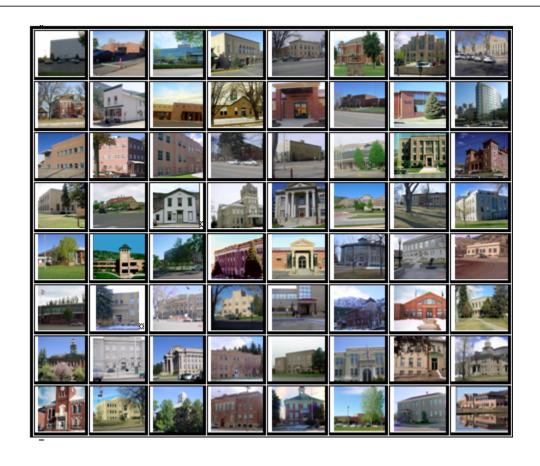


2009 ROUTT COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2009

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

RE: Final Report for the 2009 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2009 Colorado Property Assessment Study.

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

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

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

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

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



REGIONAL/HISTORICAL SKETCH OF ROUTT COUNTY

Regional Information

Routt 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

Routt County has a population of approximately 21,580 people with 8.3 people per square mile, according to the U.S. Census Bureau's 2006 estimated population data.

Routt County was created out of the western portion of Grand County on January 29, 1877. It was named in honor of John Long Routt, the last territorial and first state governor of Colorado. The western portion of Routt County was split off to form Moffat County on February 27, 1911.

Routt County is a diverse environment offering breathtaking mountain vistas and picturesque ranch lands Communities located in Routt County include Clark, Hahns Peak, Milner, Phippsburg, and Toponas, the towns of Hayden, Oak Creek and Yampa, and the city of Steamboat Springs.

About 50% of the land in Routt County is publicly owned. The Medicine Bow-Routt National Forest makes up a large portion of the county. This includes the Mt Zirkel and Sarvis Creek Wilderness areas. The local State Parks are Stagecoach Reservoir, Steamboat Lake, Elkhead Reservoir and Pearl Lake. These public lands provide residents and visitors with scenic recreational areas for hiking, picnicking, boating, hunting, fishing and water-skiing. (www.co.routt.co.us, www.Wikipedia.org)



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 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 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 Routt County are:

Routt County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	93	0.992	1.033	14.4	Compliant
Condominium	472	0.999	1.000	5.7	Compliant
Single Family	690	0.998	1.001	8.8	Compliant
Vacant Land	354	0.978	1.100	13.1	Compliant

After applying the above described methodologies, it is concluded from the sales ratios that Routt 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, Routt County has accurately transferred sales data from the recorded deeds to the qualified or unqualified database.

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

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

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

If either residential or commercial differences were significant using the unit value method, or if data limitations made the comparison invalid, then the next step was to perform a ratio analysis comparing the 2008 and 2009 actual values for each qualified class of property. All qualified vacant land classes were tested using this method. The sale property ratios were arrayed using a range of 0.8 to 1.5, which theoretically excluded changes between years that were due to other unrelated changes in the property. These ratios were also stratified at the appropriate level of analysis. 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 Results				
Property Class	Results			
Commercial/Industrial	Compliant			
Condominium	Compliant			
Single Family	Compliant			
Vacant Land	Compliant			

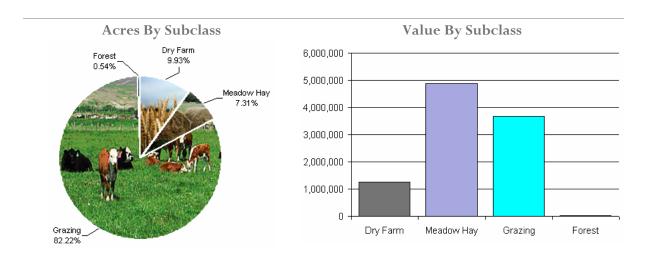
Conclusions

After applying the above described methodologies, it is concluded that Routt 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 lands. reviewed in order to determine if: 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. 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:



Routt County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Fotal Value	WRA Total Value	Ratio
4127	Dry Farm	70,929	17.60	1,248,128	1,246,664	1.00
4137	Meadow Hay	52,233	93.40	4,878,641	4,878,641	1.00
4147	Grazing	587,179	6.26	3,676,042	3,676,042	1.00
4177	Forest	3,858	7.54	29,216	29,216	1.00
Total/Avg		714,199	13.77	9,832,028	9,830,564	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

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

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 2009 for Routt 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 31 sales listed as unqualified. All but two of the sales selected in the sample gave reasons that were clear and supportable. Two sales had insufficient documentation.

Conclusions

Routt County appears to be doing a good job of verifying their sales. There are no recommendations.

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

Methodology

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

STATUTORY REFERENCES

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

Actual value determined - when.

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

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

Valuation:

Valuation for assessment.

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

§ 39-7-102, C.R.S.

Conclusions

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

Recommendations:



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2009 in Routt 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 band of investment method. Subdivision land with structures was appraised at full market value.

Conclusions

Routt 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 39-1-103 (17)(a) (II) C.R.S. Possessory Interest is defined by the Property Tax Administrator's Publication ARL Volume 3, Section 7: 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 agreement.

Routt 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

Routt 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

Routt 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.

Routt 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
- Property Management companies

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.

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

- 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
- Local knowledge
- Public Input
- Minimal Equipment reported

Conclusions

Routt 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



WILDROSE AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

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Steve Kane, Audit Statistician/Field Analyst

Carl W. Ross, Agricultural/Natural Resource Analyst

Andy Rodriguez, Field Analyst



APPENDICES

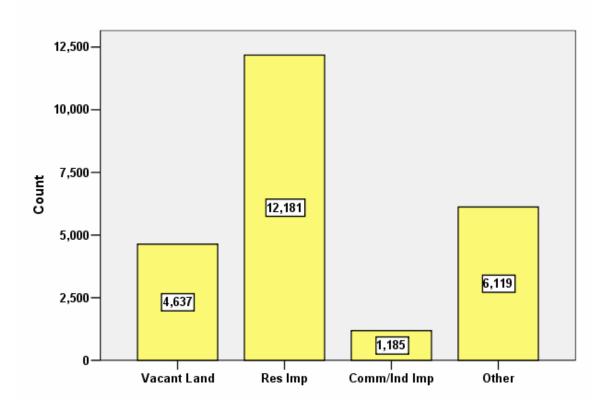


STATISTICAL COMPLIANCE RESULTS FOR ROUTT COUNTY 2009

I. OVERVIEW

Routt County is located in northwestern Colorado. The county has a total of 24,122 real property parcels, according to data submitted by the county assessor's office in 2009. The following provides a breakdown of property classes for this county:

Real Property Class Distribution



The vacant land class of properties was dominated by residential land. Residential lots (coded 100) accounted for 86% of all vacant land parcels.

For residential improved properties, single family properties accounted for 48% of all residential properties. Residential condominiums, coded as 1230, accounted for 35% of all residential properties. Based on the guidelines of the 2009 audit, we will analyze residential condominiums separately in the following analysis.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 5% of all such properties in this county.



II. DATA FILES

The following sales analyses were based on the requirements of the 2009 Colorado Property Assessment Study. Information was provided by the Routt Assessor's Office on May 1, 2009. The data included all 5 property record files as specified by the Auditor.

III. RESIDENTIAL SALES RESULTS

The following steps were taken to analyze the residential sales:

1. Total sales	4,336
2. Selected qualified sales	2,363
3. Select improved sales (non-duplicate)	1,778
4. Select residential sales only	1,642
5. Sales between January 1, 2007 and June 30, 2008	1,162

We stratified our sales ratio analysis by residential non-condominiums and condominiums. The sales ratio analysis results were as follows:

Residential Non-Condo = 690

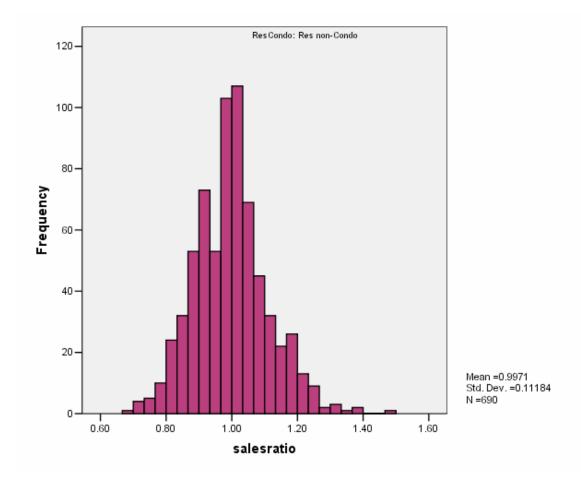
Median	0.998
Price Related Differential	1.001
Coefficient of Dispersion	.088

Residential Condo = 472

Median	0.999
Price Related Differential	1.000
Coefficient of Dispersion	.057

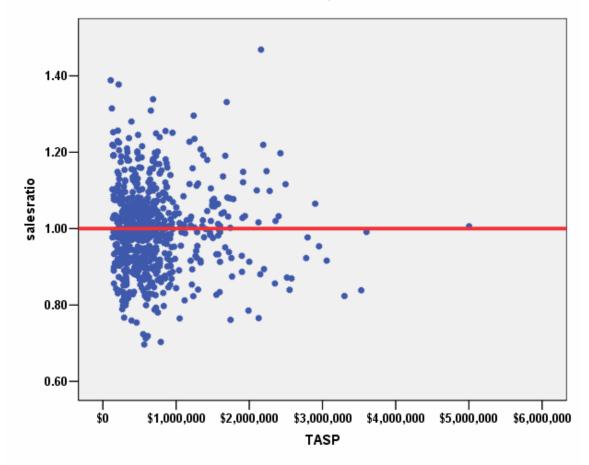
The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. The following graphs describe further the sales ratio distribution for these properties:



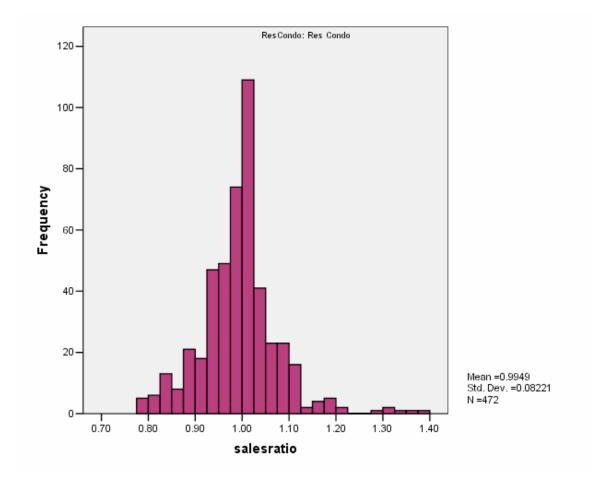




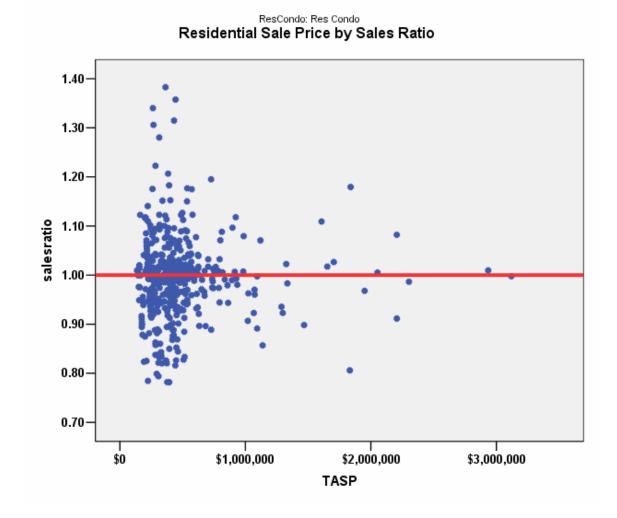












The above graphs indicate that the distribution of the sale ratios was within state mandated limits. No sales were trimmed.

Residential Market Trend Analysis

We next analyzed the residential dataset using the 18-month sale period for any residual market trending. We again stratified the analysis between residential non-condominiums and condominiums, with the following results:

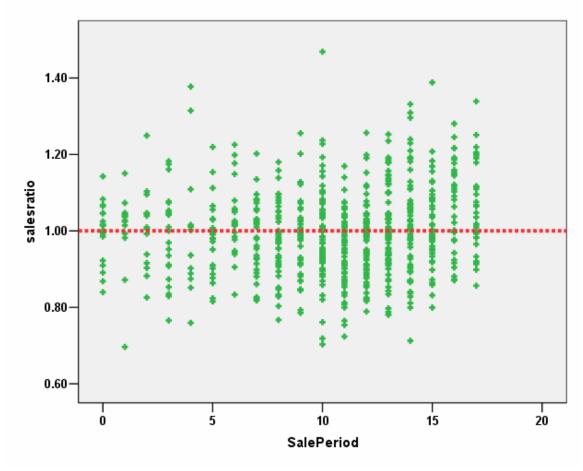


Coefficientsa

			Unstandardized Coefficients		Standardized Coefficients		
ResCondo	Model		В	Std. Error	Beta	t	Sig.
Res non-Condo	1	(Constant)	.970	.011		88.070	.000
		SalePeriod	.003	.001	.103	2.711	.007
Res Condo	1	(Constant)	1.007	.009		108.851	.000
		SalePeriod	001	.001	064	-1.382	.168

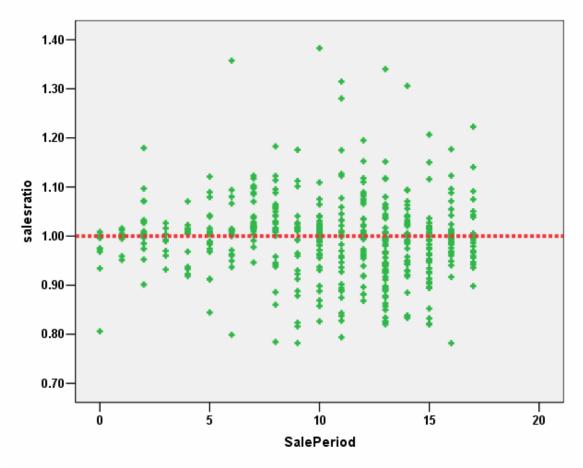
a. Dependent Variable: salesratio

ResCondo: Res non-Condo
Residential Sale Price Market Trend









While the residential non-condominium sales indicated a statistically significant market trend in the sales ratios, the magnitude of this trend (at 0.3% per month) was not significant. With no significant market trend evident in the sales ratio data, the above analysis indicated that the assessor has adequately addressed market trending in the valuation of residential properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2009 between each group stratified by residential non-condominium and condominiums, as follows:

Residential Non-Condos				
Group	No.	Median	Mean	
Unsold	7,202	\$331	\$355	
Sold	692	\$319	\$343	



Residential Condos				
Group	No.	Median	Mean	
Unsold	3,815	\$400	\$445	
Sold	470	\$400	\$427	

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

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

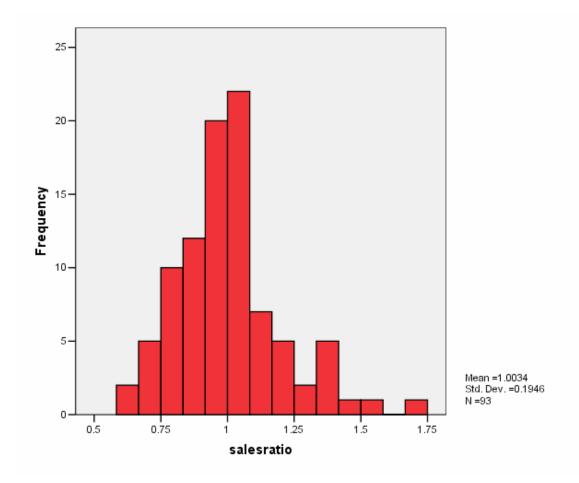
1. Total sales	4,336
2. Selected qualified sales	2,363
3. Select improved sales (non-duplicate)	1,778
4. Select commercial/industrial sales	125
5. Select sale period between January 2007 and June 2008	93

The sales ratio analysis resulted in the following ratio statistics:

Median	0.992
Price Related Differential	1.033
Coefficient of Dispersion	.144

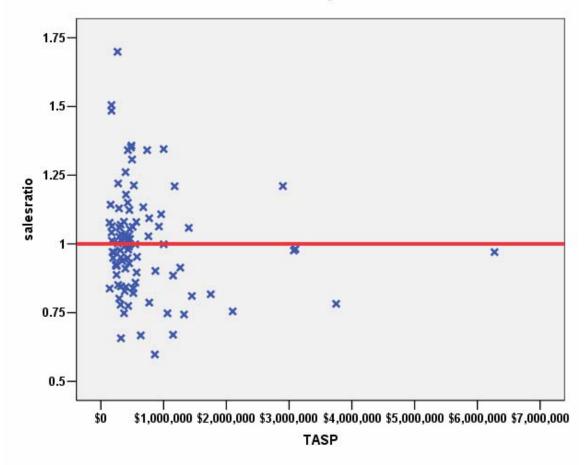
The above tables indicate that the Routt County commercial/industrial sale ratios were in compliance with the SBOE standards. The following histogram and scatter plot describe the sales ratio distribution further:











Commercial Market Trend Analysis

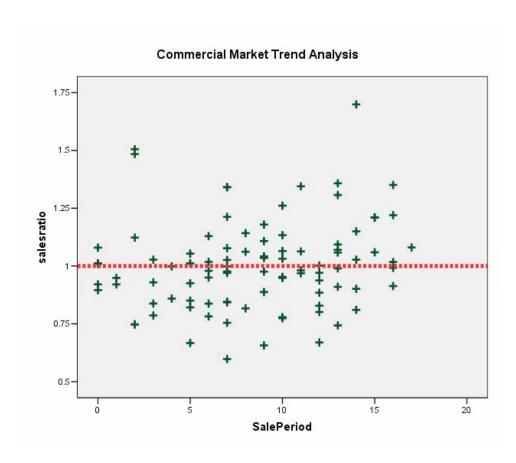
The 93 commercial/industrial sales were next analyzed by subclass for any residual market trending, examining the sale ratios across the 18-month sale period with the following results:



Coefficients^a

			Unstandardized Coefficients		Standardized Coefficients		
PredUse	Model		В	Std. Error	Beta	t	Sig.
2212	1	(Constant)	.904	.106		8.515	.000
		SalePeriod	.013	.011	.398	1.226	.255
2215	1	(Constant)	.950	.000			
		SalePeriod	.003	.000	1.000		
2220	1	(Constant)	.747	.243		3.074	.028
		SalePeriod	.017	.021	.341	.810	.455
2230	1	(Constant)	.809	.279		2.896	.063
		SalePeriod	.005	.025	.107	.186	.864
2244	1	(Constant)	1.041	.540		1.928	.126
		SalePeriod	.013	.046	.142	.288	.788
2245	1	(Constant)	.944	.046		20.341	.000
		SalePeriod	.008	.005	.196	1.552	.126

a. Dependent Variable: salesratio



The market trend results indicated no statistically significant trends when broken down by subclass. We concluded that the assessor adequately considered market trending in their valuation of commercial/industrial properties.



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. We stratified the analysis by subclass in the following table, which indicated that sold and unsold commercial properties were valued consistently:

Subclass	Group	No.	Median	Mean
2212	Unsold	137	\$253	\$268
	Sold	10	\$294	\$305
2215	Unsold	27	\$187	\$199
	Sold	3	\$199	\$186
2220	Unsold	67	\$236	\$266
	Sold	4	\$341	\$352
2230	Unsold	124	\$129	\$307
	Sold	4	\$157	\$175
2235	Unsold	87	\$131	\$142
	Sold	7	\$216	\$204
2245	Unsold	558	\$205	\$234
	Sold	55	\$219	\$254
Total	Unsold	1096	\$193	\$242
	Sold	93	\$212	\$245

Based on the results of these comparisons, we concluded that the Routt County assessor was valuing sold and unsold commercial properties consistently.

V. VACANT LAND SALE RESULTS

The following steps were taken to analyze vacant land sales:

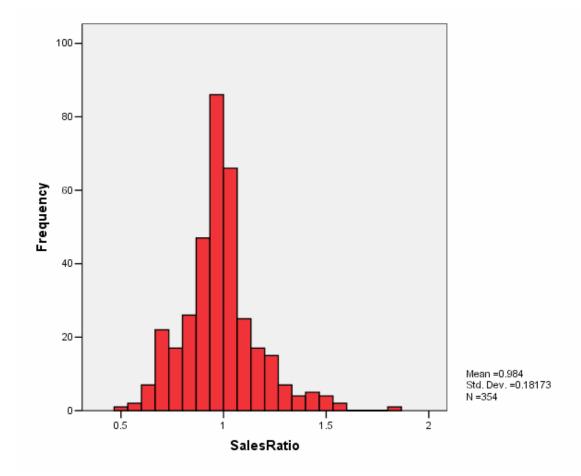
1. Total sales	4,336
2. Selected qualified sales	2,363
3. Select vacant land sales	571
4. Select non-agricultural sales	561
5. Sales between July 1, 2006 and June 30, 2008	358
6. Trim 4 outlier sales	354

The sales ratio analysis resulted in the following ratio statistics:

Median	0.978
Price Related Differential	1.100
Coefficient of Dispersion	.131

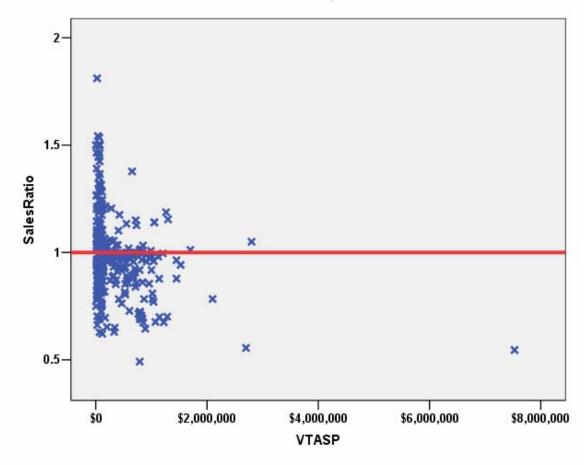
The above tables indicate that the Routt County vacant land sale ratios were in compliance with the SBOE standards. The following histogram and scatter plot describe the sales ratio distribution further:











Vacant Land Market Trend Analysis

The assessor did not apply any market trend adjustments to the vacant land dataset. The 354 vacant land sales were analyzed, examining the sale ratios across the 18 month sale period with the following results:

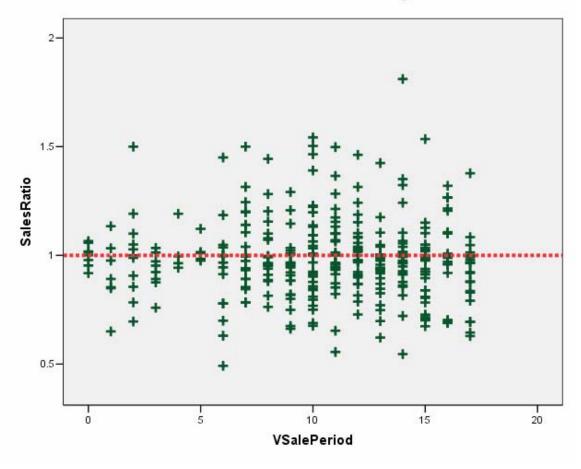
Coefficientsa

		Unstandardized Coefficients		Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.999	.025		39.229	.000
	VSalePeriod	001	.002	035	657	.511

a. Dependent Variable: SalesRatio







The market trend results indicated no statistically significant trend. We concluded that the assessor has adequately considered market tending in Routt County's vacant land valuation for 2009.

Sold/Unsold Analysis

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

SUBDIVNO	Group	N	Median	Mean
Total	Unsold	3,862	1.43	1.45
	Sold	327	1.50	1.54

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 Routt County.

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

ECONAREA	Abstrimp	N	Median	Mean
1	1212	2424	\$110	\$134
	4277	2	\$112	\$112
2	1212	897	\$208	\$241
	4277	577	\$207	\$234
3	1212	619	\$136	\$134
	4277	4	\$148	\$153
4	1212	489	\$131	\$131
	4277	1	\$112	\$112
5	1212	711	\$154	\$156
	4277	664	\$136	\$143
9	1212	301	\$181	\$185
	4277	15	\$244	\$265
Total	1212	5827	\$141	\$159
	4277	1263	\$169	\$186

VI. CONCLUSIONS

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



STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean		.996
95% Confidence Interval	Lower Bound	.990
for Mean	Upper Bound	1.002
Median		.999
95% Confidence Interval	Lower Bound	.994
for Median	Upper Bound	1.001
	Actual Coverage	95.1%
Weighted Mean		.996
95% Confidence Interval	Lower Bound	.988
for Weighted Mean	Upper Bound	1.004
Price Related Differential		1.000
Coefficient of Dispersion		.074
Coefficient of Variation	Mean Centered	10.1%

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.

Commercial/Industrial

Ratio Statistics for CURRTOT / TASP

Mean		1.003
95% Confidence Interval	Lower Bound	.963
for Mean	Upper Bound	1.044
Median		.992
95% Confidence Interval	Lower Bound	.950
for Median	Upper Bound	1.028
	Actual Coverage	96.2%
Weighted Mean		.972
95% Confidence Interval	Lower Bound	.925
for Weighted Mean	Upper Bound	1.018
Price Related Differential		1.033
Coefficient of Dispersion		.144
Coefficient of Variation	Mean Centered	19.4%

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.



Vacant Land

Ratio Statistics for CURRLND / VTASP

Mean		.984
95% Confidence Interval	Lower Bound	.965
for Mean	Upper Bound	1.003
Median		.978
95% Confidence Interval	Lower Bound	.966
for Median	Upper Bound	.995
	Actual Coverage	95.1%
Weighted Mean		.894
95% Confidence Interval	Lower Bound	.843
for Weighted Mean	Upper Bound	.946
Price Related Differential		1.100
Coefficient of Dispersion		.131
Coefficient of Variation	Mean Centered	18.5%

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.

Residential Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$100K to \$150K	21	1.8%
	\$150K to \$200K	41	3.5%
	\$200K to \$300K	202	17.4%
	\$300K to \$500K	376	32.4%
	\$500K to \$750K	275	23.7%
	\$750K to \$1,000K	105	9.0%
	Over \$1,000K	142	12.2%
Overall		1162	100.0%
Excluded		0	
Total		1162	



Ratio Statistics for CURRTOT / TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
\$100K to \$150K	1.087	1.005	.106	12.7%
\$150K to \$200K	.956	1.000	.064	8.2%
\$200K to \$300K	.999	1.004	.072	10.0%
\$300K to \$500K	.998	.999	.069	9.5%
\$500K to \$750K	.999	.999	.073	9.9%
\$750K to \$1,000K	1.000	1.000	.072	9.7%
Over \$1,000K	1.001	1.002	.087	11.6%
Overall	.999	1.000	.074	10.1%

Subclass

Case Processing Summary

		Count	Percent
PredUse	1212	449	38.6%
	1215	12	1.0%
	1218	229	19.7%
	1230	472	40.6%
Overall		1162	100.0%
Excluded		0	
Total		1162	

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
1212	.993	1.007	.091	11.9%
1215	1.097	1.002	.055	7.4%
1218	1.000	.988	.074	9.8%
1230	.999	1.000	.057	8.2%
Overall	.999	1.000	.074	10.1%



Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	12	1.0%
	75 to 100	49	4.2%
	50 to 75	25	2.2%
	25 to 50	450	38.7%
	5 to 25	394	33.9%
	5 or Newer	232	20.0%
Overall		1162	100.0%
Excluded		0	
Total		1162	

Ratio Statistics for CURRTOT / TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
Over 100	1.020	.978	.121	17.5%
75 to 100	.976	1.012	.122	15.3%
50 to 75	1.000	1.009	.085	11.3%
25 to 50	.993	1.002	.071	9.7%
5 to 25	1.002	1.005	.071	10.0%
5 or Newer	1.000	.999	.070	9.0%
Overall	.999	1.000	.074	10.1%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	20	1.7%
	500 to 1,000 sf	280	24.1%
	1,000 to 1,500 sf	344	29.6%
	1,500 to 2,000 sf	256	22.0%
	2,000 to 3,000 sf	187	16.1%
	3,000 sf or Higher	75	6.5%
Overall		1162	100.0%
Excluded		0	
Total		1162	



Ratio Statistics for CURRTOT/TASP

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
LE 500 sf	.999	1.002	.036	6.5%
500 to 1,000 sf	.982	1.008	.072	9.6%
1,000 to 1,500 sf	.998	1.005	.067	9.6%
1,500 to 2,000 sf	1.001	1.007	.076	10.3%
2,000 to 3,000 sf	1.005	1.012	.078	10.3%
3,000 sf or Higher	1.020	1.010	.096	12.4%
Overall	.999	1.000	.074	10.1%

Improvement Quality

Case Processing Summary

		Count	Percent
QUAL	10.00	15	1.3%
	20.00	93	8.0%
	30.00	588	50.6%
	40.00	241	20.7%
	50.00	182	15.7%
	55.00	2	.2%
	60.00	41	3.5%
Overall		1162	100.0%
Excluded		0	
Total		1162	

O. a. a. a.	Madian	Price Related	Coefficient of	Coefficient of Variation Median
Group 10.00	Median .992	Differential .997	Dispersion .129	Centered 17.9%
	.992		.129	
20.00	.999	1.014	.085	10.9%
30.00	.989	1.003	.074	9.7%
40.00	1.008	1.006	.074	10.6%
50.00	1.001	1.006	.058	8.8%
55.00	1.275	1.006	.044	6.2%
60.00	1.022	1.006	.071	9.1%
Overall	.999	1.000	.074	10.1%



Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	\$100K to \$150K	2	2.2%
	\$150K to \$200K	8	8.6%
	\$200K to \$300K	13	14.0%
	\$300K to \$500K	34	36.6%
	\$500K to \$750K	12	12.9%
	\$750K to \$1,000K	9	9.7%
	Over \$1,000K	15	16.1%
Overall		93	100.0%
Excluded		0	
Total		93	

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
\$100K to \$150K	.957	1.001	.125	17.7%
\$150K to \$200K	1.053	1.006	.145	23.2%
\$200K to \$300K	.969	.997	.145	24.7%
\$300K to \$500K	1.011	.988	.126	17.2%
\$500K to \$750K	.976	.992	.153	19.3%
\$750K to \$1,000K	1.028	.991	.143	21.0%
Over \$1,000K	.885	.977	.150	18.9%
Overall	.992	1.033	.144	19.7%



Subclass

Case Processing Summary

		Count	Percent
PredUse	2212	10	10.8%
	2215	2	2.2%
	2220	7	7.5%
	2230	5	5.4%
	2235	1	1.1%
	2244	6	6.5%
	2245	62	66.7%
Overall		93	100.0%
Excluded		0	
Total		93	

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
2212	1.027	1.009	.119	15.2%
2215	.973	1.001	.003	.4%
2220	.953	1.068	.115	14.4%
2230	.885	1.061	.091	13.7%
2235	.811	1.000	.000	
2244	1.105	1.112	.182	27.6%
2245	1.000	1.016	.145	19.4%
Overall	.992	1.033	.144	19.7%



Vacant Land Median Ratio Stratification

Case Processing Summary

		Count	Percent
VPredUse	100	293	82.8%
	200	9	2.5%
	300	3	.8%
	550	4	1.1%
	600	7	2.0%
	1111	1	.3%
	1112	1	.3%
	1212	32	9.0%
	1215	1	.3%
	2112	1	.3%
	2220	1	.3%
	2235	1	.3%
Overall		354	100.0%
Excluded		0	
Total		354	

				Coefficient of Variation
		Price Related	Coefficient of	Median
Group	Median	Differential	Dispersion	Centered
100	.975	1.110	.131	18.7%
200	.942	1.038	.109	18.8%
300	.650	.938	.142	28.0%
550	1.065	1.089	.155	24.6%
600	.943	1.012	.128	18.2%
1111	.911	1.000	.000	
1112	1.154	1.000	.000	
1212	1.013	1.171	.116	16.3%
1215	.968	1.000	.000	
2112	1.012	1.000	.000	
2220	.999	1.000	.000	
2235	1.050	1.000	.000	
Overall	.978	1.100	.131	18.6%