



2022

SAGUACHE COUNTY PROPERTY ASSESSMENT STUDY



WILDROSE
APPRAISAL, INCORPORATED
Audit Division



September 15, 2022

Ms. Natalie Mullis
Director of Research
Colorado Legislative Council
Room 029, State Capitol Building
Denver, Colorado 80203

RE: Final Report for the 2022 Colorado Property Assessment Study

Dear Ms. Mullis:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2022 Colorado Property Assessment Study.

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

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

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

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

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

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

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INTRODUCTION



Colorado

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

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

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

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

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

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

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

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

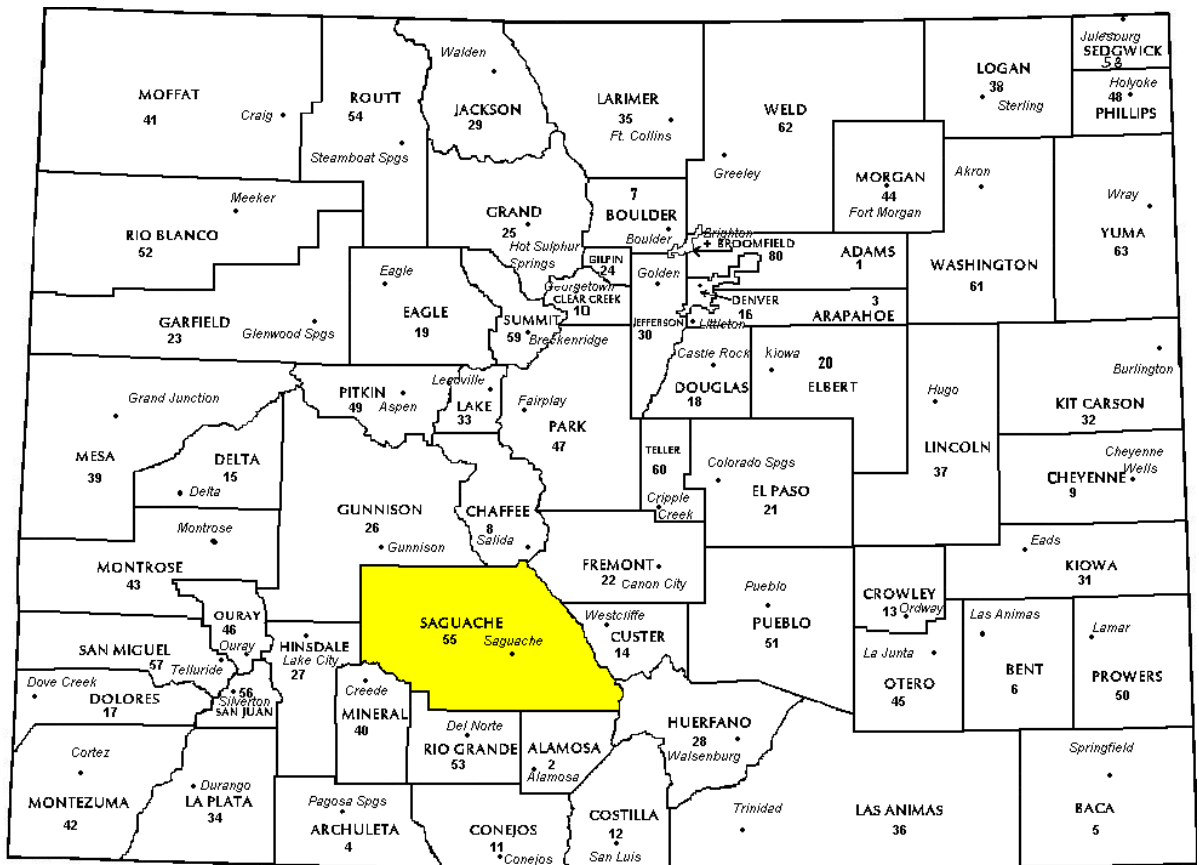
Wildrose Audit has completed the Property Assessment Study for 2022 and is pleased to report its findings for Saguache County in the following report.

REGIONAL/HISTORICAL SKETCH OF SAGUACHE COUNTY

Regional Information

Saguache County is located in the San Luis Valley region of Colorado. The San Luis Valley is a large, broad, alpine valley in the Rio Grande Basin of south-central Colorado. The valley is drained to the south by the Rio Grande

River which rises in the San Juan Mountains to the west of the valley. The San Luis Valley includes Alamosa, Conejos, Costilla, Mineral, Rio Grande, and Saguache counties.





Historical Information

Saguache County has approximately 3,168.5 square miles and an estimated population of approximately 6,824 people, according to the U.S. Census Bureau's 2020 estimated census data. This represents a 11.7 percent change from April 1, 2010 to July 1, 2019.

Saguache is the northern gateway to the San Luis Valley in South Central Colorado. It sits at an elevation of 7800 feet, surrounded by the Sangre de Cristo mountain range on the east and the San Juan range on the west. Many of the peaks are 14000 feet.

Saguache is a Ute Indian name pronounced Sawatch. It means Water at the Blue Earth. It was settled in 1867 by Otto Mears who started his fortune with the first toll road above Poncha Pass. Otto invested in railroads, mining, the

Mack Truck Co. and is credited with the famous Million Dollar Highway.

Ranching and farming are the main occupations in the Valley. Both cattle and sheep are raised, cattle being predominant. Farm crops include potatoes, lettuce and barley. Some logging is done on Forest Service land.

Artists and craft people are numerous in the area. Potters, authors, photographers, weavers, basket makers, and painters are but a few who live in the county. Festivals take place in the County in both summer and winter months, with the Crestone Music Festival in August, the Fall festival in September in Saguache and the Winterfest in Crestone through the Thanksgiving weekend.

(<http://saguache.org>)

RATIO ANALYSIS

Methodology

All significant classes of property were analyzed. Sales were collected for each property class over the eighteen month period from January 1, 2019 through June 30th, 2020. Property classes with less than thirty sales had the sales period extended in six month increments up to an additional forty-two months. If this extended sales period did not produce the minimum thirty qualified sales, the Audit performed supplemental appraisals to reach the minimum.

Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and price-related differential for each class of property. Counties were not passed or failed by these latter measures, but were counseled if there were anomalies noted during our analysis. Qualified sales were based on the qualification code used by each county, which were typically coded as either “Q” or “C.” The ratio analysis included all sales. The data was trimmed for counties with obvious outliers using IAAO standards for data analysis. In every case, we examined the loss in data from

trimming to ensure that only true outliers were excluded. Any county with a significant portion of sales excluded by this trimming method was examined further. No county was allowed to pass the audit if more than 5% of the sales were “lost” because of trimming.

All sixty-four counties were examined for compliance on the economic area level. Where there were sufficient sales data, the neighborhood and subdivision levels were tested for compliance. Although counties are determined to be in or out of compliance at the class level, non-compliant economic areas, neighborhoods and subdivisions (where applicable) were discussed with the Assessor.

Data on the individual economic areas, neighborhoods and subdivisions are found in the STATISTICAL APPENDIX.

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 Saguache County are:

Saguache County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
*Commercial/Industrial	N/A	N/A	N/A	N/A	N/A
Single Family	131	0.962	1.025	15.3	Compliant
Vacant Land	123	1.000	1.088	20.6	Compliant

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

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

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

Recommendations

None



TIME TRENDING VERIFICATION

Methodology

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

trending adequately, and a further examination is warranted. This validation method 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 Saguache County has complied with the statutory requirements to analyze the effects of time on value in their county. Saguache County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations

None

SOLD / UNSOLD ANALYSIS

Methodology

Saguache 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.

We test the hypothesis that the assessor has valued unsold properties consistent with what is observed with the sold properties based on several units of comparison and tests. The units of comparison include the actual value per square foot and the change in value from the previous base year period to the current base year. The first test compares the actual value per square foot between sold and unsold properties by class. The median and mean value per square foot is compared and tested for any significant difference. This is tested using non-parametric methods, such as the Mann-Whitney test for differences in the distributions or medians between sold and unsold groups. It is also examined graphically and from an appraisal perspective. Data can be stratified based on location and subclass. The second test compares the difference in the median change in value from the previous base year to the current base year between sold and unsold properties by class. The same combination of non-parametric and appraisal testing is used as with the first test. A third test employing a valuation model testing a sold/unsold binary variable while controlling for property attributes such as location, size, age and other attributes. The model determines if the sold/unsold variable is statistically and empirically significant. If all three tests indicate a significant difference between sold and unsold properties for a given class, the Auditor may meet with the county to determine if sale chasing is actually occurring,

or if there are other explanations for the observed difference.

If the unsold properties have a higher median value per square foot than the sold properties, or if the median change in value is greater for the unsold properties than the sold properties, the analysis is stopped and the county is concluded to be in compliance with sold and unsold guidelines. All sold and unsold properties in a given class are first tested, although properties with extreme unit values or percent changes can be trimmed to stabilize the analysis. The median is the primary comparison metric, although the mean can also be used as a comparison metric if the distribution supports that type of measure of central tendency.

The first test (unit value method) is applied to both residential and commercial/industrial sold and unsold properties. The second test is applied to sold and unsold vacant land properties. The second test (change in value method) is also applied to residential or commercial sold and unsold properties if the first test results in a significant difference observed and/or tested between sold and unsold properties. The third test (valuation modeling) is used in instances where the results from the first two tests indicate a significant difference between sold and unsold properties. It can also be used when the number of sold and unsold properties is so large that the non-parametric testing is indicating a false rejection of the hypothesis that there is no difference between the sold and unsold property values.

These tests were supported by both tabular and graphics presentations, along with written documentation explaining the methodology used.

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

Conclusions

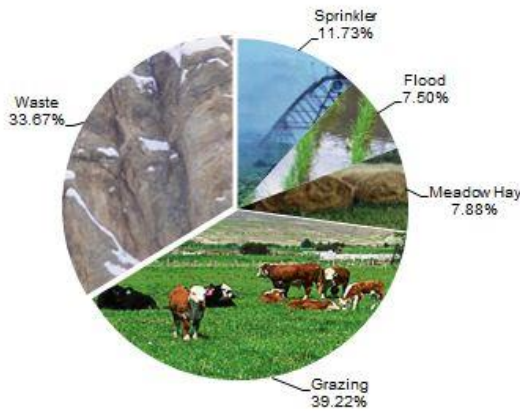
After applying the above described methodologies, it is concluded that Saguache County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

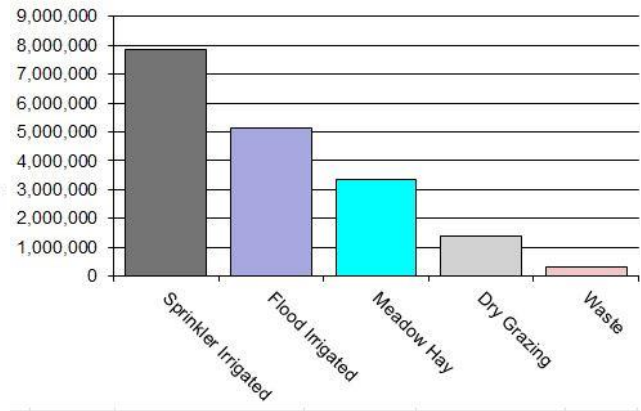
None

AGRICULTURAL LAND STUDY

Acres By Subclass



Value By Subclass



Agricultural Land

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

(See Assessor Reference Library Volume 3 Chapter 5.)

Conclusions

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

Saguache County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4107	Sprinkler	48,216	148.13	7,142,062	7,524,167	0.95
4117	Flood	30,829	152.15	4,690,526	5,075,566	0.92
4137	Meadow Hay	32,396	94.30	3,055,096	3,054,574	1.00
4147	Grazing	161,222	7.94	1,279,344	1,279,344	1.00
4167	Waste	138,404	2.20	304,676	304,676	1.00
Total/Avg		411,067	40.07	16,471,704	17,238,328	0.96

Recommendations

None

Agricultural Outbuildings

Methodology

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

Property Taxation for the valuation of agricultural outbuildings.

Recommendations

None

Conclusions

Saguache County has complied with the procedures provided by the Division of

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.

Conclusions

Saguache County has used the following methods to discover land under a residential improvement on a farm or ranch that is determined to be not integral under 39-1-102, C.R.S.:

- Questionnaires
- Field Inspections
- Phone Interviews
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

Saguache County has used the following methods to discover the land area under a residential improvement that is determined to be not integral under 39-1-102, C.R.S.:

- Property Record Card Analysis
- Questionnaires
- Phone Interviews
- In-Person Interviews with Owners/Tenants
- Personal Knowledge of Occupants at Assessment Date
- Aerial Photography/Pictometry

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

Recommendations

None

SALES VERIFICATION

According to Colorado Revised Statutes:

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

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

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

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

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

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

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

WRA reviewed the sales verification procedures in 2022 for Saguache County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 40 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 \$100,000, 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.

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



conducted further analysis to determine if the sales included in that code have been assigned appropriately.

Conclusions

Saguache County appears to be doing an adequate job of verifying their sales. WRA

agreed with the county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations

None

NATURAL RESOURCES

Saguache County is exempt from the Natural Resources Study.

VACANT LAND

**Saguache County is exempt from the Vacant Land Subdivision
Discount Study.**

POSSESSORY INTEREST PROPERTIES

Possessory Interest

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

Saguache County has been reviewed for their procedures and adherence to guidelines when

assessing and valuing agricultural 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

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

Recommendations

None

PERSONAL PROPERTY AUDIT

Saguache 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.

Saguache 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.

Saguache County submitted their personal property written audit plan and was current for the 2022 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
- Accounts with greater than 10% change
- Incomplete or inconsistent declarations
- Accounts with omitted property
- Same business type or use



- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts close to the \$50,000 actual value exemption status
- Accounts protested with substantial disagreement

Conclusions

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

Recommendations

None

WILDROSE AUDITOR STAFF

Harry J. Fuller, *Audit Project Manager*

Suzanne Howard, *Audit Administrative Manager*

Steve Kane, *Audit Statistician*

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

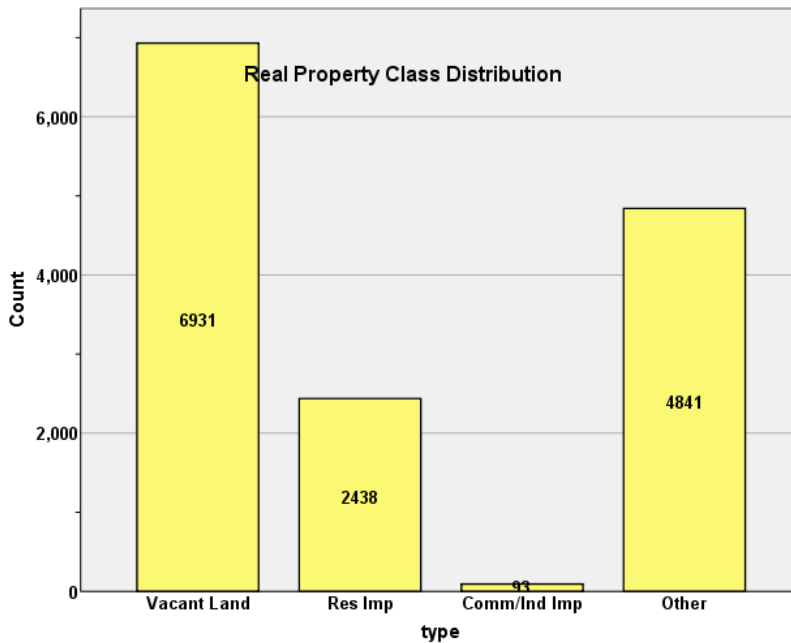
J. Andrew Rodriguez, *Field Analyst*

APPENDICES

**STATISTICAL COMPLIANCE REPORT
FOR SAGUACHE COUNTY
2022**

I. OVERVIEW

Saguache County is located in southern Colorado. The county has a total of 14,303 real property parcels, according to data submitted by the county assessor’s office in 2022. 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) accounted for 82.3% of all vacant land parcels.

For residential improved properties, single family properties accounted for 98.9% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for less 0.65% of all such properties in this county.

II. DATA FILES

The following sales analyses were based on the requirements of the 2022 Colorado Property Assessment Study. Information was provided by the Saguache Assessor’s Office in June 2022.

III. RESIDENTIAL SALES RESULTS

There were 134 qualified residential sales in the 24 month sale period ending June 30, 2020. We trimmed 3 sales using IAAO standards, resulting in a final count of 131 qualified residential sales. The sales ratio analysis results were as follows:

Median	0.962
Price Related Differential	1.025
Coefficient of Dispersion	15.3

We next stratified the sale ratio analysis by economic area and by neighborhoods with at least 10 sales, as follows:

Economic Area

EA3 and EA5 were the only economic areas with sufficient number of sales. EA5 had a median ratio below the 0.95 SBOE lower limit, but trimming the EA5 sales using IAAO guidelines resulted in the median ratio and COD being in compliance.

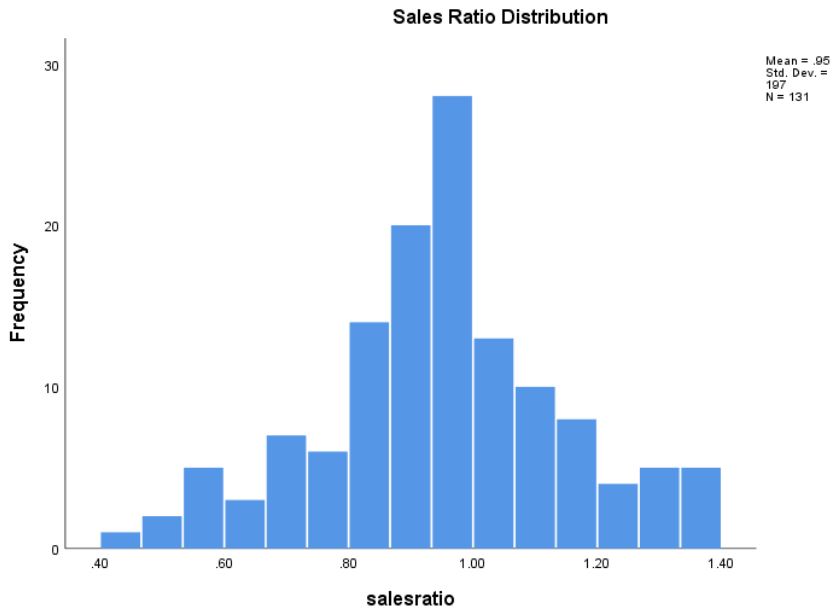
Case Processing Summary

		Count	Percent
ECONAREA	1.00	10	8.0%
	2.00	14	11.2%
	3.00	65	52.0%
	4.00	6	4.8%
	5.00	30	24.0%
Overall		125	100.0%
Excluded		6	
Total		131	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1.00	.957	.997	.081
2.00	.978	1.073	.132
3.00	.963	1.007	.160
4.00	.959	1.011	.108
5.00	.918	1.070	.160
Overall	.963	1.025	.148

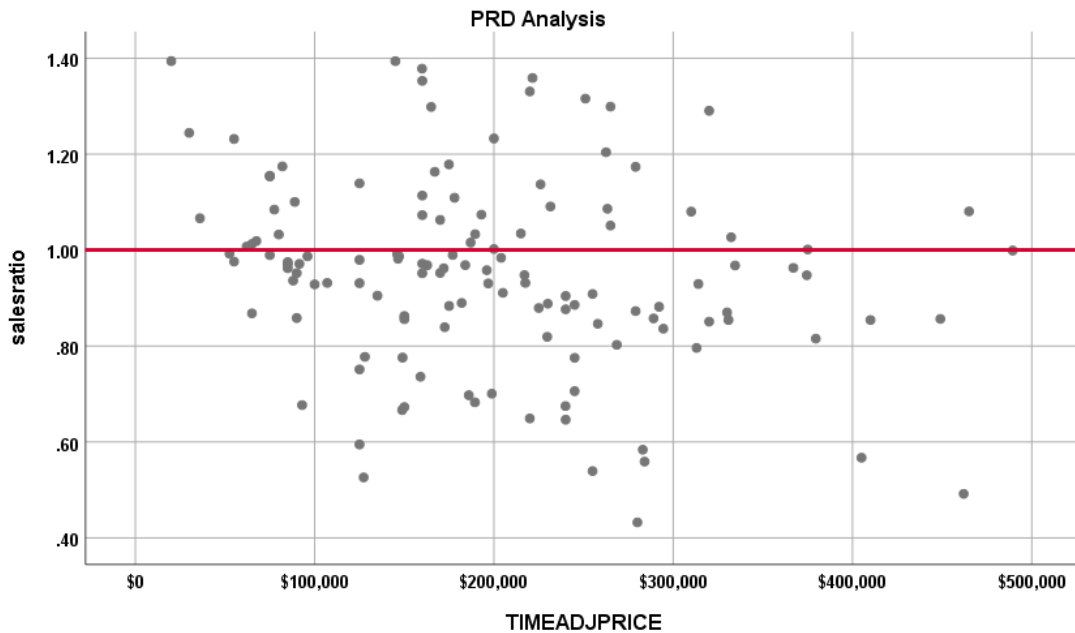
The above class-level ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. The following graph describes further the sales ratio distribution for these properties:



The above graph indicates that the distribution of the sale ratios was within state mandated limits.

Subclass 1212 PRD Analysis

We next analyzed residential properties identified as 1212 using the state abstract code system. These include single family residences, town homes and purged manufactured homes. The following indicates the distribution of sales ratios across the sale price spectrum:



The Price-Related Differential (PRD) for 1212 sales is 1.025, which is within IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor’s current value to further test for regressivity or progressivity in the residential sales valuation, as follows:

Coefficients^a

Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Coefficients Beta		
1	(Constant)	.874	.037		23.613	.000
	CURRTOT	.000000419	.000	.202	2.345	.021

a. Dependent Variable: salesratio

The slope of the line at 0.000000419 indicates that there is virtually no slope in the regression line, which indicates that sales ratios are similar across the entire sale price array.

We also stratified the sales ratio analysis by the sale price range, as follows:

Case Processing Summary

		Count	Percent
SPRec	LT \$100K	27	20.6%
	\$100K to \$200K	48	36.6%
	\$200K to \$300K	37	28.2%
	\$300K to \$400K	13	9.9%
	\$400K to \$500K	6	4.6%
Overall		131	100.0%
Excluded		0	
Total		131	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
LT \$100K	.993	1.024	.098
\$100K to \$200K	.965	.995	.152
\$200K to \$300K	.886	1.006	.193
\$300K to \$400K	.948	1.001	.099
\$400K to \$500K	.855	.992	.199
Overall	.962	1.025	.153

The above table indicates no regressivity in the sales ratios across sale price categories.

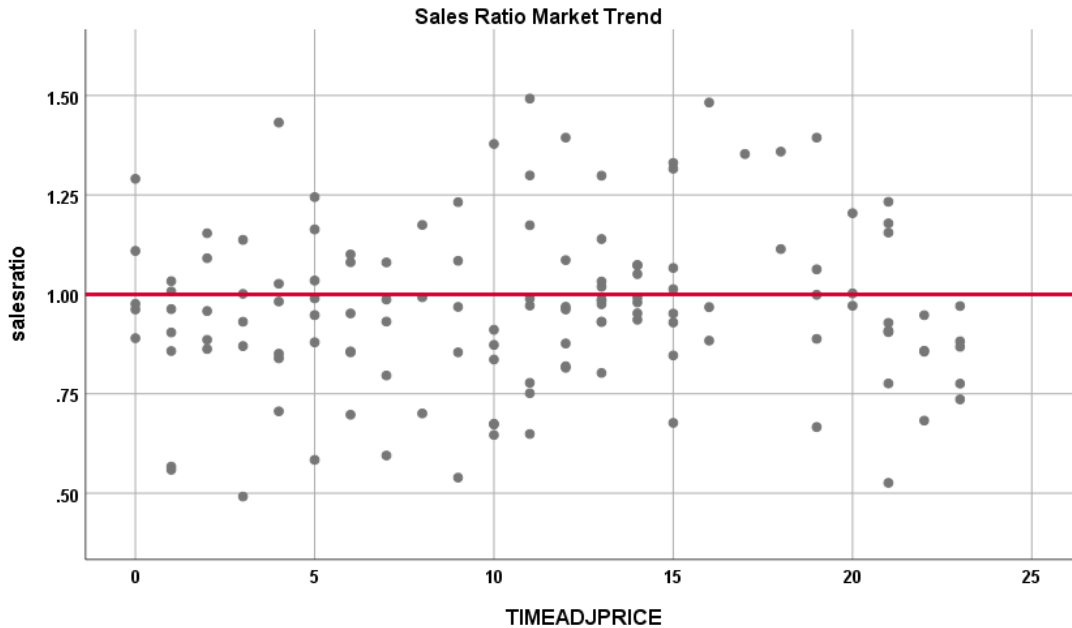
Residential Market Trend Analysis

We next analyzed the residential dataset using a 24-month sale period for any residual market trending, with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	
	B	Std. Error	Beta			
1	(Constant)	.944	.035		27.292	.000
	SalePeriod	.002	.003	.064	.731	.466

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 and mean change in actual value for valuation year 2018 and valuation year 2020 between sold and unsold residential properties. This analysis was stratified by class, economic area and neighborhood (with 5 or more sales), with the following results:

Class				
Report				
DIFF				
DIFF	N	Median	Mean	
UNSOLD	2114	1.03	1.15	
SOLD	99	1.35	1.30	

**Economic Area
Report**

DIFF				
ECONAREA	sold	N	Median	Mean
1.00	UNSOLD	210	1.07	1.16
	SOLD	6	1.23	1.27
2.00	UNSOLD	471	.89	.92
	SOLD	12	1.05	1.17
3.00	UNSOLD	602	1.41	1.39
	SOLD	50	1.41	1.39
4.00	UNSOLD	170	1.39	1.32
	SOLD	4	1.46	1.36
5.00	UNSOLD	588	.95	1.01
	SOLD	24	1.02	1.12

Neighborhood (GE 5 Sales)

DIFF				
NBHD	sold	N	Median	Mean
11200	UNSOLD	55	1.50	1.49
	SOLD	3	1.41	1.55
20322	UNSOLD	91	.89	.92
	SOLD	5	1.00	1.08
50051	UNSOLD	16	1.42	1.39
	SOLD	3	1.44	1.33
52804	UNSOLD	23	.97	.97
	SOLD	8	.99	1.05
90510	UNSOLD	28	1.01	1.02
	SOLD	3	1.04	1.04
90511	UNSOLD	325	1.43	1.41
	SOLD	28	1.43	1.40
90512	UNSOLD	129	1.31	1.31
	SOLD	12	1.32	1.29
90514	UNSOLD	83	1.64	1.60
	SOLD	4	1.63	1.62

Based on the overall consistency in the above comparison analysis at the economic area and neighborhood levels, we concluded that the assessor has valued sold and unsold residential properties consistently.

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

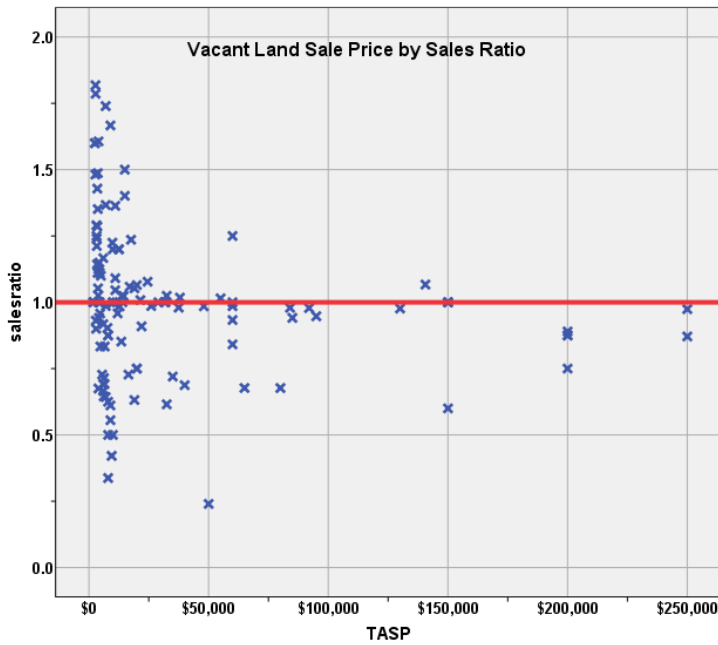
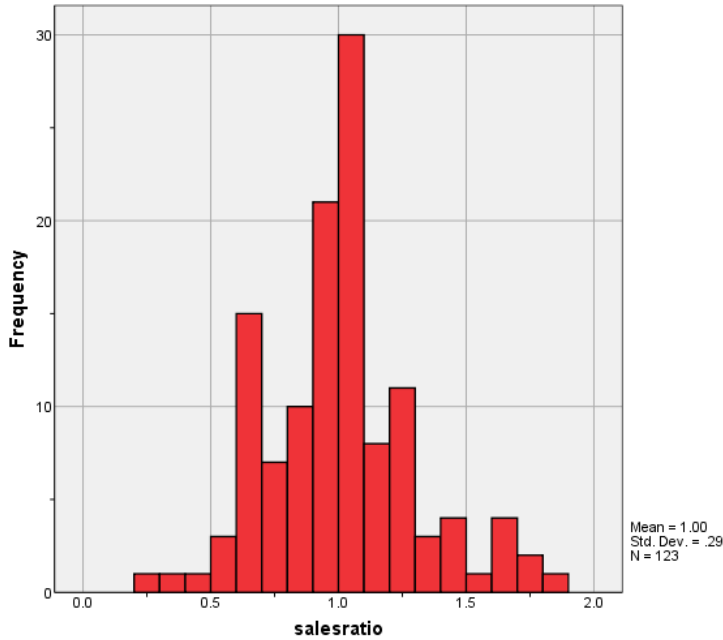
The County had less than ten qualified commercial sales for the June 30, 2020 valuation date. Consequently, a procedural analysis was performed by Wildrose staff for taxable year 2021. That procedural analysis is in effect for taxable year 2022. No other commercial analysis is required.

V. VACANT LAND SALE RESULTS

There were 123 qualified vacant land sales in the 18-month sale period ending June 30, 2020. The sales ratio analysis results were as follows:

Median	1.000
Price Related Differential	1.088
Coefficient of Dispersion	20.6

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



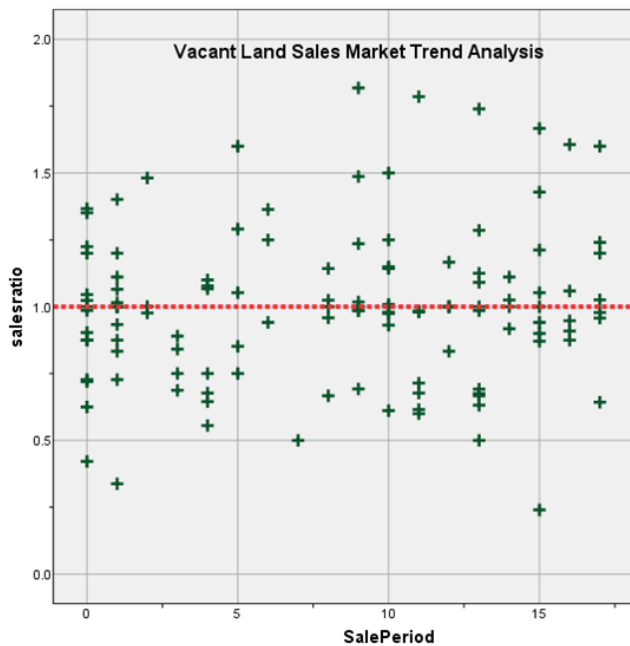
Vacant Land Market Trend Analysis

We analyzed the sales ratios for vacant land sales, based on the time adjusted sale price (TASP) and the actual land value to determine if there was any residual time trending in the vacant land valuations. The vacant land sales were analyzed, examining the sales ratios across the 18 month sale period with the following results:

Coefficients^a

Model		Unstandardized Coefficients B	Std. Error	Standardized Coefficients Beta	t	Sig.
1	(Constant)	.953	.046		20.836	.000
	SalePeriod	.005	.005	.106	1.178	.241

a. Dependent Variable: salesratio



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

Sold/Unsold Analysis

We compared the median change in actual value for valuation year 2018 and valuation year 2020 vacant land properties to determine if sold and unsold properties were valued consistently, as follows:

Report

DIFF		N	Median	Mean
UNSOLD		6432	1.00	1.06
SOLD		94	1.07	1.14

We next stratified this analysis by subdivisions with at least 3 sales, as follows:

Report

DIFF

NBHD	sold	N	Median	Mean
20420	UNSOLD	143	1.00	1.08
	SOLD	3	1.25	1.15
50051	UNSOLD	109	1.00	1.00
	SOLD	3	1.00	1.00
51200	UNSOLD	678	1.13	1.12
	SOLD	14	1.13	1.13
90511	UNSOLD	927	1.15	1.25
	SOLD	21	1.25	1.35
90512	UNSOLD	639	1.00	1.02
	SOLD	13	1.00	1.05
90514	UNSOLD	468	1.00	1.02
	SOLD	13	1.00	1.00

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

V. CONCLUSIONS

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

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.951	.917	.985	.962	.929	.982	96.4%	.928	.888	.967	1.025	.153	20.8%

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 / TASP

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.997	.946	1.049	1.000	.977	1.000	95.3%	.917	.874	.959	1.088	.206	29.0%

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.

Residential Median Ratio Stratification

Age

Case Processing Summary

		Count	Percent
AgeRec	0	1	0.8%
	Over 100	12	9.2%
	75 to 100	3	2.3%
	50 to 75	12	9.2%
	25 to 50	34	26.0%
	5 to 25	54	41.2%
	5 or Newer	15	11.5%
Overall		131	100.0%
Excluded		0	
Total		131	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	1.100	1.000	.000	.
Over 100	.970	1.024	.130	20.0%
75 to 100	.980	1.003	.027	4.3%
50 to 75	.969	1.062	.151	21.1%
25 to 50	.921	1.049	.170	22.7%
5 to 25	.930	1.010	.139	18.7%
5 or Newer	1.086	1.006	.149	20.6%
Overall	.962	1.025	.153	20.6%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1	0.8%
	500 to 1,000 sf	16	12.2%
	1,000 to 1,500 sf	42	32.1%
	1,500 to 2,000 sf	32	24.4%
	2,000 to 3,000 sf	33	25.2%
	3,000 sf or Higher	7	5.3%
Overall		131	100.0%
Excluded		0	
Total		131	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	1.066	1.000	.000	.
500 to 1,000 sf	1.001	1.042	.179	23.5%
1,000 to 1,500 sf	.960	1.015	.160	21.2%
1,500 to 2,000 sf	.944	1.034	.143	20.5%
2,000 to 3,000 sf	.963	1.018	.148	20.1%
3,000 sf or Higher	.931	.987	.115	17.9%
Overall	.962	1.025	.153	20.6%

Improvement Quality

Case Processing Summary

	Count	Percent
QUALITY AVERAGE	39	29.8%
EXCELLENT	7	5.3%
FAIR	29	22.1%
GOOD	53	40.5%
POOR	3	2.3%
Overall	131	100.0%
Excluded	0	
Total	131	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
AVERAGE	.952	1.031	.155	20.2%
EXCELLENT	1.001	.993	.040	5.4%
FAIR	.931	1.082	.179	24.0%
GOOD	.962	1.029	.157	21.1%
POOR	.993	1.014	.035	5.7%
Overall	.962	1.025	.153	20.6%

Vacant Land Median Ratio Stratification

Sale Price

Case Processing Summary

	Count	Percent
SPRec LT \$25K	87	70.7%
\$25K to \$50K	12	9.8%
\$50K to \$100K	12	9.8%
\$100K to \$150K	6	4.9%
\$150K to \$200K	4	3.3%
\$200K to \$300K	2	1.6%
Overall	123	100.0%
Excluded	0	
Total	123	

Ratio Statistics for CURRLND / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.009	1.042	.238	31.5%
\$25K to \$50K	.985	1.029	.152	28.3%
\$50K to \$100K	.963	1.005	.103	16.2%
\$100K to \$150K	1.000	1.002	.082	18.2%
\$150K to \$200K	.875	1.000	.040	8.3%
\$200K to \$300K	.923	1.000	.056	7.9%
Overall	1.000	1.088	.206	29.0%

Subclass

Case Processing Summary

	Count	Percent
ABSTRLND	12	9.8%
.00	85	69.1%
100.00	1	0.8%
530.00	9	7.3%
550.00	2	1.6%
560.00	1	0.8%
1112.00	13	10.6%
2130.00		
Overall	123	100.0%
Excluded	0	
Total	123	

Ratio Statistics for CURRLND / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
.00	1.084	1.132	.190	27.3%
100.00	1.000	1.081	.232	31.6%
530.00	1.001	1.000	.000	.
550.00	1.000	1.021	.135	19.8%
560.00	.827	.967	.129	18.2%
1112.00	1.167	1.000	.000	.
2130.00	.947	1.009	.094	13.7%
Overall	1.000	1.088	.206	29.0%