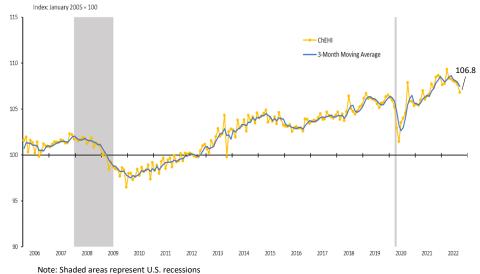
Cheyenne MSA Economic Indicators WYOGOV

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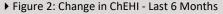
▶ Figure 1: Cheyenne Economic Health Index as of September 2022

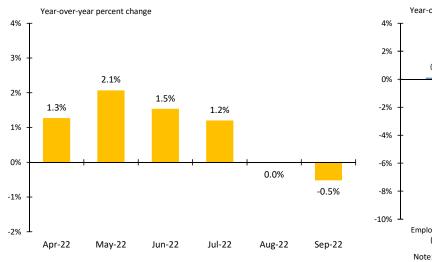


➡ SUMMARY: The Cheyenne Economic Health Index (ChEHI) reported a value of 106.8 in September 2022 (see Figure 1). This value was lower than the September 2021 value of 107.4.

➡ NOTE: The Cheyenne Economic Health Index combines four county-level economic indicators into one number in order to sum up the current economic conditions in Laramie County. The four economic indicators are (1) the monthly unemployment rate, (2) monthly total non-farm employment, (3) monthly sales and use (s&u) tax collections, and (4) the monthly median home sales price. All data used in the ChEHI are seasonally adjusted. Additionally, sales and use tax collection and home prices are inflation adjusted.

SOURCES: U.S. Bureau of Labor Statistics (1), (2); Wyoming Department of Revenue (3); Cheyenne Board of REALTORS (4).





▶ Figure 3: Change in Components of ChEHI - September 2022

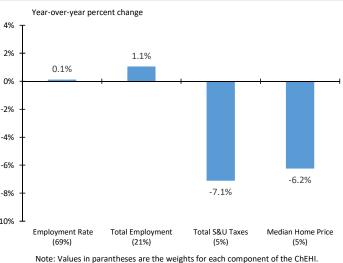
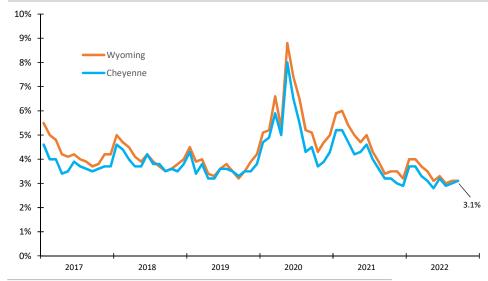


Figure 4: Laramie County and Wyoming Unemployment Rate (Not Seasonally Adjusted)



✤ As seen in Figure 2, in four of the past six months (April 2022 - September 2022), the ChEHI reported year-over-year increases, with the largest increase occurring in May (+2.1%).

>> Two of the four ChEHI components increased in September 2022 compared to September 2021, with total employment increasing the most, up 1.1% (see Figure 3). Total sales & use tax collections saw the largest decline, down 7.1%.

>> The unemployment rate for Laramie County in September 2022 was 3.1%, lower than the September 2021 rate of 3.2% and equal to the statewide September 2022 rate (see Figure 4).

Note: Both unemployment rates in Figure 4 are not seasonally adjusted.

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Figure 5. Laramie County Total Nonfarm Employment (Seasonally Adjusted)

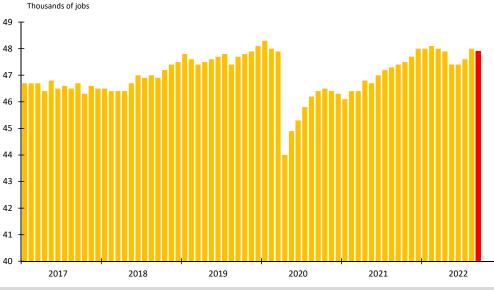


Figure 6. Laramie County 4% Sales and Use Tax Collections (1-Month Lag)

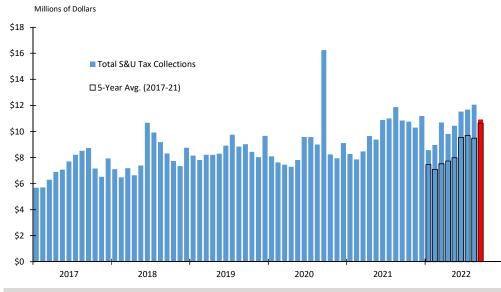


Figure 7. Change in Laramie County Median Home Sales Price

Year-over-year percent change 30% 25% 20% 15% 10% 5% 0% -5% -10% -15% 2016 2017 2018 2019 2020 2021 2022 ➤ The total number of nonfarm payroll jobs in September 2022 was 47,900, higher than the September 2021 number by 500 (+1.1%) (see Figure 5).

By September 2022, Laramie County has recovered all of the 4,000 jobs lost during the worst parts of the pandemic (March 2020-April 2020).

➤ NOTE: MSA stands for Metropolitan Statistical Area. The Cheyenne MSA covers all of Laramie County.

▶ Laramie County's collection of the 4% sales and use tax was \$10.9 million in September 2022, \$0.1 million more than September 2021 (see Figure 6). Through September 2022 (January-September), total collections summed to \$94.7 million, \$17.5 million more (+22.7%) than the 5-year average sum through September.

Note: The value for September 2022 in Figure 6 is actually collections from October 2022 because there is approximately a 1-month lag between collections and sales activity.

Note: Although September year-over-year sales & use tax collections slightly increased, the total sales & use tax component of the ChEHI decreased. This is due to the inflation adjustment in the ChEHI.

➤ Laramie County's median home sales price was \$345,000 in September 2022, 1.5% higher than September 2021 (see Figure 7). This is the 49th consecutive month of year-over-year increases in median home sales prices. However, the last two months have recorded year-over-year increases less than 2%, potentially signaling a slowdown in the Laramie County housing market.

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02

Cheyenne Economic Health Index Addendum

The Cheyenne Economic Health Index (ChEHI) is a coincident economic indicator designed to provide a current assessment of Laramie County's economy. There are four components of the ChEHI. The first two components, unemployment rate and total nonfarm employment, are included to capture overall labor market activity for Laramie County. The third component, sales and use tax collections, captures economic activity related to taxable sales in Laramie County. The fourth component, median home sales price, serves as a proxy for the housing market.

Unemployment Rate: The first component of the ChEHI is the unemployment rate. This statistic measures the percentage of people in Laramie County actively looking for work but do not have jobs. In the ChEHI model, the employment rate (100% minus the unemployment rate) is indexed rather than the unemployment rate because an increase in the employment rate, similar to an increase in total employment, sales and use tax collections, and home prices, is considered to be a positive for the county's economy. The unemployment rate is available monthly, not seasonally adjusted, from the U.S. Bureau of Labor Statistics. The data is then seasonally adjusted.

Total Nonfarm Employment: The second component of the ChEHI is total nonfarm employment. This statistic measures the number of people who have wage or salary jobs in Laramie County. The total nonfarm employment is available monthly, seasonally adjusted, from the U.S. Bureau of Labor Statistics.

Sales & Use Tax: The third component of the ChEHI is the sales and use tax collected from the state's 4 percent tax rate. Because sales and use tax collections the county receives for a given month represent transactions that took place 4 to 6 weeks prior, the data is lagged one month in the ChEHI model. This statistic is available monthly from the State of Wyoming's Department of Revenue. The data is adjusted for inflation using the Consumer Price Index for All Urban Consumers from the U.S. Bureau of Labor Statistics. The data is also seasonally adjusted.

Median Home Sales Price: The fourth component of the ChEHI is the median home sales price. This statistic is available monthly from the Cheyenne Board of REALTORS. This variable is defined as the median sales price for a single family, non-rural residential home. The data is adjusted for inflation using the Consumer Price Index for All Urban Consumers from the U.S. Bureau of Labor Statistics. The data is also seasonally adjusted.

Methodology: Each series for the components discussed above are standardized starting in January 2005, resulting in a value of 100 for each component and the ChEHI. As each component changes from month to month, the ChEHI value changes. Next, the standard deviation of each component's standardized series values is calculated, followed by the calculation of the inverse of each component's standard deviation. Lastly, the individual inverse standard deviations are standardized, resulting in weights that sum to 1. The rationale for this weighting approach is that the components that are more stable over time will have a smaller standard deviation and thus, a larger inverse standard deviation and weight. A large shift in a typically stable data series would provide a better signal of a change in the economy than a large shift in a data series that typically has large fluctuations. Therefore, this weighting approach allows the ChEHI to put a larger weight on the more stable components so that if they do experience a large shift, the ChEHI's value will be affected more to represent the change in the county's economic conditions.