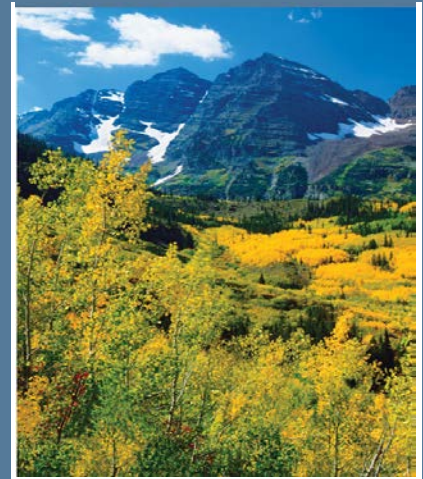


# THE *Colorado* ECONOMIC DATABOOK

*A summary of regional economic indicators  
for the state of Colorado*



OCTOBER 24, 2017

FEDERAL RESERVE BANK of KANSAS CITY

## **SUMMARY OF CURRENT COLORADO ECONOMIC CONDITIONS**

In Colorado, the unemployment rate was 2.5 percent in September, and total payroll employment grew 1.6 percent compared to the previous year. Employment growth was broad-based across industries, with the strongest gains in the professional and business services and transportation and warehousing sectors. Colorado nominal personal income grew 3.9 percent in the second quarter of 2017 compared to the previous year, with workplace earnings up 4.4 percent. Home prices increased 10.4 percent in the second quarter of 2017 compared to a year ago, while single-family and multifamily permits recorded a 13.3 and 51.9 percent change, respectively, year-to-date through August 2017. In July 2017, crude oil production was up 6.8 percent over last year, while rig counts were well above year-ago levels. Colorado exports were 7.7 percent higher in the second quarter of 2017 compared to the same period last year.

This databook provides current economic indicators to help monitor trends and allow comparison of past information. These indicators include: employment; employment by industry; county and state unemployment; personal income; home prices; housing indicators; manufacturing activity; oil, gas and coal production; and exports. These indicators can be found on the following pages.



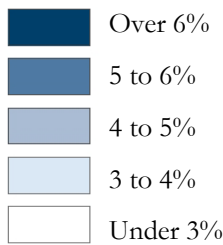
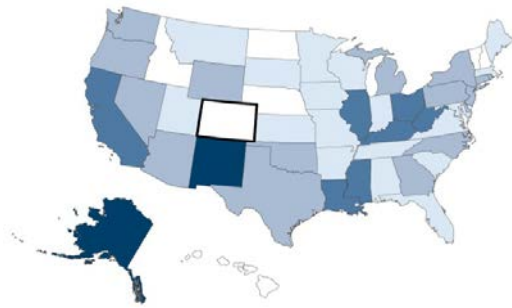
Alison Felix is Vice President and Denver Branch Executive. In this role, Felix is the Federal Reserve Bank of Kansas City's regional economist and lead officer in Colorado, Wyoming and northern New Mexico. She is responsible for briefing the Kansas City Fed's President on the economy in these states and the Tenth District.

**Unemployment Rates**

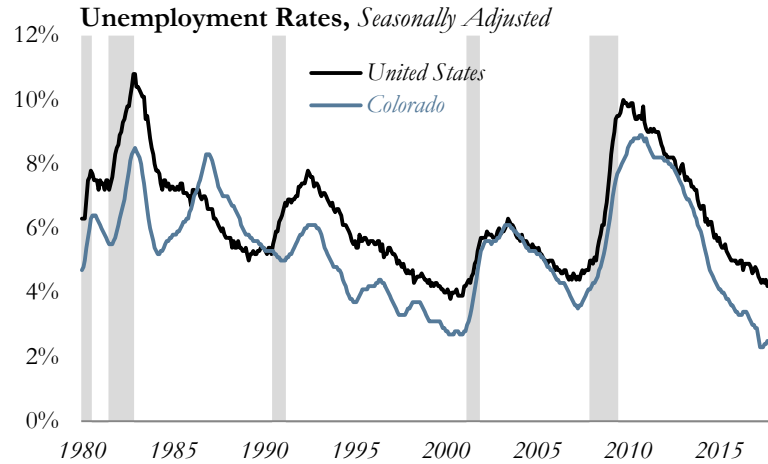
*Seasonally Adjusted*

**September 2017 Unemployment Rates**

*Seasonally Adjusted*



September 2017		
	United States	Colorado
Unemployment Rate	4.2%	2.5%
Unemployment Rate, Last Year	4.9%	3.2%



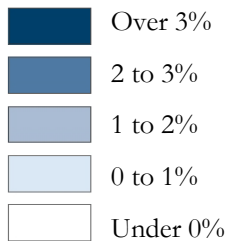
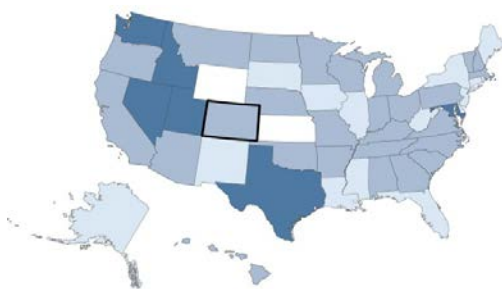
Note: Gray bars indicate recession.

**Payroll Employment**

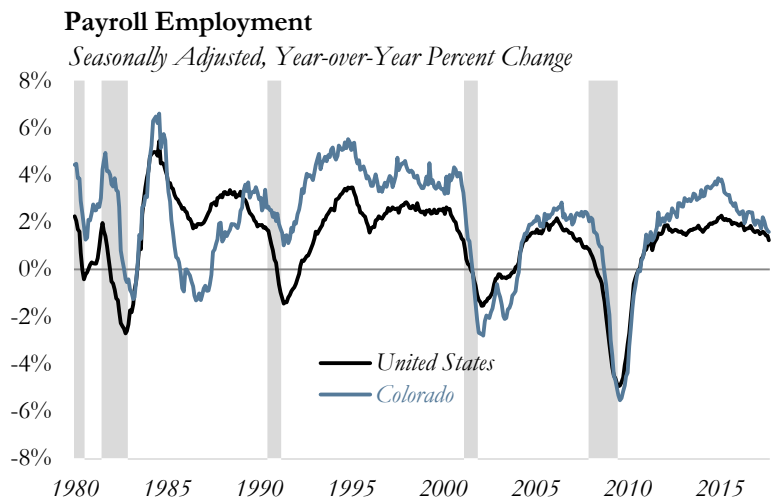
*Seasonally Adjusted*

**September 2017 Payroll Employment**

*Seasonally Adjusted, Year-over-Year Percent Change*



September 2017		
	United States	Colorado
Jobs (Thousands)	146,659.0	2,656.2
Change from Last Year	1.2%	1.6%



Note: Gray bars indicate recession.

Source: Bureau of Labor Statistics/Haver Analytics

**August 2017 Unemployment Rates & Civilian Labor Force**  
*Seasonally Adjusted*



		<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>			<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>
	<b>United States</b>	<b>4.4%</b>	<b>160,571.0</b>	25	Pitkin	2.6	11.0
	<b>Colorado</b>	<b>2.4</b>	<b>2,991.9</b>	26	Adams	2.6	262.9
1	Huerfano	4.9	2.5	27	Garfield	2.6	31.3
2	Saguache	4.0	3.2	28	Dolores	2.4	1.1
3	Rio Grande	3.9	5.3	29	Denver	2.3	399.2
4	Pueblo	3.8	74.6	30	Bent	2.3	1.9
5	Otero	3.7	8.2	31	Arapahoe	2.3	355.1
6	Fremont	3.6	14.8	32	Broomfield	2.2	38.0
7	Las Animas	3.6	6.0	33	Weld	2.2	156.3
8	Conejos	3.6	3.8	34	Jefferson	2.2	328.1
9	Mesa	3.3	72.4	35	La Plata	2.2	31.3
10	Delta	3.3	14.0	36	Routt	2.1	15.2
11	Rio Blanco	3.3	2.7	37	Chaffee	2.1	9.2
12	Montezuma	3.3	13.0	38	Grand	2.1	9.4
13	Costilla	3.1	1.8	39	Clear Creek	2.1	5.9
14	Crowley	3.0	1.4	40	Prowers	2.1	6.1
15	Ouray	3.0	2.2	41	Park	2.1	9.9
16	Montrose	2.9	20.7	42	Eagle	2.1	34.5
17	San Juan	2.9	0.6	43	Elbert	2.0	14.3
18	Teller	2.9	12.0	44	Lincoln	2.0	2.3
19	Moffat	2.8	7.2	45	Morgan	2.0	15.2
20	Alamosa	2.8	8.0	46	Mineral	2.0	0.5
21	El Paso	2.8	325.6	47	Douglas	2.0	183.6
22	Archuleta	2.7	6.5	48	Larimer	1.9	199.4
23	Custer	2.7	1.9	49	Lake	1.9	4.6
24	San Miguel	2.7	5.3	50	Logan	1.9	10.9

Source: Bureau of Labor Statistics/Haver Analytics

**August 2017 Unemployment Rates & Civilian Labor Force**

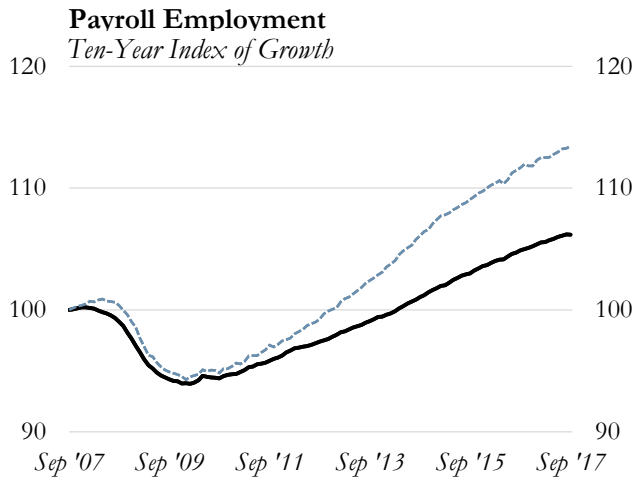
*Seasonally Adjusted*

		<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>			<i>Percent Unemployed</i>	<i>Labor Force (Thousands)</i>
51	Boulder	1.9	189.1	58	Washington	1.7	2.9
52	Sedgwick	1.9	1.1	59	Summit	1.6	21.7
53	Hinsdale	1.9	0.5	60	Kit Carson	1.6	4.4
54	Gilpin	1.8	3.6	61	Yuma	1.3	5.5
55	Gunnison	1.7	10.5	62	Baca	1.3	2.1
56	Kiowa	1.7	0.9	63	Cheyenne	1.3	1.1
57	Jackson	1.7	0.9	64	Phillips	1.2	2.5

*Source: Bureau of Labor Statistics/Haver Analytics*

**Payroll Employment**

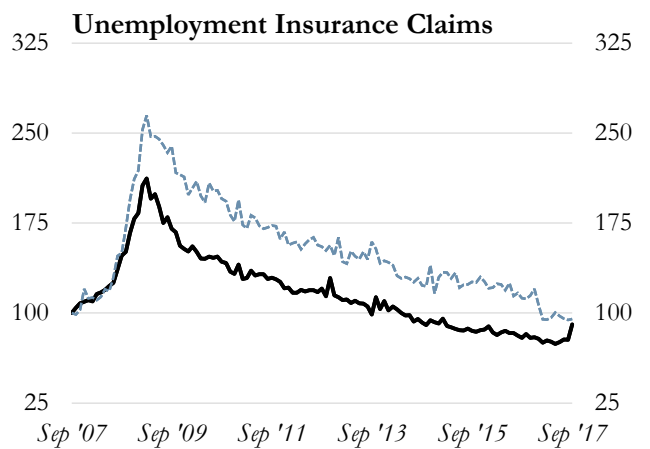
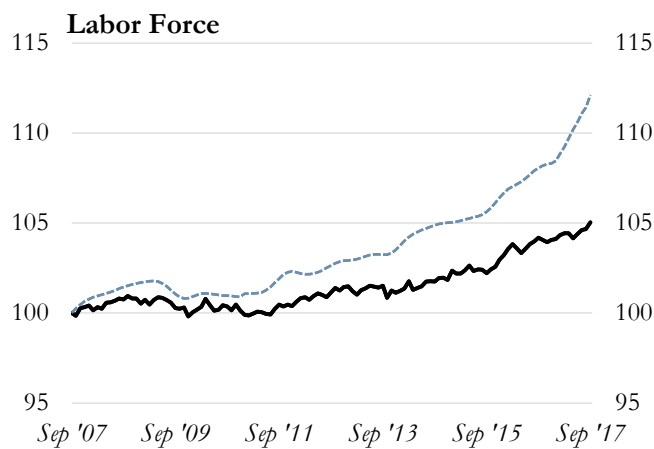
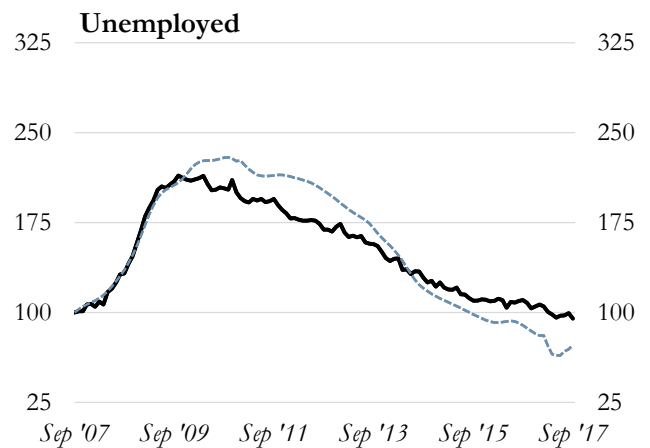
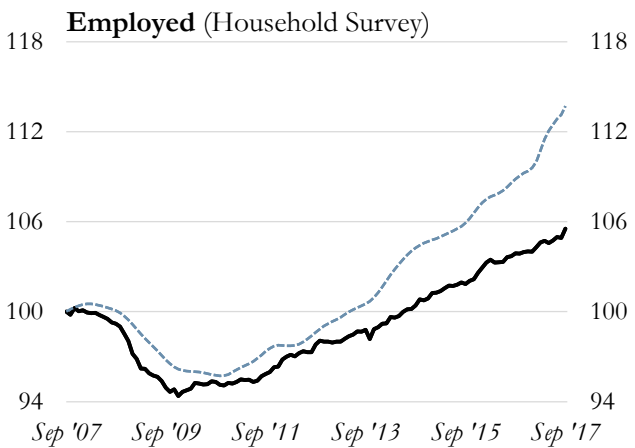
*Seasonally Adjusted*



September 2017		
	United States	Colorado
Jobs (Thousands)	146,659.0	2,656.2
Change from Last Year (Thousands)	1,777.0	41.3
Share of U.S. Employment		1.8%

**Labor Force Dynamics**

*Ten-Year Index of Growth, Seasonally Adjusted*

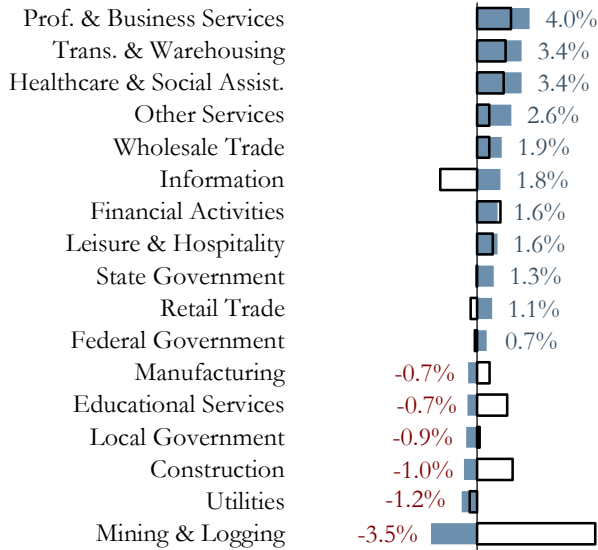


Source: Bureau of Labor Statistics & Department of Labor/Haver Analytics

**Payroll Employment by Industry**

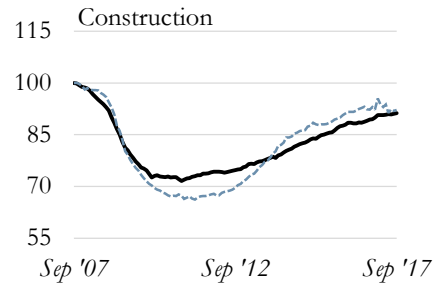
*Seasonally Adjusted*

**September 2017** *Percent Change Year-over-Year*



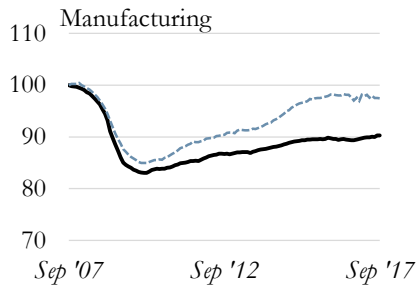
— United States  
- - - Colorado

*Ten-Year Index of Growth*



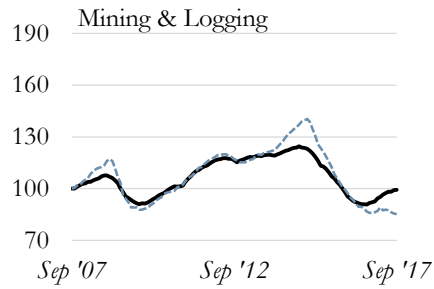
**Share of Jobs**

*United States*  
4.7%  
*Colorado*  
5.8%

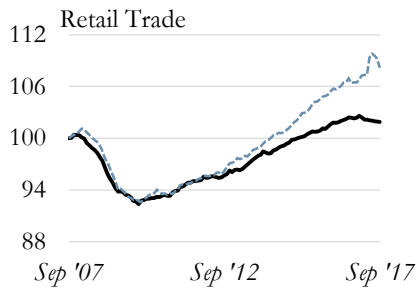


**Share of Jobs**

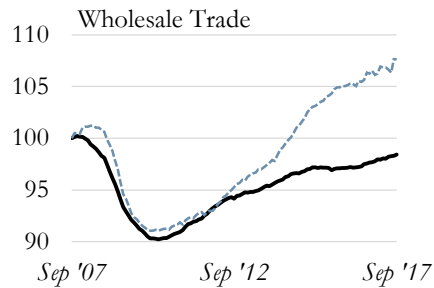
*United States*  
8.5%  
*Colorado*  
5.3%



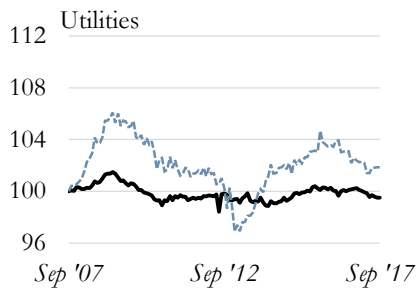
*United States*  
0.5%  
*Colorado*  
0.8%



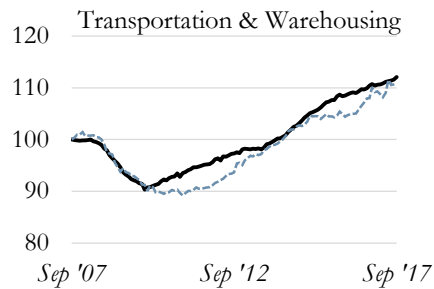
*United States*  
10.8%  
*Colorado*  
10.3%



*United States*  
4.0%  
*Colorado*  
4.0%



*United States*  
0.4%  
*Colorado*  
0.3%



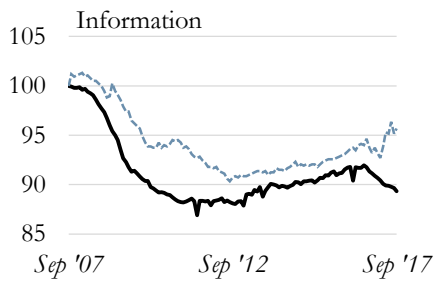
*United States*  
3.5%  
*Colorado*  
2.9%

Source: Bureau of Labor Statistics/Haver Analytics

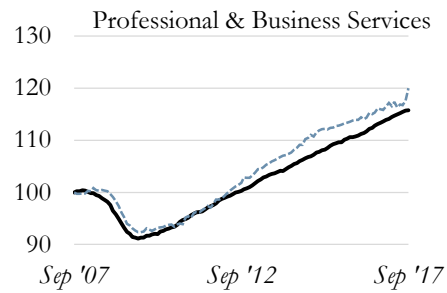
**Payroll Employment by Industry**

*Ten-Year Index of Growth, Seasonally Adjusted*

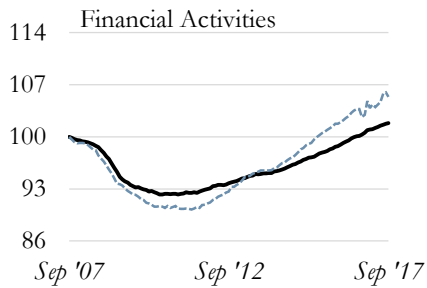
— United States  
- - - Colorado



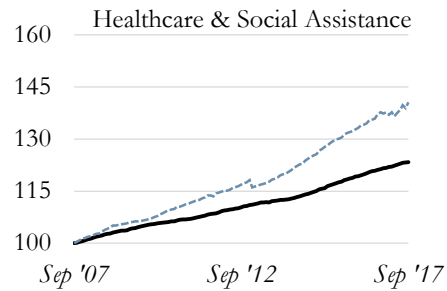
**Share of Jobs**  
United States 1.8%  
Colorado 2.8%



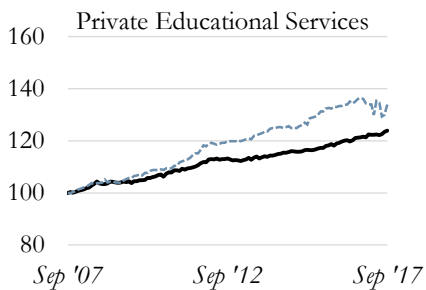
**Share of Jobs**  
United States 14.2%  
Colorado 16.0%



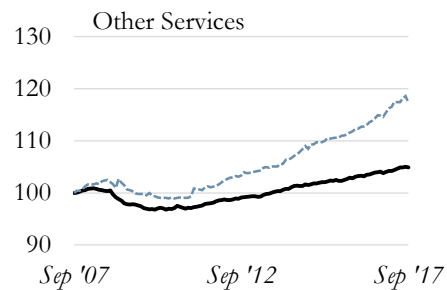
**Share of Jobs**  
United States 5.8%  
Colorado 6.3%



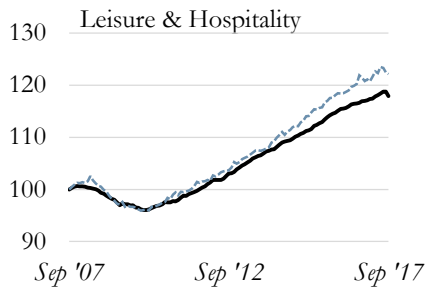
**Share of Jobs**  
United States 13.3%  
Colorado 11.3%



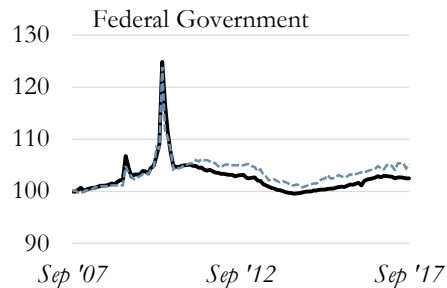
**Share of Jobs**  
United States 2.5%  
Colorado 1.5%



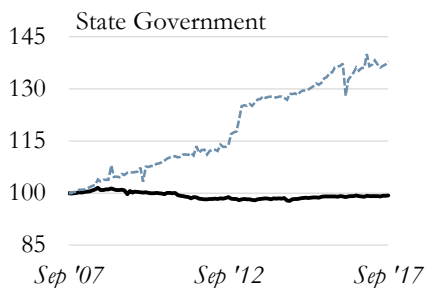
**Share of Jobs**  
United States 3.9%  
Colorado 4.1%



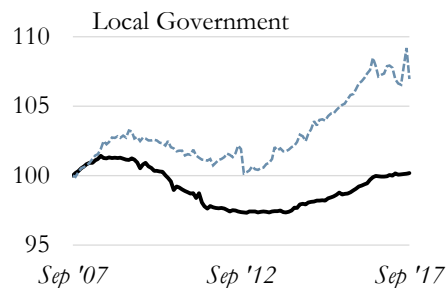
**Share of Jobs**  
United States 10.8%  
Colorado 12.4%



**Share of Jobs**  
United States 1.9%  
Colorado 2.1%



**Share of Jobs**  
United States 3.5%  
Colorado 4.4%

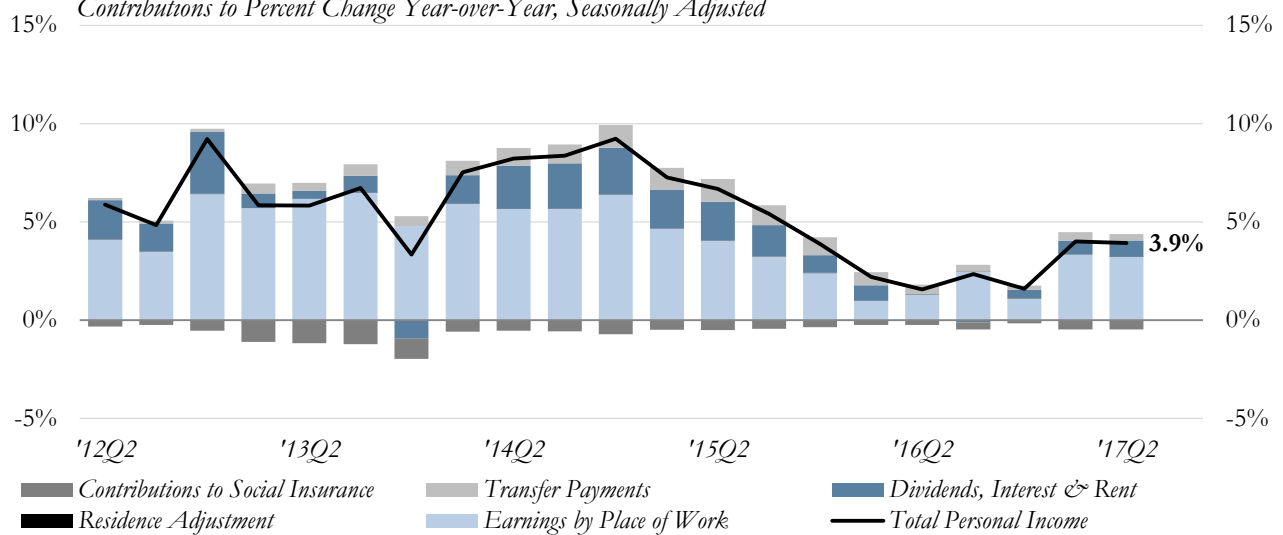


**Share of Jobs**  
United States 9.8%  
Colorado 9.6%

Source: Bureau of Labor Statistics/Haver Analytics

### Colorado Nominal Personal Income Growth

*Contributions to Percent Change Year-over-Year, Seasonally Adjusted*

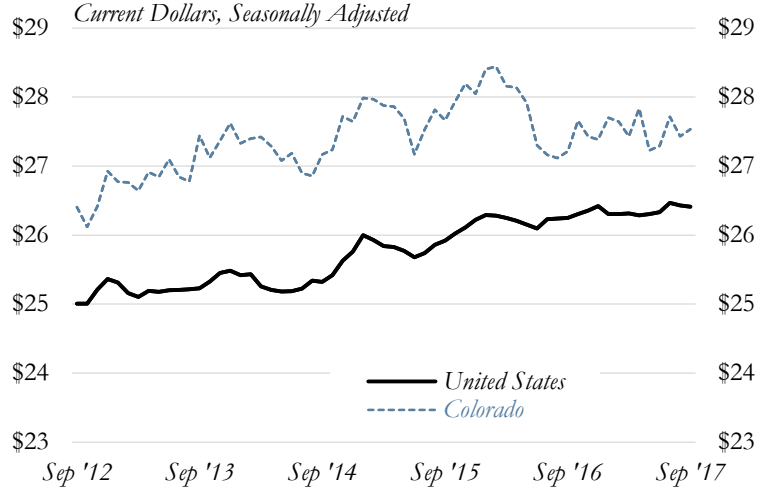


2017Q2	Percent Change Year-over-Year		Share of Personal Income	
	United States	Colorado	United States	Colorado
<b>Total Personal Income</b>	<b>2.9%</b>	<b>3.9%</b>		
Earnings by Place of Work	2.9%	4.4%	71.2%	73.3%
Social Insurance Contributions*	-4.2%	-5.9%	-7.9%	-8.0%
Residence Adjustment		1.3%		0.2%
Dividends, Interest & Rent	3.2%	3.9%	19.4%	21.3%
Transfer Payments	2.8%	2.5%	17.3%	13.2%

\*Subtracted from personal income.

### Real Average Hourly Wage

*Current Dollars, Seasonally Adjusted*

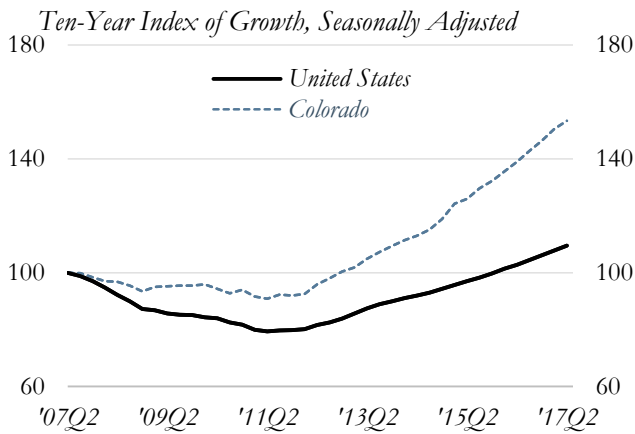


September 2017		
Average Hourly Wage	United States	Colorado
	\$26.41	\$27.53
<i>Real Change from</i>		
Last Month	-0.1%	0.4%
Last Year	0.6%	1.2%

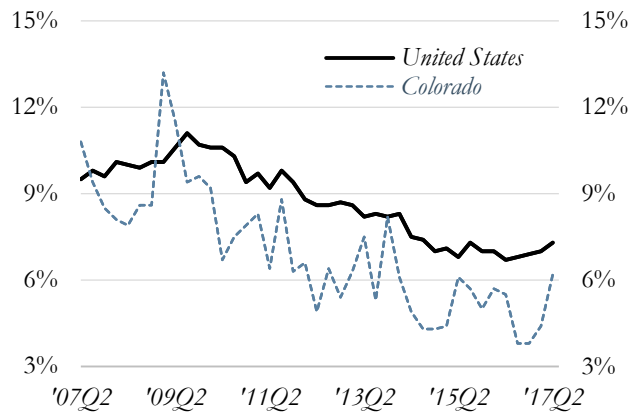
Source: Bureau of Economic Analysis & Bureau of Labor Statistics/Haver Analytics



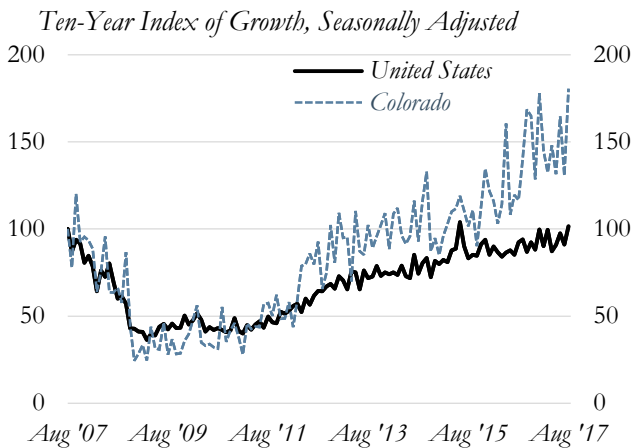
### FHFA Purchase-Only Home Price Index



### Rental Vacancy Rates



### Housing Permits

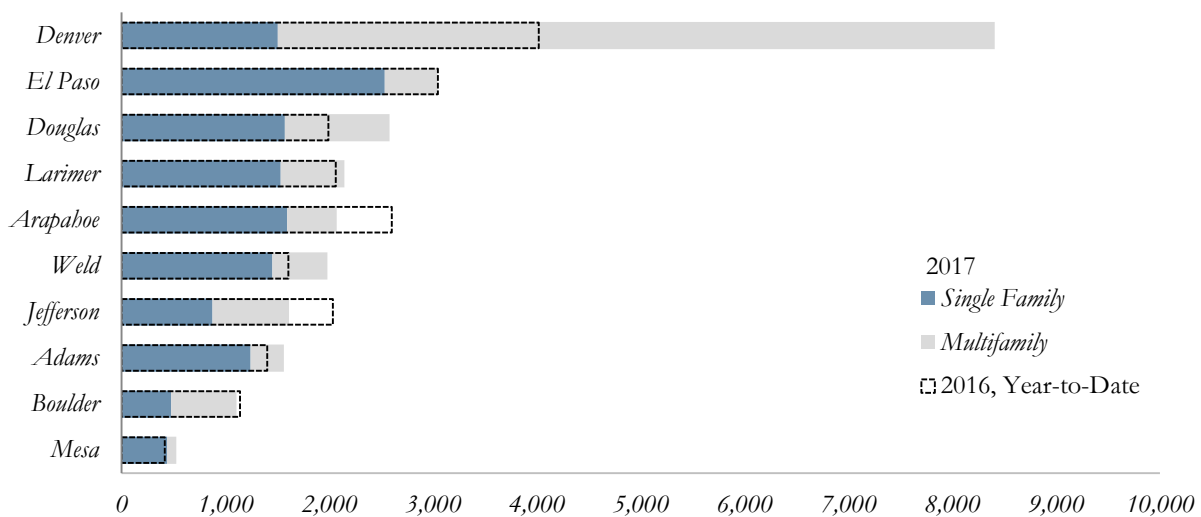


Summary Statistics		
	United States	Colorado
Prices (2017Q2)*	6.6%	10.4%
Vacancy Rates (2017Q2)	7.3%	6.2%
Permits (Year-to-Date)*		
<i>Single Family</i>	10.1%	13.3%
<i>Multifamily</i>	3.5%	51.9%

\*Percent change year-over-year.

### Top 10 Colorado Counties for Permit Activity

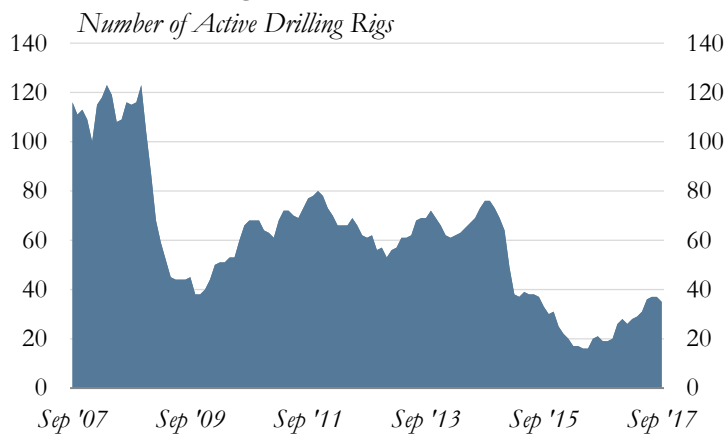
*Year-to-Date through August*



Source: Federal Housing Finance Agency (FHFA) & Census Bureau/Haver Analytics

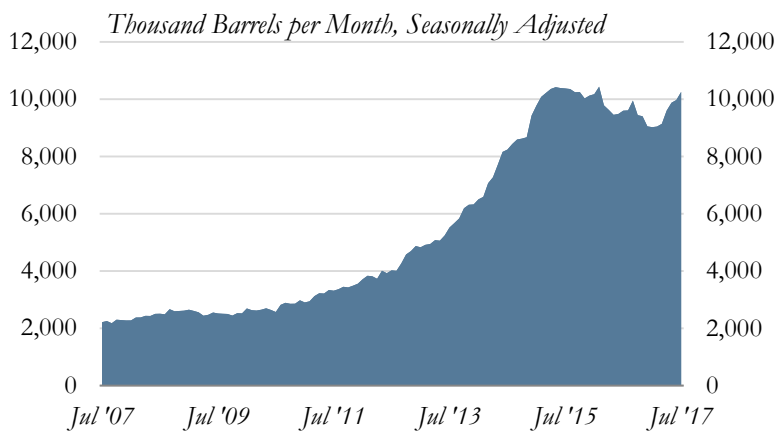
**Colorado Energy Activity**

**Oil & Gas Rig Counts**



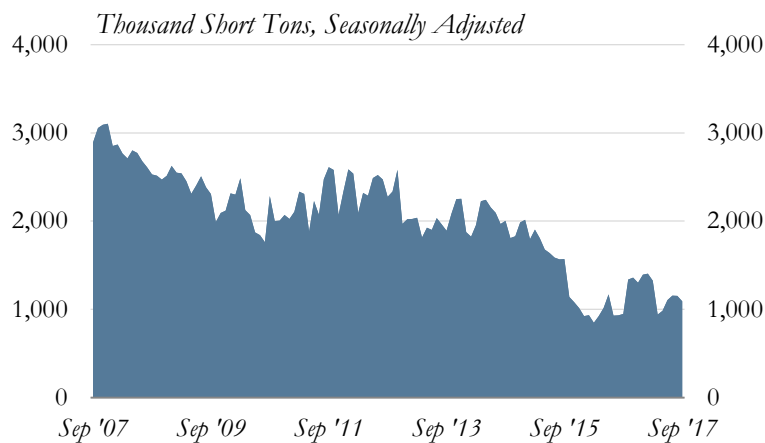
September 2017		
	United States	Colorado
Rig Count	940	35
<i>Change from</i>		
Last Month	-7	-2
Last Year	431	16
Share of U.S. Activity		3.7%

**Crude Oil Production**



July 2017		
	United States	Colorado
Production	283,084	10,254
<i>Change from</i>		
Last Month	1.0%	2.8%
Last Year	6.4%	6.8%
Share of U.S. Activity		3.6%

**Coal Production**

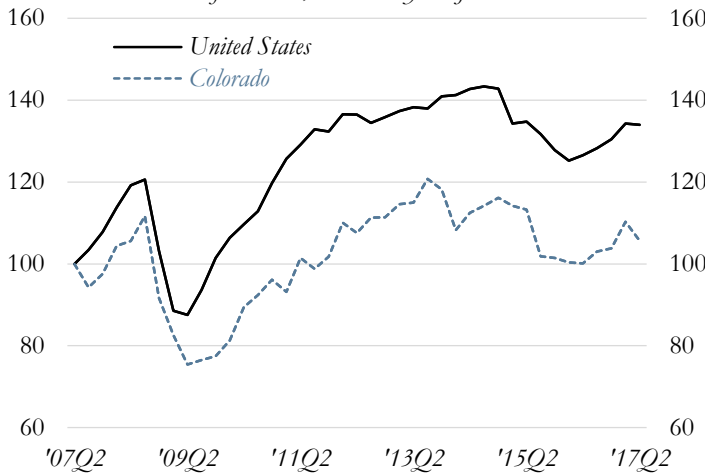


September 2017		
	United States	Colorado
Production	63,543	1,092
<i>Change from</i>		
Last Month	-4.5%	-5.3%
Last Year	0.9%	15.1%
Share of U.S. Activity		1.7%

Source: Baker Hughes & Department of Energy, Energy Information Administration/Haver Analytics

**Global Exports**

*Ten-Year Index of Growth, Seasonally Adjusted*

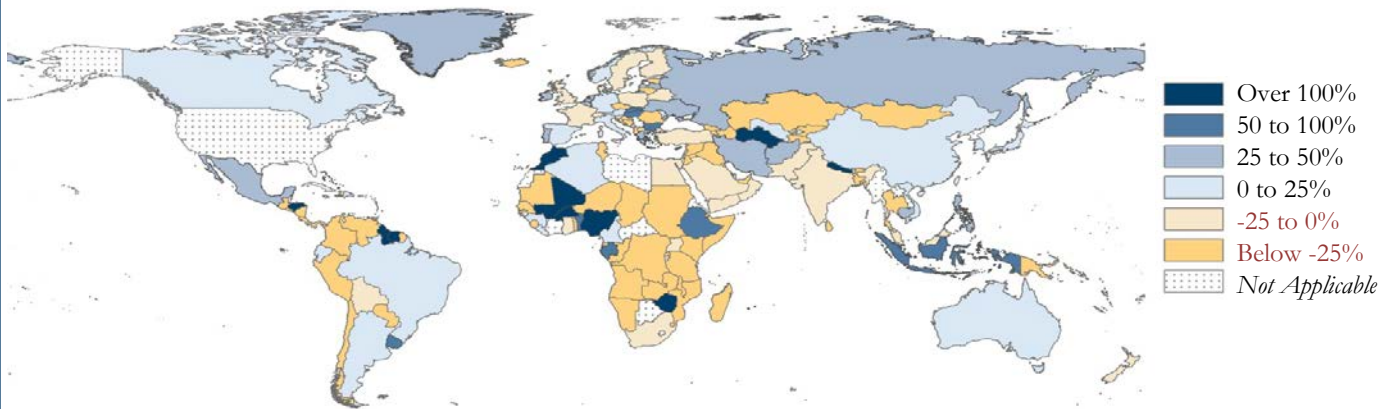


2017Q2		
	United States	Colorado
Exports (Millions)	\$381,289.0	\$1,959.1
<i>Change from</i>		
Last Quarter	-0.3%	-4.2%
Last Year (year-to-date)	6.5%	7.7%
Share of U.S. Activity		0.5%

2016		
<i>Exports as a</i>	United States	Colorado
<i>Percent of GDP</i>	7.8%	2.3%

**Colorado Exports Year-to-Date through 2017Q2**

*Percent Change Year-over-Year*



Top Markets	Share
1 Canada	17.5%
2 Mexico	17.4
3 China*	12.4
4 Japan	6.0
5 South Korea	4.9
6 Malaysia	4.3
7 Germany	3.6
8 Netherlands	3.5
9 United Kingdom	2.7
10 Philippines	2.4

Top Exports	Share
1 Computers & Electronics	23.3%
2 Food	22.2
3 Machinery (except Electrical)	10.2
4 Chemicals & Rare Earth Metals	9.7
5 Misc. Manufactures	5.8
6 Fabricated Metal Products	4.7
7 Transportation Equip.	4.3
8 Electronic Equip. & Appliances	2.8
9 Plastics & Rubber Products	2.5
10 Primary Metals	2.3

\*Includes Hong Kong, Taiwan, and Macao.

Source: Census Bureau, WISERTrade & Bureau of Economic Analysis/Haver Analytics

Pages 2 - 4: County unemployment rates typically lag state data releases by one month. Gray bars show recessionary periods as designated by the National Bureau of Economic Research. The "official" and most commonly reported unemployment rate is calculated as the number of unemployed workers divided by the total civilian labor force. These data are reported from the Bureau of Labor Statistics Current Population Survey, or commonly called the "Household" survey.

Pages 2 and 5: Nonfarm employment data from the Bureau of Labor Statistics Current Employment Survey are commonly called "Payroll" employment data. Estimates from this survey are revised throughout the year and a major revision or "benchmark" of the data occurs in March of each year. "Payroll" and "Household" surveys are released monthly, providing the most current estimates of employment published by the Bureau of Labor Statistics. Because methodologies differ between surveys, employment estimates also differ. For more information, visit:

[http://www.bls.gov/web/empsit/ces\\_cps\\_trends.pdf](http://www.bls.gov/web/empsit/ces_cps_trends.pdf)

Initial claims show monthly applications for initial claims for state unemployment insurance benefits.

Pages 6 and 7: Payroll employment by industry is shown for each of the major two-digit North American Industrial Classification System industries.

Page 8: Personal income provides a measure of all income received by residents of a given geographic area. Data shown are in nominal terms (not adjusted for inflation). Transfer payments include social benefits such as unemployment insurance, Social Security, and Medicaid. Contributions to social insurance are subtracted from personal income. These contributions include taxes paid by businesses and employees that support social insurance programs such as unemployment insurance, Social Security, and Medicaid. The residence adjustment adds income received outside of a recipient's state of residence and makes a corresponding subtraction from the area where this income was earned or received. Real average hourly wages are calculated as total earnings divided by total employment for a given geographic area. Data are adjusted for inflation using the consumer price index for all urban areas (CPI-U) and are indexed to the most current month of data.

Page 9: Home price indices estimate regional growth in home values based on repeat sales data for detached single family residential properties. Monthly single and multifamily housing permits data are not revised, and therefore, may not sum to published year-end totals.

Page 10: The active rig count is the number of rigs actively exploring for or developing oil or natural gas. Rig counts provide an indicator of new drilling activity and potential for expanded crude oil or natural gas production. Coal production is shown as production during a given month.

Page 11: Exports measure the total physical movement of a given product from the United States to a foreign country.

**Data Revisions**

Most data are revised periodically to correct for errors and incorporate additional information as it becomes available. Data shown in this report are subject to change.

**Seasonal Adjustments**

Most data are seasonally adjusted to remove variance caused by seasonal fluctuations in economic activity. Data in this report show the seasonal adjustments of data publishers where available. In other cases, Census X-12 adjustments were applied.

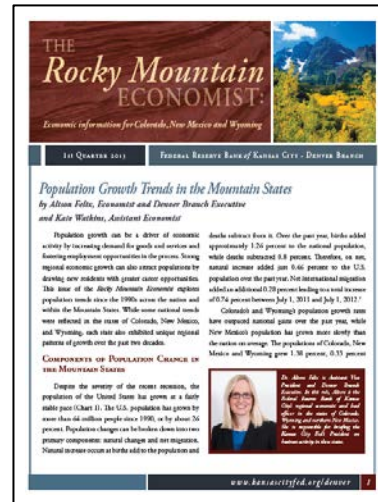
*Regional Economic Analysis*

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<http://www.KansasCityFed.org/publications/research/>



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