# Review of Colorado Economy Through August 2021



## Highlights

#### **Key Points – United States**

- Through the first eight months of 2021, the U.S. added about 4.7 million jobs, or about 600,000 workers each month. Growth continues to be uneven across geographies, industries, and occupations.
- The fast-paced recovery is masking problems that are preventing faster growth.
- Some industries are currently adding jobs at a rate below prepandemic levels.
- Consumer spending will increase at a slower rate in Q4.
- The price of oil is much higher than anticipated. It has been above \$60 per barrel since April 2021.
- The Federal Reserve says inflation is a short-term annoyance, and rates will decline in 2022.
- The change in the national indicators over the past month is mixed. Slower growth is expected in the months ahead.

### **Key Points - Colorado**

- Through the first eight months of 2021, Colorado added 109,900 jobs. Sectors with higher average wages have recovered at a faster rate. The current data understates the rate of employment growth.
- During the first half of the year, the Colorado inflation rate was 1.9% compared to 3.5% for the U.S. It will be higher in the second half of 2021.
- Colorado retail sales are strong.
- Oil production has slipped to 2017 levels.
- The number of passengers at DIA continues to increase.
- Through Q2, the number of housing permits is above the level for the same period in 2020 despite rising input costs and supply chain disruptions.

### Overview

The purpose of this chartbook is to review U.S. and Colorado data that show how both economies are recovering from COVID-19 policies.

In August, U.S. employment growth was underwhelming. There are different rates of recovery by industry sectors, occupations, states, and MSA areas.

The underlying story for the month is that the U.S. labor market and economic growth will increase at a slower rate during the second half of the year.

Colorado seasonally adjusted data increased by 5,600 in August, slightly above the average monthly growth rate for 2019.

#### Chartbook Highlights

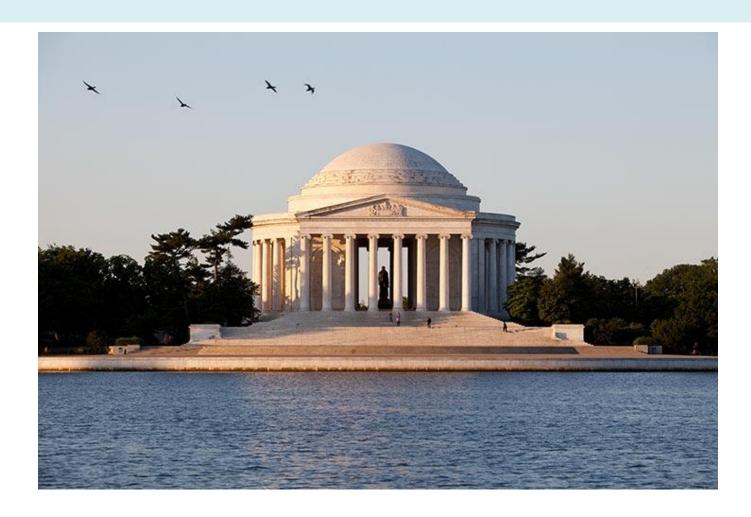
#### **United States**

- Real GDP
- Employment and Unemployment
- Major Indices
- S&P 500 and WTI Oil Prices

#### Colorado

- Colorado Employment
- Select Industry Data
- Summary Colorado

## The United States Economy



# Real Gross Domestic Product United States

### **Key Points**

As expected, the economy is expanding at a slower rate in the second half of 2021.

Real GDP will grow by 5.8% in 2021, with increased consumer spending of 8.1%.

Total U.S. employment will return to pre-COVID levels in 2022.

### U.S. Real GDP Growth

### The Conference Board Forecast (September 15, 2021)

#### Real GDP and Economic Growth in 2021

The latest Conference Board forecast calls for real GDP growth of 5.5% in Q3 2021, followed by 3.9% in Q4. Real GDP growth for 2021 will be 5.9%, with an increase in personal consumption of 8.1%. Consumer spending will grow at a slower rate because much pent-up demand has been satisfied. The unemployment rate will fall to 3.8% in 2022.

#### Other Economic Factors

The Delta variant of COVID 19 is partially responsible for a slower rate of economic growth. The rapid increase in spending during the first half of 2021 has led to increased inflation. The disruptions in the supply chain will subside, and inflation will fall back to 2.5% next year. Continued government spending will support economic growth in 2022 and beyond.

#### **Conference Board US Real GDP Growth Forecast**

	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	2020	2021	2022
Real GDP	- 5.1%	- 31.2%	33.8%	4.5%	6.3%	6.5%	5.5%	3.9%	- 3.4%	5.9%	3.8 %
Personal Consumption	- 6.9%	- 33.4%	41.4%	3.4%	11.4%	11.9%	3.0%	4.1%	- 3.8%	8.1%	4.1%
Residential Investment	20.3%	- 30.8%	60.0%	34.4%	13.3%	-11.5%	-1.0%	3.0%	6.8%	10.3%	1.0%
Nonresidential Investment	-8.3%	-30.3%	18.7%	12.5%	12.9%	9.3%	5.4%	0.9%	-5.3%	7.4%	4.8%
Total Gov't. Spending	3.7%	3.9%	-2.1%	-0.5%	4.2%	-1.9%	1.4%	2.0%	2.5%	0.9%	2.4%
Exports	-16.3%	- 59.9%	54.5%	22.5%	-2.9%	6.6%	4.1%	5.1%	- 13.6%	4.6%	5.8%
Unemployment Rate	3.8%	13.1%	8.8%	6.8%	6.2%	5.9%	5.2%	4.8%	8.1%	5.6%	3.8%
PCE Inflation (%Y/Y)	1.7%	0.6%	1.2%	1.2%	1.8%	3.9%	4.1%	4.3%	1.2%	3.5%	2.9%
Core PCE Inflation (%Y/Y)	1.8%	1.0%	1.5%	1.4%	1.7%	3.4%	3.6%	3.9%	1.4%	3.1%	2.5%

Source: The Conference Board and cber.co.

Source: The Conference Board, <a href="https://www.conference-board.org/publications/Economic-Forecast-US">https://www.conference-board.org/publications/Economic-Forecast-US</a>, <a href="https://www.conference-board.org/publications/Economic-Forecast-US">ht

# Employment and Unemployment United States and Colorado

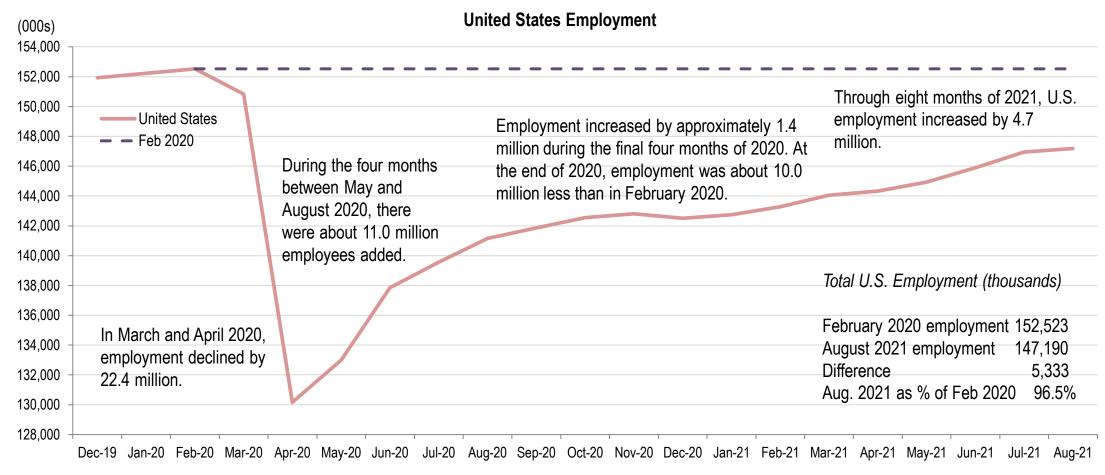
#### **Key Points**

U.S. employment has increased by 4.7 million through the first eight months of 2021.

The Colorado unemployment rate is greater than the U.S. rate.

The number of job openings is at record levels.

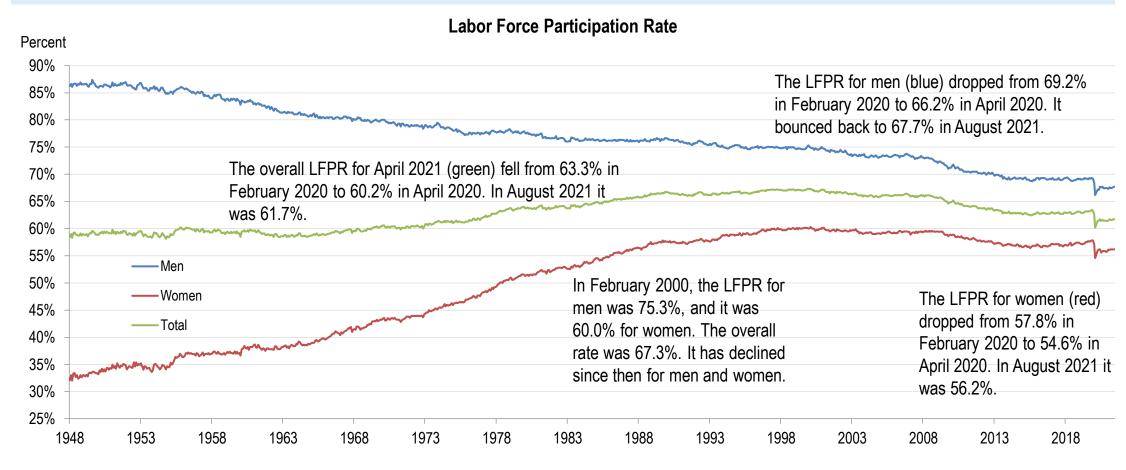
# Employment United States



Source: Bureau of Labor Statistics, cber.co.

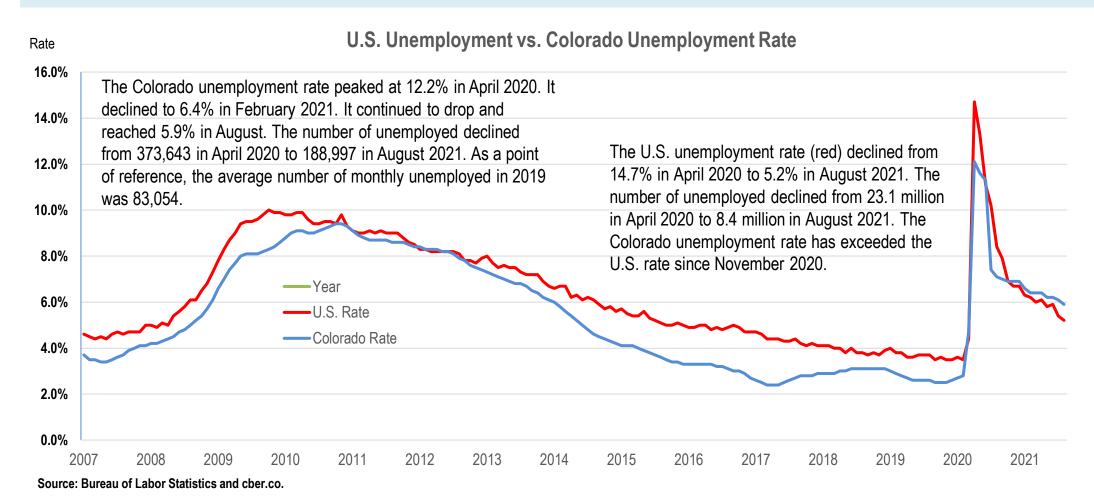
## Labor Force Participation Rate (LFPR)

United States Total, Men, and Women



Source: FRED, BLS, cber.co.

## U.S. and Colorado Unemployment Rate



# Job Openings and Separations United States

2010

#### **U.S. Job Openings and Separations** (000s)16,500 On May 2020, the number of job openings exceeded the 15,000 number of separations by 829,000. By July 2021, there were almost 11.0 million job openings, and the number of 13,500 Between April 2014 and March 2020, the unemployment job openings was 5.1 million greater than the separations. rate was low, and openings (blue) exceeded separations 12,000 (red). As a result of COVID-19 policies, there were 28.1 million total separations in March and April 2020. 10.500 Many businesses cannot find qualified workers 9,000 despite an unemployment rate of 5.2% and over 8.4 million unemployed. 7,500 **Openings** Separations 6,000 4,500 3,000

2014

2016

2018

2020

2012

Source: JOLTS, BLS, cber.co.

1,500

2006

2008

### Major Indices

NAHB, Consumer Sentiment Index, NFIB Small Business Optimism Index, and Manufacturing and Services PMI Indices

### **Key Points**

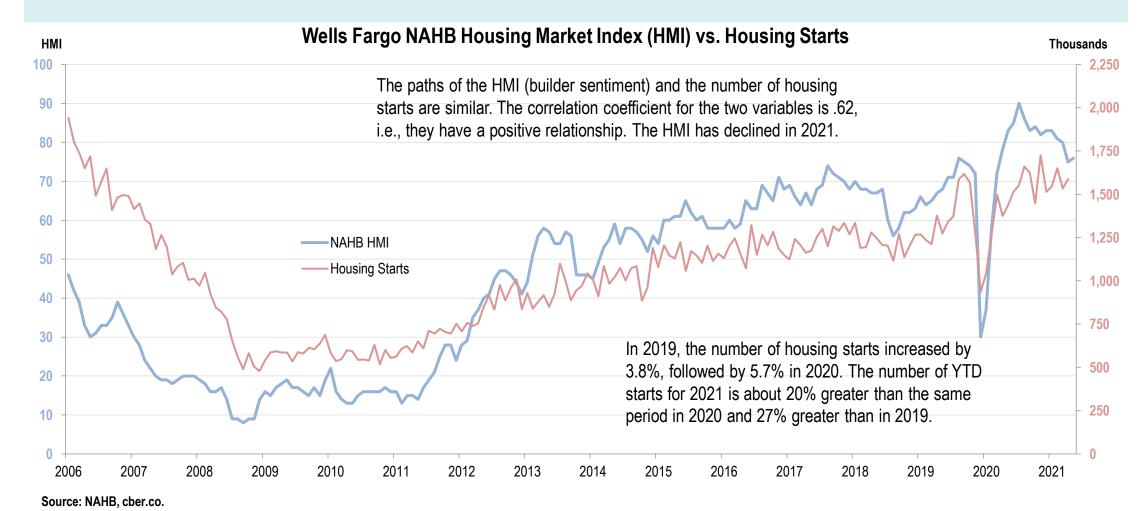
Optimism for the housing market has slipped as the year has progressed, but housing starts are strong.

The Michigan Consumer Sentiment Index plummeted in August, dropping to its lowest level in over a decade.

The NFIB Small Business Optimism Index increased slightly in August. There are concerns about labor, the cost of labor, and the impact of inflation.

The indices for manufacturing and services have been in expansionary territory for 15 consecutive months.

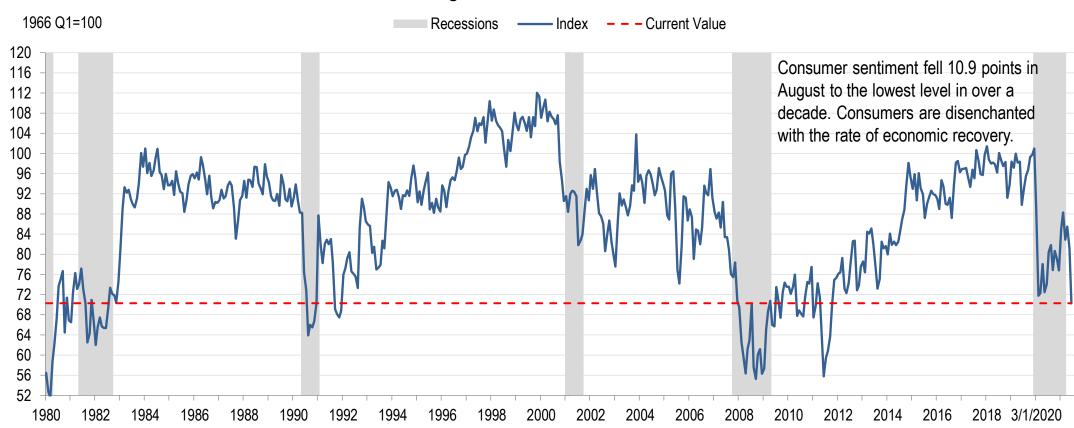
## Wells Fargo NAHB HMI vs. Housing Starts



### Consumer Sentiment Index

### University of Michigan

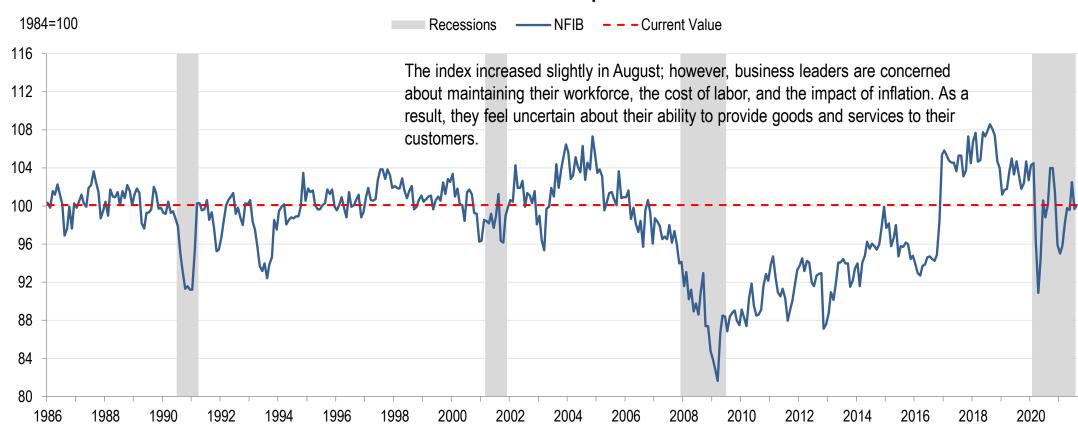
### **Michigan Consumer Sentiment Index**



Source: University of Michigan, cber.co.

# NFIB Small Business Optimism Index United States

### **NFIB Small Business Optimism Index**

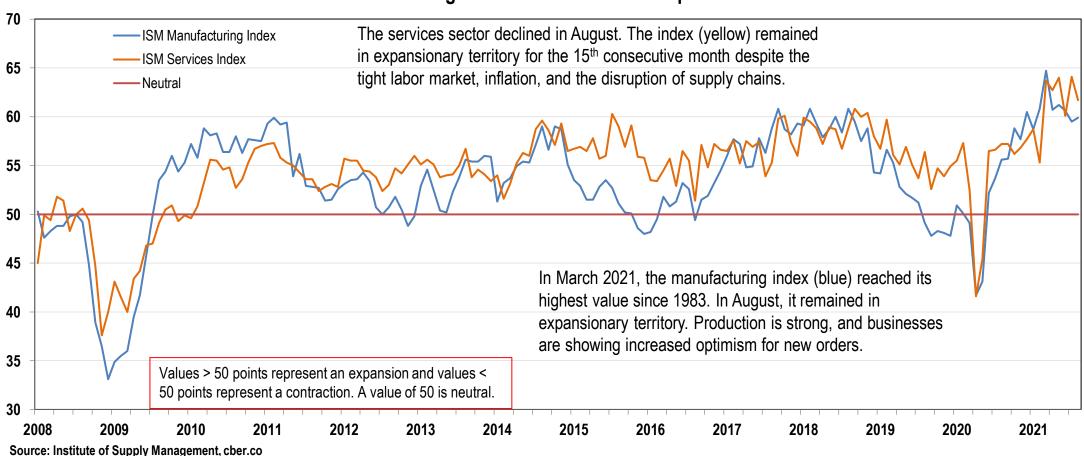


Source: NFIB, cber.co.

## ISM PMI Composite Indices

Manufacturing vs. Services

### ISM Manufacturing PMI vs. Services PMI Composite Indices



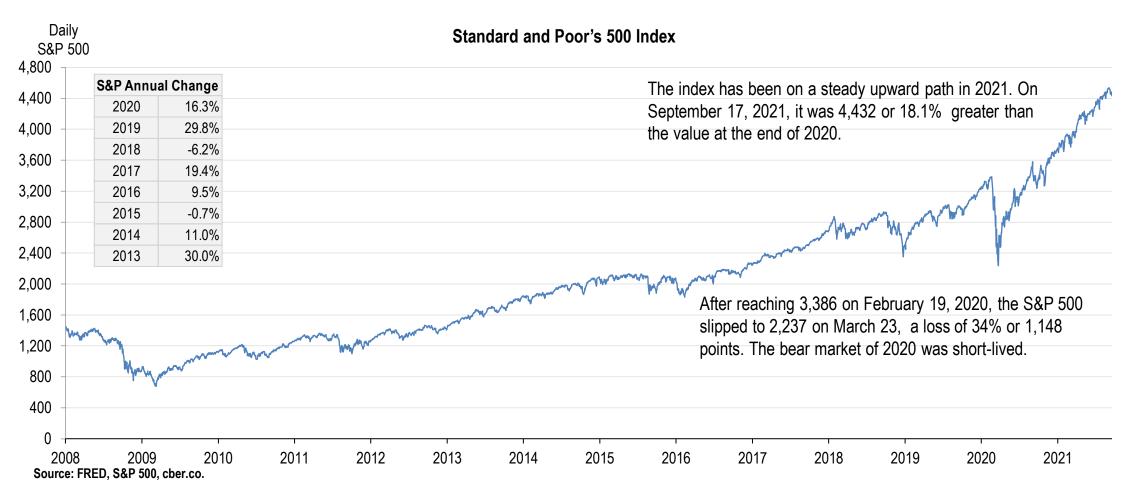
### S&P 500 Index and WTI Crude Oil Prices

#### **Key Points**

The S&P Index posted double-digit gains in 2020. Strong growth has continued in 2021, although the market stalled in mid-September.

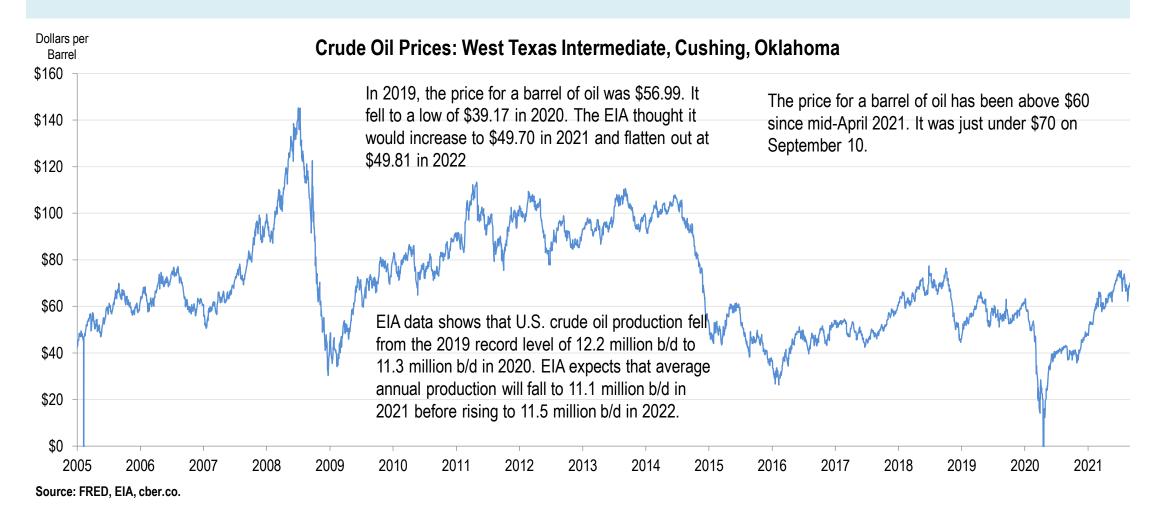
In 2020 the price for a barrel of oil declined because of lower demand. As the economy opened, demand increased. The price has been above \$60 per barrel since mid-April.

### Standard and Poor's 500 Index

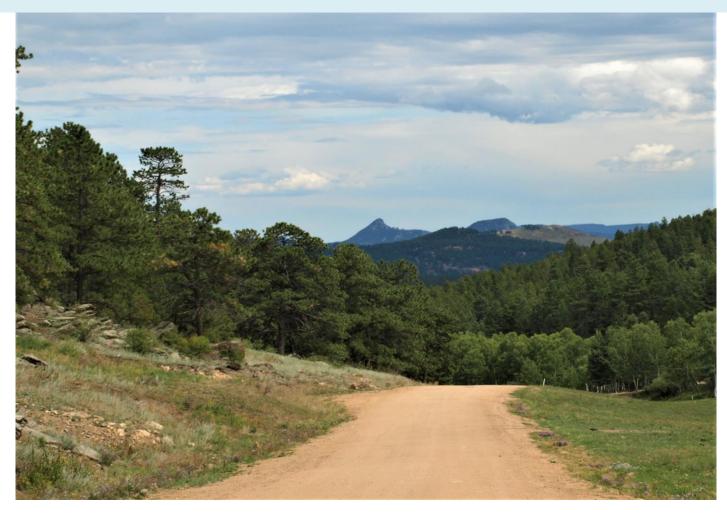


### Crude Oil Prices

### West Texas Intermediate



## Colorado



## Colorado Employment

Colorado Employment, Labor Force Participation Rate (LFPR), and Summary of Employment

#### **Key Points**

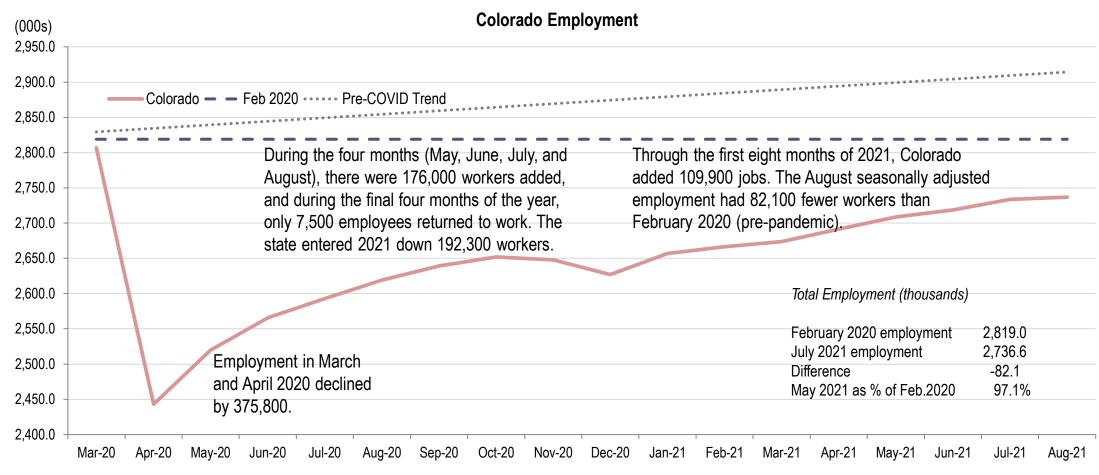
The August 2021 seasonally adjusted CES employment for Colorado was 85,400 less than February 2020.

The projected August 2021 CES benchmark employment for Colorado was 55,700 less than February 2020.

The level of employment has increased at a faster rate than expected during the first half of the year.

The LFPR has declined for four consecutive months.

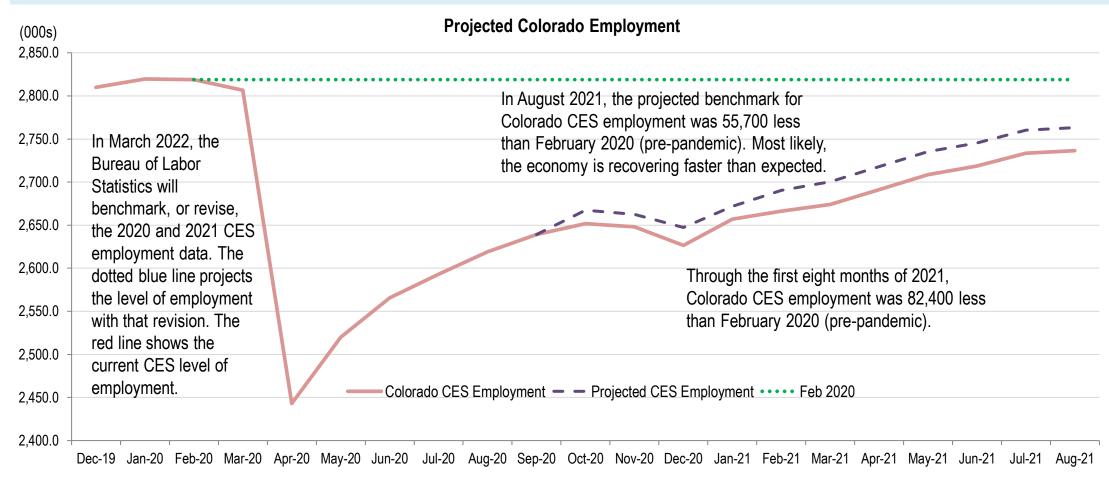
# Employment Colorado



Source: Bureau of Labor Statistics, cber.co.

### Projected Colorado CES Employment

### Based on Q1 Benchmark



Source: Bureau of Labor Statistics, cber.co.

## Change in Employment Current vs. February 2020

CES vs. Projected CES After Benchmark

The following table shows the changes in employment for August vs. February 2020. It includes both the changes in the current CES and the projected CES employment, based on Q1 2021 QCEW data.

Change in Colorado Employment							
		Ū		Projected			
	Feb 2020	Aug 2021	Aug vs. Feb.	August 2021	Aug. vs. Feb.		
Total	2,819.0	2,736.6	(82.4)	2,763.3	(55.7)		
Extractive Industries	26.2	20.0	(6.2)	19.9	(6.3)		
Construction	179.3	170.5	(8.8)	175.2	(4.1)		
Manufacturing	151.6	145.4	(6.2)	147.0	(4.6)		
Transp, Wareh, Util	482.6	487.3	4.7	485.9	3.3		
Information	78.0	73.9	(4.1)	76.5	(1.5)		
Financial Activities	176.1	173.0	(3.1)	176.9	0.8		
PBS	447.5	449.1	1.6	455.1	7.6		
EHS	353.9	343.7	(10.2)	348.1	(5.8)		
LHS	346.9	314.0	(32.9)	317.3	(29.6)		
Other	115.7	111.7	(4.0)	114.3	(1.4)		
Govt	461.2	448.0	(13.2)	447.0	(14.2)		

Super sectors that are understated:

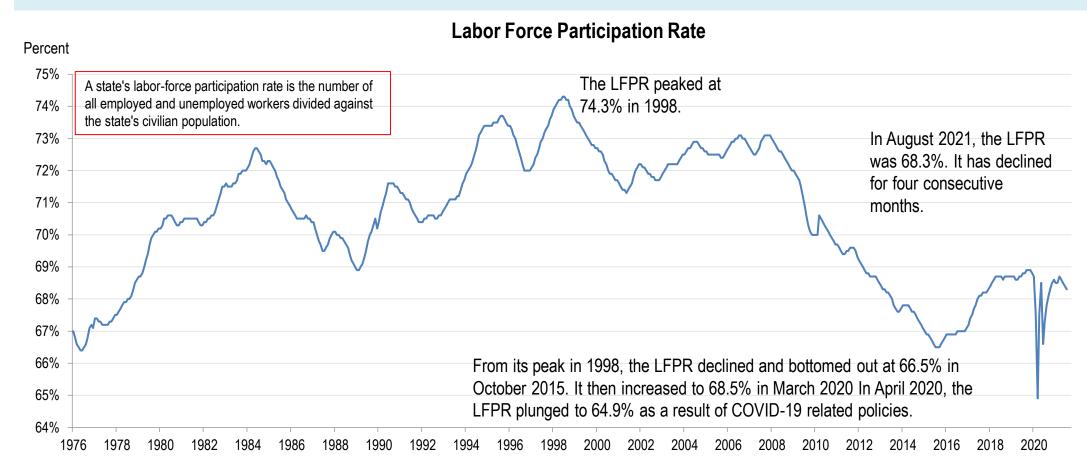
- Construction
- Manufacturing
- Information
- Financial activities
- Professional and business services
- Education (private) and health services
- Leisure and hospitality services
- Other services

Super sectors that are overstated:

- Extractive industries
- Transportation, warehousing, and utilities
- Government

Overall, the Colorado labor market will recover by Q2 or Q3 of 2022. Some sectors will take much longer, or they may not ever return to their prepandemic levels.

# Labor Force Participation Rate Colorado



Source: BLS, cber.co.

## Select Industry Data

Retail Sales, Inflation, DIA Passengers, Building Permits, and Oil Production

#### **Key Points**

Retail sales have rebounded after a sluggish start in 2021.

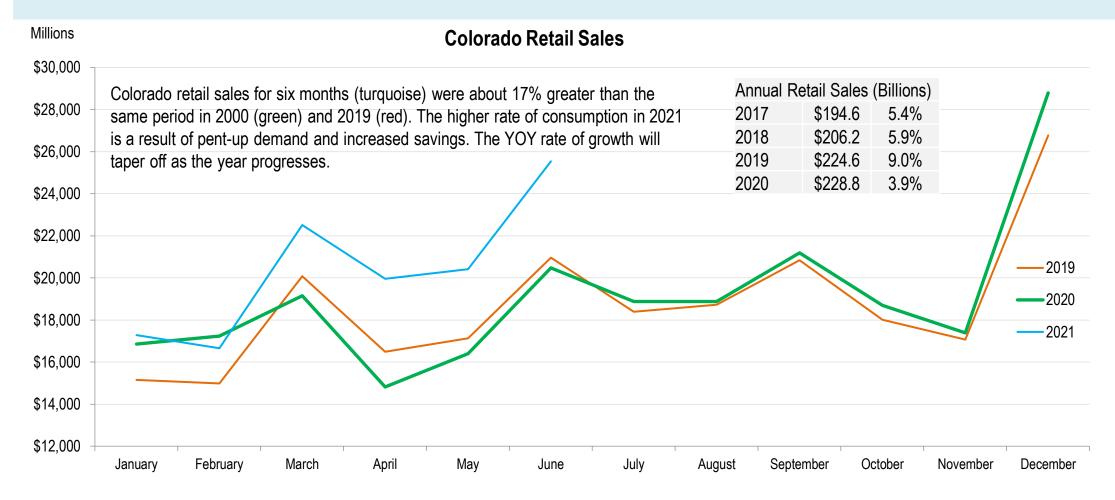
Inflation has risen rapidly in recent months.

The number of passengers at DIA continues to increase.

The total number of permits issued for single-family and multifamily housing through Q2 2021 is significantly greater than the same period in 2020.

The production of oil in Colorado is trending downwards because of state regulations and reduced global demand.

## Colorado Retail Sales Monthly



### Inflation

Last fall, some of the country's top economists said that pigs would fly before inflation rose significantly. They have recently indicated the flight time of the pigs will be short-lived and inflation will begin to decrease in 2022.

The following are examples of the YOY increase in inflation in Colorado for July 2021. The next update for Colorado will be in September.

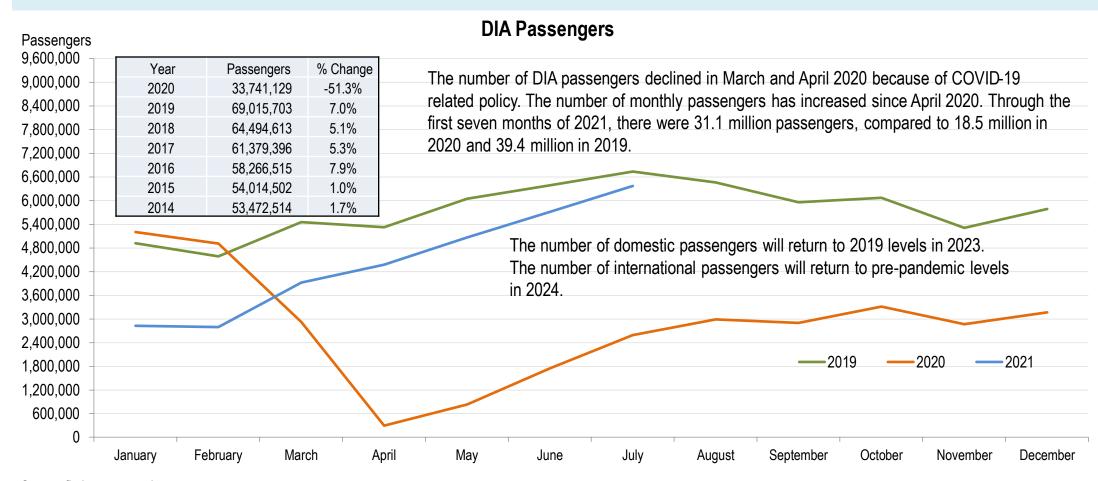
Recreation	4.0%	Household Energy	6.5%
Medical	3.8%	Food and Beverage	2.6%
Housing	1.5%	Household Furnishing	3.4%
Food at home	4.0%	Transportation	15.6%
School fees/childcare	0.6%	Apparel	15.0%
Electricity	2.2%	Used Vehicles	41.7%
Alcoholic Beverages	3.3%	Motor Fuel	37.7%

The U.S. CPI for the first half of 2021 was 3.5% and 1.9% for Colorado. The U.S. rate was 5.3% for July and August, and the Colorado rate was 3.5% for July.

Source: BLS, cber.co.

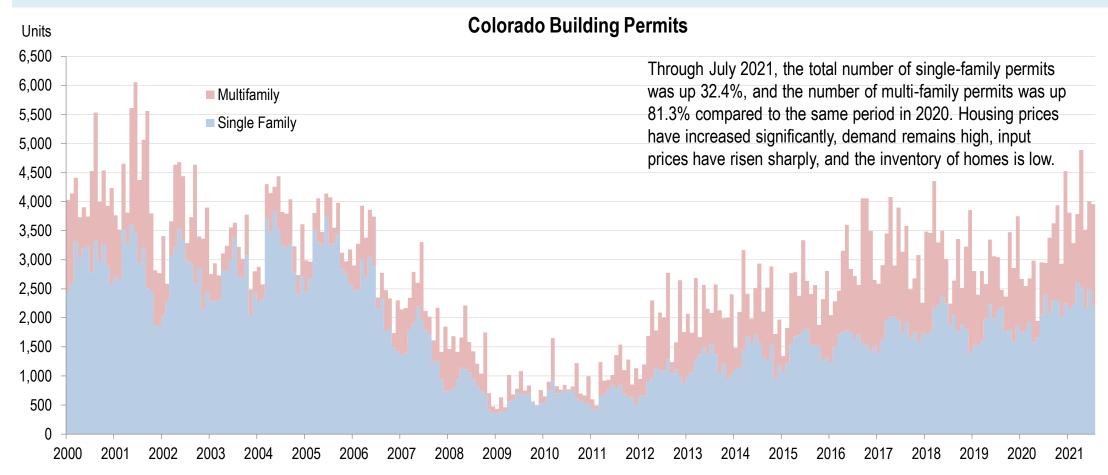


# Denver International Airport Passengers Monthly



Source: flydenver.com, cber.co.

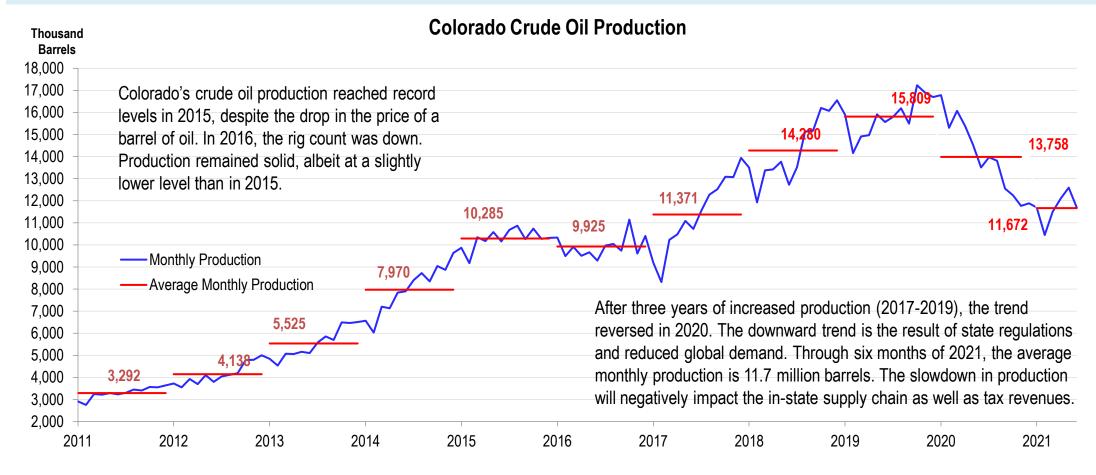
# Colorado Residential Building Permits Units



Source: TAMU Real Estate Center, U.S. Census Bureau, cber.co.

### Colorado Field Production of Crude Oil

2011 to 2021 (Thousand Barrels)



Source: EIA, cber.co.

# Summary

## Summary of Colorado Forecast

Colorado's real GDP growth rate will be slightly higher than the U.S. rate in 2021 and 2022.

Employment will return to its 2019 level in 2022. It has been stronger than expected in the first half of the year. It will not maintain the current pace in the final quarter of the year.

Retail sales have rebounded in 2021 as a result of pent-up demand.

In 2021 and 2022, Colorado inflation will be greater than in recent years. This will be a headwind to economic growth.

Colorado Economic Forecast								
	2019	2020	2021	2022				
Real GDP Value (billions)	\$356.28	\$351.07	\$379.00	\$398.00				
% Change Real GDP	3.9%	-1.5%	8.0%	5.0%				
CES Employment (thousands)	2,790.1	2,644.6	2,728.6	2,794.6				
Annual Change (thousands)	62.8	(145.5)	134.0	56.0				
% Change	2.3%	-5.2%	5.1%	2.0%				
Unemployment Rate	2.7%	7.3%	6.1%	5.1%				
Retail Sales (billions)	\$224.6	\$227.0	\$252.0	\$262.0				
% Change	9.0%	1.1%	11.0%	4.0%				
Consumer Price Index	1.9%	2.0%	3.2%	2.6%				
DIA Passengers (millions)	69.0	33.0	52.0	61.0				
Single Family Permits	24,756	26,489	28,900	27,350				
Multi-family Permits	13,877	13,738	14,950	14,200				
Oil Production (thousands) barrels	189,707	172,000	155,000	165,000				

In 2020, the number of passengers through DIA was about half of the 2019 total. Domestic flights will return to their 2019 level in 2023. International flights will return to their pre-pandemic level in 2024.

There was an increase in the number of building permits issued in 2020. There will be more permits issued in 2021 as demand for new homes remains high. Also, there is a need for affordable housing in many metro and mountain communities.

State regulations and reduced demand caused a decline in oil production in 2020 and 2021. Oil production will increase slightly in 2022.

#### cber.co Review of Colorado Economy Through August 2021

This analysis is for informational purposes only. Any opinions or interpretations of data are those of the presenter. As such, they do not represent the viewpoints of any group or particular organization.

For further information contact Colorado-based Business and Economic Research (cber.co).

© Copyright 2020 by cber.co.

Data contained in the tables, charts, and text of this presentation is from sources in the public domain. With appropriate credit, it may be reproduced and shared without permission. Please reference, "Colorado-based Business and Economic Research" (cber.co). Additional presentations are available at <a href="https://cber.co">https://cber.co</a>.

For additional information contact cber.co at <a href="mailto:cber.co">cber.co</a> or gary@garyhorvath.com.

#### **ACKNOWLEDGEMENTS**

A special thank you to Ana and Allyson Horvath for their review and comments on this publication.

#### **ABOUT THE AUTHOR**

Gary Horvath has produced annual employment forecasts of the state economy for over 30 years. They have been supplemented by monthly economic updates and indices that track economic performance over the short term. In addition, he has directed three statewide analyses that included reviews of all 64 county economies.

Horvath was the principal investigator for a state and federally funded project to prepare a nanotechnology roadmap for Colorado. As well, he was a co-founder of the Colorado Photonics Industry Association, a trade group for Colorado's Photonics cluster. Horvath has been an active board member of the group since its inception.

Horvath has also served on the Board of Directors for the Economic Development Council of Colorado, Northwest Denver Business Partnership, Adams County Economic Development, and Broomfield Economic Development Corporation. Horvath has also been the chair of the photonics/electronics committee in the Governor's Office of Economic Development and International Trade early stage and proof of concept grant program.