



2019  
SAN JUAN COUNTY  
PROPERTY ASSESSMENT  
STUDY

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**WILDROSE**  
APPRAISAL INCORPORATED  
**Audit Division**



September 15, 2019

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

**RE: Final Report for the 2019 Colorado Property Assessment Study**

Dear Ms. Mullis:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2019 Colorado Property Assessment Study.

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

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

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

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

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

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

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# INTRODUCTION

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## Colorado

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

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

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

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

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

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

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

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

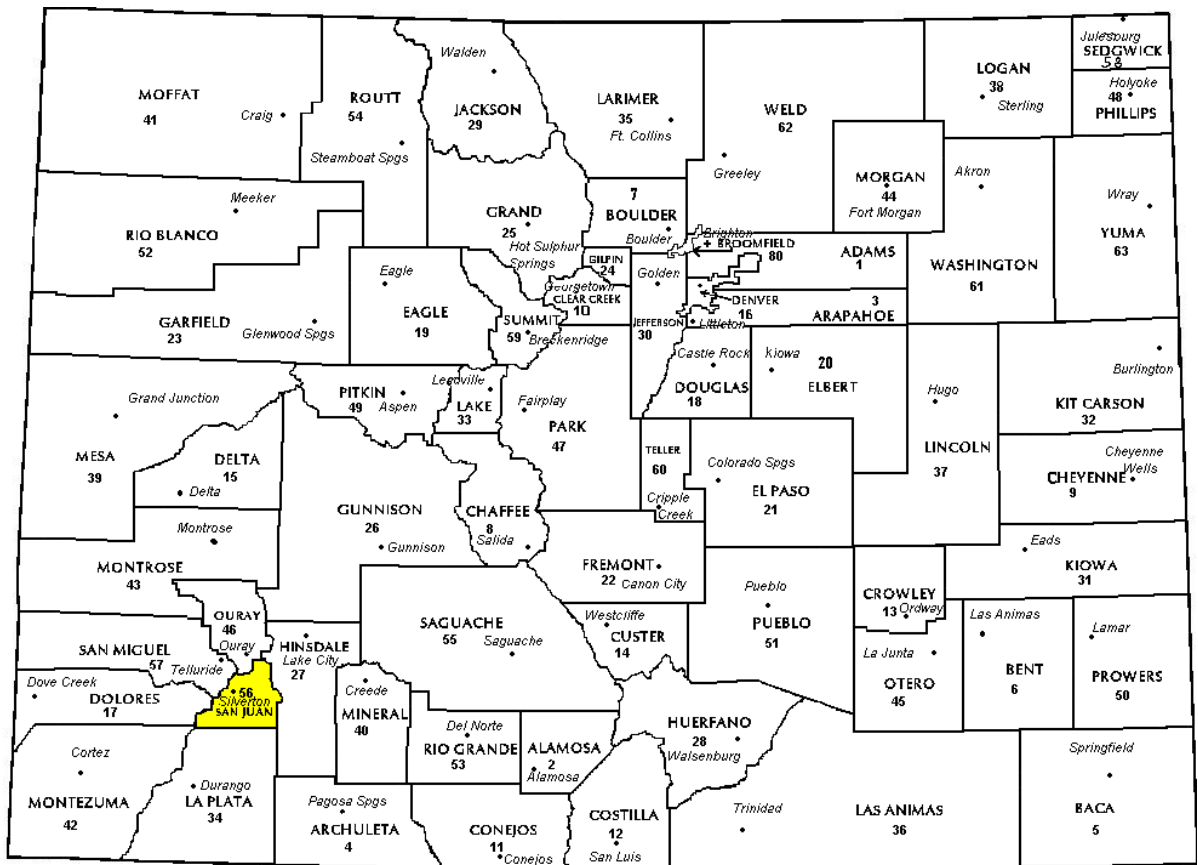
Wildrose Audit has completed the Property Assessment Study for 2019 and is pleased to report its findings for San Juan County in the following report.

# REGIONAL/HISTORICAL SKETCH OF SAN JUAN COUNTY

## Regional Information

San Juan 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

San Juan County had an estimated population of approximately 694 people with 1.8 people per square mile, according to the U.S. Census Bureau's 2016 estimated census data. This represents a -0.7 percent change from April 1, 2010 to July 1, 2016.

San Juan County is the least populous of the 64 Colorado counties. The locale is recognized worldwide for premier big game hunting and for abundant fishing, particularly in the quality waters of the three rivers (Animas, La Plata, & San Juan River), which flow through the area. Numerous outdoor activities may be enjoyed year round.

The Town of Silverton is a Statutory Town that is the county seat of, and the only incorporated municipality in, San Juan County. The Silverton district opened legally to miners in 1874, following the Brunot Treaty with the Utes. An estimated 2,000 men moved into the region that year. They came from across the U.S., many parts of Europe and even China, to endure severe winters and dangerous mining

conditions in their pursuit of the minerals they hoped would make them rich.

Not all who settled were miners. By 1875 the 100 sturdy souls who lived in Silverton proper worked in the post office, sawmills, blacksmith shop, mercantile, newspaper, liquor stores, smelters, assay offices. The town's population grew to 500 by 1876. In addition to the miners, Silverton caught the eye of a railroad company in Denver. In July 1882 the first train operated by the Denver & Rio Grande Railroad rolled in to Silverton from Durango. By 1883, Silverton boasted of having a population of 2,000 people with 400 buildings.

Silverton offers a variety of unique attractions for visitors, including the Silverton Brass Band, gun fight reenactments, a local theater group, the Mining Heritage Center, Mayflower Gold Mill Tour, Old Hundred Gold Mine Tour, Durango & Silverton Narrow Gauge Railroad, Bar D Chuckwagon, stage coach rides, Silverton Hillside Cemetery, and The Christ of the Mines Shrine.

*([silvertoncolorado.com](http://silvertoncolorado.com), [www.wikipedia.org](http://www.wikipedia.org), [www.sjcounty.net](http://www.sjcounty.net))*

# 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, 2017 through June 30, 2018. 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 San Juan County are:

<b>San Juan County Ratio Grid</b>					
<b>Property Class</b>	<b>Number of Qualified Sales</b>	<b>Unweighted Median Ratio</b>	<b>Price Related Differential</b>	<b>Coefficient of Dispersion</b>	<b>Time Trend Analysis</b>
*Commercial/Industrial	N/A	N/A	N/A	N/A	N/A
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	67	1.021	1.043	12.7	Compliant
Vacant Land	N/A	N/A	N/A	N/A	N/A

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

San Juan 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.

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

### **Conclusions**

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

### **Recommendations**

None

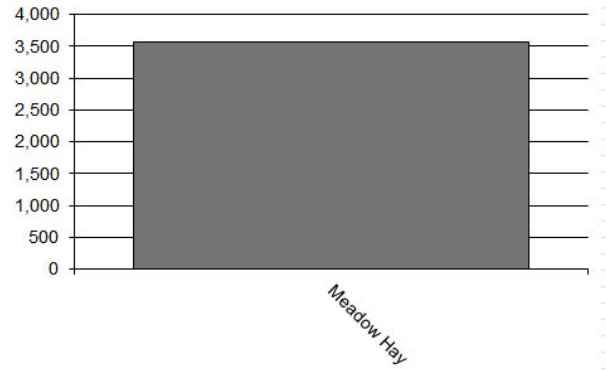
# AGRICULTURAL LAND STUDY

Acres By Subclass



Meadow Hay  
100.00%

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:



<b>San Juan County Agricultural Land Ratio Grid</b>						
<b>Abstract Code</b>	<b>Land Class</b>	<b>Number Of Acres</b>	<b>County Value Per Acre</b>	<b>County Assessed Total Value</b>	<b>WRA Total Value</b>	<b>Ratio</b>
4137	Meadow Hay	42	84.86	3,564	3,564	1.00
<b>Total/Avg</b>		42	84.86	3,564	3,564	1.00

**Recommendations**

None

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**San Juan County is exempt from the Agricultural Outbuildings Study**

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**San Juan County is exempt from the Agricultural Land Under Improvements Study**

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## 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 2019 for San Juan County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 35 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.

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

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

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of

unqualified sales, excluding sales that were disqualified for obvious reasons.

San Juan County did not qualify for in-depth subclass analysis.

### **Conclusions**

San Juan County appears to be doing a good 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**

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

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

## **Recommendations**

None

## NATURAL RESOURCES

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**San Juan County is exempt from the Natural Resources Study.**

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## VACANT LAND

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County is exempt from the Vacant Land Subdivision Discount Study.

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# 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.

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

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

San Juan 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.

San Juan 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
- Town Business Licenses

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.

San Juan County submitted their personal property written audit plan and was current for the 2019 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
- Incomplete or inconsistent declarations
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts - Best Information Available
- Accounts close to the \$7,700 actual value exemption status



### **Conclusions**

San Juan 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*

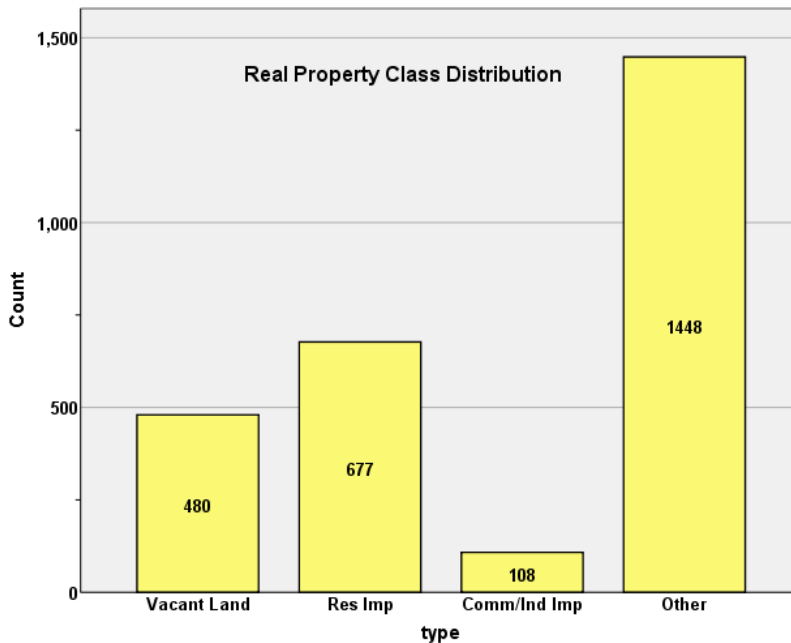


# STATISTICAL APPENDIX

## STATISTICAL COMPLIANCE REPORT FOR SAN JUAN COUNTY 2019

### I. OVERVIEW

San Juan County is a rural mountain county located in southwestern Colorado. The county has a total of 2,713 real property parcels, according to data submitted by the county assessor's office in 2019. The following provides a breakdown of property classes for this county:



Based on the number of vacant land parcels in San Juan County, we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 77.1% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties also accounted for 4.0% of all real property parcels in this county.

Based on the Audit questionnaire filled out by the assessor (see below), the following geographic levels were used by the assessor to value residential, commercial and vacant land properties:

Geo Area	Residential	Comm/Ind	Vacant Land
Economic Area	V	V	V
Neighborhood	N	N	N
Subdivision	N	N	N

*Codes*

*V=Valid Geographic Level – used for modeling*

*N = Not used as Geographic Level for modeling*

## II. DATA FILES

The following sales analyses were based on the requirements of the 2019 Colorado Property Assessment Study. Information was provided by the San Juan Assessor’s Office in April 2019. The data included all 5 property record files as specified by the Auditor.

## III. RESIDENTIAL SALES RESULTS

A total of 67 qualified residential sales were analyzed for the 60 month period prior to June 30, 2018. We excluded condominium sales coded as 1230, based on their mixed use classification. No sales were trimmed.

No. Sales	Median	Price Related Differential	Coefficient of Dispersion
67	1.021	1.043	12.7

We next stratified the sale ratio analysis by economic area. There was no neighborhood breakdown data available. The following are the results of this stratification analysis:

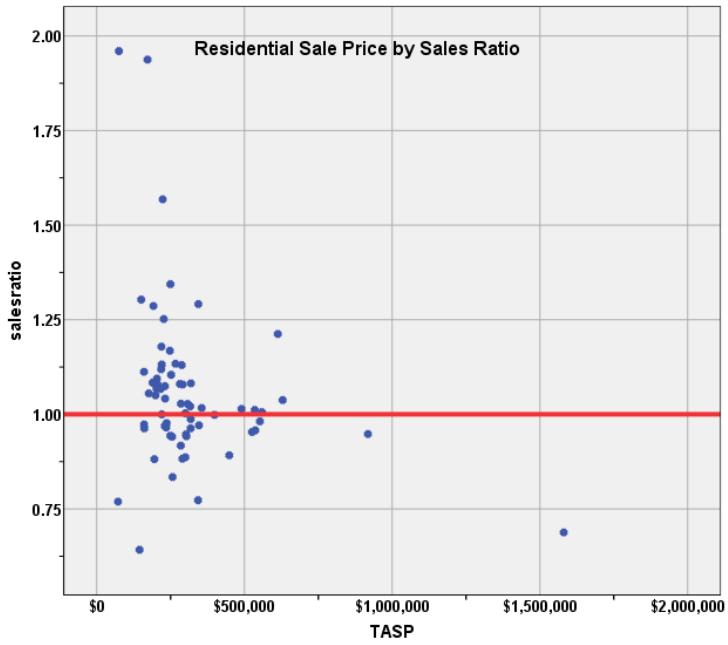
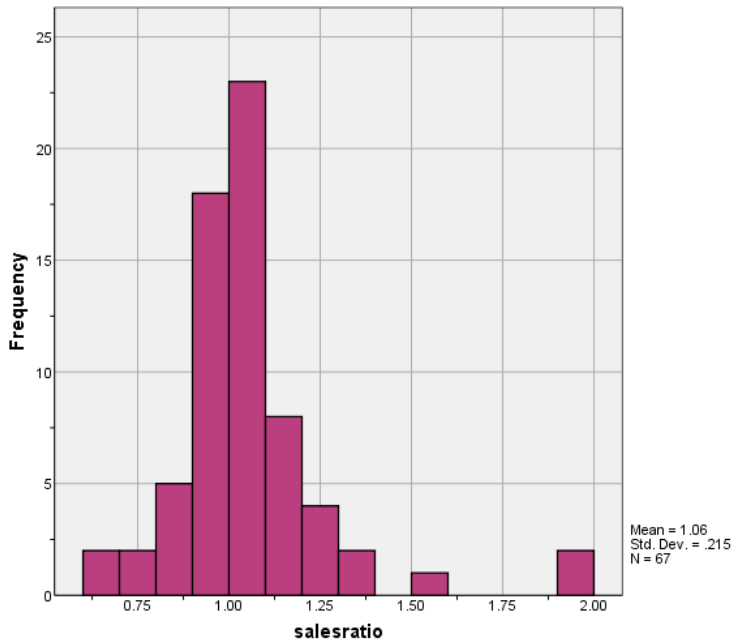
### Case Processing Summary

		Count	Percent
ECONAREA	2.00	9	14.8%
	3.00	52	85.2%
Overall		61	100.0%
Excluded		6	
Total		67	

### Ratio Statistics for currtot / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
2.00	1.006	1.001	.048
3.00	1.035	1.052	.140
Overall	1.021	1.045	.129

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 all of these properties:



The above graphs indicate that the distribution of the sale ratios was within state mandated limits, and that there were no significant price-related differential issues.

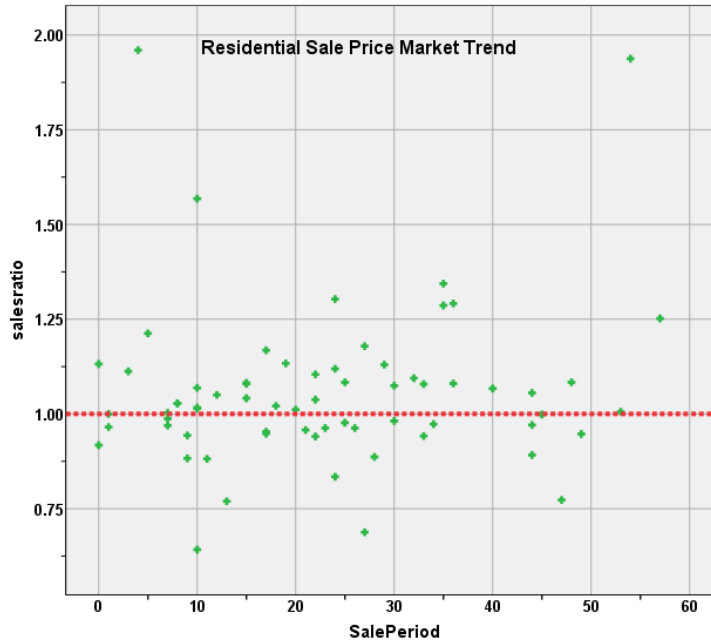
### Residential Market Trend Analysis

We next analyzed the residential dataset using the 60-month sale period, with the following results:

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

Model		Unstandardized Coefficients		Standardized	t	Sig.
		B	Std. Error	Coefficients Beta		
1	(Constant)	1.026	.049		21.038	.000
	SalePeriod	.001	.002	.096	.779	.439

a. Dependent Variable: salesratio



The above analysis indicated that no residential market trend was present in the sale data. We concluded that the assessor has adequately addressed market trending for residential properties in San Juan County.

**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 2019 between each group, both by class and by economic area, as follows:

<b>Report</b>				
VALSF				
	N	Median	Mean	
UNSOLD	480	\$179	\$193	
SOLD	67	\$185	\$191	

### Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The distribution of VALSF is the same across categories of sold.	Independent-Samples Mann-Whitney U Test	.387	Retain the null hypothesis.

Asymptotic significances are displayed. The significance level is .01.

#### Report

VALSF					
ECONAREA	sold	N	Median	Mean	
2.00	UNSOLD	22	\$252	\$271	
	SOLD	9	\$249	\$249	
3.00	UNSOLD	358	\$173	\$181	
	SOLD	52	\$180	\$188	

Based on the above results, we concluded that there was no evidence that the county assessor was consistently valuing sold properties at a higher value than unsold properties.

#### IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

The County did not have enough qualified commercial/industrial sales to be statistically significant. A procedural audit was completed for taxable year 2019. This analysis reviewed all qualified commercial sales. Information was gathered concerning class of property, year built, improvement size, type and quality of construction, condition at the time of sale, sale date and amount and the Assessor value. The audit then determined sale price per square foot and the sales ratio. The audit concluded that the County is in compliance due to the lack of substantive data to support a revaluation decision.

#### V. CONCLUSIONS

Based on this statistical analysis, there were no compliance issues concluded for San Juan 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			
1.058	1.006	1.111	1.021	.987	1.069	95.0%	1.014	.955	1.074	1.043	.127	20.3%

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



**Residential Median Ratio Stratification**

**Sale Price**

**Case Processing Summary**

		Count	Percent
SPRec	\$50K to \$100K	2	3.0%
	\$100K to \$150K	1	1.5%
	\$150K to \$200K	11	16.4%
	\$200K to \$300K	30	44.8%
	\$300K to \$500K	14	20.9%
	\$500K to \$750K	7	10.4%
	\$750K to \$1,000K	1	1.5%
	Over \$1,000K	1	1.5%
Overall		67	100.0%
Excluded		0	
Total		67	

**Ratio Statistics for currtot / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$50K to \$100K	1.365	.991	.436	61.7%
\$100K to \$150K	.642	1.000	.000	.
\$150K to \$200K	1.084	1.004	.151	27.5%
\$200K to \$300K	1.072	1.006	.094	13.6%
\$300K to \$500K	.993	1.001	.070	11.3%
\$500K to \$750K	1.006	.996	.052	9.0%
\$750K to \$1,000K	.948	1.000	.000	.
Over \$1,000K	.688	1.000	.000	.
Overall	1.021	1.043	.127	21.4%

**Subclass**

**Case Processing Summary**

		Count	Percent
ABSTRIMP	1212	64	95.5%
	1215	3	4.5%
Overall		67	100.0%
Excluded		0	
Total		67	

**Ratio Statistics for currtot / TASP**

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1212	1.024	1.044	.128	21.6%
1215	.947	1.020	.075	12.5%
Overall	1.021	1.043	.127	21.4%

## Improvement Age

### Case Processing Summary

		Count	Percent
AgeRec	Over 100	32	47.8%
	50 to 75	5	7.5%
	25 to 50	5	7.5%
	5 to 25	25	37.3%
Overall		67	100.0%
Excluded		0	
Total		67	

### Ratio Statistics for currtot / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	1.024	1.024	.165	28.4%
50 to 75	1.084	1.016	.094	13.4%
25 to 50	.973	.994	.099	12.7%
5 to 25	1.014	1.054	.085	11.8%
Overall	1.021	1.043	.127	21.4%

## Improvement Area

### Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	7	10.4%
	1,000 to 1,500 sf	24	35.8%
	1,500 to 2,000 sf	18	26.9%
	2,000 to 3,000 sf	16	23.9%
	3,000 sf or Higher	2	3.0%
Overall		67	100.0%
Excluded		0	
Total		67	

### Ratio Statistics for currtot / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
500 to 1,000 sf	1.079	.993	.082	11.4%
1,000 to 1,500 sf	1.035	.999	.105	14.3%
1,500 to 2,000 sf	1.036	1.056	.181	32.4%
2,000 to 3,000 sf	1.016	1.024	.098	17.5%
3,000 sf or Higher	.818	1.044	.159	22.5%
Overall	1.021	1.043	.127	21.4%

## Improvement Quality

### Case Processing Summary

		Count	Percent
QUALITY	1	1	1.5%
	2	19	28.4%
	3	35	52.2%
	4	9	13.4%
	5	3	4.5%
Overall		67	100.0%
Excluded		0	
Total		67	

### Ratio Statistics for currtot / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1	.642	1.000	.000	.
2	1.055	.998	.097	13.1%
3	1.038	1.040	.141	25.3%
4	1.006	1.010	.049	10.4%
5	.948	1.094	.184	27.7%
Overall	1.021	1.043	.127	21.4%

## Improvement Condition

### Case Processing Summary

		Count	Percent
CONDITION	1	13	19.4%
	2	26	38.8%
	3	26	38.8%
	4	2	3.0%
Overall		67	100.0%
Excluded		0	
Total		67	

### Ratio Statistics for currtot / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
1	1.000	1.030	.253	42.0%
2	1.074	.997	.069	9.4%
3	.993	1.056	.103	16.6%
4	1.117	.990	.156	22.1%
Overall	1.021	1.043	.127	21.4%