6.8%
	3,000 sf or Higher	16	21.9%
Overall		73	100.0%
Excluded		0	
Total		73	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LE 500 sf	.997	1.006	.099	15.4%
500 to 1,000 sf	1.039	.965	.090	12.8%
1,000 to 1,500 sf	.971	.970	.160	25.3%
1,500 to 2,000 sf	1.005	.999	.102	17.3%
2,000 to 3,000 sf	1.009	1.042	.156	24.2%
3,000 sf or Higher	1.015	.959	.153	20.8%
Overall	1.005	.966	.126	18.7%



Vacant Land Sale Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	2	2.2%
	\$25K to \$50K	30	32.3%
	\$50K to \$100K	26	28.0%
	\$100K to \$150K	11	11.8%
	\$150K to \$200K	3	3.2%
	\$200K to \$300K		9.7%
	\$300K to \$500K	4	4.3%
	\$500K to \$750K	5	5.4%
	\$750K to \$1,000K	1	1.1%
	Over \$1,000K	2	2.2%
Overall		93	100.0%
Excluded	I	0	
Total		93	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
LT \$25K	1.128	1.019	.091	12.9%
\$25K to \$50K	1.001	1.004	.077	12.6%
\$50K to \$100K	.996	.983	.171	49.1%
\$100K to \$150K	1.001	.992	.121	28.9%
\$150K to \$200K	1.000	1.000	.004	.7%
\$200K to \$300K	.996	.991	.070	11.2%
\$300K to \$500K	1.023	.999	.054	10.0%
\$500K to \$750K	1.038	1.002	.051	7.1%
\$750K to \$1,000K	1.020	1.000	.000	.%
Over \$1,000K	.698	1.034	.104	14.7%
Overall	1.001	1.075	.109	28.8%



Land Subclass

Case Processing Summary

		Count	Percent
ABSTRLND	100	44	47.3%
	200	8	8.6%
	400	2	2.2%
	510	1	1.1%
	520	4	4.3%
	530	2	2.2%
	540	3	3.2%
	550	4	4.3%
	1112	16	17.2%
	2112	2	2.2%
	2115	1	1.1%
	2130	4	4.3%
	2135	2	2.2%
Overall		93	100.0%
Excluded		0	
Total		93	

Group				Coefficient of Variation
	Median	Price Related Differential	Coefficient of Dispersion	Median Centered
100	1.000	.987	.152	40.6%
200	1.001	.988	.098	13.1%
400	1.026	.997	.010	1.4%
510	1.010	1.000	.000	.%
520	1.032	1.012	.048	7.8%
530	.950	.996	.083	11.8%
540	.998	1.012	.026	3.9%
550	.997	.994	.028	5.0%
1112	1.002	1.004	.059	10.4%
2112	1.012	.989	.025	3.6%
2115	.771	1.000	.000	.%
2130	.938	1.163	.157	21.7%
2135	.950	1.009	.107	15.2%
Overall	1.001	1.075	.109	28.8%