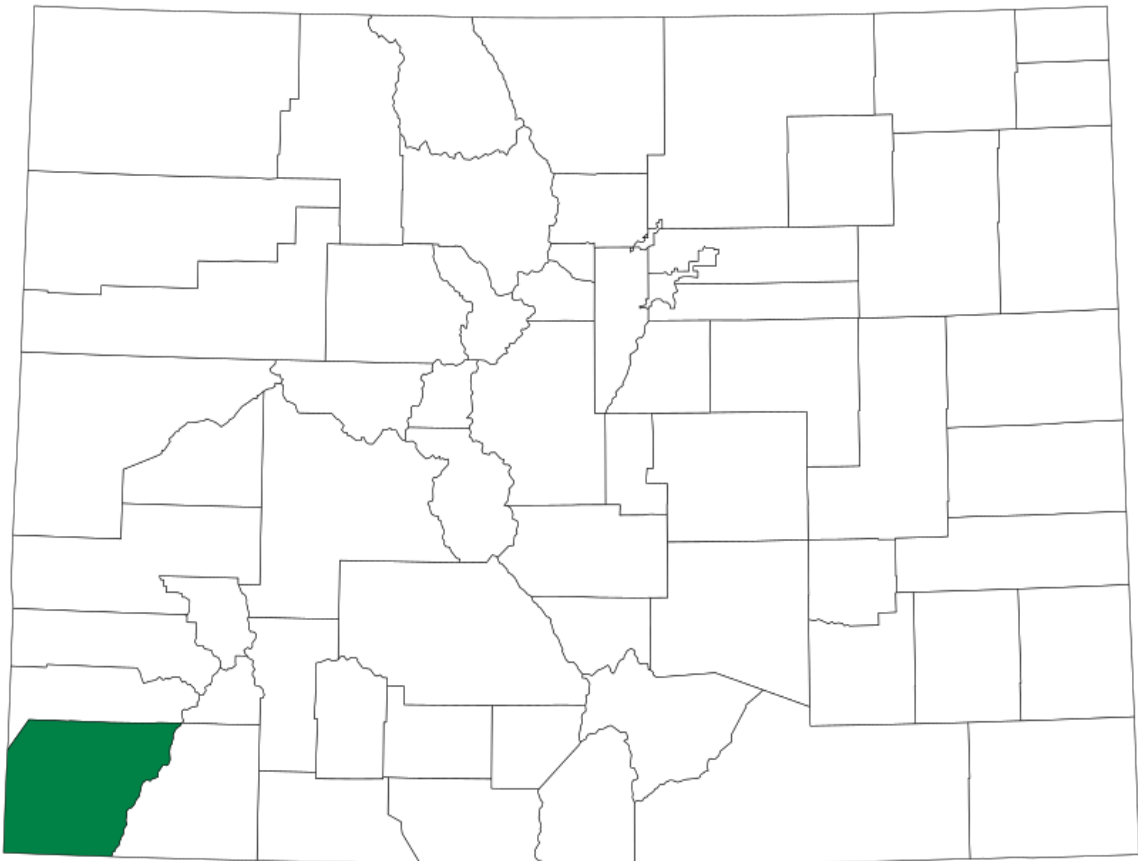


# San Matteo

DATA ANALYTICS

**2025 Property Assessment Study**

**Montezuma County**



September 15, 2025

**Natalie Castle**

Director of Research, Colorado Legislative Council  
Room 029, 200 East Colfax Avenue  
Denver, CO 80203

San Matteo Data Analytics (SMDA) respectfully submits the **Final Report regarding the 2025 Colorado Property Assessment Study for Montezuma County**. This report summarizes the results of both a procedural review and a statistical analysis.

The **procedural review** evaluated local assessment practices, including valuation methods of residential, commercial, agricultural properties, as well as natural resources, personal property, possessory interests, and subdivision discounting. It also examined processes related to the development of economic areas, and sales qualification.

The **statistical analysis** measured compliance with statutory assessment levels for vacant land, residential, and commercial/industrial properties.

We value the opportunity to support the State of Colorado in ensuring fair and consistent property assessments. Please contact us if you have any questions or need additional details regarding these reports.



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# 1. Statistical Overview

## Compliance and Evaluations

Montezuma County was found to be in compliance.

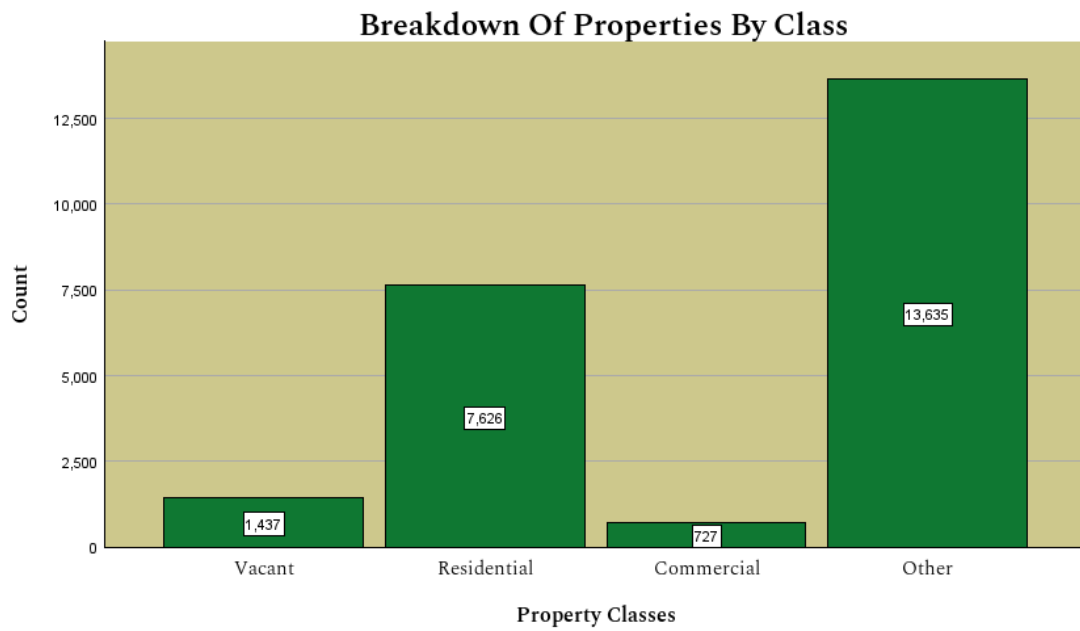
	Result	Value
<b>Vacant Land</b>		
Median Sales Ratio	Pass	0.97
Coefficient of Dispersion	Pass	12.73%
Time Adjustments	Pass	0.455
Price Related Differential	Sufficient	1.18
Price Related Bias	Sufficient	-0.01
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

	<b>Result</b>	<b>Value</b>
<b>Residential</b>		
Median Sales Ratio	Pass	0.96
Coefficient of Dispersion	Pass	12.57%
Time Adjustments	Pass	0.679
Price Related Differential	Sufficient	1.02
Price Related Bias	Sufficient	-0.04
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

	<b>Result</b>	<b>Value</b>
<b>Commercial/Industrial</b>		
Median Sales Ratio	Pass	0.99
Coefficient of Dispersion	Pass	11.29%
Time Adjustments	Pass	0.536
Price Related Differential	Sufficient	0.96
Price Related Bias	Sufficient	0.02
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

## Property Types

Below is a breakdown of the property types of the 23,425 parcels in Montezuma County.



## 2. Vacant Land

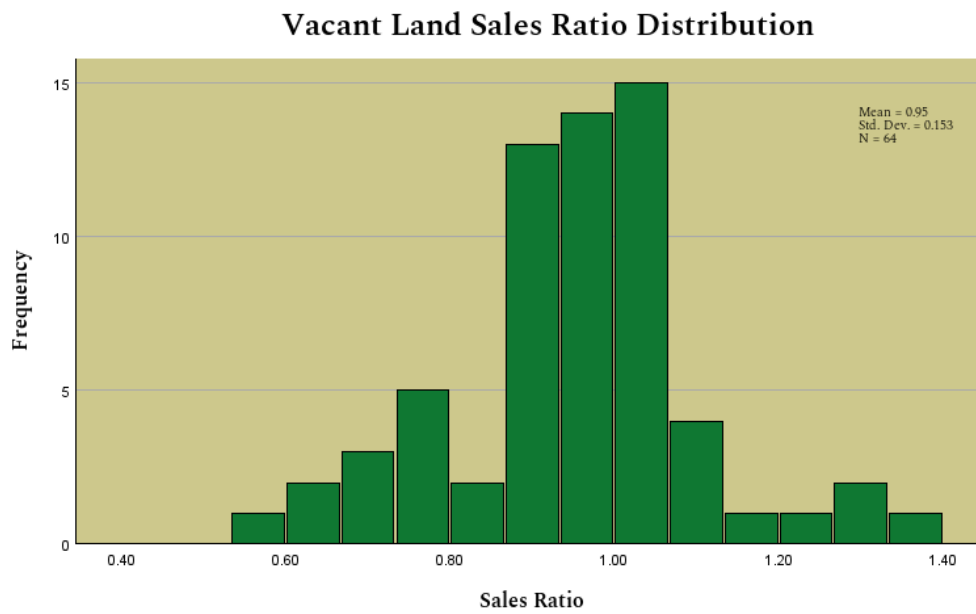
### Overview

Montezuma was found to be compliant for Vacant Land properties.

	Result	Value
<b>Vacant Land</b>		
Median Sales Ratio	Pass	0.97
Coefficient of Dispersion	Pass	12.73%
Time Adjustments	Pass	0.455
Price Related Differential	Sufficient	1.18
Price Related Bias	Sufficient	-0.01
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

## Vacant Land Median Sales Ratio

The median sales ratio (MSR) tests how close the Assessor's valuations (estimates of market value) are to the true market value. The distribution of these sales ratios should be centered around 1.00. The Vacant Land MSR for Montezuma County was calculated to be 0.97, which is within the acceptable statistical range of 0.95 to 1.05 established by the State Board of Equalization (SBOE). We trimmed zero sales during the development of this analysis. The MSR was also calculated for all applicable subclass, neighborhoods, economic areas, size and valuation strata identified by the auditor. See appendix for more details.

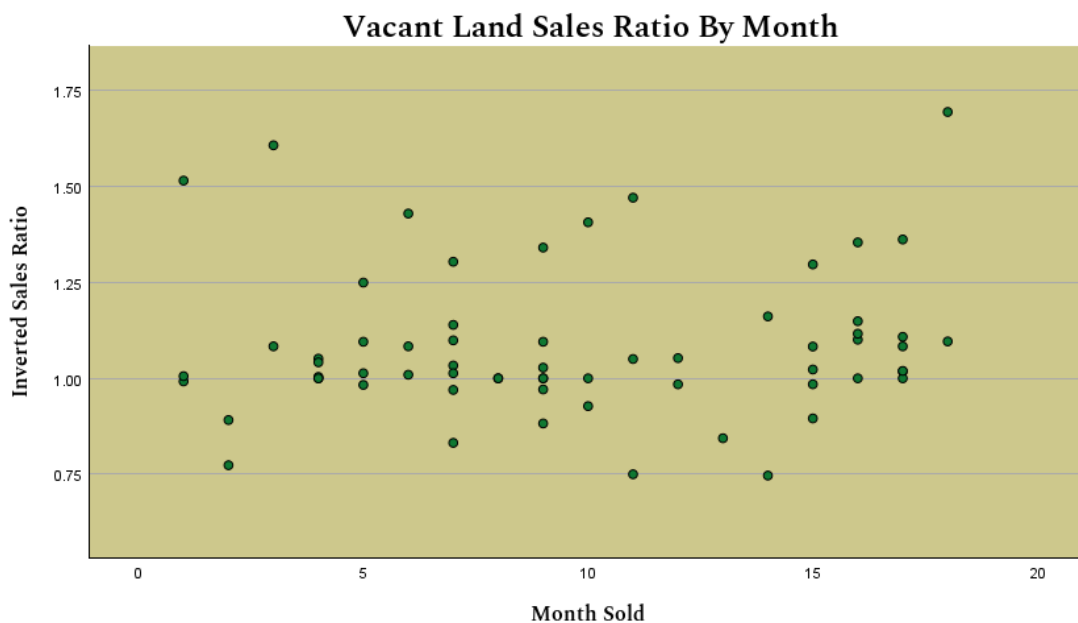


## Vacant Land Coefficient of Dispersion

The Coefficient of Dispersion (COD) tests for undesirable variance in the valuations. The variance in sales ratios should be as small as possible. The COD for Vacant Land properties in Montezuma County was calculated at 12.73% which is within the acceptable statistical standard of 20.99% or less established by the State Board of Equalization (SBOE). The COD was also calculated for all applicable class, subclass, neighborhoods, economic areas, and valuation strata identified by the auditor. See appendix for more details.

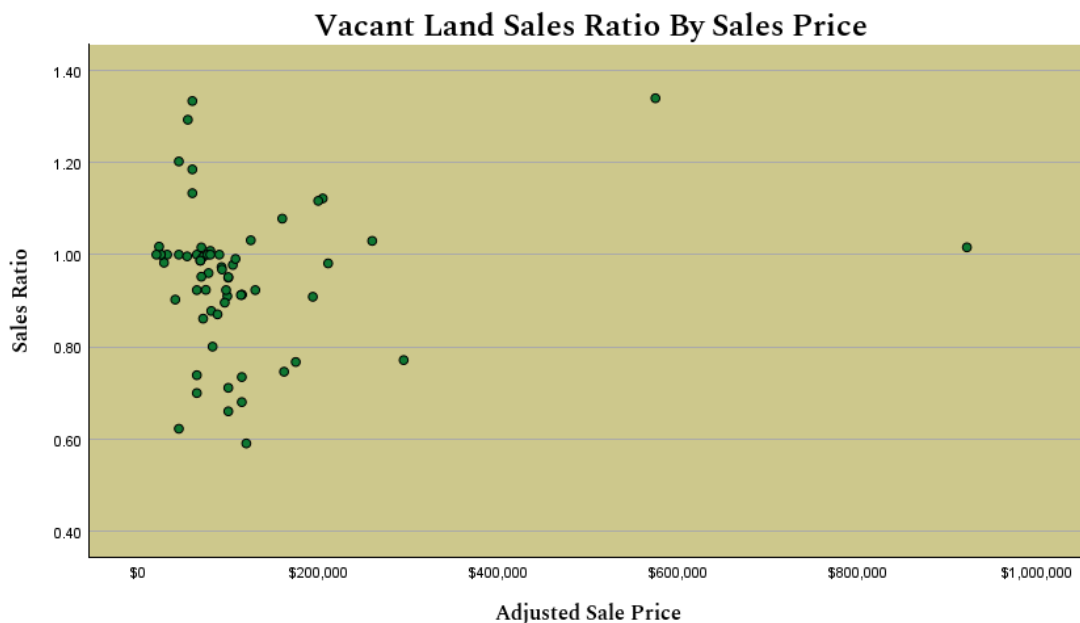
## Vacant Land Market (Time) Adjustments

All previous statistics used the time-adjusted sales price to ensure that the effect of time on sales ratios has been appropriately addressed. There should be a consistent and reasonable time adjustment methodology, not one tailored to improve sales ratios. We examined the sales ratios over the 18 - month period of sales. There does not appear to be a significant effect of time on Montezuma’s Vacant Land sales ratios.



## Vacant Land Price Related Differential

The Price Related Differential (PRD) tests for differences in the valuations of high and low value sold properties. Sales ratios should be consistent across the range of sale prices so the PRD should be very close to 1.00. The PRD for Montezuma County was calculated at 1.18, which is not within the acceptable range of 0.98 to 1.03 established by the International Association of Assessing Officers (IAAO). The PRD was also calculated for all applicable class, subclass, neighborhoods, economic areas, size, and valuation strata identified by the auditor. This test, combined with the Price Related Bias results, indicates that although the measure falls outside the IAAO’s acceptable range, it does not appear to present a concern. See appendix for more details.



## Vacant Land Price Related Bias

The Price Related Bias (PRB) measures whether assessment levels change systematically with property value. A PRB close to 0.00 indicates that high- and low-value properties are valued consistently, without upward or downward bias in the sales ratios. For Montezuma County, the PRB was calculated at -0.01 which is within the acceptable statistical range of -0.05 to 0.05 established by the International Association of Assessing Officers. The PRB was also analyzed across all applicable categories, including property class, subclass, neighborhood, economic area, size, and valuation strata as identified by the auditor. Additional details are provided in the appendix.

## **Vacant Land Sold/Unsold Comparison**

All previous Vacant Land statistics focus only on the compliance of properties that were sold during the Vacant Land data collection period. In order to ensure that the unsold properties are also being valued consistently we evaluate whether or not they were treated the same as the sold properties.

Our default comparison approach utilizes the Mann-Whitney U test (also known as the Wilcoxon rank-sum test), to analyze two samples of sold and unsold properties. First, we compare the price per square foot, followed by the change in price per square foot from last reappraisal to this one, and finally we compare the change in total value from last reappraisal to this one. If necessary, we will also consider the stratified (economic area, neighborhood, improvement abstract, etc.) medians of the following unitary metrics: price per foot, change in price per foot, and change in value. See appendix for more details.

Our study indicates that the Vacant Land sold and unsold properties are treated similarly.

## **Vacant Land Sales Qualification**

All the analysis above, notwithstanding the sold/unsold comparison, relies entirely on qualified sales. In order to ensure that this is a complete and unbiased analysis of assessment practices, we will verify that sales are being correctly coded. We have concluded that Vacant Land sales are being coded in an acceptable way.

There were 66 Vacant Land sales. We have confirmed that more than 50% of all sales were qualified.

### 3. Residential

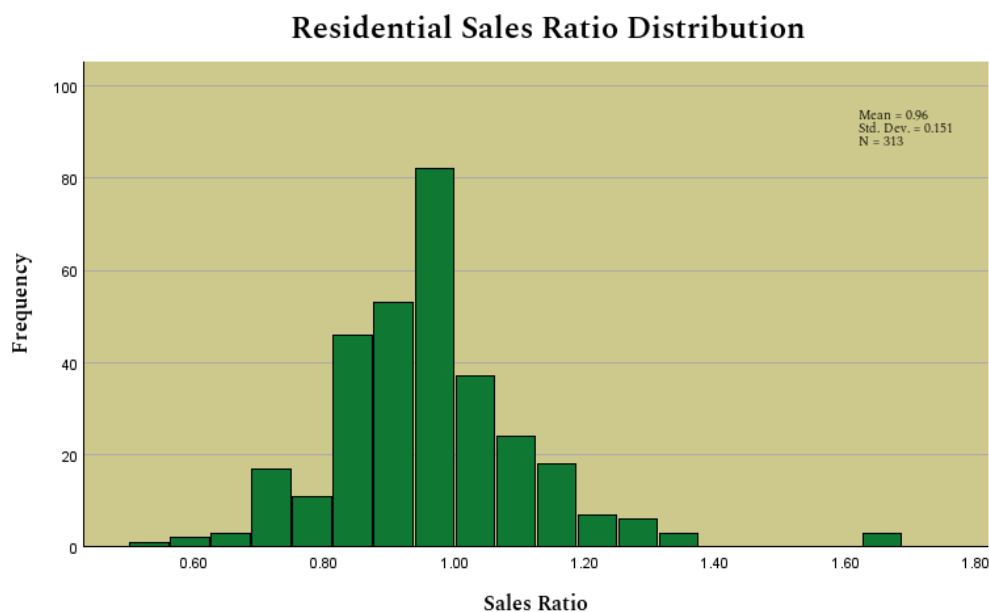
#### Overview

Montezuma County was found to be compliant for Residential properties.

	Result	Value
<b>Residential</b>		
Median Sales Ratio	Pass	0.96
Coefficient of Dispersion	Pass	12.57%
Time Adjustments	Pass	0.679
Price Related Differential	Sufficient	1.02
Price Related Bias	Sufficient	-0.04
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

## Residential Median Sales Ratio

The median sales ratio (MSR) tests how close the Assessor's valuations (estimates of market value) are to the true market value. The distribution of these sales ratios should be centered around 1.00. The Residential MSR for Montezuma County was calculated to be 0.96, which is within the acceptable statistical range of 0.95 to 1.05 established by the State Board of Equalization (SBOE). We trimmed zero sales during the development of this analysis. The MSR was also calculated for all applicable subclass, neighborhoods, economic areas, size and valuation strata identified by the auditor. See appendix for more details.



## Residential Coefficient of Dispersion

The Coefficient of Dispersion (COD) tests for undesirable variance in the valuations. The variance in sales ratios should be as small as possible. The COD for Residential properties in Montezuma County was calculated at 12.57% which is within the acceptable statistical standard of 15.99% or less established by the State Board of Equalization (SBOE). The COD was also calculated for all applicable class, subclass, neighborhoods, economic areas, and valuation strata identified by the auditor. See appendix for more details.

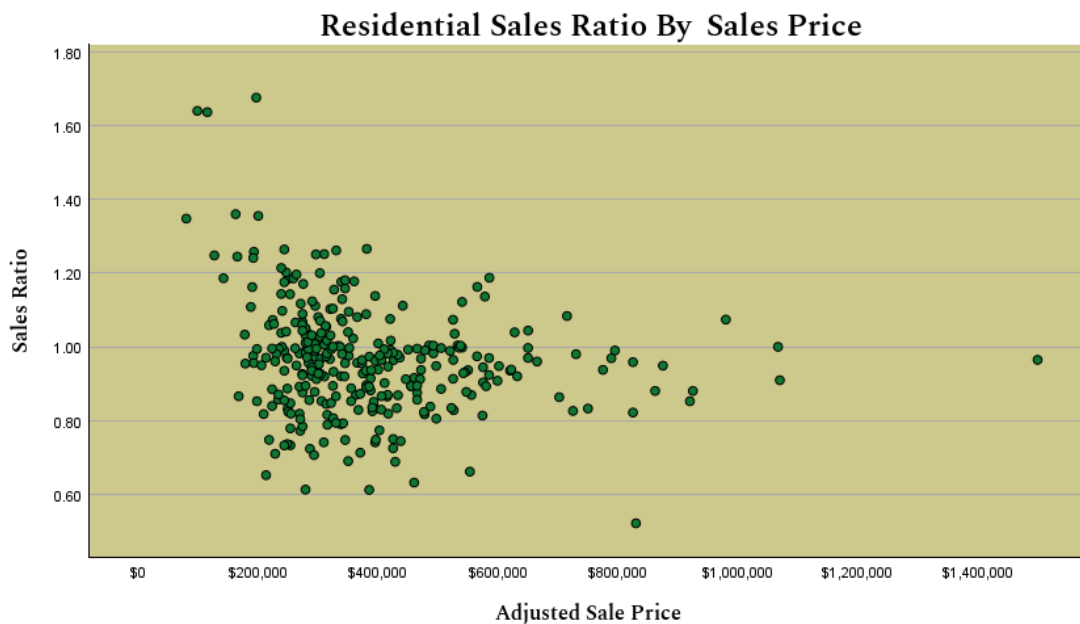
### Residential Market (Time) Adjustments

All previous statistics used the time-adjusted sales price to ensure that the effect of time on sales ratios has been appropriately addressed. There should be a consistent and reasonable time adjustment methodology, not one tailored to improve sales ratios. We examined the sales ratios over the 18 - month period of sales. There does not appear to be a significant effect of time on Montezuma County's Residential sales ratios.



## Residential Price Related Differential

The Price Related Differential (PRD) tests for differences in the valuations of high and low value sold properties. Sales ratios should be consistent across the range of sale prices so the PRD should be very close to 1.00. The PRD for Montezuma County was calculated at 1.02, which is within the acceptable range of 0.98 to 1.03 established by the International Association of Assessing Officers (IAAO). The PRD was also calculated for all applicable class, subclass, neighborhoods, economic areas, size, and valuation strata identified by the auditor. See appendix for more details.



## Residential Price Related Bias

The Price Related Bias (PRB) measures whether assessment levels change systematically with property value. A PRB close to 0.00 indicates that high- and low-value properties are valued consistently, without upward or downward bias in the sales ratios. For Montezuma County, the PRB was calculated at -0.04 which is within the acceptable statistical range of -0.05 to 0.05 established by the International Association of Assessing Officers. The PRB was also analyzed across all applicable categories, including property class, subclass, neighborhood, economic area, size, and valuation strata as identified by the auditor. Additional details are provided in the appendix.

## **Residential Sold/Unsold Comparison**

All previous Residential statistics focus only on the compliance of properties that were sold during the Residential data collection period. In order to ensure that the unsold properties are also being valued consistently we evaluate whether or not they were treated the same as the sold properties.

Our default comparison approach utilizes the Mann-Whitney U test (also known as the Wilcoxon rank-sum test), to analyze two samples of sold and unsold properties. First, we compare the price per square foot, followed by the change in price per square foot from last reappraisal to this one, and finally we compare the change in total value from last reappraisal to this one. If necessary, we will also consider the stratified (economic area, neighborhood, improvement abstract, etc.) medians of the following unitary metrics: price per foot, change in price per foot, and change in value. See appendix for more details.

Our analysis indicates that the Residential sold and unsold properties are treated similarly. See appendix for more details.

## **Residential Sales Qualification**

All the analysis above, notwithstanding the sold/unsold comparison, relies entirely on qualified sales. In order to ensure that this is a complete and unbiased analysis of assessment practices, we will verify that sales are being correctly coded. We have concluded that Residential sales are being coded in an acceptable way.

There were 316 Residential sales. We have confirmed that more than 50% of all sales were qualified.

## 4. Commercial and Industrial

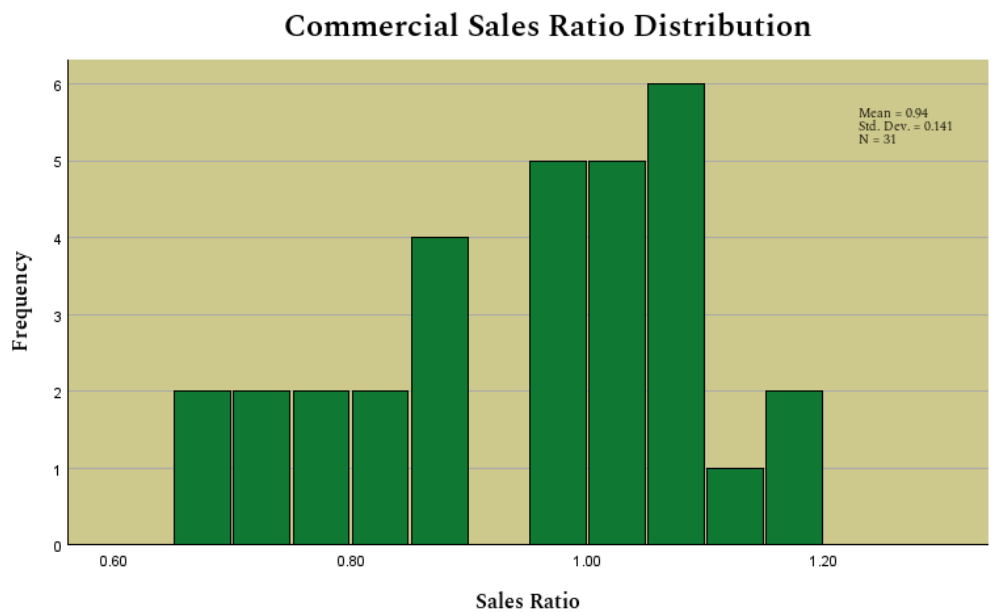
### Overview

Montezuma was found to be compliant for Commercial and Industrial properties.

	Result	Value
<b>Commercial and Industrial</b>		
Median Sales Ratio	Pass	0.99
Coefficient of Dispersion	Pass	11.29%
Time Adjustments	Pass	0.536
Price Related Differential	Sufficient	0.96
Price Related Bias	Sufficient	0.02
Sold/Unsold Similarity	Sufficient	
Qualified Sales > 50%	Yes	

### Commercial Median Sales Ratio

The median sales ratio (MSR) tests how close the Assessor's valuations (estimates of market value) are to the true market value. The distribution of these sales ratios should be centered around 1.00. The Commercial MSR for Montezuma County was calculated to be 0.99, which is within the acceptable statistical range of 0.95 to 1.05 established by the State Board of Equalization (SBOE). We trimmed zero sales during the development of this analysis. The MSR was also calculated for all applicable subclass, neighborhoods, economic areas, size and valuation strata identified by the auditor. See appendix for more details.

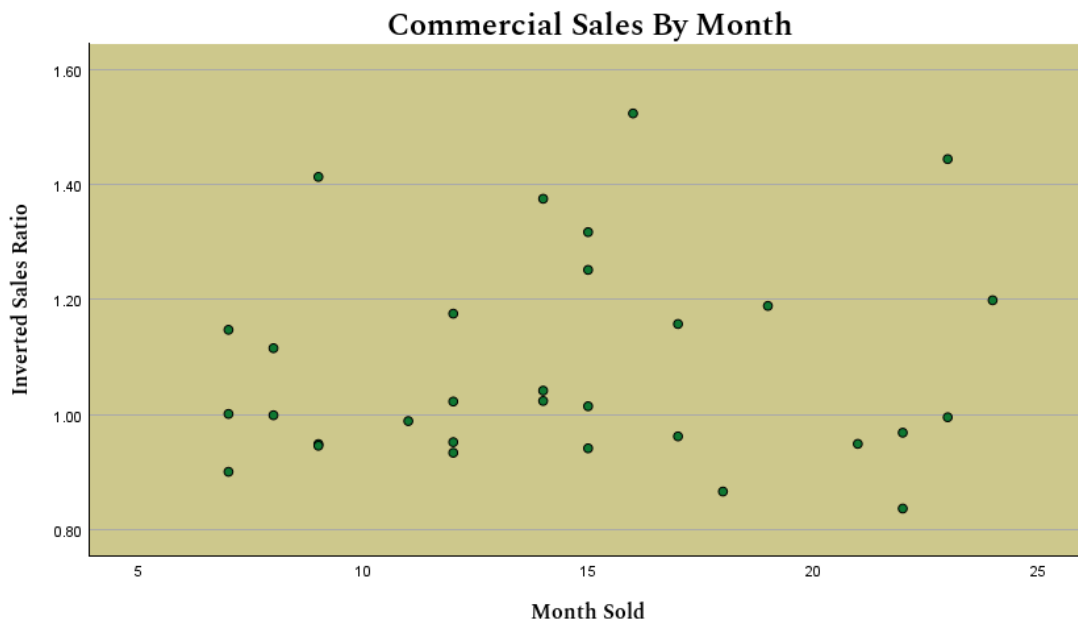


## Commercial Coefficient of Dispersion

The Coefficient of Dispersion (COD) tests for undesirable variance in the valuations. The variance in sales ratios should be as small as possible. The COD for Commercial properties in Montezuma County was calculated at 11.29% which is within the acceptable statistical standard of 20.99% or less established by the State Board of Equalization (SBOE). The COD was also calculated for all applicable class, subclass, neighborhoods, economic areas, and valuation strata identified by the auditor. See appendix for more details.

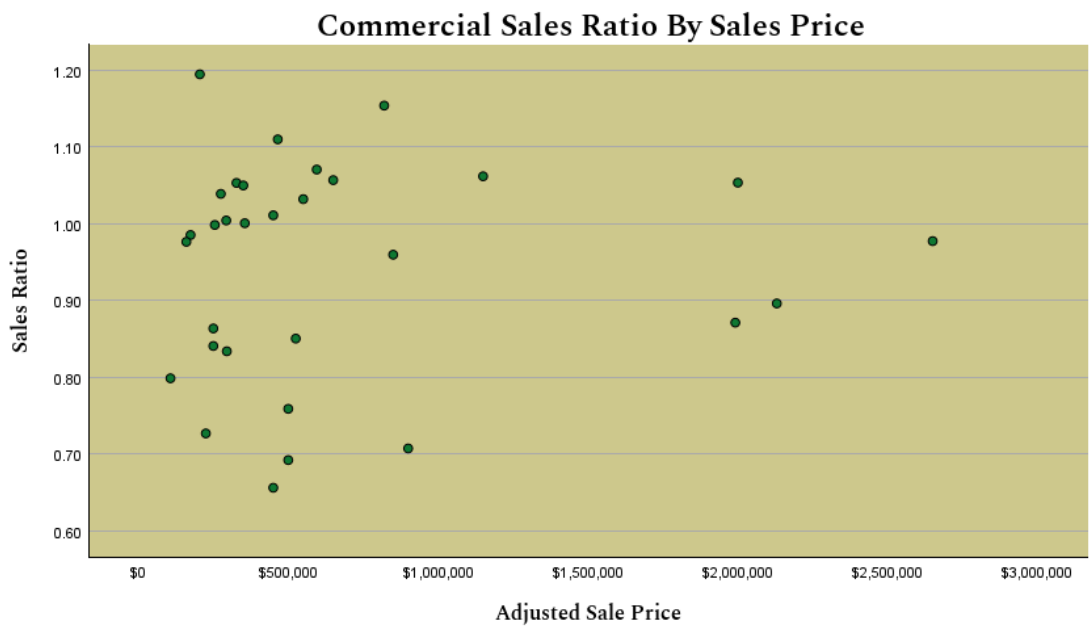
## Commercial Market (Time) Adjustments

All previous statistics used the time-adjusted sales price to ensure that the effect of time on sales ratios has been appropriately addressed. There should be a consistent and reasonable time adjustment methodology, not one tailored to improve sales ratios. We examined the sales ratios over the 24 - month period of sales. There does not appear to be a significant effect of time on Montezuma County's Commercial sales ratios.



### Commercial Price Related Differential

The Price Related Differential (PRD) tests for differences in the valuations of high and low value sold properties. Sales ratios should be consistent across the range of sale prices so the PRD should be very close to 1.00. The PRD for Montezuma County was calculated at 0.96, which is not within the acceptable range of 0.98 to 1.03 established by the International Association of Assessing Officers (IAAO) The PRD was also calculated for all applicable class, subclass, neighborhoods, economic areas, size, and valuation strata identified by the auditor. This test, combined with the Price Related Bias results, indicates that although the measure falls outside the IAAO’s acceptable range, it does not appear to present a concern. See appendix for more details. See appendix for more details.



### Commercial Price Related Bias

The Price Related Bias (PRB) measures whether assessment levels change systematically with property value. A PRB close to 0.00 indicates that high- and low-value properties are valued consistently, without upward or downward bias in the sales ratios. For Montezuma County, the PRB was calculated at 0.02 which is within the acceptable statistical range of -0.05 to 0.05 established by the International Association of Assessing Officers. The PRB was also analyzed across all applicable categories, including property class, subclass, neighborhood, economic area, size, and valuation strata as identified by the auditor. Additional details are provided in the appendix.

## **Commercial Sold/Unsold Comparison**

All previous commercial statistics focus only on the compliance of properties that were sold during the Commercial data collection period. In order to ensure that the unsold properties are also being valued consistently we evaluate whether or not they were treated the same as the sold properties.

Our default comparison approach utilizes the Mann-Whitney U test (also known as the Wilcoxon rank-sum test), to analyze two samples of sold and unsold properties. First, we compare the price per square foot, followed by the change in price per square foot from last reappraisal to this one, and finally we compare the change in total value from last reappraisal to this one. If necessary, we will also consider the stratified (economic area, neighborhood, improvement abstract, etc.) medians of the following unitary metrics: price per foot, change in price per foot, and change in value. See appendix for more details.

Our study indicates that commercial sold and unsold properties are treated similarly. See appendix for more details.

## **Commercial Sales Qualification**

All the analysis above, notwithstanding the sold/unsold comparison, relies entirely on qualified sales. In order to ensure that this is a complete and unbiased analysis of assessment practices, we will verify that sales are being correctly coded. We have concluded that Commercial sales are being coded in an acceptable way.

There were 32 commercial sales. We have confirmed that more than 50% of all sales were qualified.

## 5. Agriculture

### Methodology

SMDA conducted a comprehensive review of county records to evaluate the classification and valuation of agricultural lands. The review included an assessment of major land categories, such as sprinkler irrigated farmland (4107), flood irrigated (4117), dry farmland (4127), meadow hay (4137), grazing areas (4147), orchard land (4157), farm/ranch waste land (4167), and forest land (4177).

Montezuma County applied the following methods to determine agricultural land classification and appropriate valuation methodology:

- Aerial photos are available and used for land classification
- Soil conservation guidelines determine land productivity classes
- Crop rotations are documented using a ten-year average
- Expenses reflect a ten-year average of typical landlord costs
- Ten-year crop yield averages are based on local and supporting data
- Grazing land is classified by its ten-year carrying capacity
- Orchards are correctly classified but valued at irrigated land rates
- Forest land is classified properly and valued like surrounding parcels
- Acreage totals for all classes and subclasses are verified
- A 13% capitalization rate is correctly applied

Additionally, SMDA checked the county records to confirm that the commodity prices and expense data provided by the Property Tax Administrator (PTA) were accurately applied. Guidance from the **Assessor's Reference Library (ARL), Volume 3, Chapter 5** was referenced where appropriate.

### Conclusions

Based on the review and analysis, SMDA considers Montezuma County's appraisal practices for agricultural property acceptable and in alignment with statutory requirements. The directives, commodity pricing, and expense figures issued by the Property Tax Administrator were correctly applied throughout the process. County-reported yields closely matched the figures published by Colorado Agricultural Statistics, and the expenses used were both reasonable and within allowable ranges. Grazing land carrying capacities were properly supported and fell within acceptable limits. Overall, the analysis confirms that the valuation approach is sound, well-documented, and based on reliable data.

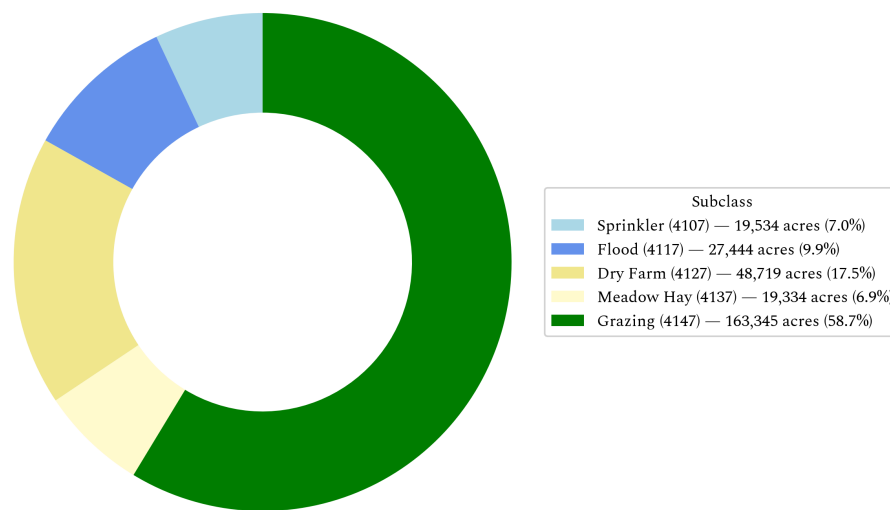
### Recommendations

None

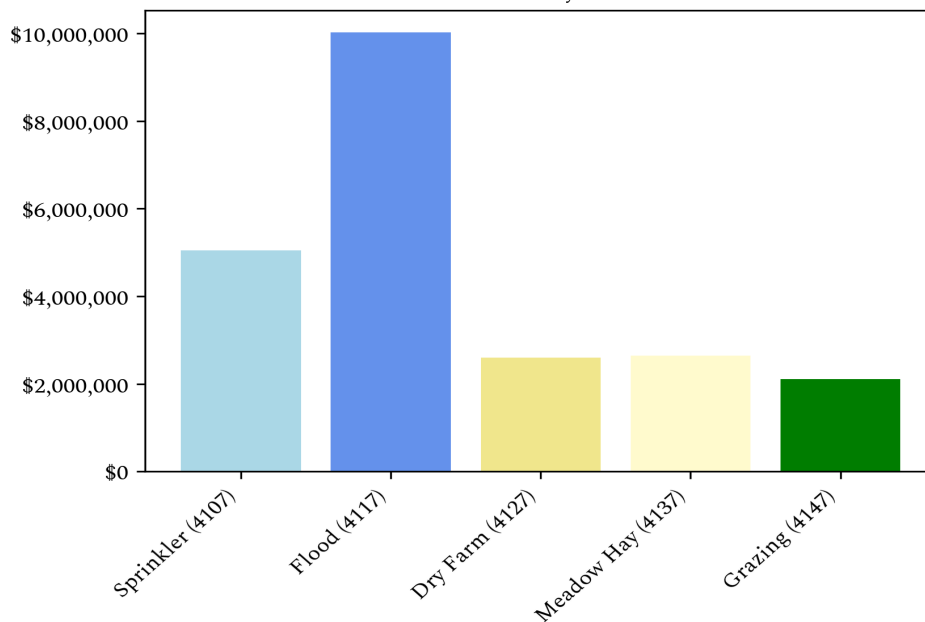
### Agricultural Land Breakdown

Abstract	Class	Acres	Actual Value	Actual Value/Acre	Assessed Value
4107	Sprinkler	19,534	\$5,042,525	\$258.14	\$1,361,482
4117	Flood	27,444	\$10,019,016	\$365.07	\$2,705,134
4127	Dry Farm	48,719	\$2,599,527	\$53.36	\$701,872
4137	Meadow Hay	19,334	\$2,643,343	\$136.72	\$730,898
4147	Grazing	163,345	\$2,108,105	\$12.91	\$569,188

Acres by Subclass



Actual Value by Subclass



## 6. Agriculture Non-Integral

### Methodology

SMDA reviewed Montezuma County's processes to determine whether it complied with the guidelines outlined in the **Assessor's Reference Library (ARL), Volume 3, Chapter 5**. The review focused on Montezuma County's approach to identifying land associated with residential improvements on farms and ranches, as well as land beneath residential structures that may not be integral to an agricultural operation under **§39-1-102, C.R.S.**

### For Residential Improvements on a Farm or Ranch

When identifying land under residential structures on a **farm or ranch** that is determined to be not integral to agricultural activity, Montezuma County applied the following discovery methods:

- Field Inspections
- Phone Interviews
- In Person Interviews
- Personal Knowledge of Occupants

### For Residential Improvements Not Integral to Agriculture

When identifying land under residential structures that is determined to be **not integral** to agricultural activity, Montezuma County applied the following discovery methods:

- Field Inspections
- Phone Interviews
- In Person Interviews
- Personal Knowledge of Occupants

### Conclusions

Montezuma County followed the procedures set forth by the **Division of Property Taxation** for classifying and valuing land associated with residential improvements, whether or not the property is considered integral to agricultural use.

### Recommendations

None

## 7. Economic Areas

### **Methodology**

Montezuma County submitted written narratives and maps outlining its economic areas. SMDA reviewed these materials for clarity, logical consistency, and alignment between the descriptions and mapped boundaries.

### **Conclusions**

Each area is affected by comparable market conditions, which supports consistent property valuations and helps maintain uniformity in values among properties with similar characteristics within the same geographic region.

### **Recommendations**

None

## 8. Natural Resources

### Earth and Stone

#### Methodology

In accordance with the **Assessor's Reference Library (ARL), Volume 3, Chapter 6: Natural Resource Valuation Procedures**, the county used the **income approach** to determine the value of earth and stone production. Production totals, measured in tons, were multiplied by the economic royalty rate established by the **Division of Property Taxation** to calculate projected income. This income figure was then capitalized using the **Hoskold factor**, which is based on the expected life of the reserves or lease. Since production data is not collected by any state or private agency, the operator is the source for both estimated tonnage and reserve life. Ultimately, valuation depends on two primary variables: the quantity of material and the remaining productive life of the site.

#### Conclusions

The county applied the correct formulas and state guidelines to earth and stone resources.

#### Recommendations

None

### Producing Oil and Gas

#### Methodology

Under the guidelines of the **Assessor's Reference Library (ARL), Volume 3, Chapter 6: Valuation of Natural Resources**, the valuation of producing oil and gas leaseholds and lands follows the statutory requirements outlined in **§39-1-103, C.R.S.** and **Article 7 of Title 39, C.R.S.** By law, producing oil and gas properties are assessed based on **87.5% of the selling price** of oil or gas from the previous calendar year. When calculating this value, sales delivered as royalty to federal, state, or local government entities are excluded. For oil or gas produced but not sold during the prior year, valuation is based on the average selling price of comparable production within the same field.

The assessor relies on the production and sales information reported by operators to determine the appropriate valuation for assessment purposes, ensuring that the procedures conform to state statutes and the ARL's established methodologies.

#### Conclusions

The county applied the correct formulas and state guidelines to producing oil and gas resources.

#### Recommendations

None

## 9. Personal Property

### Methodology

SMDA reviewed Montezuma County's personal property assessment procedures for compliance with the **Assessor's Reference Library (ARL), Volume 5** and the requirements of the **State Board of Equalization (SBOE)**. The SBOE mandates the use of ARL Volume 5, which includes up-to-date discovery processes, classification methods, documentation standards, economic life tables, cost factor tables, depreciation schedules, and level-of-value adjustment tables.

The county provided a current personal property audit plan for the 2025 valuation period along with a list of audited businesses, which matched the plan requirements.

To identify and discover personal property accounts, Montezuma County used several methods:

- Chamber of Commerce/Economic Development contacts
- Local publications
- Personal observation
- Questionnaires

The county follows all classification, documentation, and valuation procedures recommended by the **Division of Property Taxation (DPT)**, including the prescribed cost factor tables, depreciation schedules, and level-of-value adjustment factors.

Montezuma County also employed a structured audit process using multiple audit triggers to select accounts for review:

- Accounts protested with substantial disagreement
- Non-filing taxpayers
- Businesses with no deletions or additions for 2 or more years
- New businesses filing for the first time
- Accounts with obvious discrepancies

### Conclusions

Montezuma County implemented effective discovery, classification, documentation, valuation, and auditing practices for personal property assessments. The county's procedures align with ARL Volume 5, meet all SBOE requirements, and demonstrate statistical compliance.

### Recommendations

None

# 10. Possessory Interest

## Methodology

SMDA reviewed Montezuma County's discovery and valuation of possessory interest properties to ensure they correctly applied the guidelines outlined in the **Assessor's Reference Library (ARL), Volume 3, Chapter 7**, in accordance with **§39-1-103(17)(a)(II), C.R.S.** Possessory interest refers to a private right to occupy or use government-owned property granted through a lease, license, permit, concession, contract, or other agreement, as defined by the Property Tax Administrator.

SMDA reviewed Montezuma County's assessment procedures for compliance with these guidelines for **agricultural and commercial** possessory interests. The county confirmed the completeness of its discovery process and whether it was confident that all relevant possessory interest properties had been identified and placed on the assessment roll.

## Conclusions

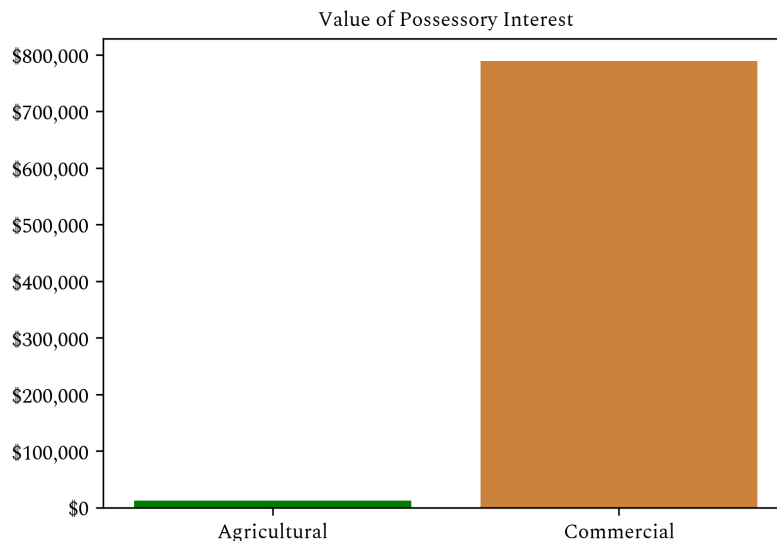
Montezuma County established an effective discovery process to ensure that possessory interest properties were added to the tax roll. The county consistently applied the proper procedures and valuation methods according to State guidelines, resulting in accurate and compliant assessments.

## Recommendations

None

## Possessory Interest Breakdown

Possessory Interest Type	Value
Agricultural	\$12,400
Commercial	\$788,920



# 11. Sales Verification

## Methodology

As part of the Property Assessment Study, SMDA conducted an evaluation of Montezuma County's procedures for verifying real estate sales. This review was guided by the relevant provisions of the **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.)*

SMDA examined Montezuma County's sales verification practices for the 2025 valuation period by reviewing a selection of sales from Montezuma County's master sales list. A total of 36 unqualified sales were analyzed. Of these, 34 sales provided clear and supportable reasons for disqualification, while two sales lacked sufficient justification.

Where fewer than **50% of sales** were qualified within a property class, SMDA evaluated the reasons for disqualification within any subclass comprising **20% or more** of the class (by property count or value). When indications arose that sales data might be inadequate, unrepresentative, or incorrectly disqualified, SMDA discussed these cases directly with the assessor. SMDA also reviewed disqualified sales by assigned code to confirm consistent application; additional analysis was performed if SMDA discovered discrepancies.

Because Montezuma County maintained a sufficient percentage of qualified sales, an in-depth subclass analysis was not required.

**Conclusions**

Based on SMDA's review, Montezuma County performed adequately in verifying sales and applying statutory requirements.

**Recommendations**

None

## 12. Subdivision Discounting

### Methodology

SMDA reviewed Montezuma County's subdivision discounting practices to ensure compliance with §39-1-103(14), C.R.S. The review confirmed that discounting was applied to subdivisions where fewer than 80% of vacant lots had been sold. For each qualifying subdivision, an absorption rate was estimated to reflect the expected timeframe for selling the remaining parcels. Using the Summation Method and following the Division of Property Taxation guidelines, an appropriate discount rate was developed to account for the anticipated holding period and associated carrying costs.

### Conclusions

Montezuma County properly applied discounting procedures for qualifying subdivisions. The county's estimates of absorption periods, discount rates, and lot values are consistent with statutory requirements and state-recommended methodologies.

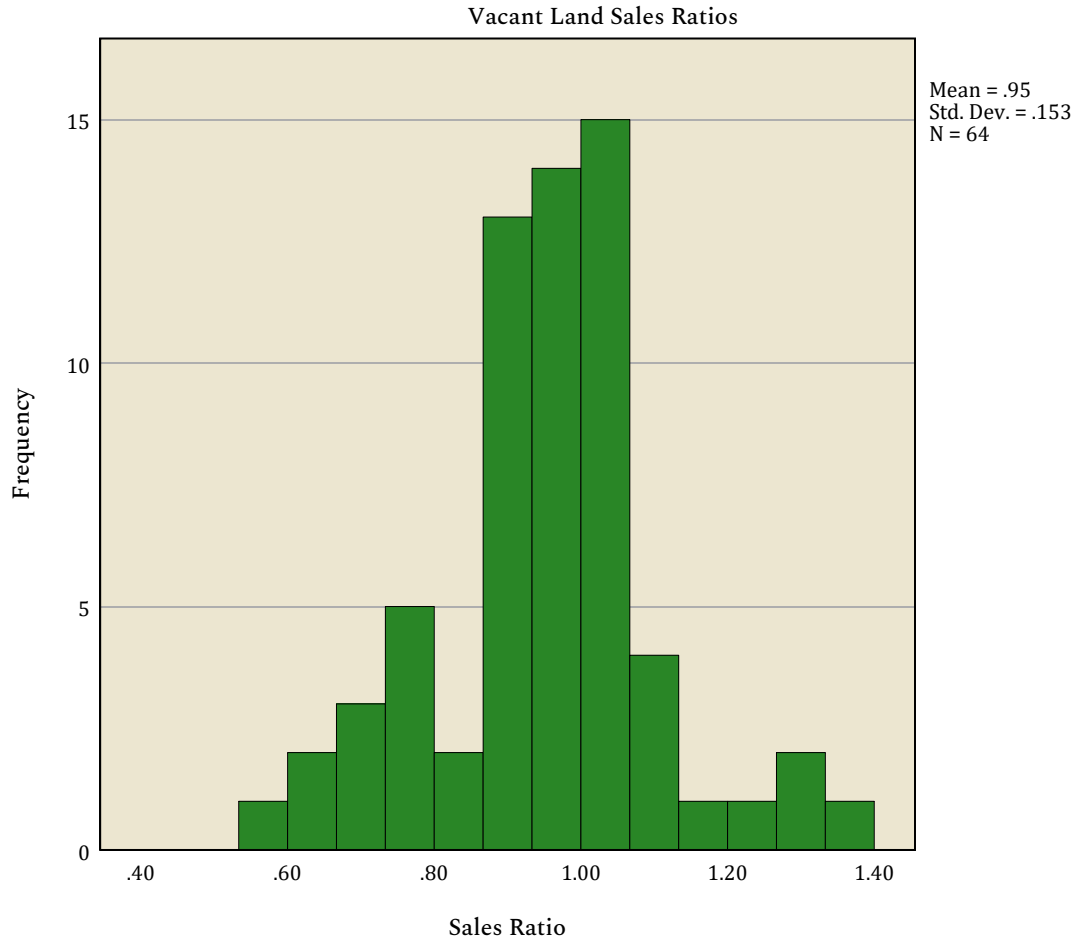
### Recommendations

None

# 13. Appendix

### OVERALL Vacant Land: Sales Ratio Distribution

Graph



**OVERALL Vacant Land: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
66	.970	.127

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
-.015	1.183

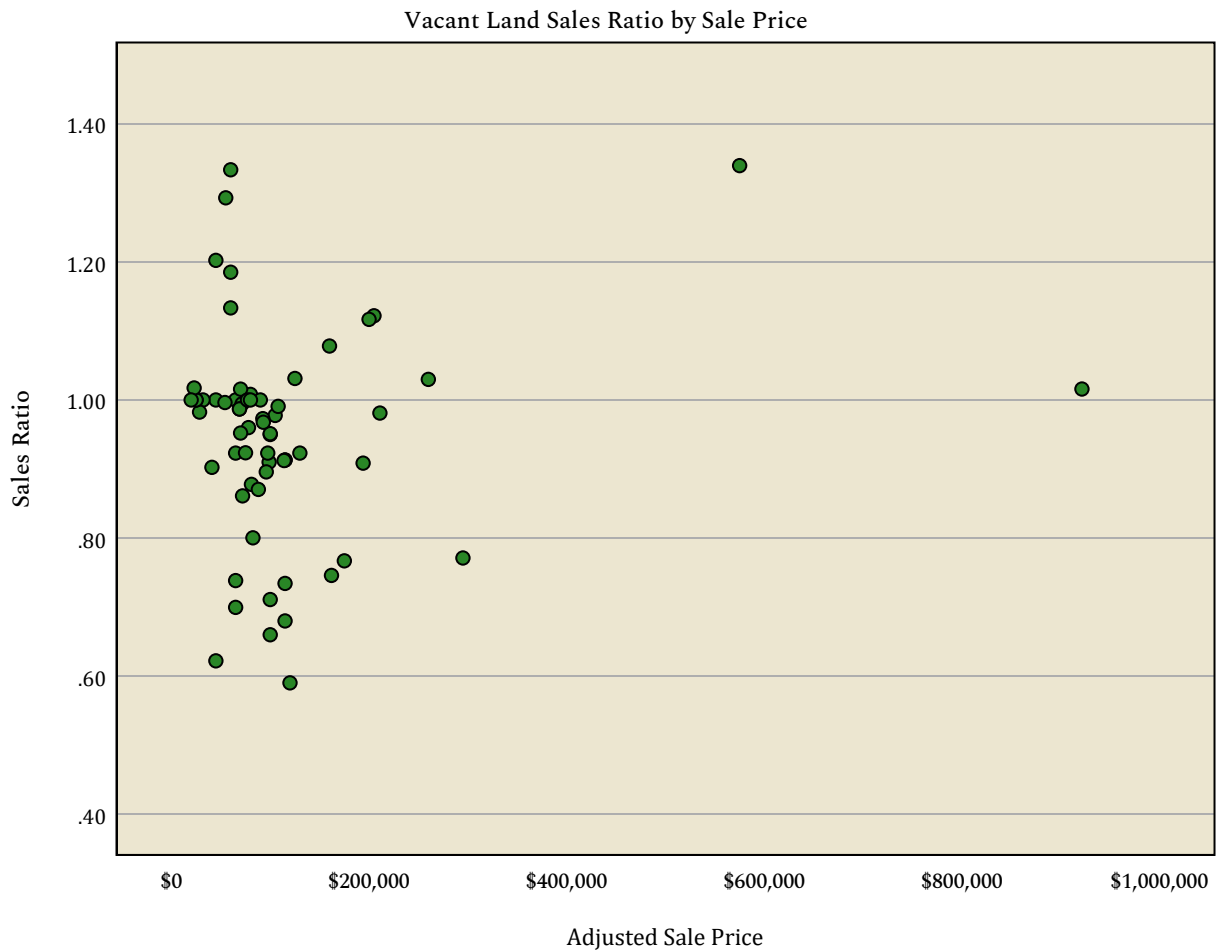
**OVERALL Vacant Land: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	.942	.024		39.670	<.001
	Adjusted Sale Price	-5.585E-8	.000	-.218	-1.784	.079

a. Dependent Variable: Sales Ratio

**Graph**



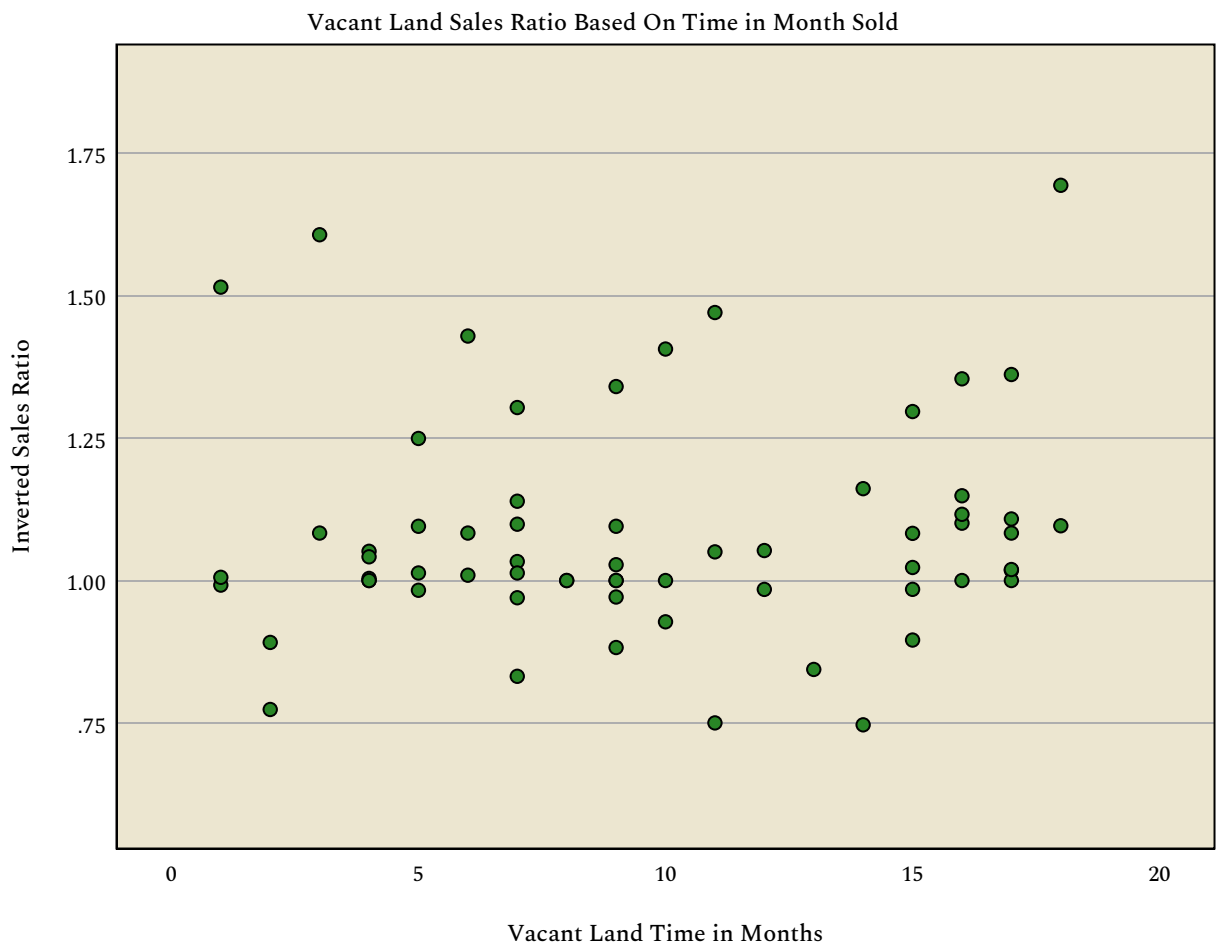
### OVERALL Vacant Land: Months by Inverted Sales Ratio

Regression

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.024	.311		3.295	.002
	Vacant Land Time in Months	.021	.028	.094	.752	.455

a. Dependent Variable: Inverted Sales Ratio

Graph



**OVERALL Vacant Land: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	66	66	66
	Missing	0	0	0
Mean		\$62,429.95	\$162,261.09	\$99,831.14
Median		\$53,730.00	\$76,800.00	\$15,135.00
Percentiles	2.5	\$196.28	\$19,415.00	-\$81,721.00
	25	\$26,140.00	\$64,250.00	\$4,000.00
	50	\$53,730.00	\$76,800.00	\$15,135.00
	75	\$71,625.00	\$105,000.00	\$51,097.50
	97.5	\$245,895.00	\$1,760,746.00	\$1,750,021.83

**OVERALL Vacant Land: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Current Total Value is the same across categories of Vacant Land Sold vs. Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Current Total Value across Vacant Land Sold vs. Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	1361
Mann-Whitney U	21687.500
Wilcoxon W	864738.500
Test Statistic	21687.500
Standard Error	3045.018
Standardized Test Statistic	-6.305
Asymptotic Sig.(2-sided test)	<.001

**Nonparametric Tests**

**OVERALL Vacant Land: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of Vacant Land Sold vs. Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

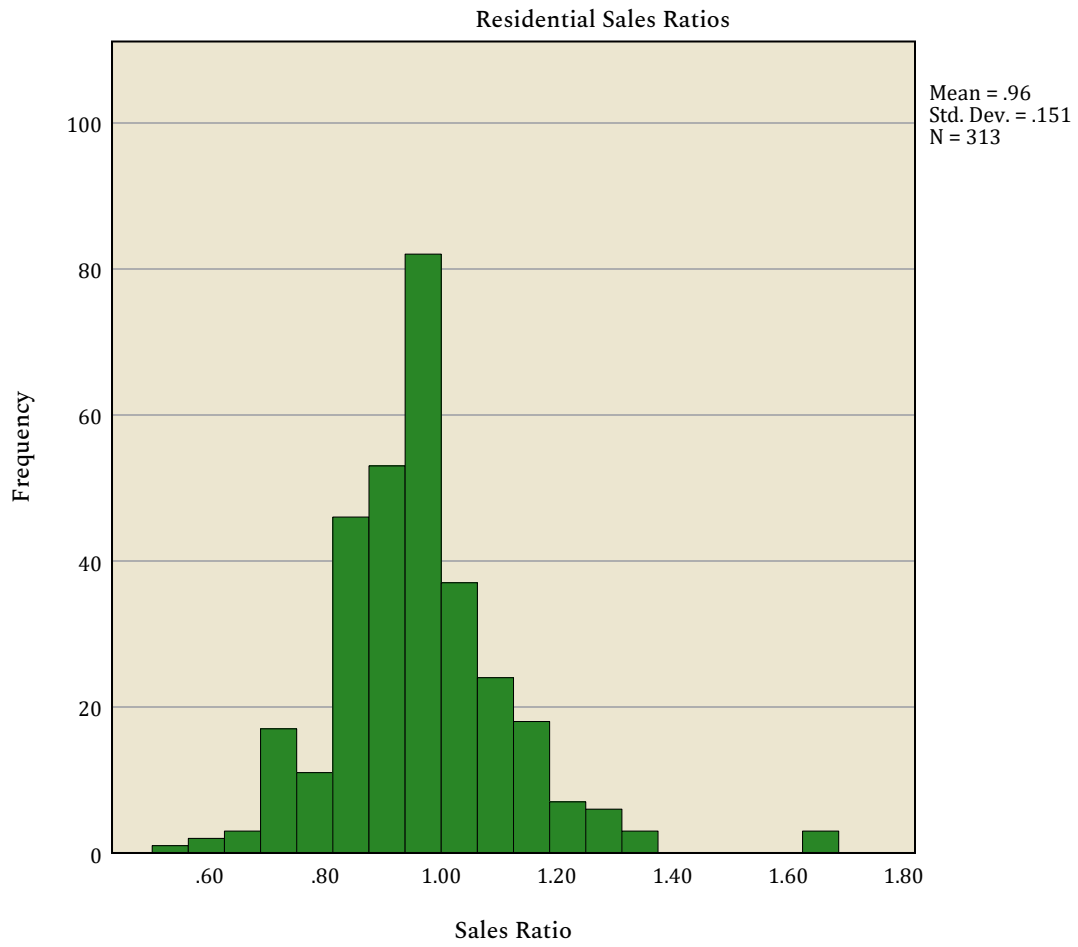
**Difference in Total Value across Vacant Land Sold vs. Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	1334
Mann-Whitney U	19488.000
Wilcoxon W	836769.000
Test Statistic	19488.000
Standard Error	2785.747
Standardized Test Statistic	-5.850
Asymptotic Sig.(2-sided test)	<.001

### OVERALL Residential: Sales Ratio Distribution

Graph



**OVERALL Residential: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
316	.963	.126

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
-.044	1.023

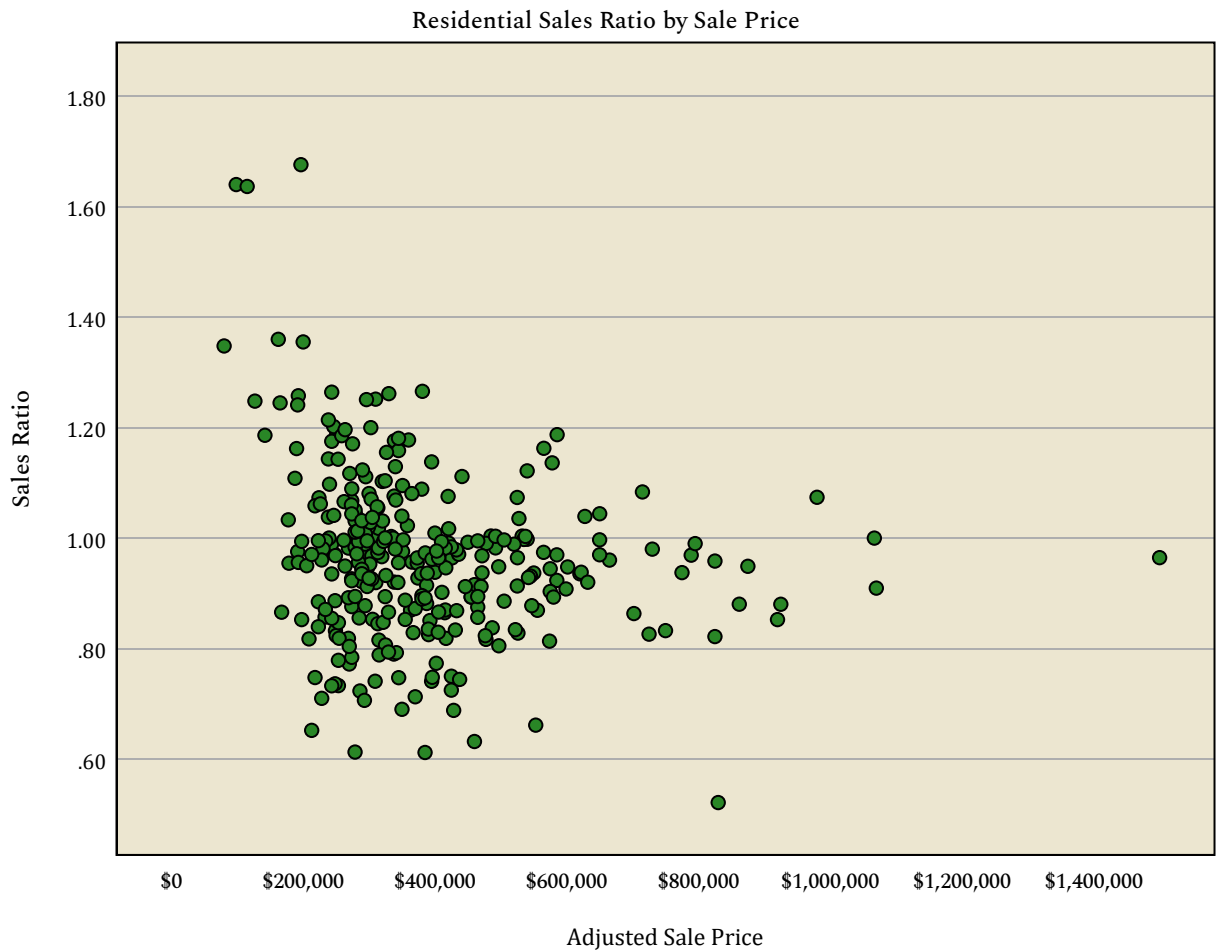
**OVERALL Residential: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.075	.033		32.679	<.001
	Adjusted Sale Price	-2.721E-7	.000	-.193	-3.486	<.001

a. Dependent Variable: Sales Ratio

**Graph**



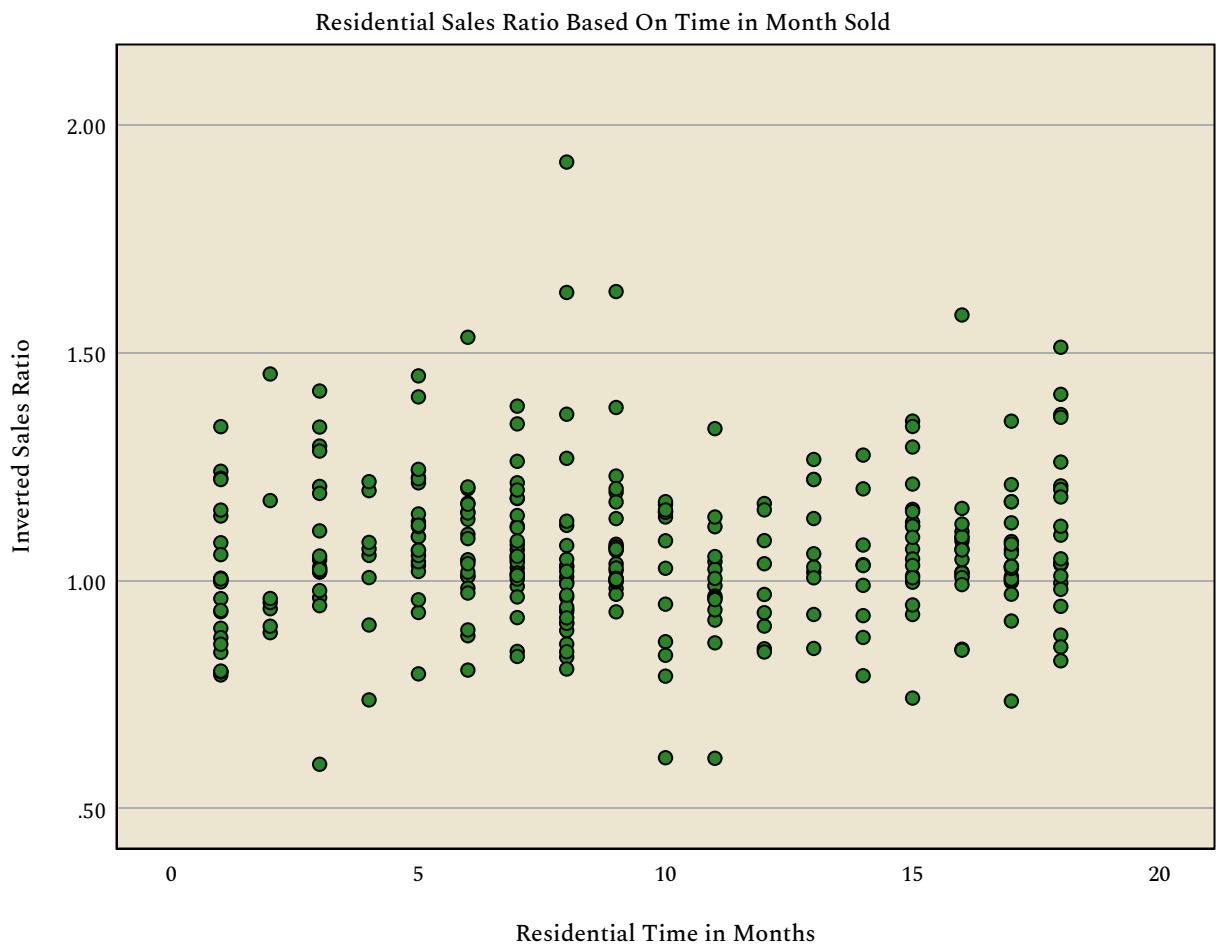
**OVERALL Residential: Months by Inverted Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.062	.026		40.377	<.001
	Residential Time in Months	.001	.002	.023	.414	.679

a. Dependent Variable: Inverted Sales Ratio

**Graph**



**OVERALL Residential: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Price Per Foot	Price Per Foot	Difference in Price Per Foot
N	Valid	315	315	315
	Missing	1	1	1
Mean		\$143.75	\$249.05	1.68
Median		\$129.32	\$198.29	1.50
Percentiles	2.5	\$53.48	\$118.09	1.08
	25	\$107.63	\$168.81	1.34
	50	\$129.32	\$198.29	1.50
	75	\$161.19	\$237.18	1.69
	97.5	\$343.71	\$441.73	2.97

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	316	316	316
	Missing	0	0	0
Mean		\$245,658.91	\$363,892.04	\$118,233.13
Median		\$214,698.00	\$324,552.50	\$106,508.50
Percentiles	2.5	\$70,849.58	\$161,914.05	\$32,475.40
	25	\$157,808.25	\$262,451.50	\$81,655.50
	50	\$214,698.00	\$324,552.50	\$106,508.50
	75	\$296,915.50	\$416,823.50	\$131,419.50
	97.5	\$578,799.75	\$787,330.32	\$360,991.60

**OVERALL Residential: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Total Value across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6471
Mann-Whitney U	673444.000
Wilcoxon W	19977235.000
Test Statistic	673444.000
Standard Error	29402.832
Standardized Test Statistic	-4.354
Asymptotic Sig.(2-sided test)	<.001

**Nonparametric Tests**

**OVERALL Residential: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Price Per Foot is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	.003

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Price Per Foot across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6477
Mann-Whitney U	740122.000
Wilcoxon W	20025277.000
Test Statistic	740122.000
Standard Error	29917.912
Standardized Test Statistic	-2.972
Asymptotic Sig.(2-sided test)	.003

**Nonparametric Tests**

**OVERALL Residential: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Price Per Foot is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Price Per Foot across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6477
Mann-Whitney U	699314.000
Wilcoxon W	19972050.000
Test Statistic	699314.000
Standard Error	30024.919
Standardized Test Statistic	-4.518
Asymptotic Sig.(2-sided test)	<.001

**OVERALL Residential: Unit Value Comparison**

**Summarize**

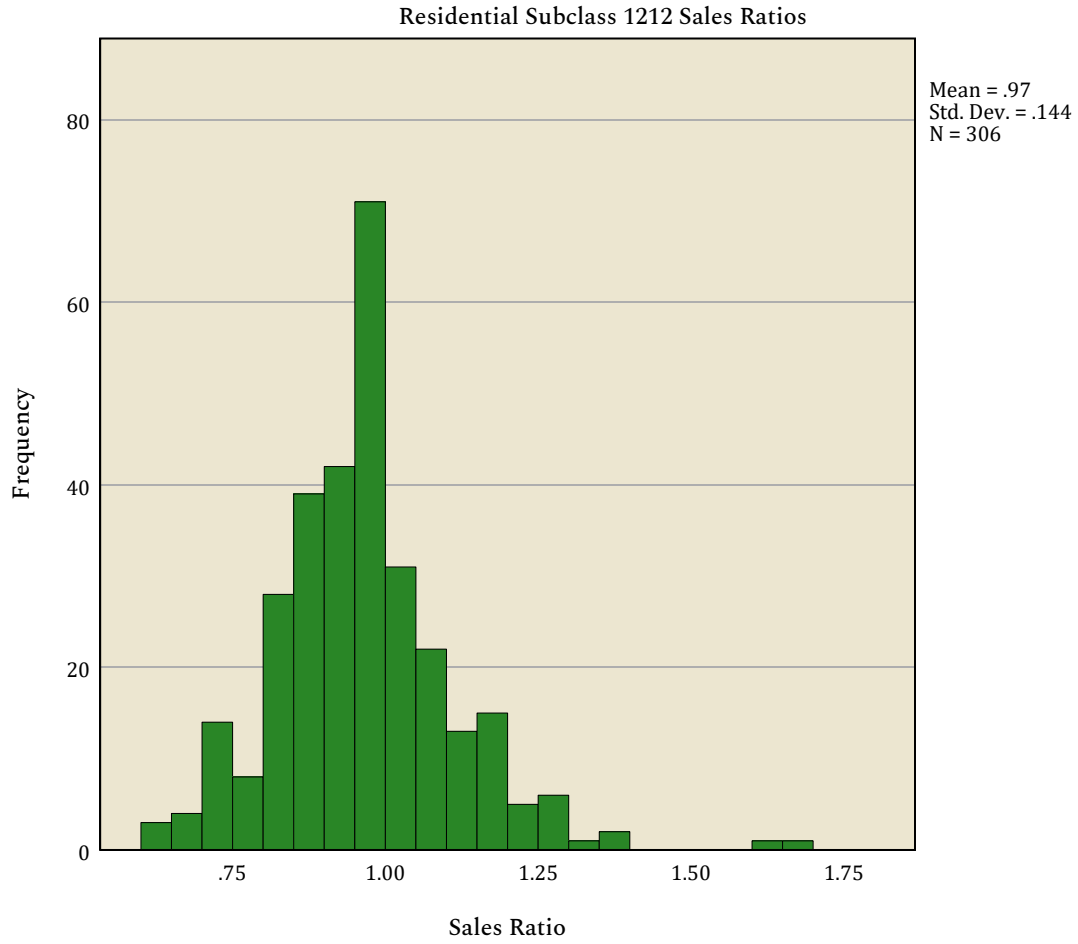
Sold vs Unsold

Difference in Price Per Foot

Residential Sold vs Unsold	N	Median	Mean
SOLD	277	1.51	1.64
UNSOLD	6542	1.43	1.60
Total	6819	1.44	1.60

### Residential Subclass 1212: Sales Ratio Distribution

Graph



**Residential Subclass 1212: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
309	.964	.123

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
-.039	1.021

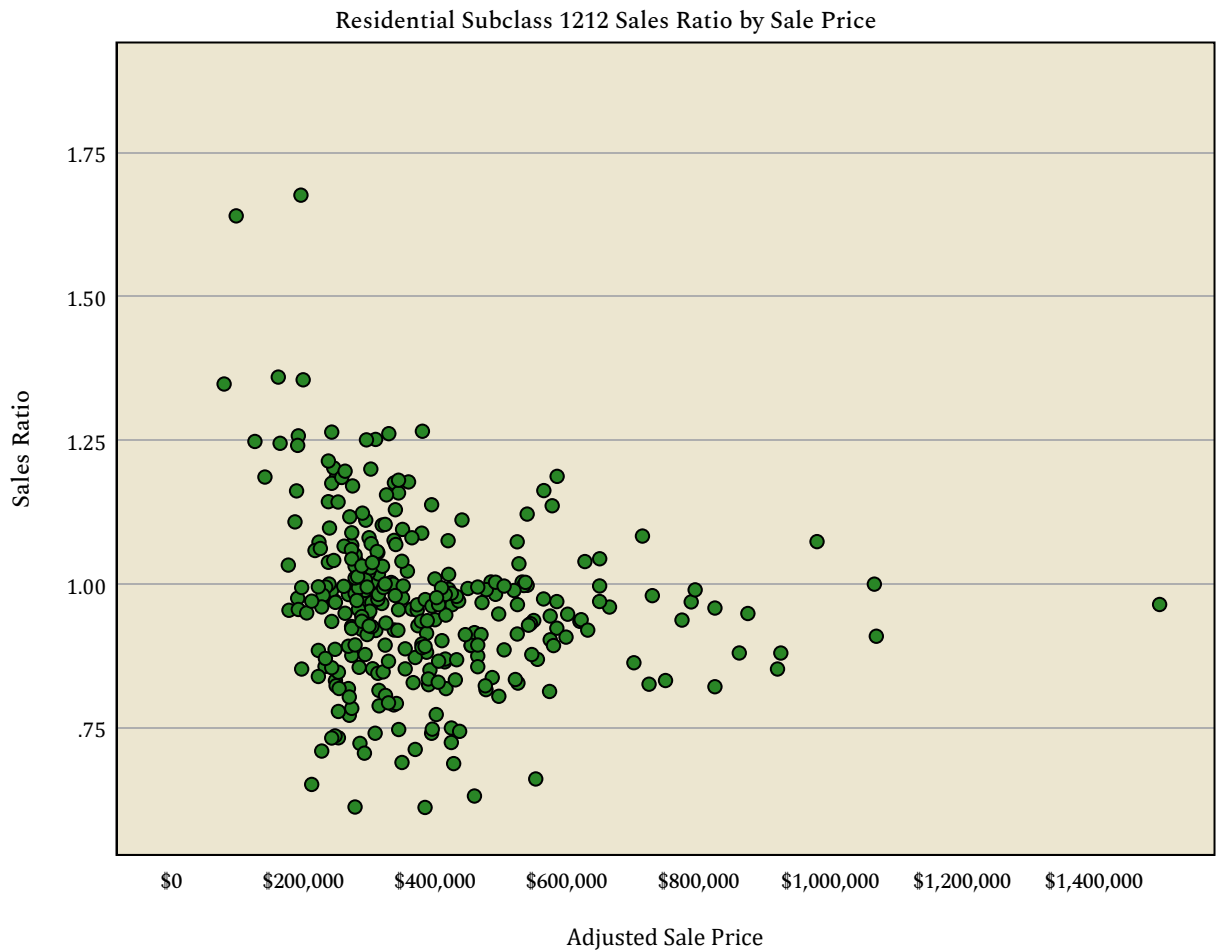
**Residential Subclass 1212: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.069	.033		31.995	<.001
	Adjusted Sale Price	-2.518E-7	.000	-.178	-3.178	.002

a. Dependent Variable: Sales Ratio

**Graph**



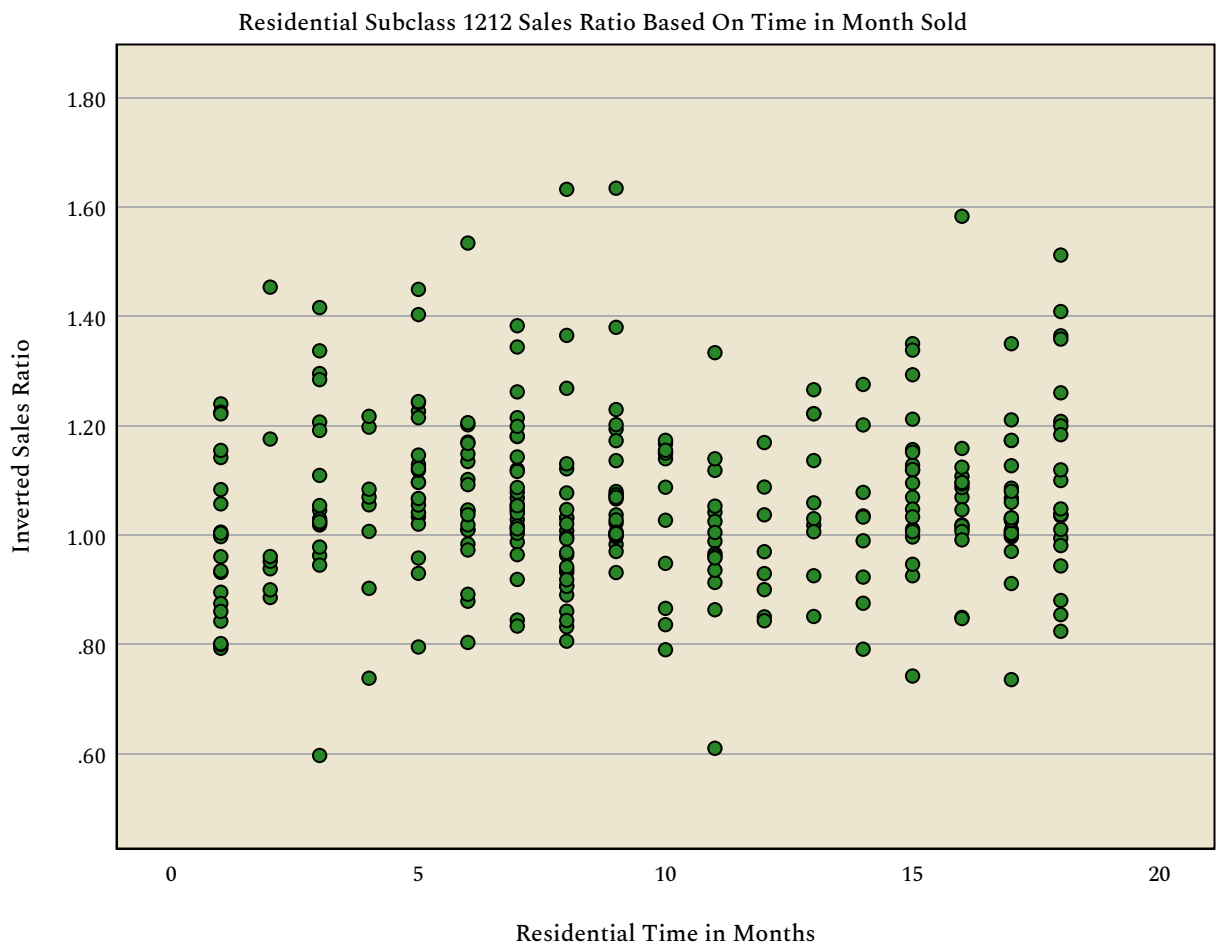
### Residential Subclass 1212: Months by Inverted Sales Ratio

Regression

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.053	.026		40.494	<.001
	Residential Time in Months	.002	.002	.037	.644	.520

a. Dependent Variable: Inverted Sales Ratio

Graph



**Residential Subclass 1212: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Price Per Foot	Price Per Foot	Difference in Price Per Foot
N	Valid	309	309	309
	Missing	0	0	0
Mean		\$144.74	\$250.56	1.67
Median		\$130.74	\$198.86	1.49
Percentiles	2.5	\$55.40	\$117.93	1.08
	25	\$110.72	\$170.90	1.34
	50	\$130.74	\$198.86	1.49
	75	\$161.53	\$237.81	1.68
	97.5	\$347.30	\$448.49	2.85

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	309	309	309
	Missing	0	0	0
Mean		\$248,216.56	\$366,126.07	\$117,909.51
Median		\$215,279.00	\$325,566.00	\$106,540.00
Percentiles	2.5	\$73,608.00	\$166,772.25	\$30,990.00
	25	\$161,219.50	\$263,820.50	\$81,996.50
	50	\$215,279.00	\$325,566.00	\$106,540.00
	75	\$299,590.50	\$416,642.00	\$131,051.00
	97.5	\$579,676.50	\$787,965.75	\$343,196.50

**Residential Subclass 1212: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Total Value across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6270
Mann-Whitney U	640268.500
Wilcoxon W	18745421.500
Test Statistic	640268.500
Standard Error	28205.126
Standardized Test Statistic	-4.286
Asymptotic Sig.(2-sided test)	<.001

**Nonparametric Tests**

**Residential Subclass 1212: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Price Per Foot is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	.004

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Price Per Foot across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6276
Mann-Whitney U	705133.500
Wilcoxon W	18792238.500
Test Statistic	705133.500
Standard Error	28708.982
Standardized Test Statistic	-2.881
Asymptotic Sig.(2-sided test)	.004

**Nonparametric Tests**

**Residential Subclass 1212: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Price Per Foot is the same across categories of Residential Sold vs Unsold.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Price Per Foot across Residential Sold vs Unsold**

Independent-Samples Mann-Whitney U Test Summary

Total N	6276
Mann-Whitney U	660687.500
Wilcoxon W	18741778.500
Test Statistic	660687.500
Standard Error	28761.327
Standardized Test Statistic	-4.521
Asymptotic Sig.(2-sided test)	<.001

## Residential Subclass 1212: Unit Comparison Method

Summarize

### Sold vs Unsold Percent Change for Subclass 1212

Difference in Price Per Foot

Residential Sold vs Unsold	N	Median	Mean
SOLD	272	1.50	1.64
UNSOLD	6336	1.43	1.60
Total	6608	1.44	1.60

Summarize

### Sold vs Unsold Percent Change for Subclass 1212 by Economic Area

Difference in Price Per Foot

economic_area	Residential Sold vs Unsold	N	Median	Mean
	SOLD	1	1.44	1.44
	UNSOLD	21	1.32	1.64
	Total	22	1.33	1.63
1	SOLD	150	1.50	1.56
	UNSOLD	2431	1.47	1.54
	Total	2581	1.47	1.54
2	SOLD	31	1.47	1.60
	UNSOLD	956	1.38	1.61
	Total	987	1.38	1.61
3	SOLD	16	1.81	1.70
	UNSOLD	320	1.50	1.66
	Total	336	1.51	1.66
4	SOLD	18	1.38	1.57
	UNSOLD	340	1.46	1.58
	Total	358	1.46	1.58
5	SOLD	5	1.51	1.33
	UNSOLD	216	1.33	1.66
	Total	221	1.34	1.65
6	SOLD	25	1.54	1.60
	UNSOLD	988	1.40	1.67
	Total	1013	1.40	1.67

**Residential Subclass 1212: Unit Comparison Method**

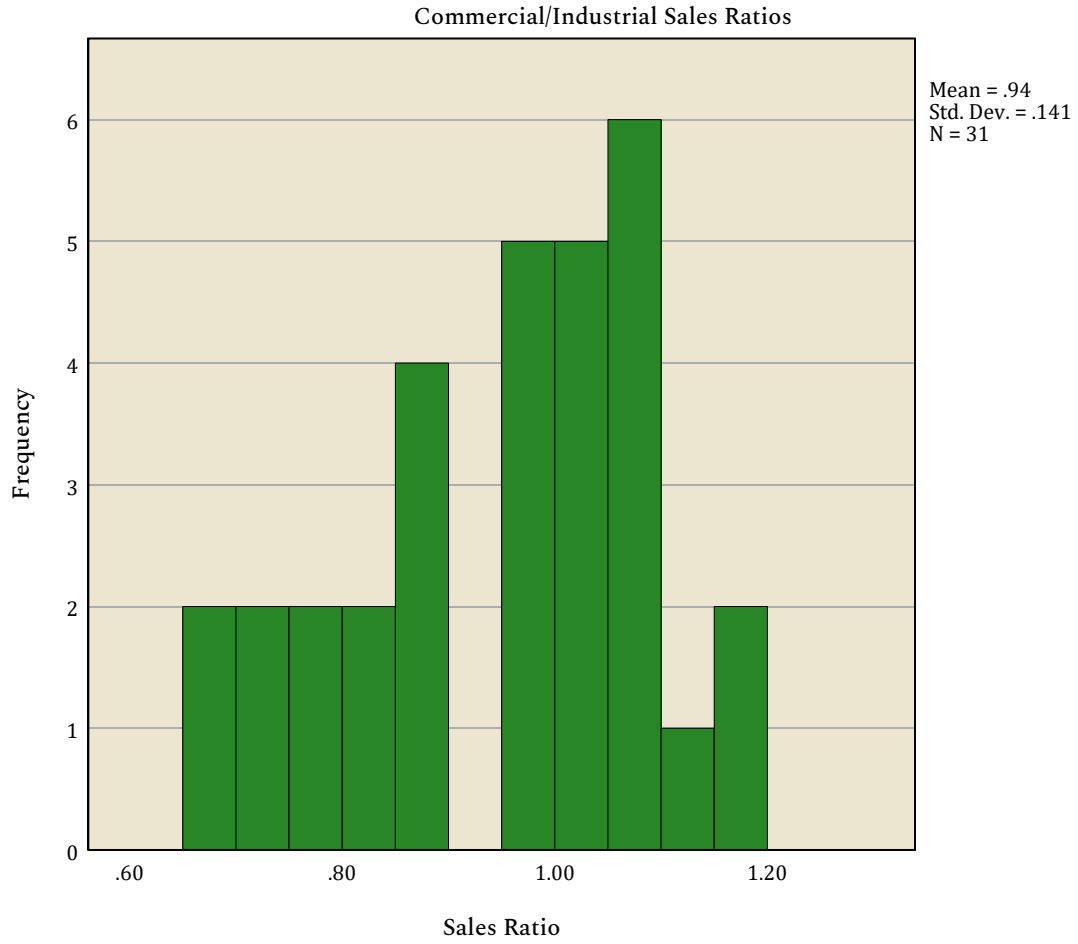
Sold vs Unsold Percent Change for Subclass 1212 by Economic Area

Difference in Price Per Foot

economic_area	Residential Sold vs Unsold	N	Median	Mean
7	SOLD	4	1.47	4.52
	UNSOLD	201	1.54	1.73
	Total	205	1.54	1.79
8	UNSOLD	2	1.42	1.42
	Total	2	1.42	1.42
9	SOLD	22	1.49	1.89
	UNSOLD	861	1.37	1.59
	Total	883	1.37	1.60
Total	SOLD	272	1.50	1.64
	UNSOLD	6336	1.43	1.60
	Total	6608	1.44	1.60

### OVERALL Commercial/Industrial: Sales Ratio Distribution

Graph



**OVERALL Commercial/Industrial: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
32	.992	.113

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
.024	.964

**OVERALL Commercial/Industrial: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	.932	.031		30.419	<.001
	Adjusted Sale Price	2.088E-8	.000	.179	.999	.326

a. Dependent Variable: Sales Ratio

**Graph**



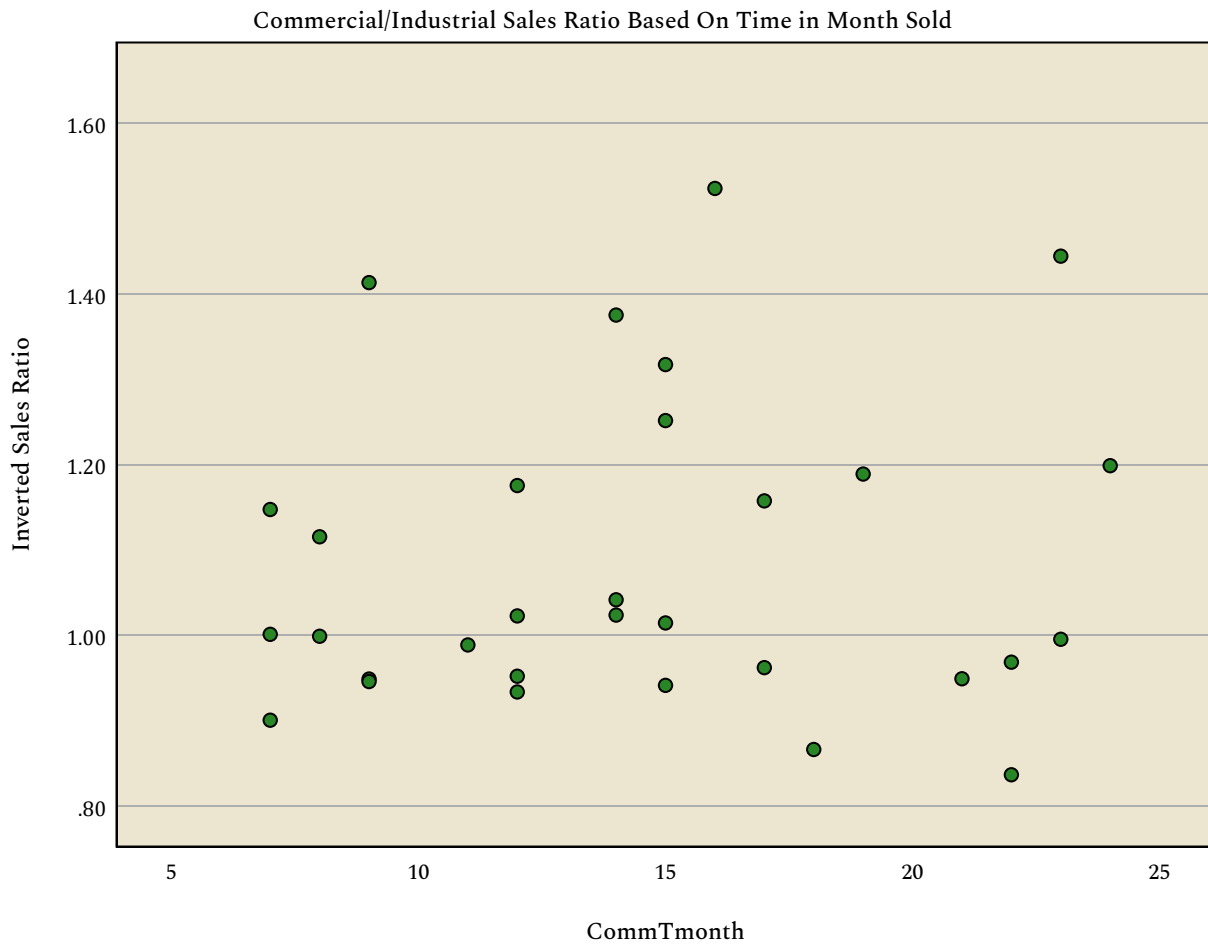
**OVERALL Commercial/Industrial: Months by Inverted Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.023	.095		10.772	<.001
	CommTmonth	.004	.006	.114	.626	.536

a. Dependent Variable: Inverted Sales Ratio

**Graph**



**OVERALL Commercial/Industrial: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Price Per Foot	Price Per Foot	Difference in Price Per Foot
N	Valid	32	32	32
	Missing	0	0	0
Mean		\$80.56	\$151.72	1.88
Median		\$61.16	\$105.30	1.74
Percentiles	2.5	\$21.19	\$42.10	1.07
	25	\$39.31	\$78.51	1.24
	50	\$61.16	\$105.30	1.74
	75	\$87.69	\$146.12	2.39
	97.5	.	.	.

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	32	32	32
	Missing	0	0	0
Mean		\$479,236.44	\$836,734.56	\$357,498.13
Median		\$269,484.00	\$373,577.00	\$136,205.00
Percentiles	2.5	\$49,645.00	\$85,494.00	\$18,946.00
	25	\$132,770.75	\$248,229.25	\$73,818.00
	50	\$269,484.00	\$373,577.00	\$136,205.00
	75	\$520,417.25	\$783,705.25	\$293,754.00
	97.5	.	.	.

**OVERALL Commercial/Industrial: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

a. The significance level is .050.

b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Total Value across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	633
Mann-Whitney U	4835.000
Wilcoxon W	189363.000
Test Statistic	4835.000
Standard Error	913.133
Standardized Test Statistic	-3.347
Asymptotic Sig.(2-sided test)	<.001

**Nonparametric Tests**

**OVERALL Commercial/Industrial: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	<.001

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	634
Mann-Whitney U	5676.000
Wilcoxon W	188386.000
Test Statistic	5676.000
Standard Error	979.204
Standardized Test Statistic	-3.456
Asymptotic Sig.(2-sided test)	<.001

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	<.001

**OVERALL Commercial/Industrial: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	633
Mann-Whitney U	5464.000
Wilcoxon W	187570.000
Test Statistic	5464.000
Standard Error	977.627
Standardized Test Statistic	-3.663
Asymptotic Sig.(2-sided test)	<.001

**OVERALL Commercial/Industrial: Unit Value Comparison**

Summarize

Sold vs Unsold

Difference in Price Per Foot

CommSOLDFLG	N	Median	Mean
SOLD	31	1.72	1.86
UNSOLD	637	1.26	1.45
Total	668	1.27	1.47

Summarize

Sold vs Unsold

Difference in Price Per Foot

Improvement Abstract Codes	CommSOLDFLG	N	Median	Mean
2023	UNSOLD	1	1.13	1.13
	Total	1	1.13	1.13
2212	SOLD	4	1.90	1.83
	UNSOLD	159	1.25	1.39
	Total	163	1.25	1.40
2215	SOLD	4	2.49	2.36
	UNSOLD	28	1.24	1.29
	Total	32	1.26	1.42
2220	SOLD	6	1.61	1.80
	UNSOLD	67	1.28	1.35
	Total	73	1.30	1.39
2225	UNSOLD	2	1.37	1.37
	Total	2	1.37	1.37
2230	SOLD	13	1.28	1.79
	UNSOLD	253	1.28	1.61
	Total	266	1.28	1.62
2235	SOLD	3	1.46	1.51
	UNSOLD	66	1.30	1.45
	Total	69	1.31	1.45

**OVERALL Commercial/Industrial: Unit Value Comparison**

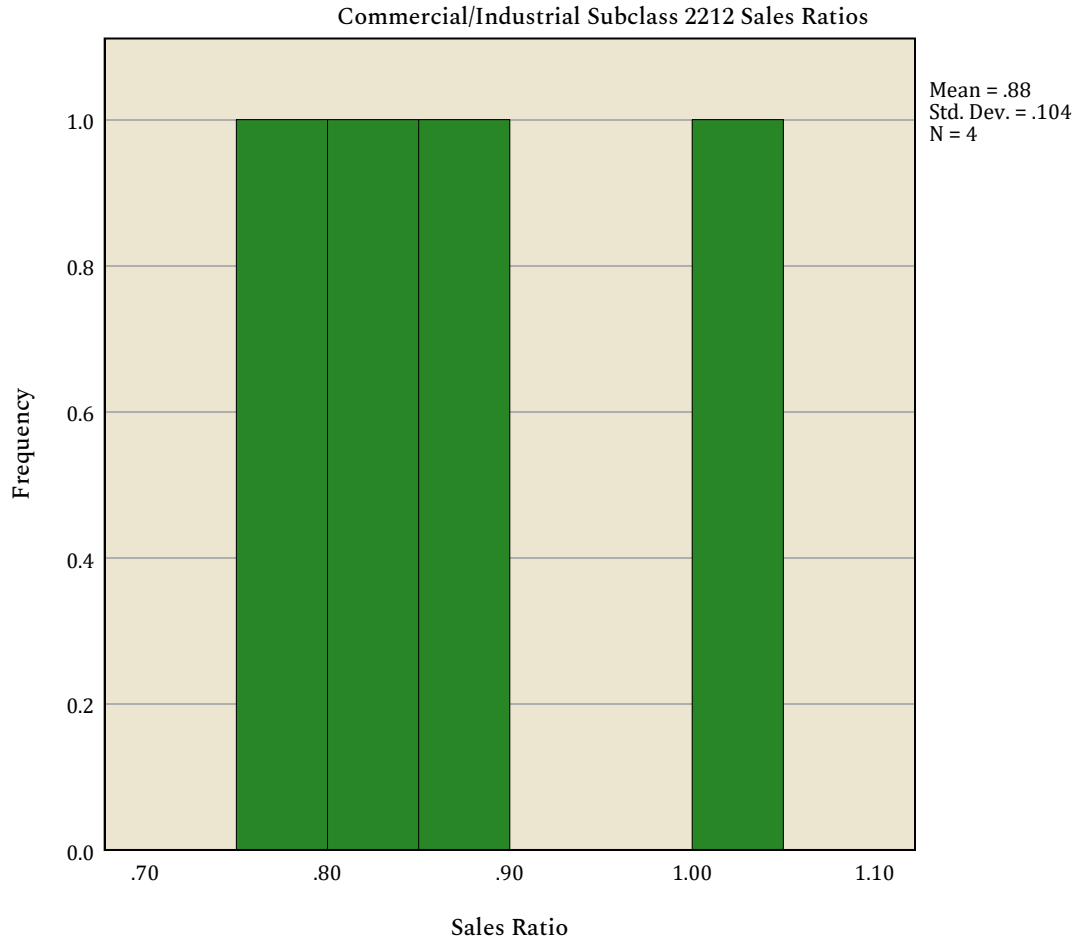
Sold vs Unsold

Difference in Price Per Foot

Improvement Abstract Codes	CommSOLDFLG	N	Median	Mean
2240	UNSOLD	9	1.17	1.13
	Total	9	1.17	1.13
3212	UNSOLD	13	1.07	1.14
	Total	13	1.07	1.14
3215	SOLD	1	2.30	2.30
	UNSOLD	31	1.09	1.13
	Total	32	1.09	1.17
3225	UNSOLD	8	1.00	1.00
	Total	8	1.00	1.00
Total	SOLD	31	1.72	1.86
	UNSOLD	637	1.26	1.45
	Total	668	1.27	1.47

### Commercial/Industrial Subclass 2212: Sales Ratio Distribution

Graph



**Commercial/Industrial Subclass 2212: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
4	.842	.074

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
.076	.965

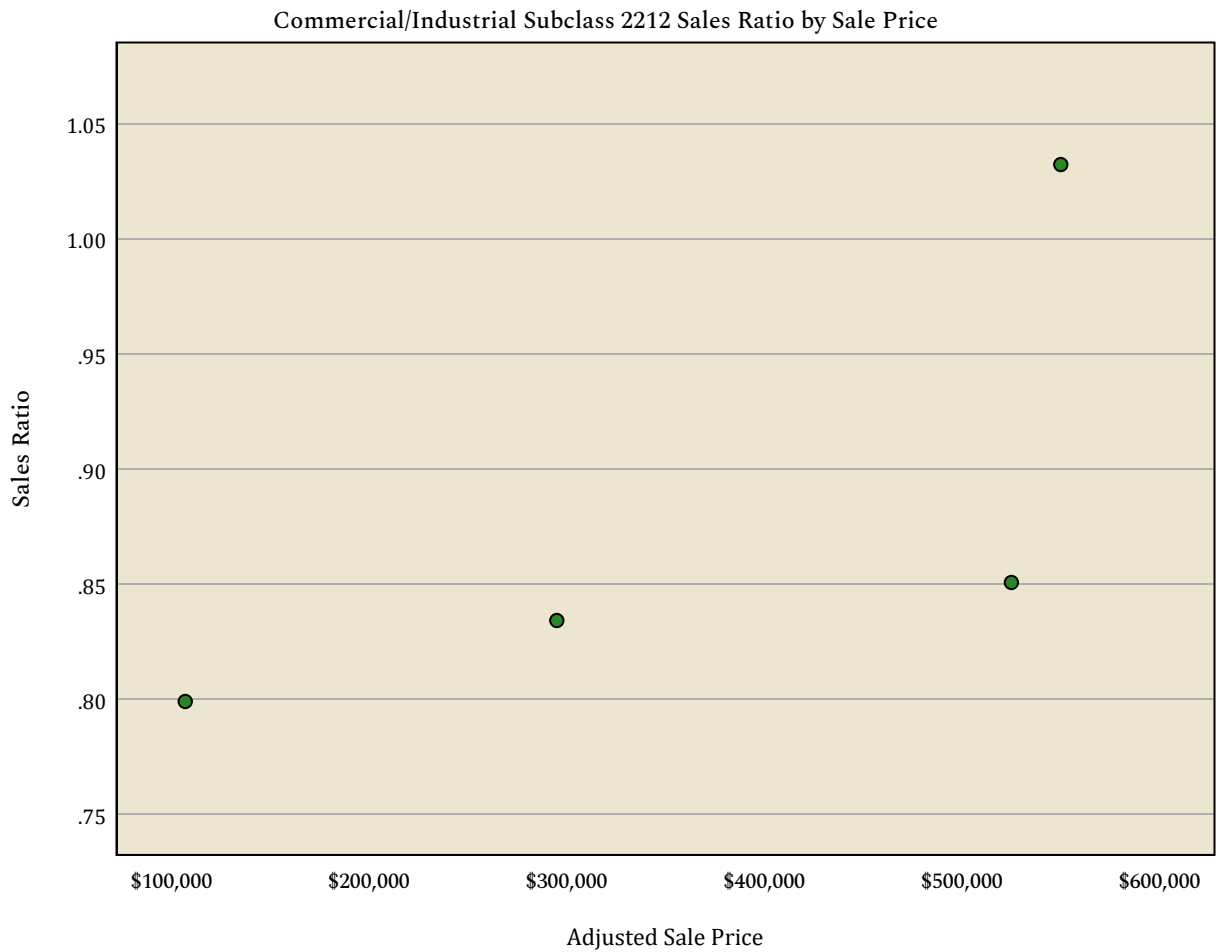
**Commercial/Industrial Subclass 2212: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	.745	.100		7.471	.017
	Adjusted Sale Price	3.628E-7	.000	.727	1.496	.273

a. Dependent Variable: Sales Ratio

**Graph**



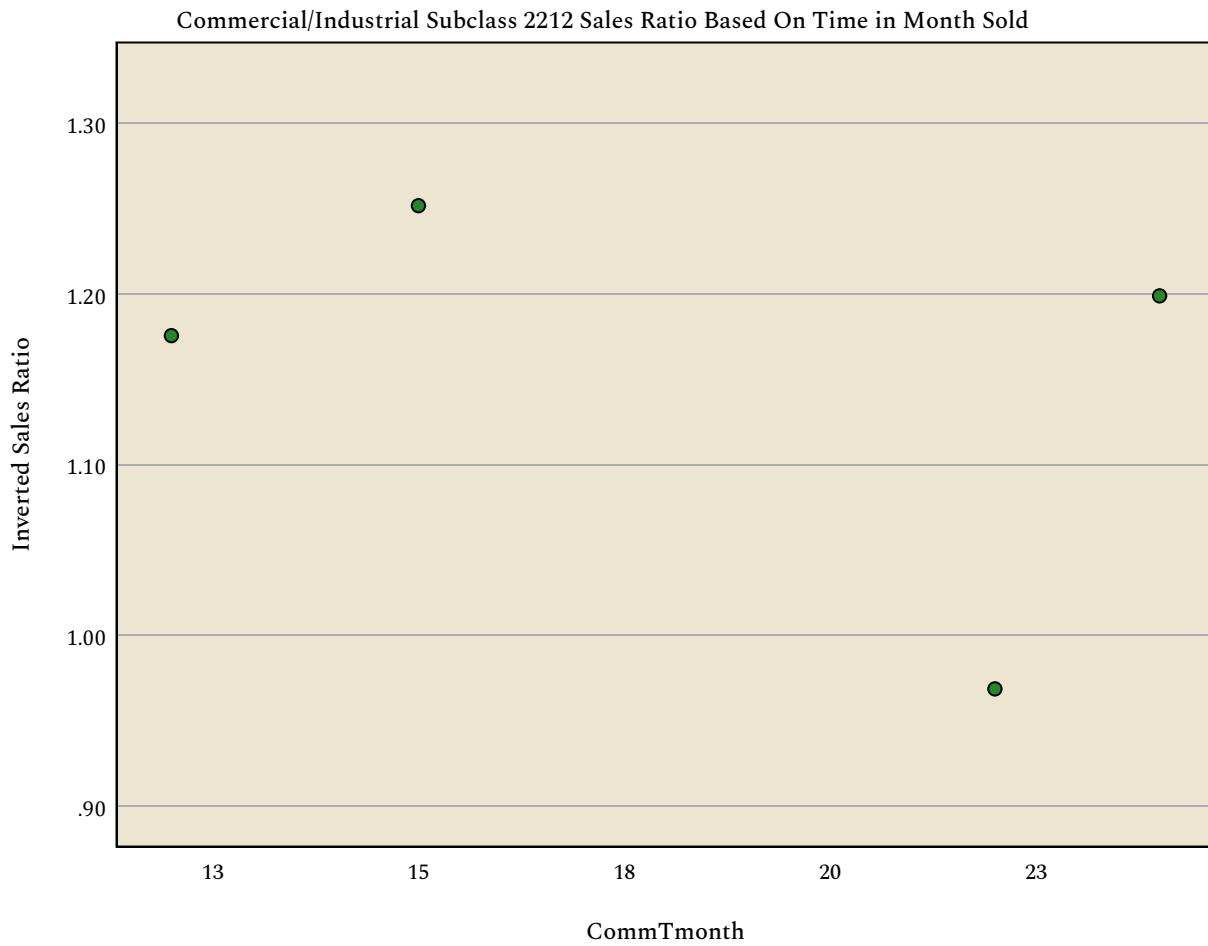
**Commercial/Industrial Subclass 2212: Months by Inverted Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.316	.265		4.968	.038
	CommTmonth	-.009	.014	-.420	-.655	.580

a. Dependent Variable: Inverted Sales Ratio

**Graph**



**Commercial/Industrial Subclass 2212: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Price Per Foot	Price Per Foot	Difference in Price Per Foot
N	Valid	4	4	4
	Missing	0	0	0
Mean		\$77.07	\$129.40	1.83
Median		\$73.25	\$143.81	1.90
Percentiles	2.5	\$38.97	\$81.11	1.21
	25	\$44.30	\$95.63	1.34
	50	\$73.25	\$143.81	1.90
	75	\$113.67	\$148.76	2.25
	97.5	.	.	.

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	4	4	4
	Missing	0	0	0
Mean		\$199,384.00	\$336,488.75	\$137,104.75
Median		\$189,692.00	\$346,354.50	\$108,788.50
Percentiles	2.5	\$49,645.00	\$85,494.00	\$35,849.00
	25	\$63,890.00	\$125,642.00	\$46,415.75
	50	\$189,692.00	\$346,354.50	\$108,788.50
	75	\$344,570.00	\$537,469.75	\$256,110.00
	97.5	.	.	.

**Commercial/Industrial Subclass 2212: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.817

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

a. The significance level is .050.

b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Total Value across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	152
Mann-Whitney U	206.000
Wilcoxon W	11381.000
Test Statistic	206.000
Standard Error	75.493
Standardized Test Statistic	-.232
Asymptotic Sig.(2-sided test)	.817

**Nonparametric Tests**

**Commercial/Industrial Subclass 2212: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.014

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	153
Mann-Whitney U	83.000
Wilcoxon W	11258.000
Test Statistic	83.000
Standard Error	87.457
Standardized Test Statistic	-2.458
Asymptotic Sig.(2-sided test)	.014

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.033

**Commercial/Industrial Subclass 2212: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	153
Mann-Whitney U	111.000
Wilcoxon W	11286.000
Test Statistic	111.000
Standard Error	87.457
Standardized Test Statistic	-2.138
Asymptotic Sig.(2-sided test)	.033

**Commercial/Industrial Subclass 2212: Unit Comparison Method**

**Summarize**

Sold vs Unsold Percent Change for Subclass 2212

Difference in Price Per Foot

CommSOLDFLG	N	Median	Mean
SOLD	4	1.90	1.83
UNSOLD	159	1.25	1.39
Total	163	1.25	1.40

**Commercial/Industrial Subclass 2212: Economic Area Analysis**

**Ratio Statistics**

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	N	Median	Coefficient of Dispersion
1	6	.734	.204
3	3	.660	.558
4	2	.686	.239
8	1	.260	.000
Overall	12	.664	.345

**Ratio Statistics**

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	N	Price Related Bias	Price Related Differential
1	6	.035	.999
3	3	-.323	1.447
4	2	-1.373	1.060
8	1	.	1.000
Overall	12	-.161	1.185

**Summarize**

**Commercial/Industrial Subclass 2212: Economic Area Analysis**

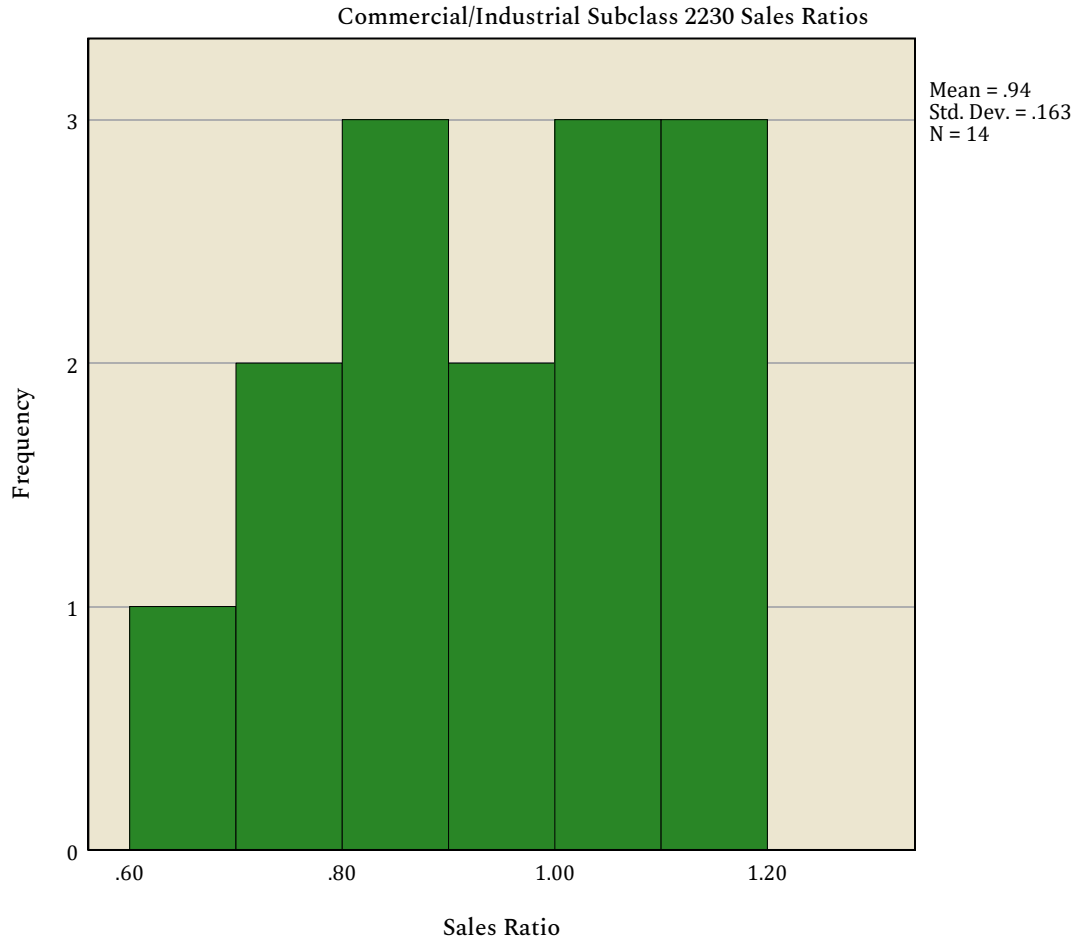
Sold vs Unsold Percent Change for Subclass 2212 by Economic Area

Difference in Price Per Foot

economic_area	CommSOLDFLG	N	Median	Mean
1	SOLD	3	2.08	2.04
	UNSOLD	110	1.27	1.39
	Total	113	1.28	1.41
3	UNSOLD	14	1.21	1.28
	Total	14	1.21	1.28
4	SOLD	1	1.21	1.21
	UNSOLD	10	1.28	1.40
	Total	11	1.24	1.38
6	UNSOLD	18	1.21	1.40
	Total	18	1.21	1.40
8	UNSOLD	6	1.38	1.64
	Total	6	1.38	1.64
9	UNSOLD	1	1.30	1.30
	Total	1	1.30	1.30
Total	SOLD	4	1.90	1.83
	UNSOLD	159	1.25	1.39
	Total	163	1.25	1.40

### Commercial/Industrial Subclass 2230: Sales Ratio Distribution

Graph



**Commercial/Industrial Subclass 2230: Central Tendencies**

**Ratio Statistics**

Ratio Statistics for Current Total Value /  
Adjusted Sale Price

N	Median	Coefficient of Dispersion
14	.968	.134

**Ratio Statistics**

Ratio Statistics for Current Total  
Value / Adjusted Sale Price

Price Related Bias	Price Related Differential
-.018	1.027

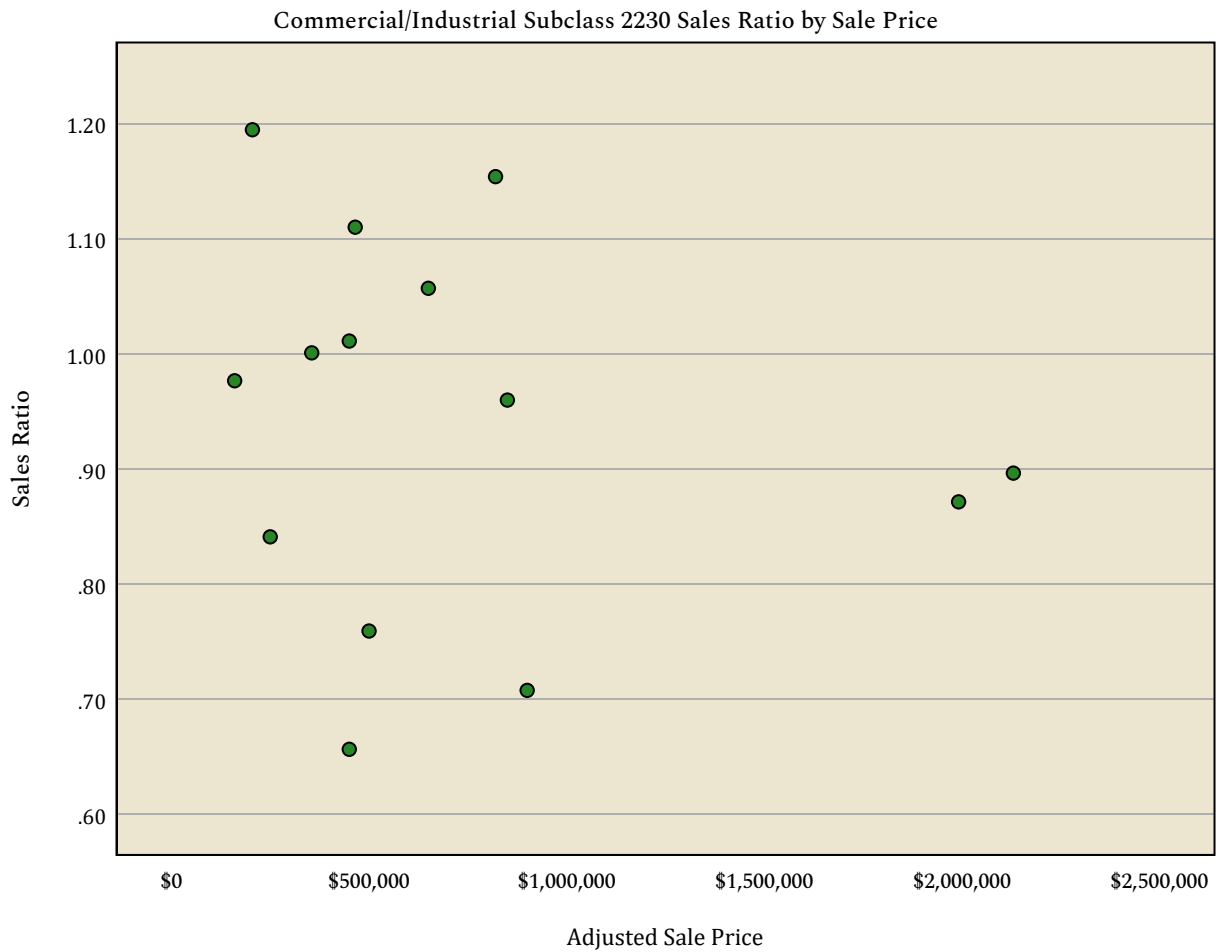
**Commercial/Industrial Subclass 2230: Sales Price by Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	.980	.071		13.827	<.001
	Adjusted Sale Price	-5.115E-8	.000	-.191	-.675	.512

a. Dependent Variable: Sales Ratio

**Graph**



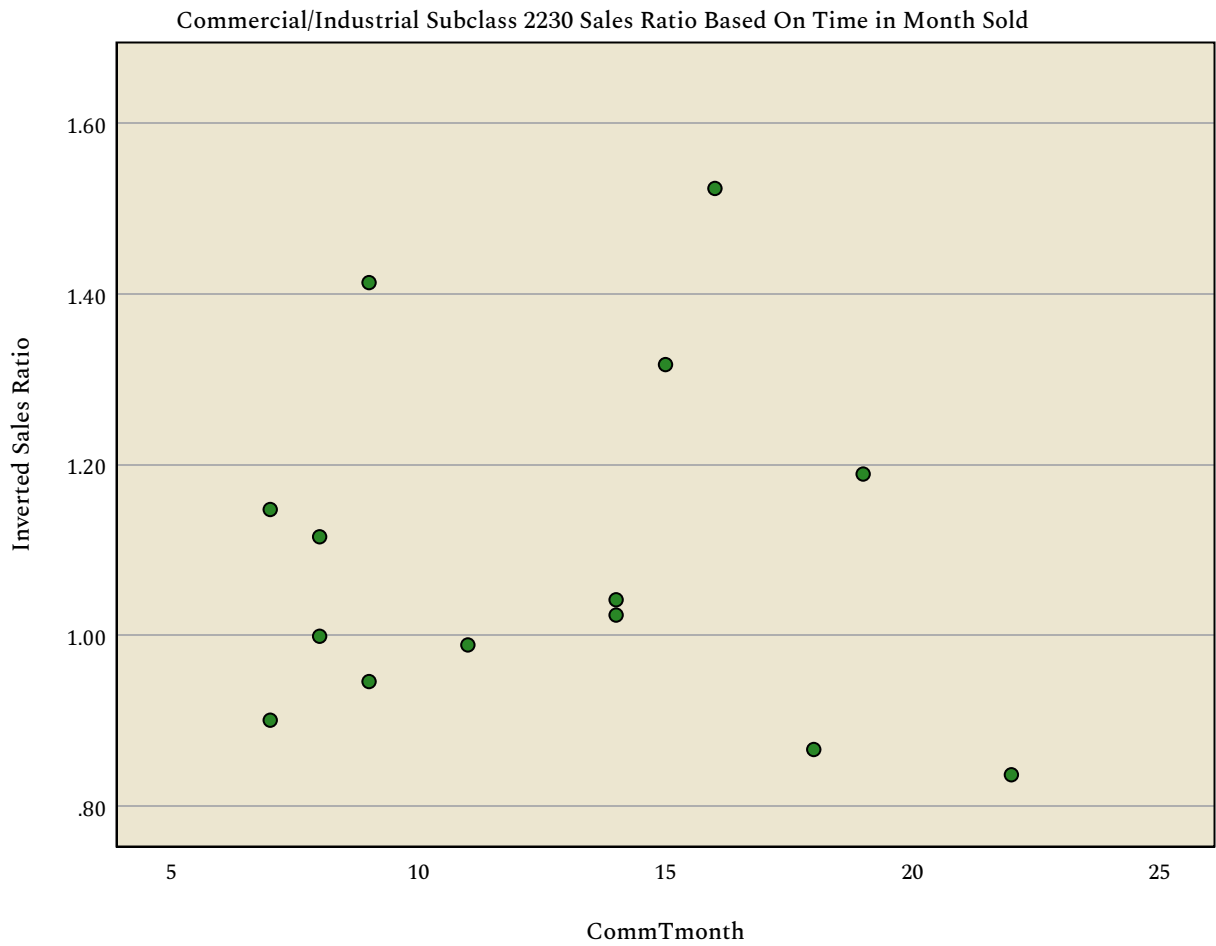
**Commercial/Industrial Subclass 2230: Months by Inverted Sales Ratio**

**Regression**

		Coefficients <sup>a</sup>				
		Unstandardized Coefficients		Standardized Coefficients		
Model		B	Std. Error	Beta	t	Sig.
1	(Constant)	1.115	.164		6.818	<.001
	CommTmonth	-.002	.012	-.041	-.142	.889

a. Dependent Variable: Inverted Sales Ratio

**Graph**



**Commercial/Industrial Subclass 2230: Descriptive Statistics**

**Frequencies**

		Statistics		
		Previous Price Per Foot	Price Per Foot	Difference in Price Per Foot
N	Valid	14	14	14
	Missing	0	0	0
Mean		\$74.11	\$131.30	1.84
Median		\$67.45	\$103.35	1.29
Percentiles	2.5	\$31.13	\$42.10	1.07
	25	\$42.11	\$73.20	1.19
	50	\$67.45	\$103.35	1.29
	75	\$89.61	\$136.99	2.42
	97.5	.	.	.

**Frequencies**

		Statistics		
		Previous Total Value	Current Total Value	Difference in Total Value
N	Valid	14	14	14
	Missing	0	0	0
Mean		\$441,445.71	\$667,448.86	\$226,003.14
Median		\$332,806.00	\$485,621.50	\$143,279.00
Percentiles	2.5	\$49,803.00	\$156,270.00	\$18,946.00
	25	\$158,710.25	\$282,791.75	\$60,953.00
	50	\$332,806.00	\$485,621.50	\$143,279.00
	75	\$598,426.00	\$848,518.00	\$308,191.75
	97.5	.	.	.

**Commercial/Industrial Subclass 2230: Mann-Whitney U-Test (Rank-sum)**

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Total Value is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.068

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Total Value across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	251
Mann-Whitney U	891.000
Wilcoxon W	29811.000
Test Statistic	891.000
Standard Error	235.455
Standardized Test Statistic	-1.822
Asymptotic Sig.(2-sided test)	.068

**Nonparametric Tests**

**Commercial/Industrial Subclass 2230: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.007

Hypothesis Test Summary

	Decision
1	Reject the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	252
Mann-Whitney U	862.000
Wilcoxon W	29542.000
Test Statistic	862.000
Standard Error	255.919
Standardized Test Statistic	-2.702
Asymptotic Sig.(2-sided test)	.007

**Nonparametric Tests**

Hypothesis Test Summary

	Null Hypothesis	Test	Sig. <sup>a,b</sup>
1	The distribution of Difference in Price Per Foot is the same across categories of CommSOLDFLG.	Independent-Samples Mann-Whitney U Test	.918

**Commercial/Industrial Subclass 2230: Mann-Whitney U-Test (Rank-sum)**

Hypothesis Test Summary

	Decision
1	Retain the null hypothesis.

- a. The significance level is .050.
- b. Asymptotic significance is displayed.

**Independent-Samples Mann-Whitney U Test**

**Difference in Price Per Foot across CommSOLDFLG**

Independent-Samples Mann-Whitney U Test Summary

Total N	252
Mann-Whitney U	1527.000
Wilcoxon W	30207.000
Test Statistic	1527.000
Standard Error	255.941
Standardized Test Statistic	-.104
Asymptotic Sig.(2-sided test)	.918

**Commercial/Industrial Subclass 2230: Unit Comparison Method**

**Summarize**

Sold vs Unsold Percent Change for Subclass 2230

Difference in Price Per Foot

CommSOLDFLG	N	Median	Mean
SOLD	13	1.28	1.79
UNSOLD	253	1.28	1.61
Total	266	1.28	1.62

**Commercial/Industrial Subclass 2230: Economic Area Analysis**

**Ratio Statistics**

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	N	Median	Coefficient of Dispersion
1	12	1.039	.206
2	1	1.652	.000
3	3	.977	.347
4	2	.567	.248
6	4	1.006	.058
8	3	.457	.307
Overall	25	.977	.280

**Ratio Statistics**

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	N	Price Related Bias	Price Related Differential
1	12	-.073	1.182
2	1	.	1.000
3	3	-.301	1.162
4	2	.233	.881
6	4	-.024	1.007
8	3	.681	.939
Overall	25	-.001	1.112

**Summarize**

**Commercial/Industrial Subclass 2230: Economic Area Analysis**

Sold vs Unsold Percent Change for Subclass 2230 by Economic Area

Difference in Price Per Foot

economic_area	CommSOLDFLG	N	Median	Mean
	UNSOLD	14	5.43	5.06
	Total	14	5.43	5.06
1	SOLD	6	1.27	2.02
	UNSOLD	122	1.30	1.41
	Total	128	1.30	1.44
2	UNSOLD	4	1.25	1.27
	Total	4	1.25	1.27
3	SOLD	2	1.17	1.17
	UNSOLD	16	1.27	1.23
	Total	18	1.27	1.22
4	SOLD	1	1.14	1.14
	UNSOLD	20	1.22	1.38
	Total	21	1.22	1.37
5	UNSOLD	1	1.33	1.33
	Total	1	1.33	1.33
6	SOLD	3	2.41	2.15
	UNSOLD	54	1.28	1.48
	Total	57	1.29	1.52
7	UNSOLD	1	1.34	1.34
	Total	1	1.34	1.34
8	SOLD	1	1.21	1.21
	UNSOLD	18	1.35	1.41
	Total	19	1.28	1.40
9	UNSOLD	3	1.18	1.20
	Total	3	1.18	1.20
Total	SOLD	13	1.28	1.79
	UNSOLD	253	1.28	1.61
	Total	266	1.28	1.62

**Final Analysis: OVERALL Statistical Abstract.**

**Ratio Statistics**

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	N	Mean	95% Confidence Interval for Mean		Median
			Lower Bound	Upper Bound	
Vacant Land	66	.931	.884	.977	.970
Residential	316	.971	.943	.998	.963
Commercial/Industrial	32	.949	.899	1.000	.992
Overall	414	.963	.940	.985	.965

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for ...
	Lower Bound	Upper Bound	Actual Coverage		Lower Bound
Vacant Land	.923	.996	96.4%	.786	.591
Residential	.947	.973	95.1%	.949	.933
Commercial/Industrial	.864	1.050	98.0%	.984	.919
Overall	.950	.976	95.6%	.941	.909

Ratio Statistics for Current Total Value / Adjusted Sale Price

Group	95% Confidence Interval for ...	Price Related Differential	Coefficient of Dispersion
	Upper Bound		
Vacant Land	.982	1.183	.127
Residential	.965	1.023	.126
Commercial/Industrial	1.050	.964	.113
Overall	.973	1.023	.125

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.