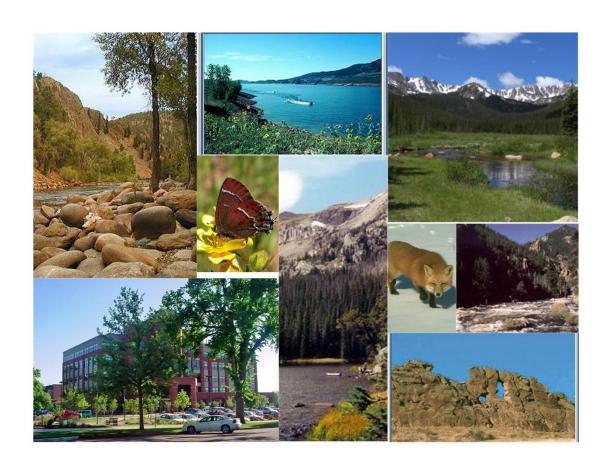


LARIMER COUNTY PROPERTY ASSESSMENT STUDY







September 15, 2024

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

RE: Final Report for the 2024 Colorado Property Assessment Study

Dear Ms. Castle:

East West Econometrics.-Audit Division is pleased to submit the Final Reports for the 2024 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.

East West Econometrics — Audit Division appreciates the opportunity to be of service to the State of Colorado. Please contact us with any questions or concerns.

Harry J. Fuller

Project Manager

Harry J. Zuller

East West Econometrics. - Audit Division



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INTRODUCTION



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

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

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

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

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

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

The procedural analysis includes all classes of property and specifically looks at how the assessor develops economic areas, confirms and qualifies sales, and develops time adjustments. The audit also examines the procedures for adequately discovering, classifying and valuing agricultural outbuildings, discovering subdivision build-out and subdivision Valuation discounting procedures. 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.

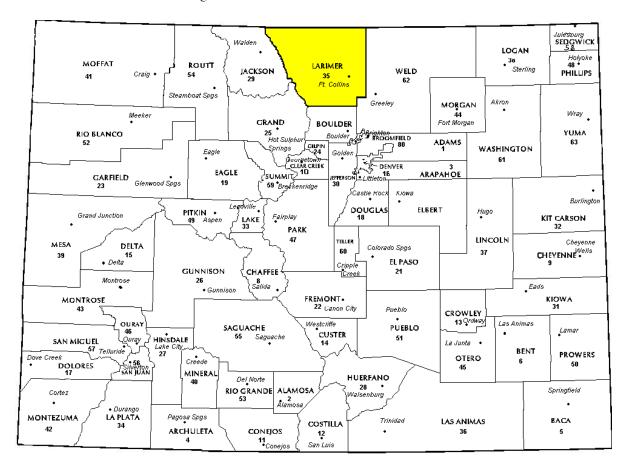
East West Econometrics has completed the Property Assessment Study for 2024 and is pleased to report its findings for Larimer County in the following report.



REGIONAL/HISTORICAL SKETCH OF LARIMER COUNTY

Regional Information

Larimer County is located in the Front Range region of Colorado. The Colorado Front Range is a colloquial geographic term for the populated areas of the State that are just east of the foothills of the Front Range. It includes Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, El Paso, Jefferson, Larimer, Pueblo, and Weld counties.





Historical Information

Larimer County has approximately 2,596 square miles and an estimated population of approximately 356,899 people, according to the U.S. Census Bureau's 2020 estimated census data. This represents a 19.1 percent change from April 1, 2010 to July 1, 2019.

Larimer County was created in 1861 as one of the seventeen original counties in the Colorado Territory; however, its western boundary was disputed. Controversy existed as to whether Larimer County ended at the Medicine Bow Range or at the Continental Divide thirty miles further west. An 1886 Colorado Supreme Court decision set the boundary at the Continental Divide, although the land between the Medicine Bow Range and the divide was made part of Jackson County in 1909.

Unlike that of much of Colorado, which was founded on the mining of gold and silver, the settlement of Larimer County was based almost entirely on agriculture, an industry that few thought possible in the region during the initial days of the Colorado Gold Rush. The mining boom almost entirely passed the county by. It would take the introduction of irrigation to the region in the 1860s to bring the first widespread settlement to the area.

In 1862, the United States Army established an outpost near Laporte that was designated as Camp Collins. A devastating flood in June 1864 wiped out the outpost, forcing the Army to seek a better location. At the urging of Joseph Mason, who had settled along the Poudre in 1860, the Army relocated its post downstream adjacent to Mason's land along the Overland stage route. The site of the new post became the nucleus of the town of Fort Collins, incorporated in 1873 after the withdrawal of the Army. By that time, Mason and others had convinced the legislature of the Colorado Territorial Legislature to designate the new town as the county seat. In 1870, the legislature designated Fort Collins as the location of the state agricultural college (later Colorado State University).

Cities and towns located in Larimer County, Colorado include Berthoud, Estes Park, Fort Collins, Loveland, Timnath, Wellington, Windsor, Bellvue, Buckeye, Campion, Cherokee Park, Drake, Glendevey, Glen Haven, LaPorte, Livermore, Kinikinik, Manhattan, Masonville, Pinewood Springs, Pingree Park, Poudre Park, Feather Lakes, Rustic, Teds Place, Virginia Dale and Waverly. (Wikipedia.org)



RATIO ANALYSIS

Methodology

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

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

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

All sixty-four counties were examined for compliance on the economic area level. Where were there sufficient sales data, 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 Larimer County are:

Larimer County Ratio Grid						
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis	
Commercial/Industrial	372	0.975	1.039	9.5	Compliant	
Single Family	17,331	0.984	1.016	6.4	Compliant	
Vacant Land	607	0.990	1.056	12.3	Compliant	

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

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

Recommendations



TIME TRENDING VERIFICATION

Methodology

While we recommend that counties use the inverted ratio regression analysis method to account for market (time) trending, some counties have used other IAAO-approved methods, such as the weighted monthly median approach. We are not auditing the methods used, but rather the results of the methods used. Given this range of methodologies used to account for market trending, we concluded that the best validation method was to examine the sale ratios for each class across the appropriate sale period. To be specific, if a county has considered and adjusted correctly for market trending, then the sale ratios should remain stable (i.e. flat) across the sale period. If a residual market trend is detected, then the county may or may not have addressed market trending adequately, and a further examination is warranted. This validation 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 Larimer County has complied with the statutory requirements to analyze the effects of time on value in their county. Larimer County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations



SOLD/UNSOLD ANALYSIS

Methodology

Larimer 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. 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 nonparametric testing is indicating a false rejection of the hypothesis that there is no difference between the sold and unsold property values.

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



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

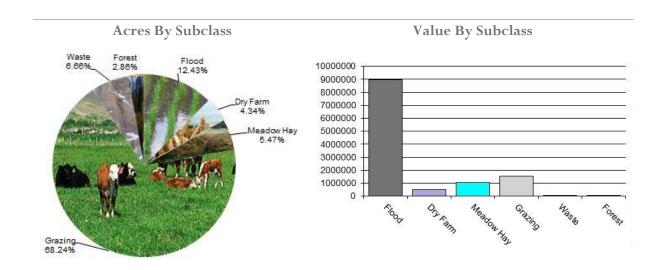
Conclusions

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

Recommendations



AGRICULTURAL LAND STUDY



Agricultural Land

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

(See Assessor Reference Library Volume 3 Chapter 5.)

Conclusions

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



	Larimer County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value	County Assessed Fotal Value	WRA Total Value	Ratio	
4117	Flood	47,531	188.47	8,957,989	8,941,758	1.00	
4127	Dry Farm	16,579	28.88	478,817	479,256	1.00	
4137	Meadow Hay	20,927	49.20	1,029,566	1,029,566	1.00	
4147	Grazing	260,914	5.88	1,533,893	1,533,893	1.00	
4177	Forest	10,941	6.69	73,226	73,319	1.00	
4167	Waste	25,449	2.19	55,686	55,686	1.00	
Total/Avg		382,340	31.72	12,129,179	12,113,478	1.00	

Recommendations

None

Agricultural Outbuildings

Methodology

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

Conclusions

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

Property Taxation for the valuation of agricultural outbuildings.

Recommendations



Agricultural Land Under Improvements

Methodology

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

Conclusions

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

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

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

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

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

Recommendations



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.

EWE reviewed the sales verification procedures in 2024 for Larimer County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically EWE selected 53 sales listed as unqualified.

All of the sales in the unqualified sales sample had reasons that were clear and supportable.

For residential, commercial, and vacant land sales with considerations over \$100,000, the contractor has examined and reported the ratio of qualified sales to total sales by class and performed the following analyses of unqualified sales:

The contractor has examined the manner in which sales have been classified as qualified or unqualified, including a listing of each step in the sales verification process, any adjustment procedures, and the county official responsible for making the final decision on qualification.

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



determine if the sales included in that code have been assigned appropriately.

Conclusions

Larimer County appears to be doing an adequate job of verifying their sales. EWE

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

Recommendations



ECONOMIC AREA REVIEW AND EVALUATION

Methodology

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

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

Recommendations



NATURAL RESOURCES

Earth and Stone Products

Methodology

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

Conclusions

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

Recommendations

None

Producing Oil and Gas

Methodology

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

STATUTORY REFERENCES

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

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

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

Valuation:

Valuation for assessment.

- (1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:
- (a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;
- (b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year. § 39-7-102, C.R.S.

Conclusions

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

Recommendations



VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2024 in Larimer County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14) and by applying the recommended methodology in ARL Vol 3, Chap 4. Subdivision Discounting in the intervening year can be accomplished by reducing the absorption period by one year.

In instances where the number of sales within an approved plat was less than the absorption

rate per year calculated for the plat, the absorption period was left unchanged.

Conclusions

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

Recommendations



POSSESSORY INTEREST PROPERTIES

Possessory Interest

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

Larimer County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural and commercial 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

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

Recommendations



PERSONAL PROPERTY AUDIT

Larimer 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.

Larimer 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
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth

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.

Larimer County submitted their personal property written audit plan and was current for the 2024 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
- Accounts with omitted property
- Businesses with no deletions or additions for 2 or more years
- Non-filing Accounts Best Information Available
- Accounts close to the \$52,000 actual value exemption status
- Accounts protested with substantial disagreement



Larimer County's median ratio is 1.00. This is in compliance with the State Board of Equalization (SBOE) compliance requirements which range from .90 to 1.10 with no COD requirements.

Conclusions

Larimer 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



EAST WEST ECONOMETRICS AUDITOR STAFF

Harry J. Fuller, Audit Project Manager

Suzanne Howard, Audit Administrative Manager

Steve Kane, Audit Statistician

Carl W. Ross, Agricultural/Natural Resource Analyst

J. Andrew Rodriguez, Field Analyst



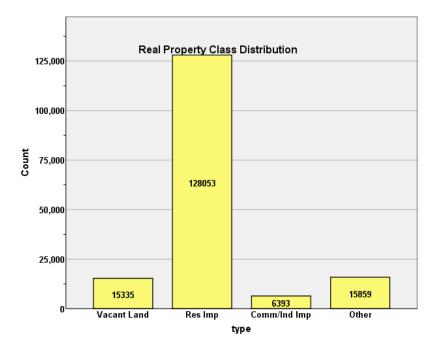
APPENDICES



STATISTICAL COMPLIANCE REPORT FOR LARIMER COUNTY 2024

I. OVERVIEW

Larimer County is a northern county located along Colorado's Front Range urban corridor. The county has a total of 165,640 real property parcels, according to data submitted by the county assessor's office in 2024. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100) accounted for 74.0% of all vacant land parcels.

For residential improved properties, single family properties accounted for 88.0% of all residential properties.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial properties accounted for 3.9% of all such properties in this county.

II. DATA FILES

The following sales analyses were based on the requirements of the 2024 Colorado Property Assessment Study. Information was provided by the Larimer Assessor's Office in April 2024. The data included all 5 property record files as specified by the Auditor.



III. RESIDENTIAL SALES RESULTS

There were 17,331 qualified residential sales for the 24-month period ending June 30, 2022. The sales ratio analysis results were as follows:

Median	0.984
Price Related Differential	1.016
Coefficient of Dispersion	6.4

We next stratified the sale ratio analysis by economic area and neighborhood. The minimum count for the neighborhood stratification is 35 sales. The following are the results of this stratification analysis:

Economic Area Case Processing Summary

		Count	Percent
ECONAREA	1.00	9019	52.1%
	2.00	6988	40.3%
	3.00	747	4.3%
	4.00	566	3.3%
Overall		17320	100.0%
Excluded		11	
Total		17331	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion
1.00	.986	1.019	.063
2.00	.981	1.010	.060
3.00	.989	1.027	.086
4.00	.985	1.018	.094
Overall	.984	1.016	.064

B. Neighborhoods with 35 or more sales Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of
Group	Median	Differential	Dispersion
18729 0679	.985	1.017	.051
18729 0898	.997	1.010	.073
18729 1733	1.000	1.003	.046
18729 1997	.987	1.004	.043
18729 8014	.993	1.003	.037
18729 8040	.974	1.003	.050
18933 1942	.994	1.001	.030
18933 1971	.984	1.001	.042
18933 5006	.954	1.039	.111
18933 5007	.982	1.003	.043
18933 5008	.994	1.007	.060
18933 5010	.973	1.044	.059
18933 5013	.999	1.017	.050
18933 5017	.987	1.007	.070
18933 5022	.994	1.005	.057

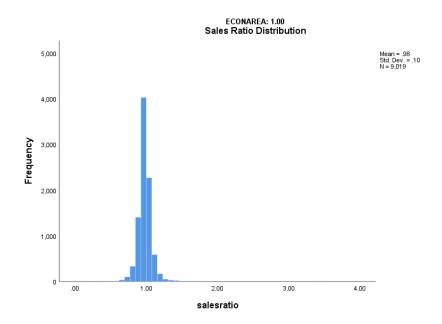


18933 5024	.884	.992	.137
18933 8094	.988	1.002	.058
18933 8098	.973	1.002	.048
18933 8132	.984	1.002	.042
18933 8151	1.017	1.003	.048
18933 8255	.988	1.002	.045
18933 8330	.969	1.001	.030
18933 8383	1.000	1.004	.042
18934 6035	.976	1.000	.035
18934 6043	.984	1.002	.046
18934 6045	.993	1.001	.049
18934 6046	.982	1.002	.033
18934 6048	.973	1.002	.043
18934 6051	.962	1.002	.029
18934 6053	.974	1.002	.051
18934 6055	.987	1.002	.040
18934 6067	.985	1.004	.055
19601 1344	.970	1.004	
19613 18383	.979	1.003	.056
19613 1956	1.000		.043
19613 8045	1.003	1.001	.049
19614 18513	.999	1.001	
19614 8000	1.000	1.005	.045
19722 1887	.992		
19722 8409		1.010	.064
	.980	1.001	.039
19724 1176	.987	1.011	.052
19836 8116	1.000	1.010	.079
28506 230568	.973	1.007	.060
28506 2436	.967	1.012	.067
28506 2694	.982	1.005	.042
28506 2723	.999	.999	.035
28506 2725	.998	1.004	.052
28506 2736	.987	1.004	.053
28506 2753	.987	1.004	.045
28506 5802	.978	1.001	.044
28506 5802001001	.979	1.004	.048
28506 5813	.970	1.011	.054
28506 8528	1.004	1.003	.043
28623 5504	.951	1.009	.072
28623 5510	.968	1.018	.076
28623 5513	.976	1.011	.067
28623 5514	.954	1.017	.073
28623 5522	.982	1.005	.044
28623 5523	1.003	1.004	.039
29414 4093	.990	1.004	.057
29414 4104	.908	1.051	.112
29414 4114	.993	1.001	.060
29414 4118	.984	1.007	.052
29414 4119	.988	1.007	.057
29414 4120	.984	1.001	.032
29414 4125	.973	1.001	.060
29414 4128	.986	1.000	.029
29414 4133	.998	1.008	.052
29502 2223	.972	1.004	.056
29502 2407	.988	1.002	.049
29502 2558	.978	.998	.043
29502 2624	.995	1.007	.046



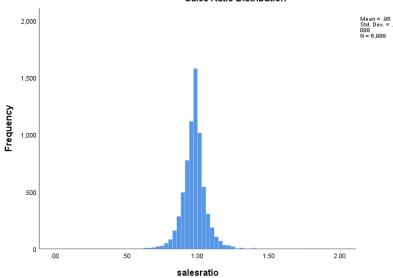
29517 2631 .989 1.000 .047 29517 2847 .999 1.005 .046 29517 2853 .980 1.001 .030 29522 2744 .984 1.000 .026 29522 8520 .996 1.002 .042 29635 2733 .997 1.008 .065 29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077 Overall .985 1.011 .056					
29517 2853 .980 1.001 .030 29522 2744 .984 1.000 .026 29522 8520 .996 1.002 .042 29635 2733 .997 1.008 .065 29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29517 2631	.989	1.000	.047	
29522 2744 .984 1.000 .026 29522 8520 .996 1.002 .042 29635 2733 .997 1.008 .065 29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29517 2847	.999	1.005	.046	
29522 8520 .996 1.002 .042 29635 2733 .997 1.008 .065 29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29517 2853	.980	1.001	.030	
29635 2733 .997 1.008 .065 29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29522 2744	.984	1.000	.026	
29635 27331 .989 1.003 .048 29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29522 8520	.996	1.002	.042	
29635 2748 .981 1.004 .047 29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29635 2733	.997	1.008	.065	
29635 8510 .974 1.002 .040 29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29635 27331	.989	1.003	.048	
29635 8525 .978 1.007 .062 33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29635 2748	.981	1.004	.047	
33525 0223 1.001 1.010 .083 41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29635 8510	.974	1.002	.040	
41428 0151 .972 1.006 .086 42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	29635 8525	.978	1.007	.062	
42915 0327 .980 1.012 .075 43028 0272 .990 1.004 .077	33525 0223	1.001	1.010	.083	
43028 0272 .990 1.004 .077	41428 0151	.972	1.006	.086	
	42915 0327	.980	1.012	.075	
Overall .985 1.011 .056	43028 0272	.990	1.004	.077	
	Overall	.985	1.011	.056	

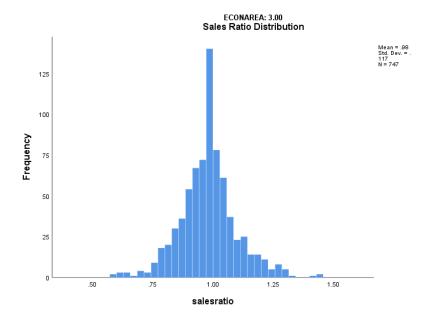
The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. All but 2 neighborhoods with at least 35 sales were within the standards for the median sales ratio and the COD. The following graphs describe further the sales ratio distribution for these properties:







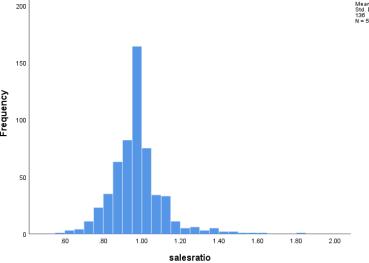






ECONAREA: 4.00

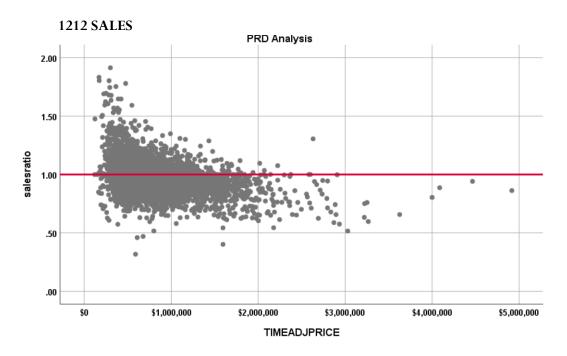




The above graphs indicate that the distribution of the sale ratios was within state mandated limits.

Subclass 1212 PRD Analysis

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





The Price-Related Differential (PRD) for 1212 sales is 1.013, which is within IAAO standards for the PRD. We also performed a regression analysis between the sales ratio and the assessor's current value to further test for regressivity or progressivity in the residential sales valuation, as follows:

Coefficients^a

		Unstandardized Coe	efficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.997	.002		488.802	.000
	CURRTOT	0000000298	.000	079	-9.799	.000

a. Dependent Variable: salesratio

The slope of the line at 0.0000000298 indicates that there is virtually no slope in the regression line, which indicates that sales ratios are similar across the entire sale price array. This indicates no regressivity or progressivity in the residential values assigned by the assessor.

Case Processing Summary

		Count	Percent
SPRec	LT \$300K	111	0.7%
	\$300K to \$400K	822	5.4%
	\$400K to \$500K	3459	22.8%
	\$500K to \$600K	4140	27.3%
	\$600K to \$750K	3504	23.1%
	\$750K to \$1000K	2012	13.2%
	\$1000K to \$2000K	1052	6.9%
	Over \$2000K	87	0.6%
Overall		15187	100.0%
Excluded		0	
Total		15187	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$300K	1.046	.998	.186	27.0%
\$300K to \$400K	1.000	1.001	.080	12.7%
\$400K to \$500K	.996	1.000	.057	8.3%
\$500K to \$600K	.987	1.000	.051	7.2%
\$600K to \$750K	.977	1.000	.055	7.6%
\$750K to \$1000K	.967	1.000	.069	9.3%
\$1000K to \$2000K	.923	1.006	.094	12.1%
Over \$2000K	.831	1.005	.139	17.3%
Overall	.983	1.013	.063	9.4%

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

Residential Market Trend Analysis

We next analyzed the residential dataset using the 24-month sale period for any residual market trending and broken down by economic area, as follows:



Coefficients^a

			Unstandardize	ed Coefficients	Standardized Coefficients		
ECONAREA	Model		В	Std. Error	Beta	t	Sig.
	1	(Constant)	.818	.116		7.048	.000
		SalePeriod	006	.010	204	624	.548
1.00	1	(Constant)	.982	.002		485.222	.000
		SalePeriod	.000	.000	017	-1.483	.138
2.00	1	(Constant)	.985	.002		472.313	.000
		SalePeriod	001	.000	052	-4.183	.000
3.00	1	(Constant)	.974	.012		82.443	.000
		SalePeriod	.000	.001	.016	.328	.743
4.00	1	(Constant)	1.013	.012		87.425	.000
		SalePeriod	003	.001	148	-3.540	.000

a. Dependent Variable: salesratio

There was no residual market trending present in the sale ratio data for any of the economic areas; in Economic Areas 2 and 4, where the marginally statistical trend was present, the magnitude of that trend at less than 0.03% per month was not significant. We therefore concluded that the assessor has adequately addressed market trending in the valuation of residential properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2024 between each group. The data was analyzed for the entire class and stratified by economic area, as follows:

Report VALSF		
sold	N	Media
UNSOLD	110056	\$336

sold	N	Median	Mean
UNSOLD	110056	\$336	\$352
SOLD	17325	\$331	\$351

Report **VALSF**

ECONAREA	sold	N	Median	Mean
1.00	UNSOLD	59774	\$334	\$350
	SOLD	9019	\$332	\$352
2.00	UNSOLD	37422	\$325	\$333
	SOLD	6988	\$318	\$329
3.00	UNSOLD	5909	\$460	\$476
	SOLD	743	\$464	\$490
4.00	UNSOLD	6715	\$372	\$382
	SOLD	564	\$409	\$433

We next stratified the comparison by neighborhood with at least 35 sales. All neighborhoods valued residential sold and unsold properties consistently using the value per square foot method.



Report VALSF

VALSF				
NBHD	sold	N	Median	Mean
18729 0679	UNSOLD	345	\$301	\$313
	SOLD	62	\$306	\$319
18729 0898	UNSOLD	275	\$321	\$319
	SOLD	137	\$323	\$324
18729 1733	UNSOLD	299	\$315	\$329
	SOLD	38	\$328	\$342
18729 1997	UNSOLD	311	\$313	\$329
	SOLD	54	\$313	\$329
18729 8014	UNSOLD	428	\$323	\$321
	SOLD	84	\$324	\$320
18729 8040	UNSOLD	328	\$320	\$327
	SOLD	42	\$342	\$338
18933 1942	UNSOLD	183	\$308	\$309
	SOLD	44	\$308	\$308
18933 1971	UNSOLD	397	\$320	\$317
10000 1071	SOLD	80	\$322	\$314
18933 5006	UNSOLD	307	\$559	\$559
10333 3000	SOLD	108	\$570	\$556
18933 5007	UNSOLD	411	\$264	\$268
10933 3007	SOLD	62	\$268	\$270
18933 5008	UNSOLD	224	\$295	\$304
10933 3000	SOLD	184	\$316	\$304
40000 5040				
18933 5010	UNSOLD	178	\$393	\$388
40000 5040	SOLD	174	\$350	\$356
18933 5013	UNSOLD	237	\$424	\$434
10000 5017	SOLD	106	\$417	\$401
18933 5017	UNSOLD	134	\$255	\$287
	SOLD	59	\$306	\$306
18933 5022	UNSOLD	237	\$303	\$304
	SOLD	240	\$303	\$311
18933 5024	UNSOLD	187	\$217	\$214
	SOLD	59	\$217	\$231
18933 8094	UNSOLD	153	\$322	\$322
	SOLD	38	\$334	\$338
18933 8098	UNSOLD	434	\$310	\$318
	SOLD	73	\$311	\$323
18933 8132	UNSOLD	246	\$314	\$322
	SOLD	65	\$326	\$328
18933 8151	UNSOLD	185	\$347	\$346
	SOLD	35	\$347	\$345
18933 8255	UNSOLD	391	\$279	\$288
	SOLD	338	\$283	\$291
18933 8330	UNSOLD	136	\$283	\$293
	SOLD	36	\$283	\$291
18933 8383	UNSOLD	34	\$280	\$297
	SOLD	79	\$262	\$277
18934 6035	UNSOLD	227	\$335	\$330
	SOLD	39	\$330	\$330
18934 6043	UNSOLD	282	\$349	\$339
	SOLD	40	\$351	\$347
18934 6045	UNSOLD	249	\$245	\$251
100010070	SOLD	39	\$261	\$274
	COLD	00	ΨΖΟΙ	Ψ21-7



18934 6046	UNSOLD	178	\$290	\$296
100010010	SOLD	48	\$289	\$300
18934 6048	UNSOLD	349	\$330	\$323
100010010	SOLD	57	\$328	\$320
18934 6051	UNSOLD	88	\$207	\$211
10334 0031	SOLD	44	\$206	\$207
18934 6053	UNSOLD	103	\$251	\$222
10934 0033	SOLD	39	\$265	\$264
18934 6055	UNSOLD	178	\$300	
10934 0033			· ·	\$303
40004 0007	SOLD	105	\$303	\$299
18934 6067	UNSOLD	127	\$326	\$305
40004 4044	SOLD	219	\$271	\$283
19601 1344	UNSOLD	402	\$304	\$311
10010 10000	SOLD	39	\$324	\$321
19613 18383	UNSOLD	220	\$344	\$344
	SOLD	36	\$341	\$335
19613 1956	UNSOLD	311	\$310	\$305
	SOLD	47	\$312	\$310
19613 8045	UNSOLD	207	\$332	\$307
	SOLD	40	\$332	\$334
19614 18513	UNSOLD	369	\$290	\$294
	SOLD	45	\$287	\$294
19614 8000	UNSOLD	15	\$272	\$259
	SOLD	44	\$272	\$266
19722 1887	UNSOLD	255	\$342	\$347
	SOLD	39	\$308	\$328
19722 8409	UNSOLD	4	\$343	\$336
	SOLD	101	\$308	\$315
19724 1176	UNSOLD	276	\$324	\$332
	SOLD	40	\$331	\$343
19836 8116	UNSOLD	269	\$346	\$330
	SOLD	38	\$402	\$423
28506 230568	UNSOLD	60	\$283	\$283
20000 200000	SOLD	70	\$282	\$279
28506 2436	UNSOLD	313	\$308	\$328
20000 2 100	SOLD	55	\$316	\$330
28506 2694	UNSOLD	262	\$296	\$303
20000 2094	SOLD	48	\$297	\$303
28506 2723	UNSOLD	257	\$358	\$358
20000 2723	SOLD		· · · · · · · · · · · · · · · · · · ·	
20500 2705		51	\$316	\$340
28506 2725	UNSOLD	528	\$294	\$308
00500 0700	SOLD	312	\$292	\$298
28506 2736	UNSOLD	179	\$333	\$334
	SOLD	47	\$334	\$332
28506 2753	UNSOLD	257	\$342	\$340
	SOLD	85	\$343	\$346
28506 5802	UNSOLD	370	\$269	\$271
	SOLD	107	\$268	\$270
28506 5802001001	UNSOLD	260	\$238	\$238
	SOLD	158	\$248	\$256
28506 5813	UNSOLD	126	\$359	\$351
	SOLD	39	\$357	\$352
28506 8528	UNSOLD	73	\$267	\$268
	SOLD	40	\$255	\$251
28623 5504	UNSOLD	121	\$304	\$318
	SOLD	62	\$284	\$305
28623 5510	UNSOLD	641	\$394	\$389
	0.10010	5 1 1	ΨΟΟΙ	ΨΟΟΟ



SOLD 51 \$329 \$335 28623 5514 UNSOLD 330 \$365 \$362 SOLD 41 \$357 \$364 28623 5522 UNSOLD 55 \$373 \$367 SOLD 41 \$380 \$372 28623 5523 UNSOLD 79 \$324 \$305 SOLD 35 \$254 \$264 29414 4093 UNSOLD 50 \$310 \$310 SOLD 52 \$266 \$281 29414 4104 UNSOLD 182 \$416 \$410 SOLD 140 \$387 \$390 29414 4114 UNSOLD 380 \$292 \$296 SOLD 240 \$280 \$295 29414 4118 UNSOLD 30 \$311 \$320 29414 4119 UNSOLD 30 \$315 \$315 SOLD 163 \$311 \$320 29414 4120 UNSOLD 30 \$315 \$315 SOLD 70 \$247 \$275 29414 4128 UNSOLD 90 \$251 \$270 SOLD 40 \$247 \$272 29414 4133 UNSOLD 22 \$355 \$334 SOLD 205 \$320 \$321 29502 2223 UNSOLD 416 \$297 \$321 SOLD 49 \$315 \$331					
SOLD 51 \$329 \$335		SOLD	135	\$383	\$385
28623 5514	28623 5513	UNSOLD	244	\$358	\$349
SOLD 41 \$357 \$364		SOLD	51	\$329	\$335
28623 5522	28623 5514	UNSOLD	330	\$365	\$362
SOLD 41 \$380 \$372		SOLD	41	\$357	\$364
NSOLD 79 \$324 \$305	28623 5522	UNSOLD	55	\$373	\$367
SOLD 35 \$254 \$264		SOLD	41	\$380	\$372
UNSOLD 50 \$310 \$310 \$310 \$310 \$310 \$30LD 52 \$266 \$286 \$281 \$329414 4104 UNSOLD 182 \$416 \$410 \$387 \$390 \$29414 4114 UNSOLD 380 \$292 \$296 \$20LD 240 \$280 \$295 \$296 \$321 \$320 \$29414 4118 UNSOLD 259 \$323 \$331 \$320 \$29414 4119 UNSOLD 30 \$311 \$320 \$29414 4119 UNSOLD 30 \$315 \$315 \$315 \$30LD 92 \$291 \$305 \$320 \$29414 4120 UNSOLD 56 \$266 \$226 \$276 \$30LD 70 \$247 \$275 \$29414 4125 UNSOLD 198 \$319 \$320 \$320 \$321 \$320 \$320 \$321 \$320 \$320 \$321 \$320 \$320 \$321 \$320 \$320 \$321 \$322 \$323 \$321 \$320 \$320 \$321 \$322 \$323 \$321 \$322 \$323 \$321 \$322 \$323 \$321 \$322 \$323 \$321 \$322 \$323 \$323 \$321 \$323	28623 5523	UNSOLD	79	\$324	\$305
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29414 4104	29414 4093	UNSOLD	50	\$310	\$310
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		SOLD	213	\$356	\$346
	33525 0223	UNSOLD	480	\$461	\$466
			59		



41428 0151	UNSOLD	287	\$479	\$489
	SOLD	44	\$526	\$529
42915 0327	UNSOLD	476	\$336	\$342
	SOLD	98	\$362	\$373
43028 0272	UNSOLD	757	\$389	\$396
	SOLD	94	\$400	\$399

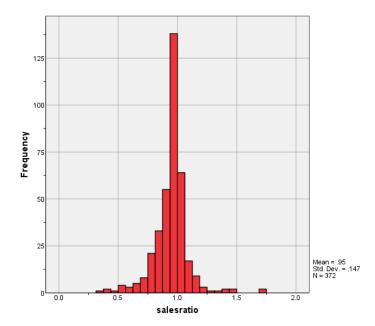
Only two neighborhoods reported a value per square foot significantly higher for sold properties as compared to unsold properties. Most neighborhoods had the opposite scenario where the unsold value per square foot was greater than the sold value per square foot. We concluded that there was no evidence of valuing sold properties on average at a greater rate than unsold properties.

IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

There were 372 qualified commercial and industrial sales for the 24 month period ending June 30, 2022. The sales ratio analysis results were as follows:

Median	0.975
Price Related Differential	1.039
Coefficient of Dispersion	9.5

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







Commercial/Industrial Market Trend Analysis

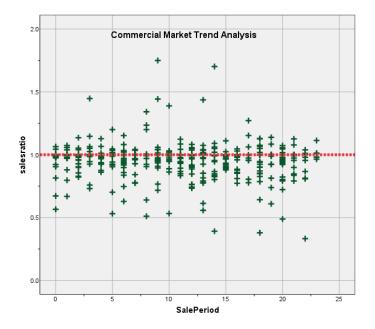
The assessor did apply market trend adjustments to the commercial dataset. The commercial/industrial sales were analyzed, examining the sale ratios across the 24 month sale period with the following results:

Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.971	.015		65.518	.000
	SalePeriod	002	.001	078	-1.504	.133

a. Dependent Variable: salesratio





There was no statistically significant residual market trending present in the commercial sale ratios; therefore, we concluded that the assessor has adequately considered market trending adjustments as part of the commercial/industrial valuation.

Sold/Unsold Analysis

We compared the median change in actual value between the previous base year and the current base year for and unsold commercial properties, both overall and stratified by subclass, to determine if both groups were valued consistently, as follows:

Report

DIFF			
sold	N	Median	Mean
UNSOLD	5699	1.26	1.33
SOLD	364	1.33	1.42

Report DIFF

ABSTRIMP	sold	N	Median	Mean
2212.00	UNSOLD	692	1.28	1.35
	SOLD	51	1.50	1.56
2215.00	UNSOLD	128	1.38	1.46
	SOLD	6	1.55	1.63
2220.00	UNSOLD	497	1.20	1.26
	SOLD	38	1.35	1.37
2230.00	UNSOLD	1139	1.28	1.37
	SOLD	52	1.47	1.55
2235.00	UNSOLD	647	1.30	1.37
	SOLD	52	1.44	1.51
2245.00	UNSOLD	2002	1.23	1.28
	SOLD	141	1.24	1.29



3215.00	UNSOLD	146	1.33	1.38	
	SOLD	4	1.57	1.60	
3230.00	UNSOLD	43	1.33	1.36	
	SOLD	4	1.42	1.42	

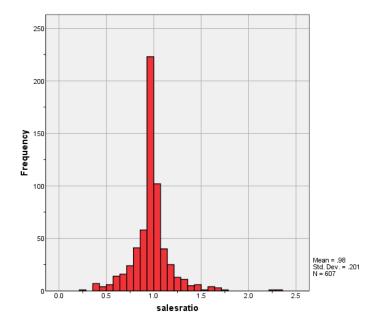
Although the magnitude overall was not significant, sold properties tended to be smaller, newer, higher quality and/or superior condition. This likely explains some of the differences between sold and unsold changes in value for certain subclasses. We therefore concluded that the assessor overall valued sold and unsold commercial properties consistently.

V. VACANT LAND SALE RESULTS

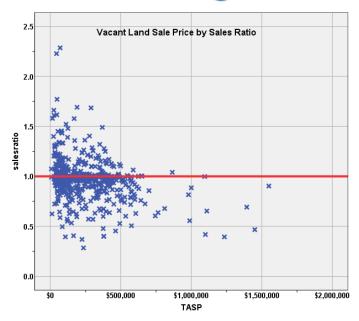
There were 607 qualified vacant land sales for the 24 month period ending June 30, 2022. The sales ratio analysis results were as follows:

Median	0.990
Price Related Differential	1.056
Coefficient of Dispersion	12.3

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







The above histogram indicates that the distribution of the vacant land sale ratios was within state mandated limits, while the above scatter plot indicated that there was no price related differential issues. No sales were trimmed.

Vacant Land Market Trend Analysis

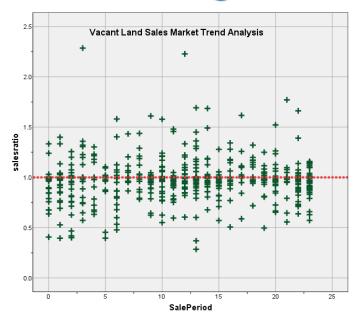
We next analyzed the vacant land dataset using the 24-month sale period, with the following results:

Coefficients^a

		Unstandardized	Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.957	.016		60.345	.000
	SalePeriod	.002	.001	.056	1.389	.165

a. Dependent Variable: salesratio





The above analysis indicated that no significant market trending was present in the vacant land sale data. We concluded that the assessor has adequately dealt with market trending for vacant land properties.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold vacant land properties, we compared the median change in actual value between the prior base year and the current base year for each group, as follows:

Report			
DIFF			
sold	N	Median	Mean
UNSOLD	8682	1.15	1.37
SOLD	563	1.60	1.70

We next examined sold and unsold properties with at least 5 sales to determine if sold and unsold properties were valued differently, as follows:

Report DIFF				
SUBDIVNO	sold	N	Median	Mean
/340870	UNSOLD	9	1.46	1.45
	SOLD	5	1.05	1.27
2293	UNSOLD	22	1.85	2.00
	SOLD	7	1.85	1.92
272110	UNSOLD	34	2.79	2.66
	SOLD	6	2.67	2.54
272130	UNSOLD	52	2.12	2.18
	SOLD	6	2.12	2.22
272150	UNSOLD	54	2.67	2.59
	SOLD	5	2.67	2.61
2723	UNSOLD	19	1.52	1.92
	SOLD	5	2.86	2.46



2726	UNSOLD	45	2.60	2.17
	SOLD	9	2.60	2.23
327120	UNSOLD	109	2.00	2.07
	SOLD	16	2.00	2.03
3272	UNSOLD	18	2.00	2.00
	SOLD	6	2.00	2.08
3274	UNSOLD	5	2.04	2.03
	SOLD	5	2.01	2.02
4104003000	UNSOLD	66	1.10	1.28
	SOLD	33	2.01	1.81
4104011000	UNSOLD	5	1.00	1.12
	SOLD	9	1.58	1.58
4136001000	UNSOLD	15	1.35	1.35
	SOLD	7	1.35	1.35
4352	UNSOLD	23	2.01	2.01
	SOLD	17	2.01	2.01
5006003001	UNSOLD	6	1.07	1.08
	SOLD	12	1.26	1.26
5006006000	UNSOLD	7	1.00	1.04
	SOLD	10	1.14	1.14
5013004000	UNSOLD	5	1.00	1.00
	SOLD	17	1.33	1.57
707	UNSOLD	9	1.35	1.31
	SOLD	5	1.35	1.36
8312001000	UNSOLD	5	1.52	1.52
	SOLD	8	1.52	1.52
8462001000	UNSOLD	5	1.19	1.12
	SOLD	5	1.19	1.19
920001001	UNSOLD	1	1.37	1.37
	SOLD	7	1.37	1.35

There was no consistent pattern of sold properties being adjusted in value at a rate greater than unsold properties between the two base years. Overall, we concluded that the county assessor valued sold and unsold vacant properties consistently.

V. CONCLUSIONS

Based on this 2024 audit statistical analysis for Larimer County, residential, commercial industrial and vacant land properties were found to be in compliance with state guidelines.



STATISTICAL ABSTRACT

Residential

	Ratio Statistics for CURRTOT / TASP													
		95% Confiden Me	ice Interval for an		95% Confidence Interval for Median				95% Confiden Weighte				Coefficient of Variation	
ECONAREA	Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered	
	.748	.685	.811	.733	.627	.849	98.8%	.734	.670	.799	1.019	.100	12.5%	
1.00	.979	.977	.981	.985	.983	.986	95.2%	.967	.965	.970	1.012	.062	9.1%	
2.00	.978	.976	.980	.981	.979	.983	95.2%	.966	.963	.969	1.012	.060	9.0%	
3.00	.977	.966	.989	.986	.975	.998	95.3%	.953	.939	.967	1.026	.087	12.0%	
4.00	.978	.966	.989	.986	.976	.996	95.7%	.960	.949	.972	1.018	.093	13.9%	

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

Commercial Land

	Ratio Statistics for CURRTOT / TASP												
	95% Confidence Interval for Mean			95% Confidence Interval for Median			95% Confidence Interval for Weighted Mean				Coefficient of Variation		
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered	
.951	.936	.966	.975	.965	.981	95.7%	.916	.897	.934	1.039	.095	15.4%	

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

Vacant Land

vacan	Vacant Land											
	Ratio Statistics for CURRLND / TASP											
	95% Confider Me	nce Interval for ean		95% Cor	ifidence Interval fo	or Median		95% Confiden Weighte				Coefficient of Variation
Mean	Lower Bound	Upper Bound	Median	Lower Bound	Upper Bound	Actual Coverage	Weighted Mean	Lower Bound	Upper Bound	Price Related Differential	Coefficient of Dispersion	Mean Centered
.976	.960	.992	.990	.981	.996	95.8%	.924	.902	.947	1.056	.123	20.6%

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

Subclass Case Processing Summary

		Count	Percent
ABSTRIMP	1212.00	15175	99.9%
	1551.33	1	0.0%
	1712.00	1	0.0%
	1716.00	2	0.0%
	1721.00	1	0.0%
	2047.83	1	0.0%
	2054.50	1	0.0%
	2103.56	1	0.0%
	2215.00	2	0.0%
	9290.00	2	0.0%
Overall		15187	100.0%
Excluded		0	
Total		15187	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
1212.00	.983	1.013	.063	9.4%
1551.33	.779	1.000	.000	
1712.00	.803	1.000	.000	
1716.00	.983	.998	.010	1.4%
1721.00	.767	1.000	.000	
2047.83	.893	1.000	.000	
2054.50	1.043	1.000	.000	
2103.56	.982	1.000	.000	
2215.00	.854	.969	.103	14.5%
9290.00	.720	.924	.203	28.8%
Overall	.983	1.013	.063	9.4%

Age

		Count	Percent
AgeRec	Over 100	333	2.2%
	75 to 100	234	1.5%
	50 to 75	1095	7.2%
	25 to 50	3708	24.4%
	5 to 25	4800	31.6%
	5 or Newer	5017	33.0%
Overall		15187	100.0%
Excluded		0	
Total		15187	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Over 100	.971	1.036	.105	15.0%
75 to 100	.955	1.025	.108	15.5%
50 to 75	.980	1.019	.083	12.5%
25 to 50	.980	1.011	.068	10.1%
5 to 25	.984	1.012	.056	8.2%
5 or Newer	.984	1.012	.058	8.3%
Overall	.983	1.013	.063	9.4%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	21	0.1%
	500 to 1,000 sf	739	4.9%
	1,000 to 1,500 sf	3938	25.9%
	1,500 to 2,000 sf	5485	36.1%
	2,000 to 3,000 sf	4227	27.8%
	3,000 sf or Higher	777	5.1%
Overall		15187	100.0%
Excluded		0	
Total		15187	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	.999	1.039	.138	20.2%
500 to 1,000 sf	.964	1.012	.085	12.1%
1,000 to 1,500 sf	.978	1.006	.061	9.1%
1,500 to 2,000 sf	.986	1.007	.059	8.7%
2,000 to 3,000 sf	.986	1.016	.064	9.4%
3,000 sf or Higher	.975	1.025	.083	11.7%
Overall	.983	1.013	.063	9.4%

Improvement Quality

		Count	Percent
QUALITY	Average	11544	76.0%
	Average Plus	2345	15.4%
	Excellent	4	0.0%
	Fair	321	2.1%
	Good	735	4.8%
	Good Plus	168	1.1%
	Low	8	0.1%
	Very Good	62	0.4%
Overall		15187	100.0%
Excluded		0	
Total		15187	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Average	.983	1.007	.060	8.8%
Average Plus	.987	1.012	.065	9.4%
Excellent	.932	1.012	.072	8.3%
Fair	.979	1.020	.093	15.2%
Good	.971	1.023	.095	12.7%
Good Plus	.947	1.016	.087	11.8%
Low	.982	1.017	.095	14.9%
Very Good	.965	1.029	.105	15.1%
Overall	.983	1.013	.063	9.4%

Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	"Average "	2	0.0%
	Average	15153	99.8%
	Badly Worn	6	0.0%
	Good	22	0.1%
	Very Good	2	0.0%
	Worn Out	2	0.0%
Overall		15187	100.0%
Excluded		0	
Total		15187	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
"Average "	.818	.986	.057	8.0%
Average	.983	1.013	.063	9.4%
Badly Worn	.963	1.015	.052	7.0%
Good	.985	1.023	.095	15.7%
Very Good	.870	1.010	.021	2.9%
Worn Out	1.244	1.031	.059	8.3%
Overall	.983	1.013	.063	9.4%

Commercial Median Ratio Stratification

Sale Price

		Count	Percent
SPRec	\$25K to \$50K	1	0.3%
	\$50K to \$100K	4	1.1%
	\$100K to \$150K	7	1.9%
	\$150K to \$200K	11	3.0%
	\$200K to \$300K	30	8.1%
	\$300K to \$500K	67	18.0%



	\$500K to \$750K	63	16.9%
	\$750K to \$1,000K	32	8.6%
	Over \$1,000K	157	42.2%
Overall		372	100.0%
Excluded		0	
Total		372	

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
\$25K to \$50K	.920	1.000	.000	
\$50K to \$100K	1.043	1.043	.167	24.0%
\$100K to \$150K	.998	.999	.042	7.3%
\$150K to \$200K	1.002	1.000	.071	10.4%
\$200K to \$300K	.999	1.001	.085	14.9%
\$300K to \$500K	.981	.998	.080	12.3%
\$500K to \$750K	.981	1.001	.074	11.2%
\$750K to \$1,000K	.976	1.001	.140	24.1%
Over \$1,000K	.947	1.021	.099	15.5%
Overall	.975	1.039	.095	15.2%

Subclass

		Count	Percent
ABSTRIMP	.00	1	0.3%
	1212.00	2	0.5%
	1712.00	3	0.8%
	1716.00	1	0.3%
	2014.40	1	0.3%
	2156.31	1	0.3%
	2212.00	52	14.0%
	2215.00	6	1.6%
	2220.00	38	10.2%
	2223.50	1	0.3%
	2225.00	2	0.5%
	2228.62	1	0.3%
	2230.00	54	14.5%
	2235.00	52	14.0%
	2240.00	1	0.3%
	2245.00	144	38.7%
	3215.00	4	1.1%
	3230.00	4	1.1%
	9259.00	2	0.5%
	9279.00	2	0.5%
Overall		372	100.0%
Excluded		0	
Total		372	



		Deiss Deleted	0 #: -: + - +	Coefficient of
		Price Related	Coefficient of	Variation
Group	Median	Differential	Dispersion	Median Centered
.00	.924	1.000	.000	
1212.00	1.005	1.042	.079	11.2%
1712.00	.945	.963	.054	9.9%
1716.00	.959	1.000	.000	
2014.40	.900	1.000	.000	
2156.31	.965	1.000	.000	
2212.00	.939	1.016	.101	14.3%
2215.00	.941	1.007	.066	8.7%
2220.00	.924	1.030	.100	14.4%
2223.50	1.000	1.000	.000	
2225.00	.977	1.064	.090	12.7%
2228.62	.954	1.000	.000	
2230.00	.978	1.033	.096	16.4%
2235.00	.974	1.040	.092	16.9%
2240.00	.999	1.000	.000	
2245.00	.994	1.022	.088	14.6%
3215.00	.964	1.050	.058	9.9%
3230.00	.972	1.030	.036	4.9%
9259.00	.672	.890	.505	71.5%
9279.00	.892	1.113	.180	25.5%
Overall	.975	1.039	.095	15.2%

Age

Case Processing Summary

		Count	Percent
AgeRec	0	1	0.3%
	Over 100	35	9.4%
	75 to 100	8	2.2%
	50 to 75	55	14.8%
	25 to 50	103	27.7%
	5 to 25	140	37.6%
	5 or Newer	30	8.1%
Overall		372	100.0%
Excluded		0	
Total		372	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
0	.924	1.000	.000	<u> </u>
Over 100	.945	1.002	.111	14.6%
75 to 100	.927	1.084	.125	23.3%
50 to 75	.968	1.023	.103	16.1%
25 to 50	.973	1.017	.089	15.4%
5 to 25	.990	1.058	.084	13.7%
5 or Newer	.950	1.074	.113	19.3%
Overall	.975	1.039	.095	15.2%



Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	5	1.3%
	500 to 1,000 sf	29	7.8%
	1,000 to 1,500 sf	45	12.1%
	1,500 to 2,000 sf	41	11.0%
	2,000 to 3,000 sf	64	17.2%
	3,000 sf or Higher	188	50.5%
Overall		372	100.0%
Excluded		0	
Total		372	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LE 500 sf	.924	1.133	.160	29.8%
500 to 1,000 sf	.997	1.024	.084	13.1%
1,000 to 1,500 sf	.981	1.018	.076	11.7%
1,500 to 2,000 sf	.992	1.014	.074	11.9%
2,000 to 3,000 sf	.978	1.042	.098	15.7%
3,000 sf or Higher	.965	1.030	.101	16.6%
Overall	.975	1.039	.095	15.2%

Improvement Quality

Case Processing Summary

		Count	Percent
QUALITY	Average	261	70.2%
	Average Plus	44	11.8%
	Fair	10	2.7%
	Good	56	15.1%
	Very Good	1	0.3%
Overall		372	100.0%
Excluded		0	
Total		372	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
Average	.977	1.035	.094	15.6%
Average Plus	.978	1.043	.111	15.1%
Fair	.978	1.061	.130	22.7%
Good	.962	1.039	.073	11.6%
Very Good	.759	1.000	.000	
Overall	.975	1.039	.095	15.2%



Improvement Condition

Case Processing Summary

		Count	Percent
CONDITION	Average	337	90.6%
	Good	21	5.6%
	Very Good	14	3.8%
Overall		372	100.0%
Excluded		0	
Total		372	

Ratio Statistics for CURRTOT / TASP

		Price Related	Coefficient of	Coefficient of Variation
Group	Median	Differential	Dispersion	Median Centered
Average	.973	1.038	.097	15.7%
Good	.970	1.040	.090	12.5%
Very Good	.999	1.013	.039	5.8%
Overall	.975	1.039	.095	15.2%

Vacant Land Median Ratio Stratification

Sale Price

		Count	Percent
SPRec	LT \$25K	6	1.0%
	\$25K to \$50K	48	7.9%
	\$50K to \$100K	118	19.4%
	\$100K to \$150K	86	14.2%
	\$150K to \$200K	61	10.0%
	\$200K to \$300K	82	13.5%
	\$300K to \$500K	150	24.7%
	\$500K to \$750K	43	7.1%
	\$750K to \$1,000K	6	1.0%
	Over \$1,000K	7	1.2%
Overall		607	100.0%
Excluded		0	
Total		607	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
LT \$25K	1.139	.946	.218	29.3%
\$25K to \$50K	1.010	1.007	.179	29.6%
\$50K to \$100K	.999	1.004	.106	19.4%
\$100K to \$150K	.983	1.003	.105	17.4%
\$150K to \$200K	.983	.999	.106	19.1%
\$200K to \$300K	.997	.995	.118	19.6%
\$300K to \$500K	.978	1.001	.111	17.3%
\$500K to \$750K	.895	1.002	.117	14.9%
\$750K to \$1,000K	.747	.997	.194	24.2%
Over \$1,000K	.653	.995	.287	36.4%
Overall	.990	1.056	.123	20.4%

SubClass

		Count	Percent
ABSTRLND	100.00	282	46.5%
	200.00	22	3.6%
	400.00	43	7.1%
	510.00	5	0.8%
	520.00	7	1.2%
	530.00	3	0.5%
	540.00	11	1.8%
	550.00	43	7.1%
	1112.00	181	29.8%
	1115.00	2	0.3%
	1135.00	1	0.2%
	2112.00	3	0.5%
	2115.00	1	0.2%
	2130.00	2	0.3%
	2135.00	1	0.2%
Overall		607	100.0%
Excluded		0	
Total		607	



Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Median Centered
100.00	.992	1.062	.129	21.7%
200.00	.967	1.023	.176	25.7%
400.00	.994	1.102	.107	14.9%
510.00	.938	.975	.072	10.8%
520.00	.997	1.167	.231	53.4%
530.00	.993	.995	.065	13.2%
540.00	.957	1.100	.082	12.7%
550.00	.984	1.000	.138	22.7%
1112.00	.992	1.035	.104	15.9%
1115.00	1.085	1.014	.078	11.1%
1135.00	1.004	1.000	.000	
2112.00	.570	1.087	.279	44.4%
2115.00	.467	1.000	.000	
2130.00	1.001	1.000	.001	0.1%
2135.00	.953	1.000	.000	
Overall	.990	1.056	.123	20.4%