



Emerging Trends in the U.S. and Colorado Economies

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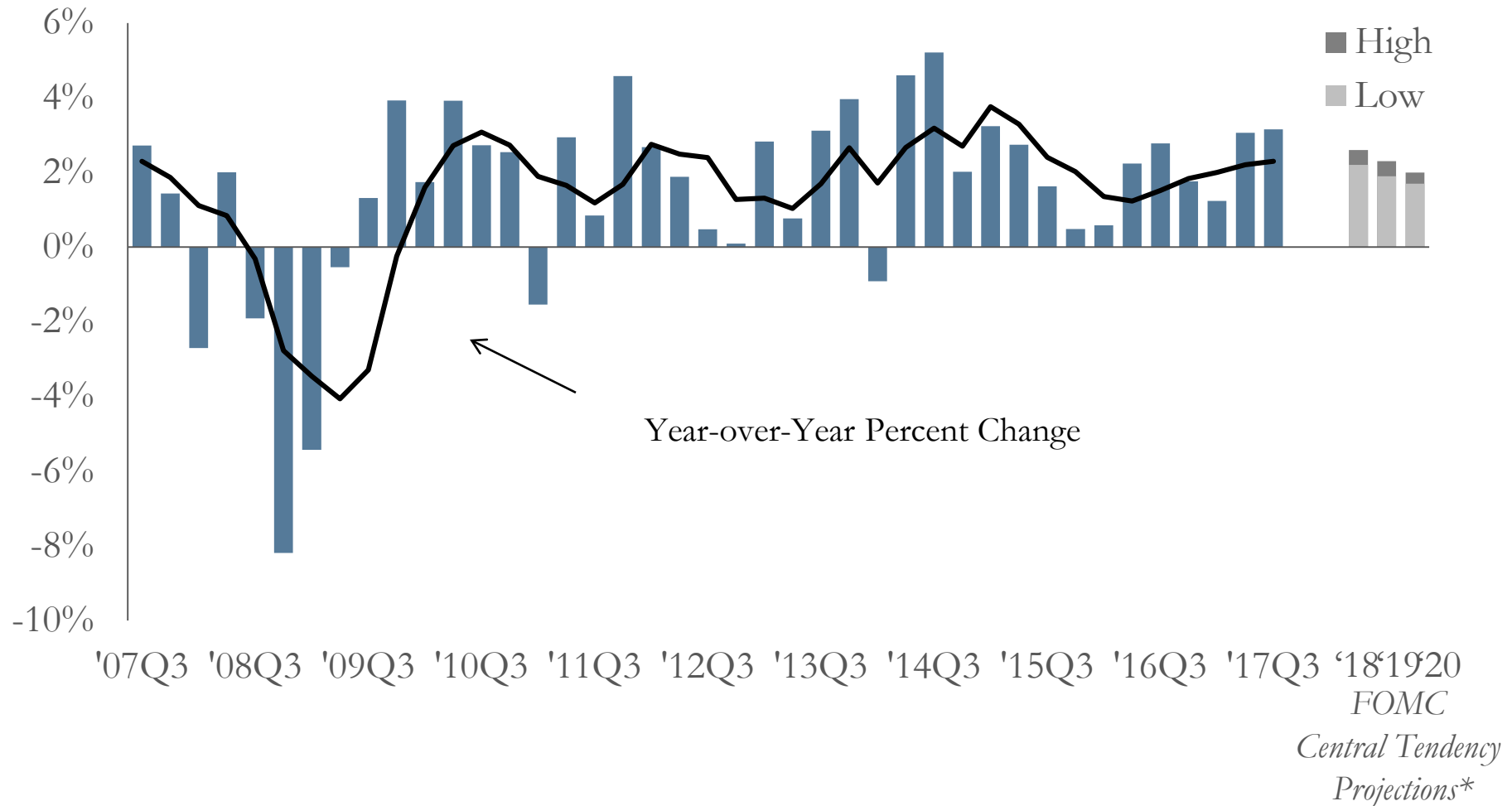
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*The views expressed are those of the presenter and do not necessarily reflect
the positions of the Federal Reserve Bank of Kansas City or the Federal Reserve System.*

U.S. economic growth has accelerated in recent quarters, and solid growth is expected to continue in 2018.

REAL U.S. GROSS DOMESTIC PRODUCT

Percent Change from Previous Quarter at Seasonally Adjusted Annualized Rates



Source: Bureau of Economic Analysis and Federal Open Market Committee (FOMC)/Haver Analytics

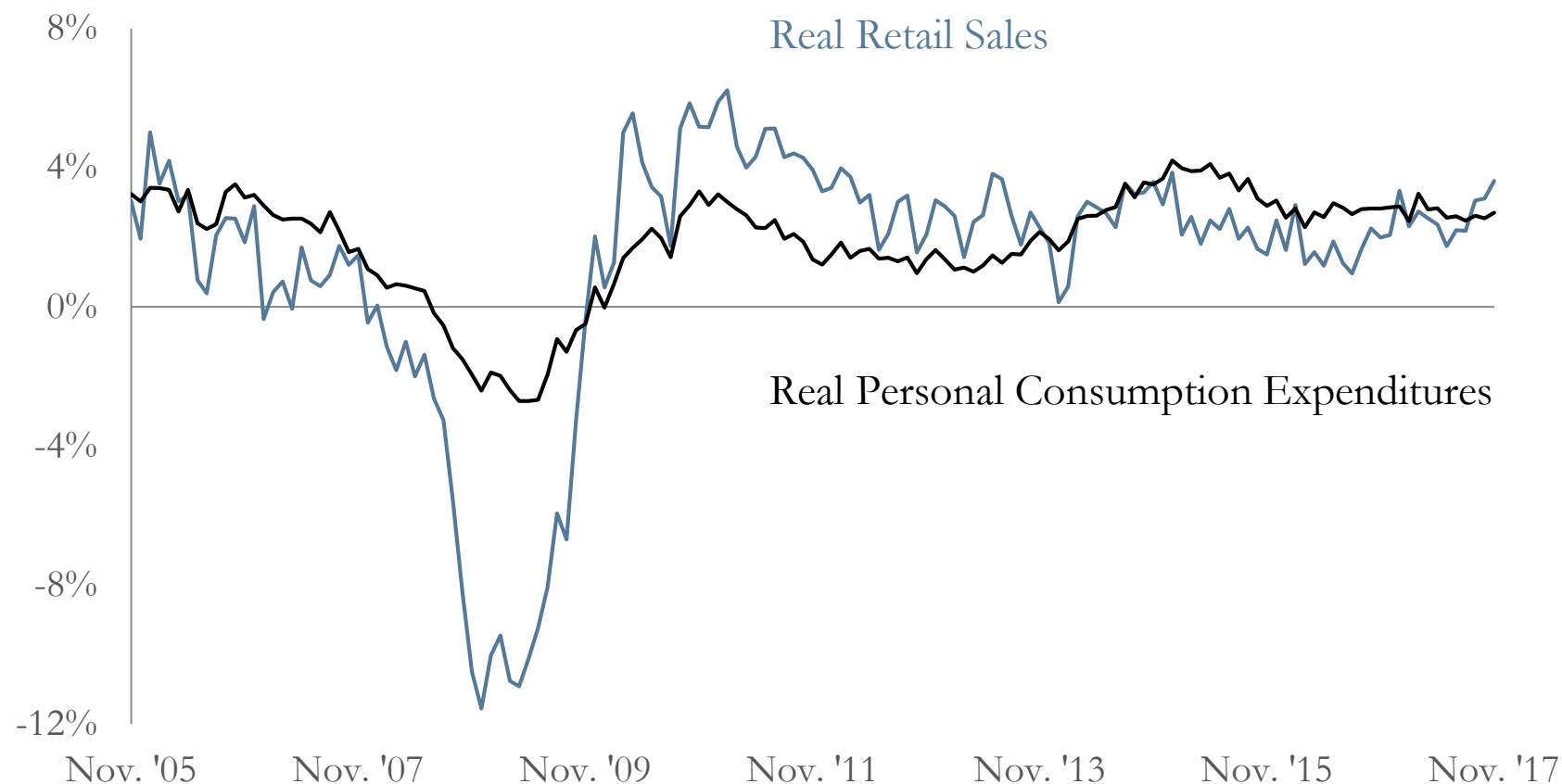
*Projections as of December FOMC meeting

Consumer spending is a key driver of growth in the U.S. economy.



REAL CONSUMPTION SPENDING

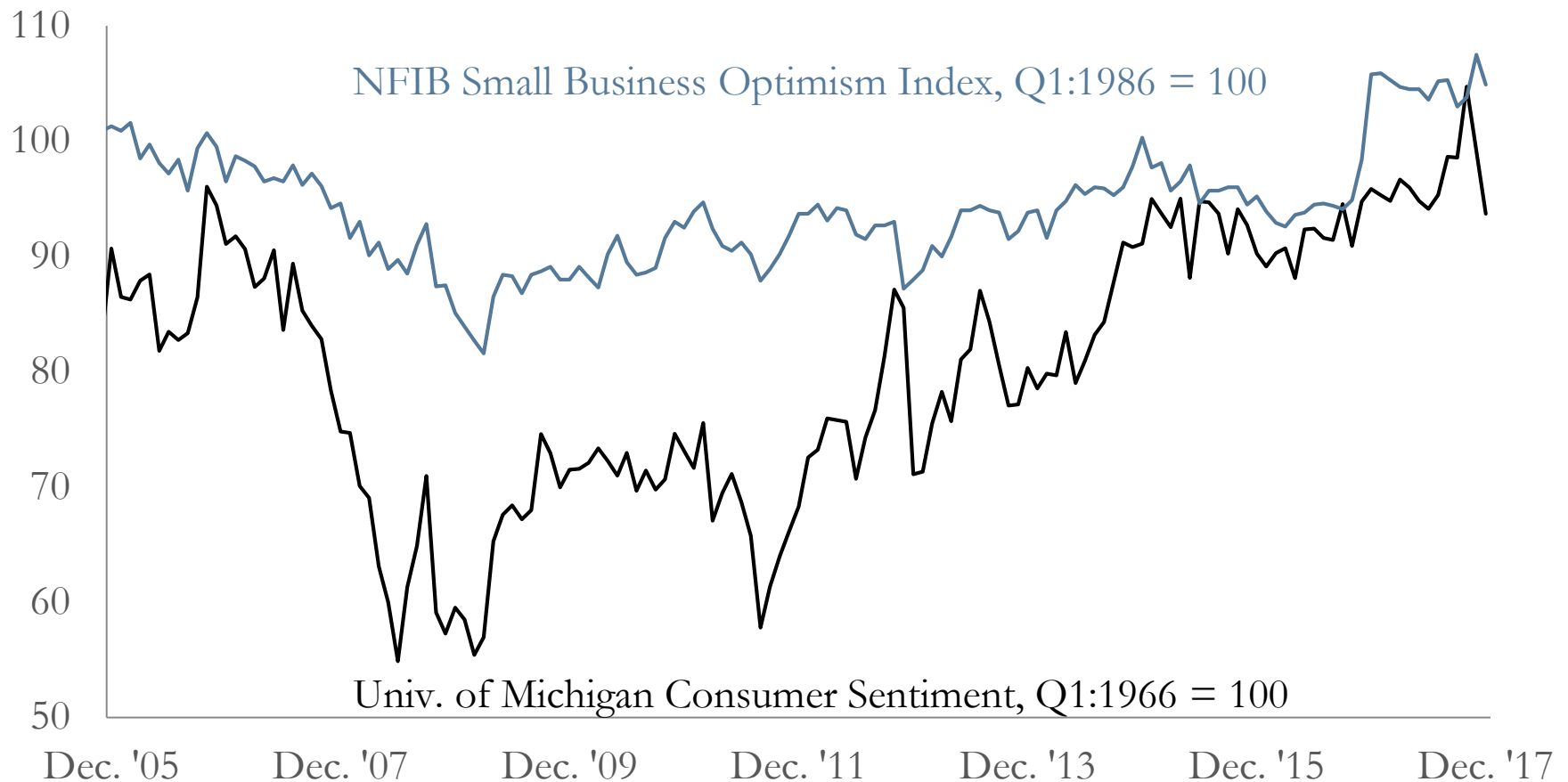
Seasonally Adjusted , Year-over-Year Percent Change



Businesses and consumers remain optimistic about the economy.



CONSUMER SENTIMENT *Seasonally Adjusted*

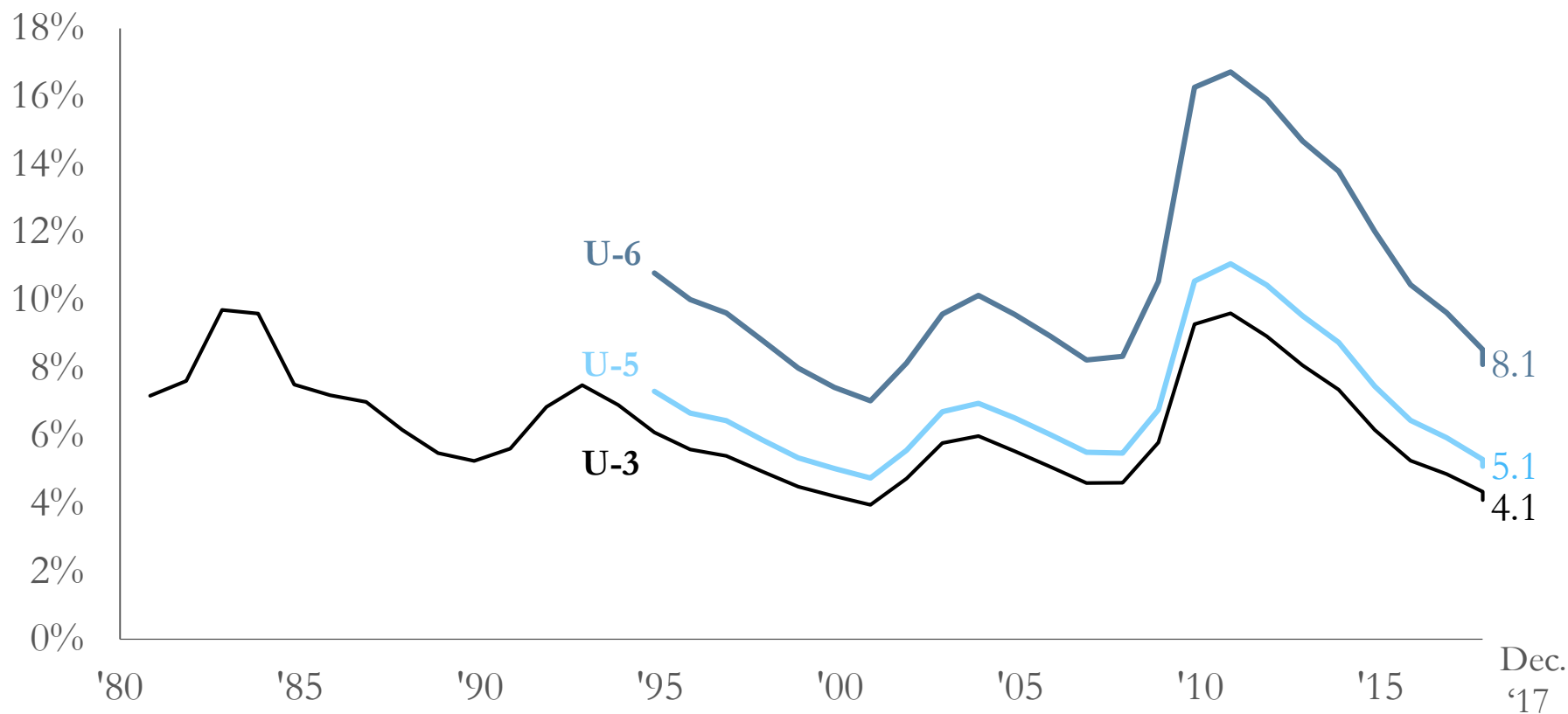


Measures of unemployment and under-employment have declined steadily over the past eight years.



U. S. UNEMPLOYMENT AND UNDER-EMPLOYMENT RATES

Seasonally Adjusted

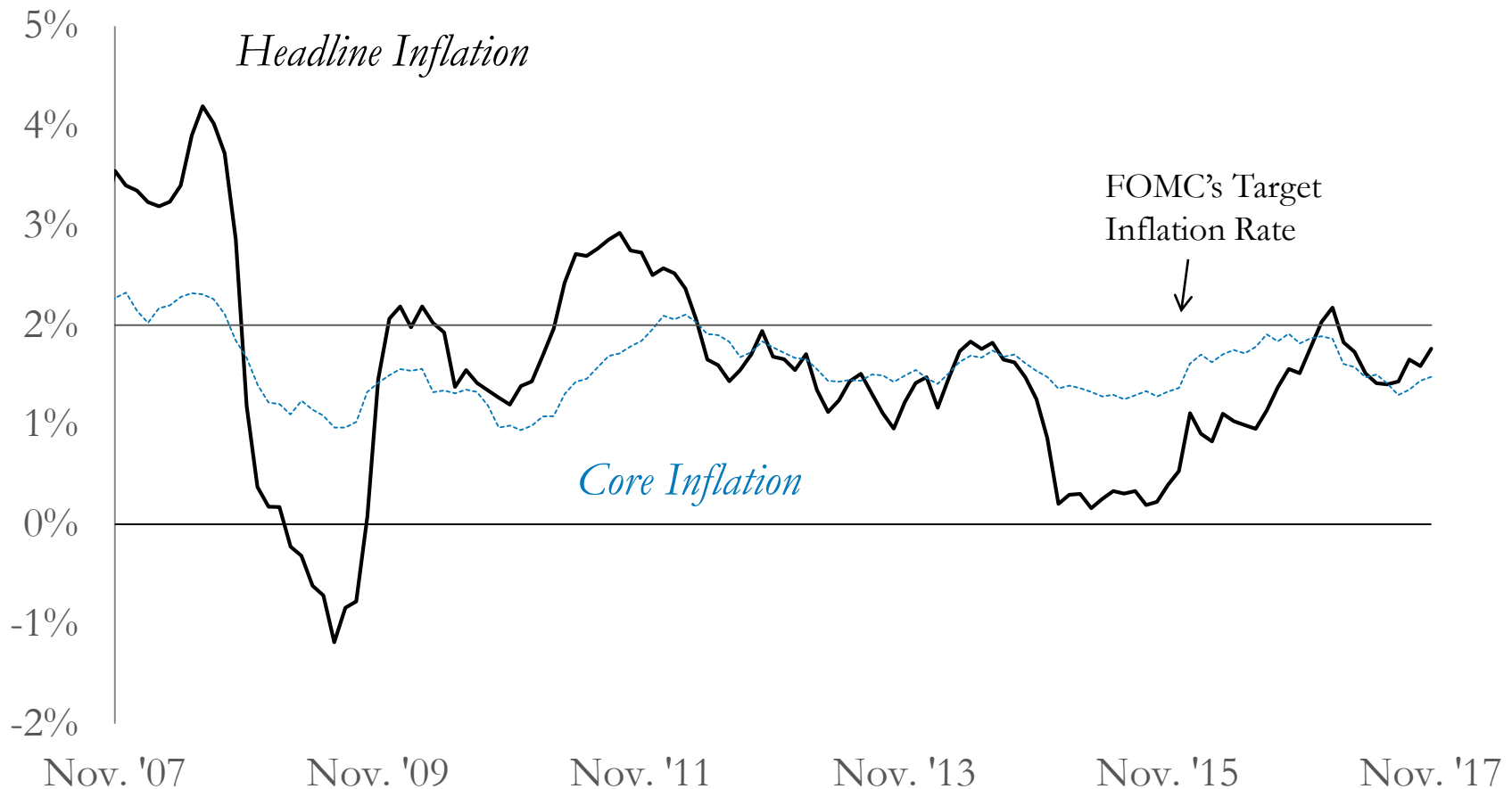


Inflation is near the FOMC's two percent target.



PERSONAL CONSUMPTION EXPENDITURE PRICE INDEX (PCEPI)

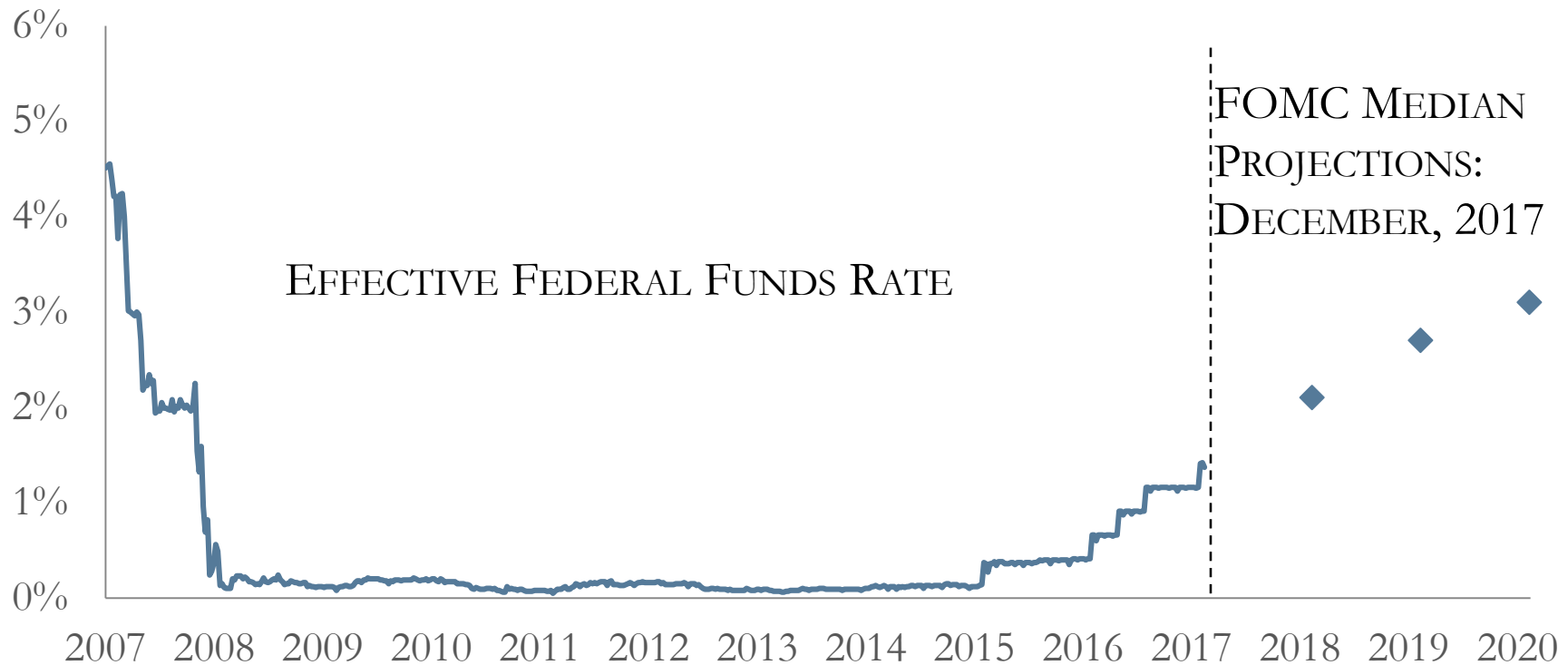
Percent Change Year-over-Year





“In view of realized and expected labor market conditions and inflation, the Committee decided to raise the target range for the federal funds rate to 1-1/4 to 1-1/2 percent. The stance of monetary policy remains accommodative, thereby supporting strong labor market conditions and a sustained return to 2 percent inflation.”

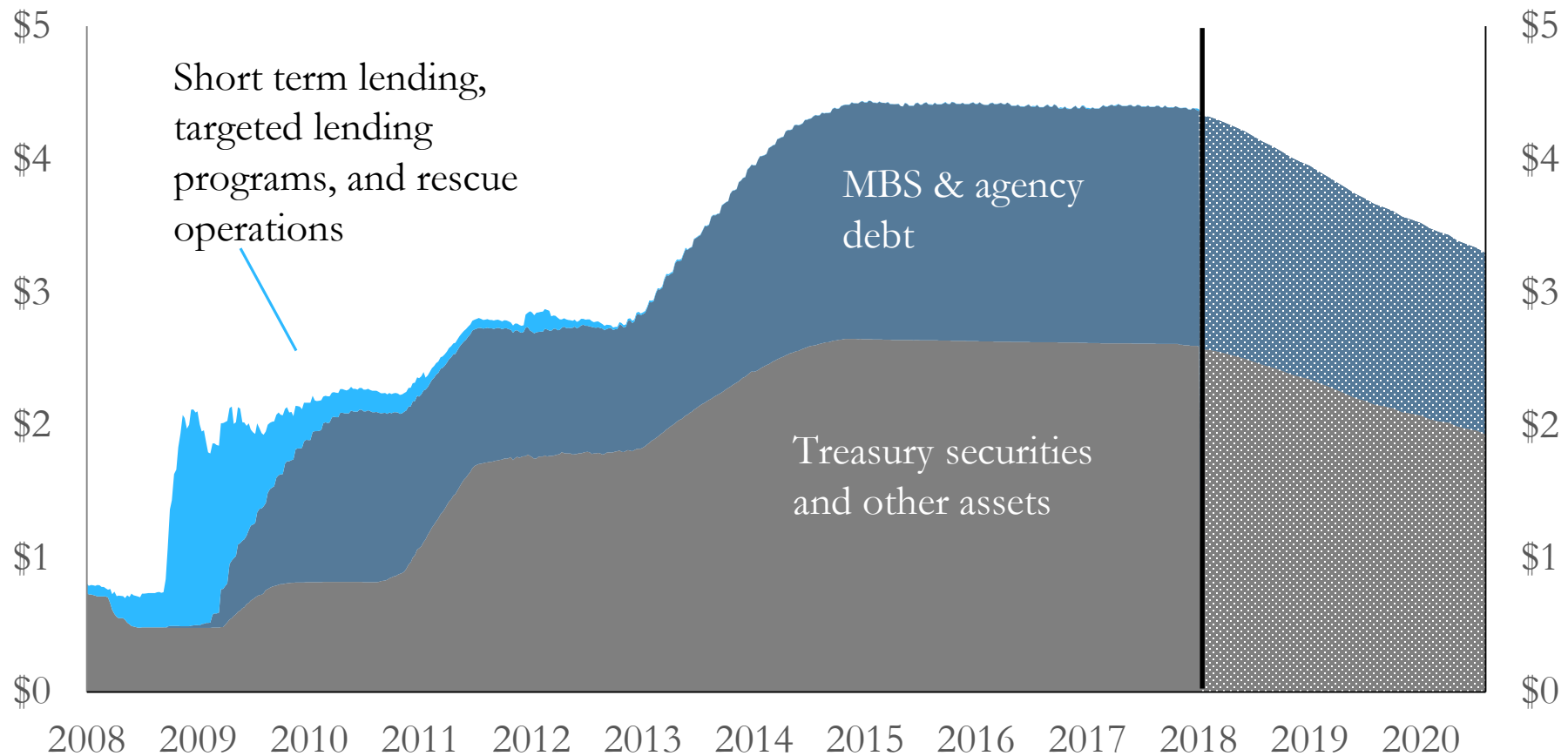
- *December 2017 FOMC Statement*





FEDERAL RESERVE BALANCE SHEET

Trillions

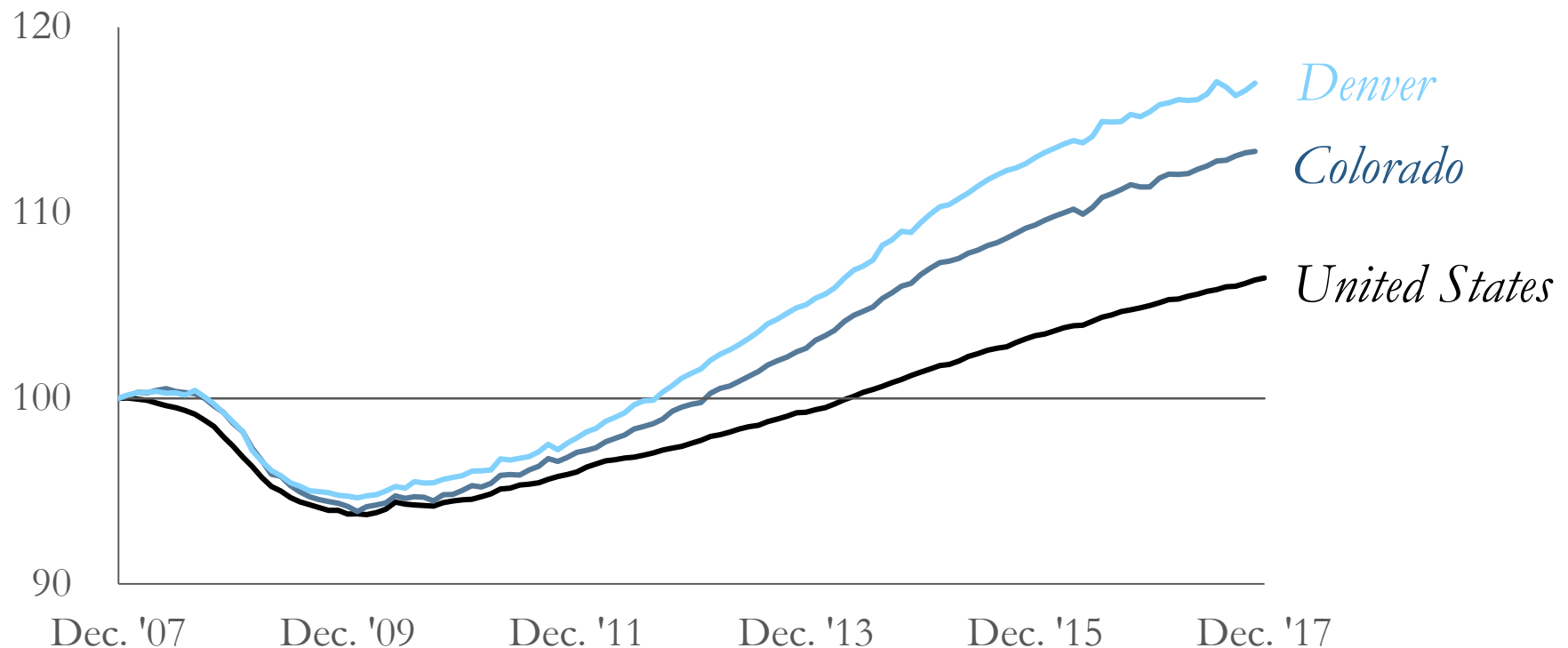


Employment has been increasing in Colorado and the nation over the past eight years, with Colorado gains outpacing the nation.

PAYROLL EMPLOYMENT GROWTH

Index 100 = December, 2007, Seasonally Adjusted

<i>Percent Change</i>	<i>Past 10 Years</i>	<i>Past Year</i>
U.S. (Dec. '17)	6.5%	1.4%
Colorado (Nov. '17)	13.4%	1.7%
Denver (Nov. '17)	17.2%	1.6%

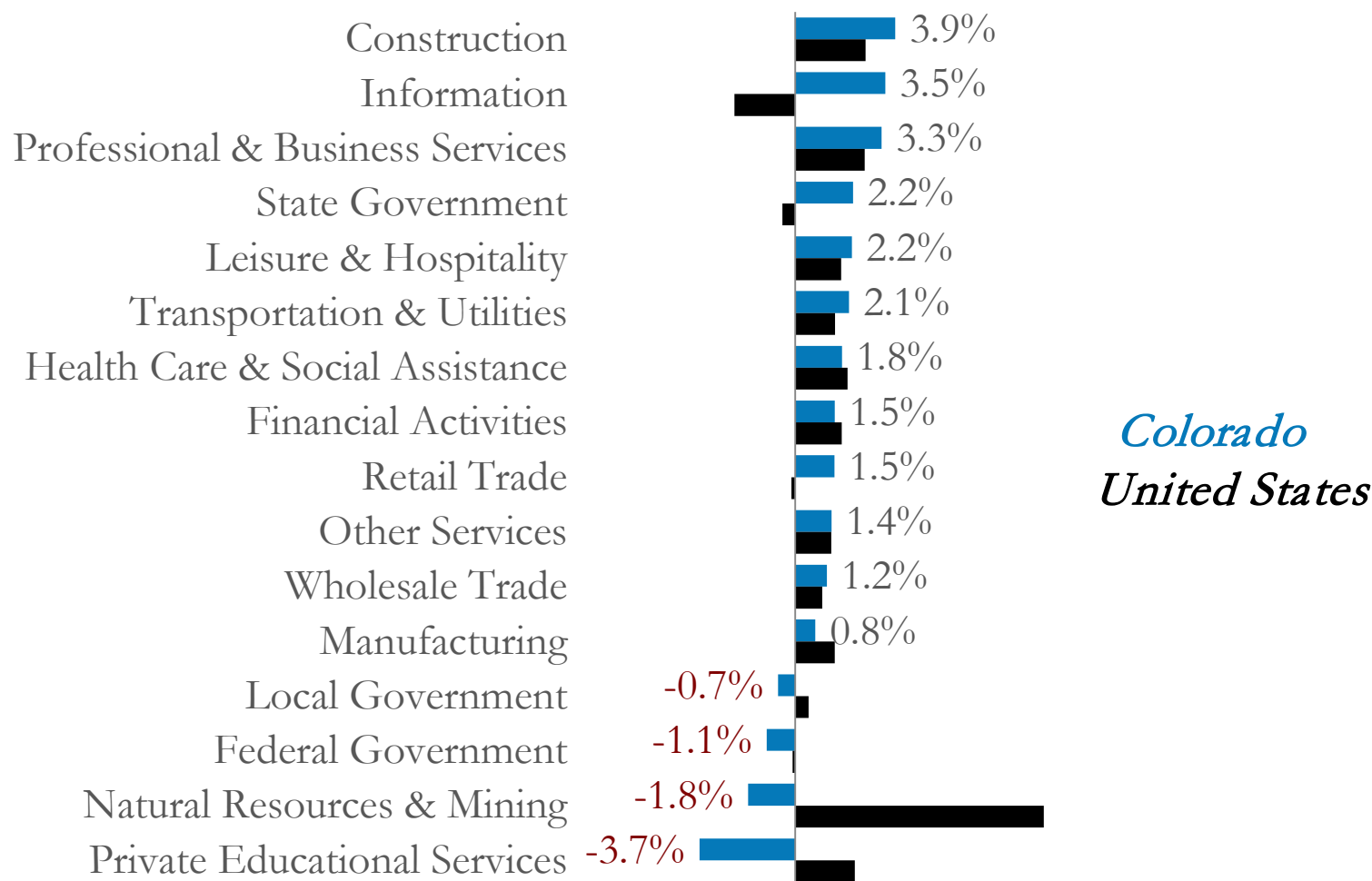


The majority of industries in Colorado have added jobs over the past year.

CHANGE IN PAYROLL EMPLOYMENT, NOVEMBER 2017

Seasonally Adjusted

Percent Change Year-over-Year

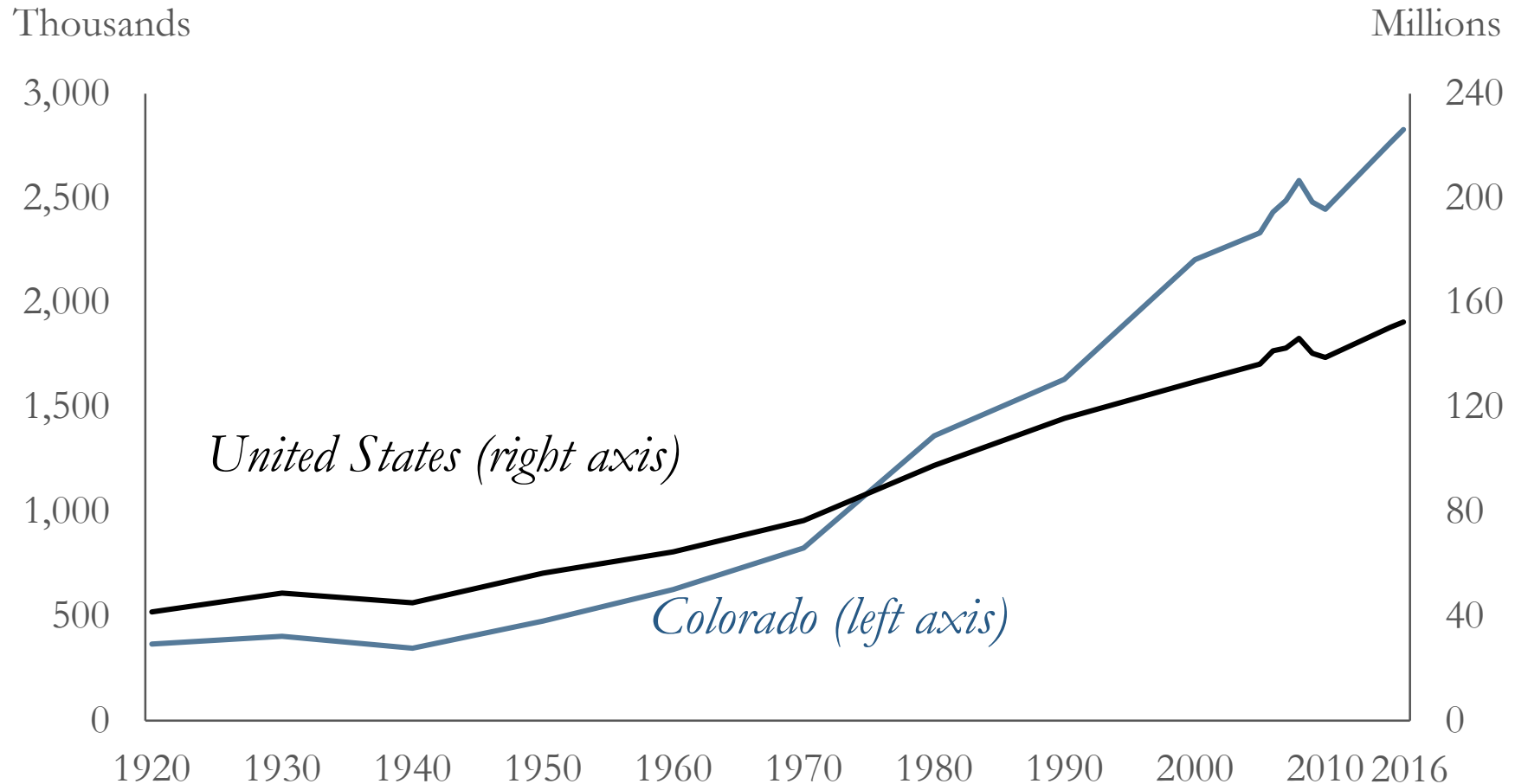


Employment has increased from about 366,000 in 1920 to more than 2.8 million today.



EMPLOYMENT

1920 - 2016



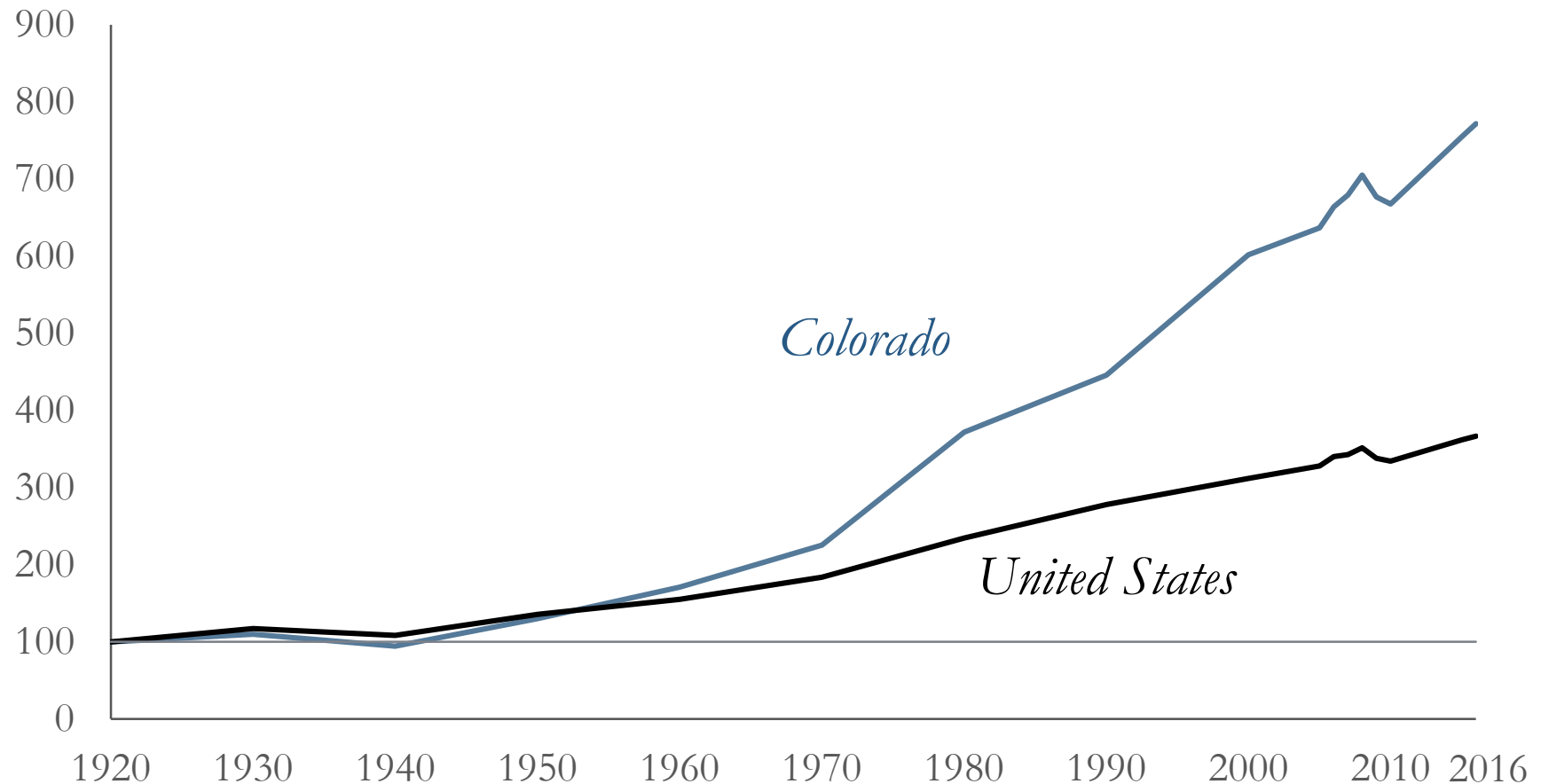
Note: Employment data is shown for each decade from 1920 to 2005, and then annually for 2005 to 2016.

Source: United States Census Bureau and author's calculations.

Employment trends in the U.S. and Colorado were similar between 1920 and 1940. Since then, employment growth in Colorado has generally outpaced the nation.

EMPLOYMENT

Index 100 = 1920



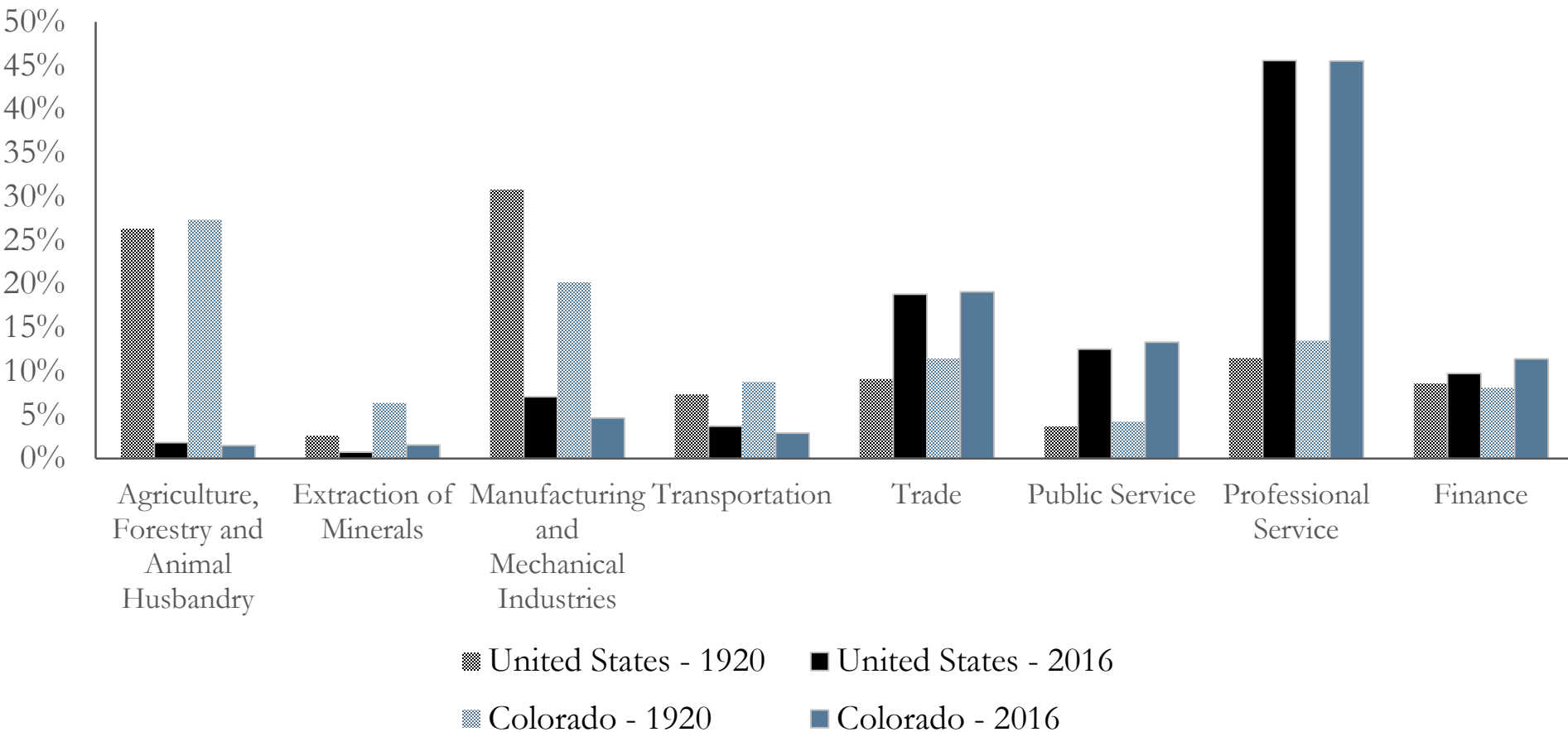
Note: Employment data is shown for each decade from 1920 to 2005, and then annually for 2005 to 2016.

Source: United States Census Bureau and author's calculations.

The industry composition has shifted dramatically over time with a smaller share of workers in agriculture and manufacturing and more in service-oriented industries.

SHARE OF TOTAL EMPLOYMENT BY INDUSTRY

1920 - 2016



Note: The “Professional Service” industry includes the information, professional and technical services, management of companies and enterprises, administrative and waste services, private educational services, health care and social assistance, accommodation and food services, and other services sectors. The “Trade” industry includes the construction, wholesale trade, and retail trade sectors.

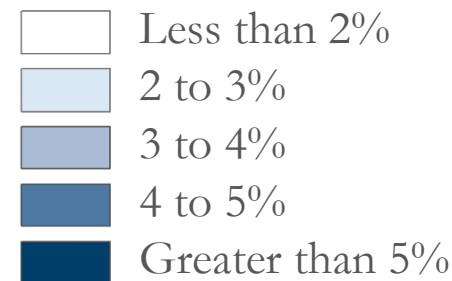
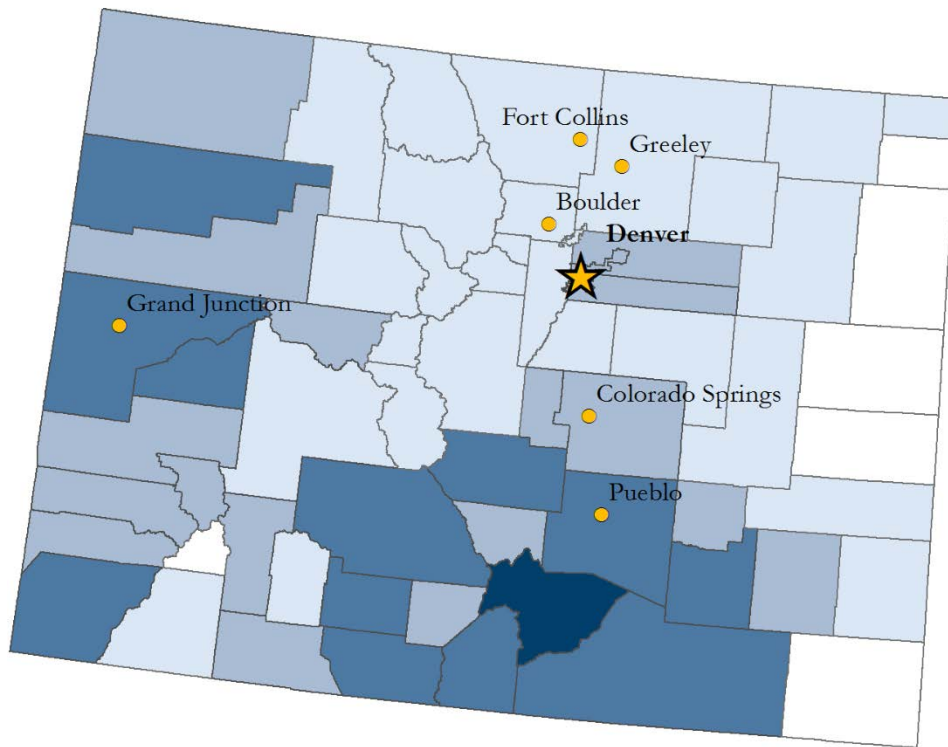
Unemployment rates are below national rates across most of Colorado.

UNEMPLOYMENT RATES

November 2017, Seasonally Adjusted

<i>Unemployment Rate</i>	<i>U-3</i>	<i>U-5*</i>	<i>U-6*</i>
United States (Dec. '17)	4.1%	5.1%	8.1%
Colorado (Nov. '17)	2.9%	3.3%	6.2%
Denver (Nov. '17)	3.0%		

**U-5 and U-6 values are 12-month moving averages as of Q3 2017 for Colorado and are for December, 2017 for the United States.*

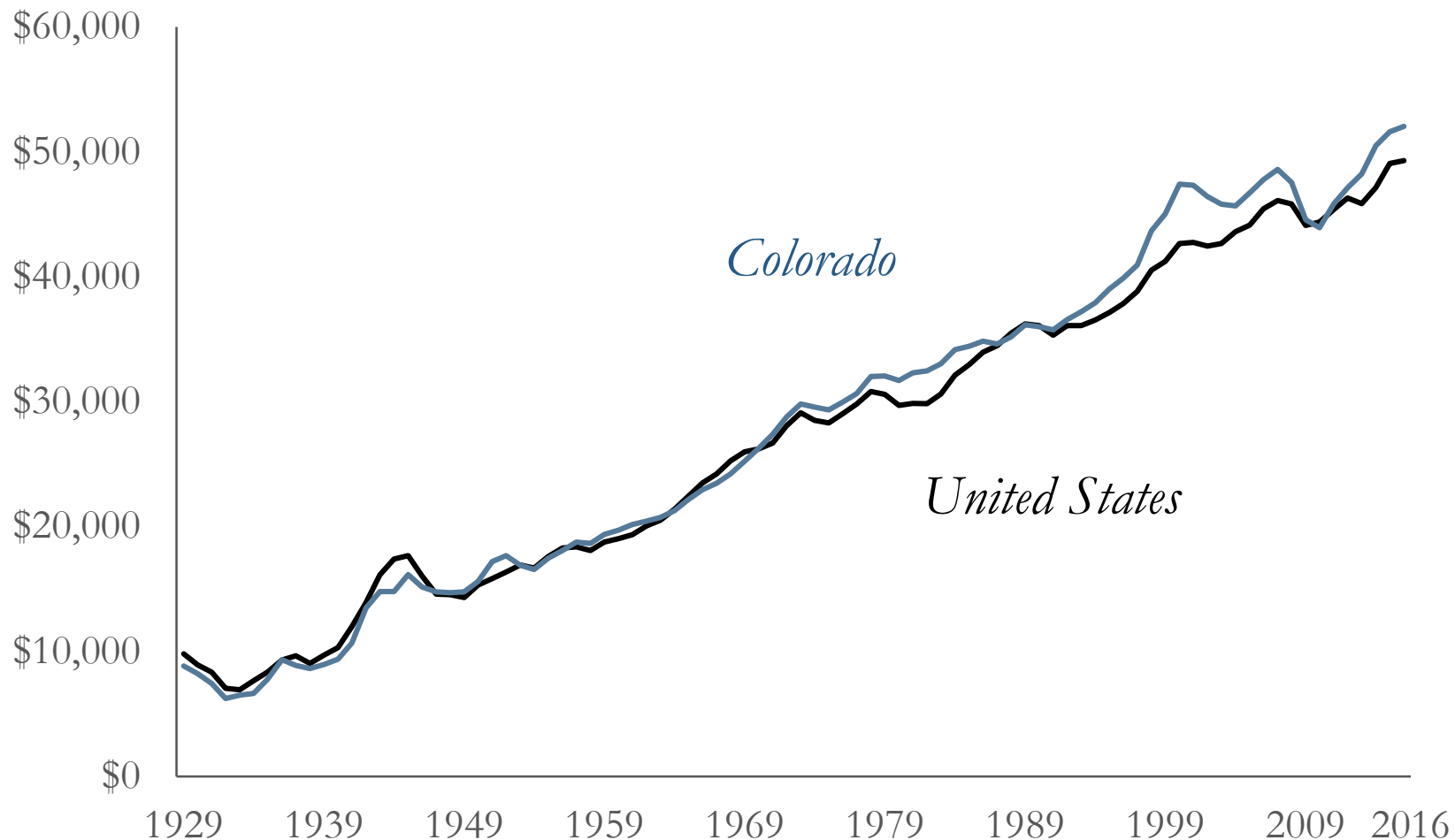


Along with growth in employment, Colorado and the U.S. have experienced rising real per capita personal income over the past century.

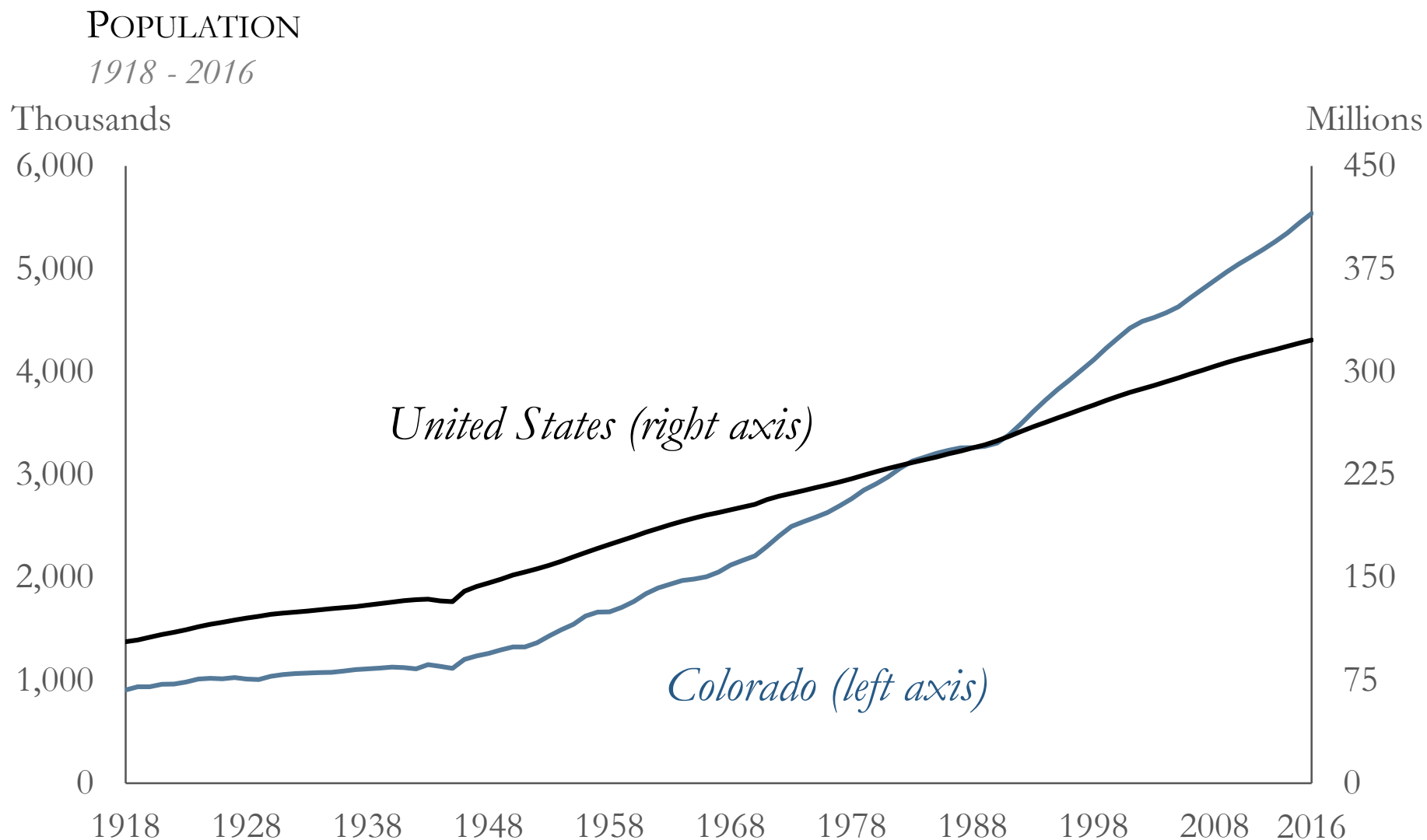


REAL PER CAPITA PERSONAL INCOME

2016 Dollars



Colorado's population has increased from 906,000 in 1918 to more than 5.5 million.

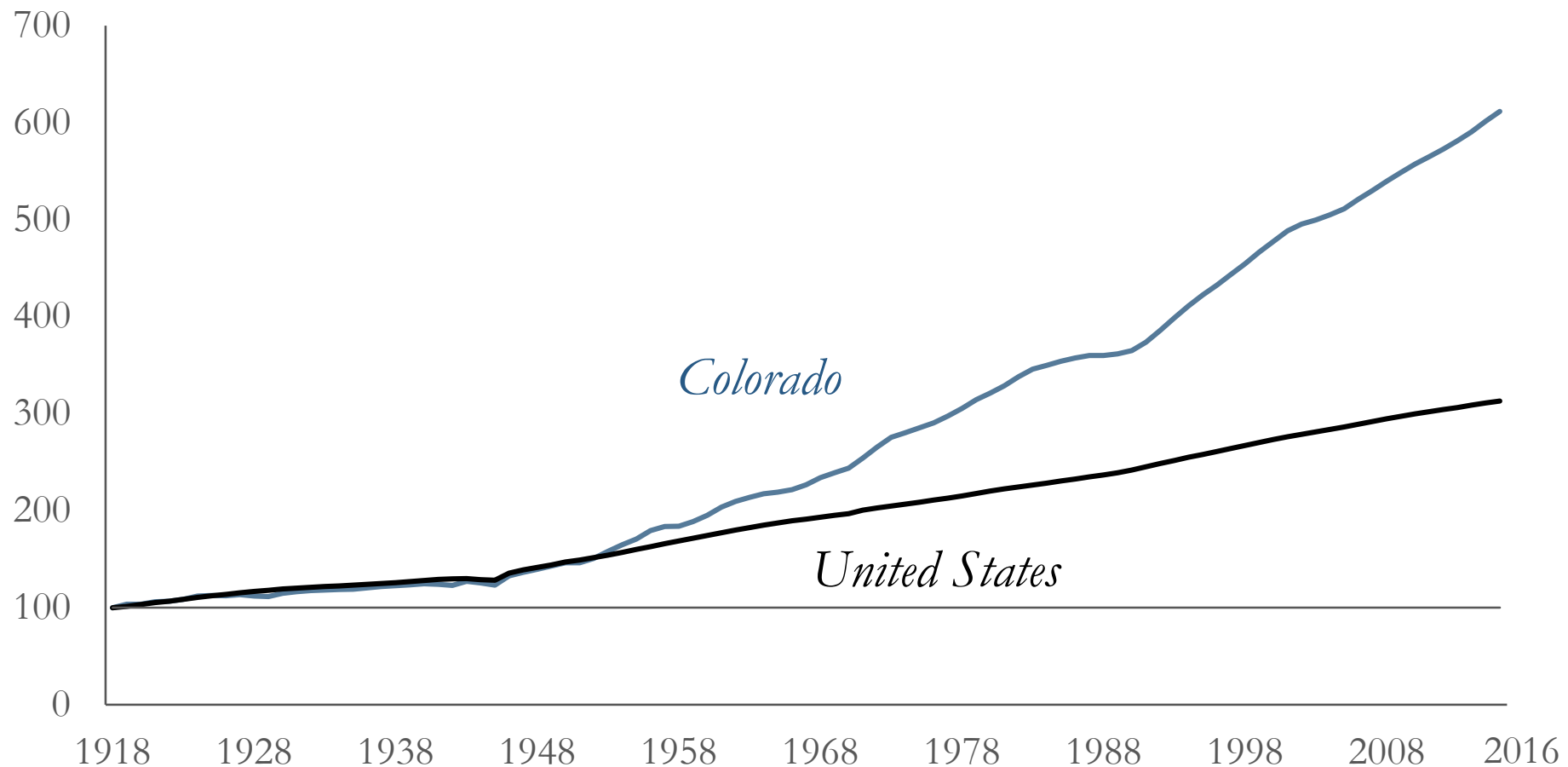


Colorado has been an attractive place to relocate for decades, and Colorado's population growth has outpaced national gains since the mid-1950s.



POPULATION

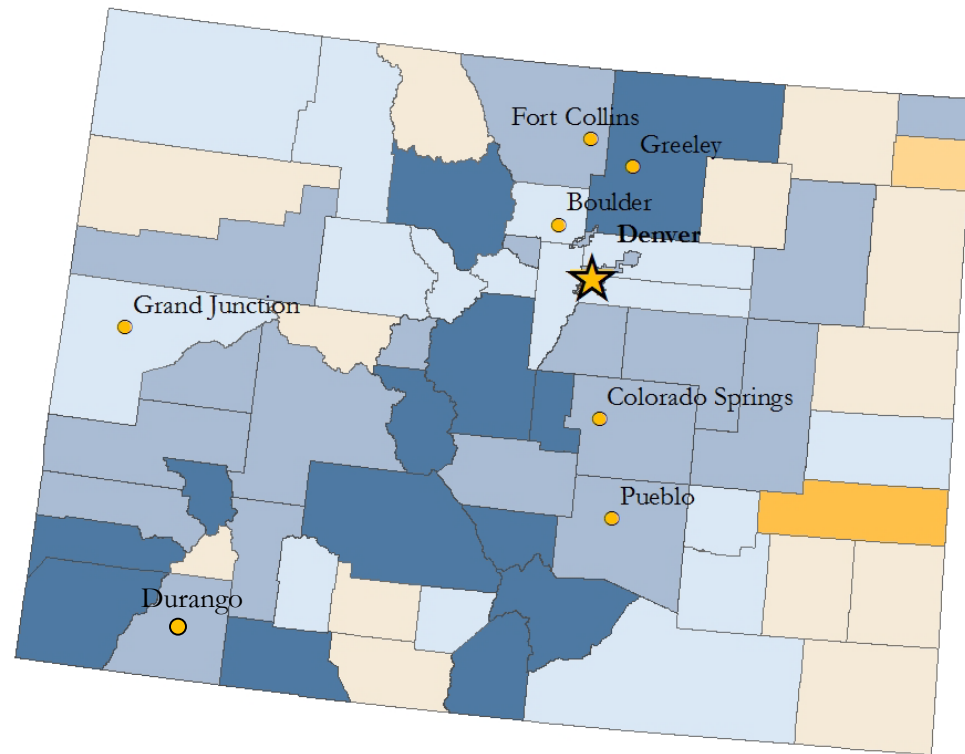
Index 100 = 1918



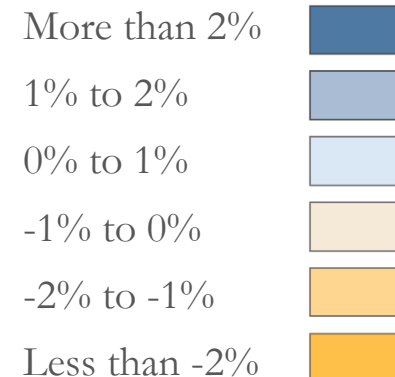
Colorado continues to experience net in-migration, but the pace of growth has slowed over the past year.

NET MIGRATION

Total 2016 Net Migration as a Percentage of 2016 Population



<i>Annual Percent Change</i>	<i>2017*</i>
United States	0.3%
Colorado	0.8%
Denver County (2016)	1.1%



*Note: 2017 numbers have currently only been released by state.

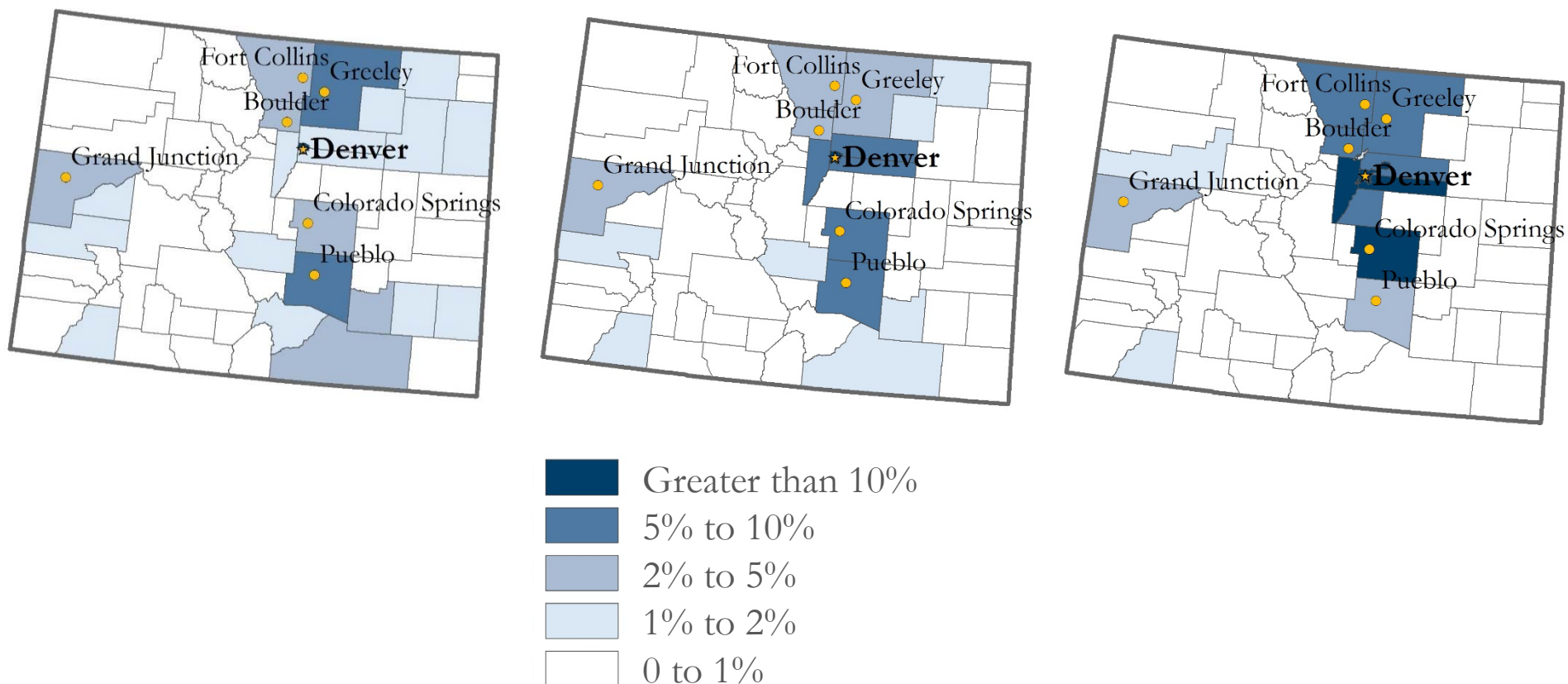
Over time, the population has been increasingly concentrated in urban areas in Colorado.

SHARE OF TOTAL POPULATION BY COUNTY

1920

1960

2016

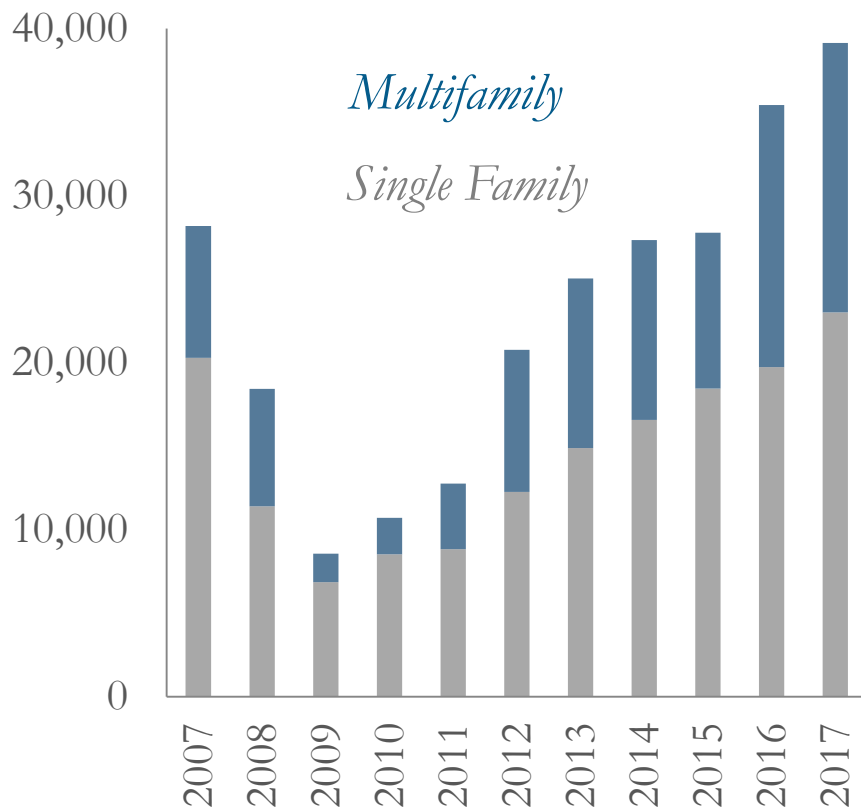


Residential construction activity has been increasing for eight years, led by strong gains in multifamily building.

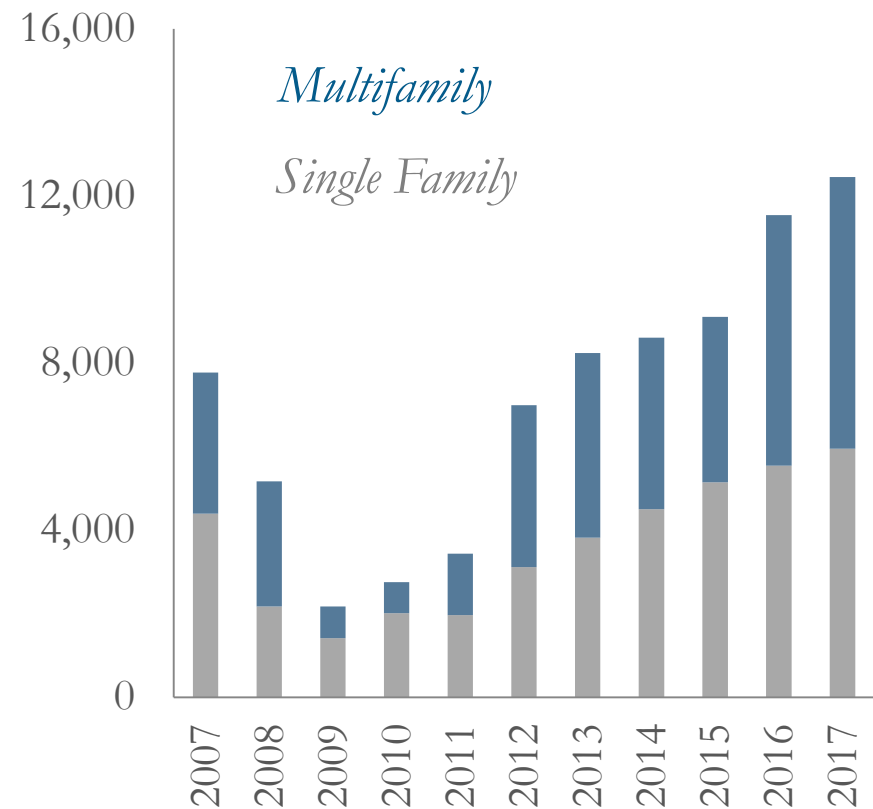
RESIDENTIAL PERMITS

Seasonally Adjusted, Year-to-Date Through November

Colorado



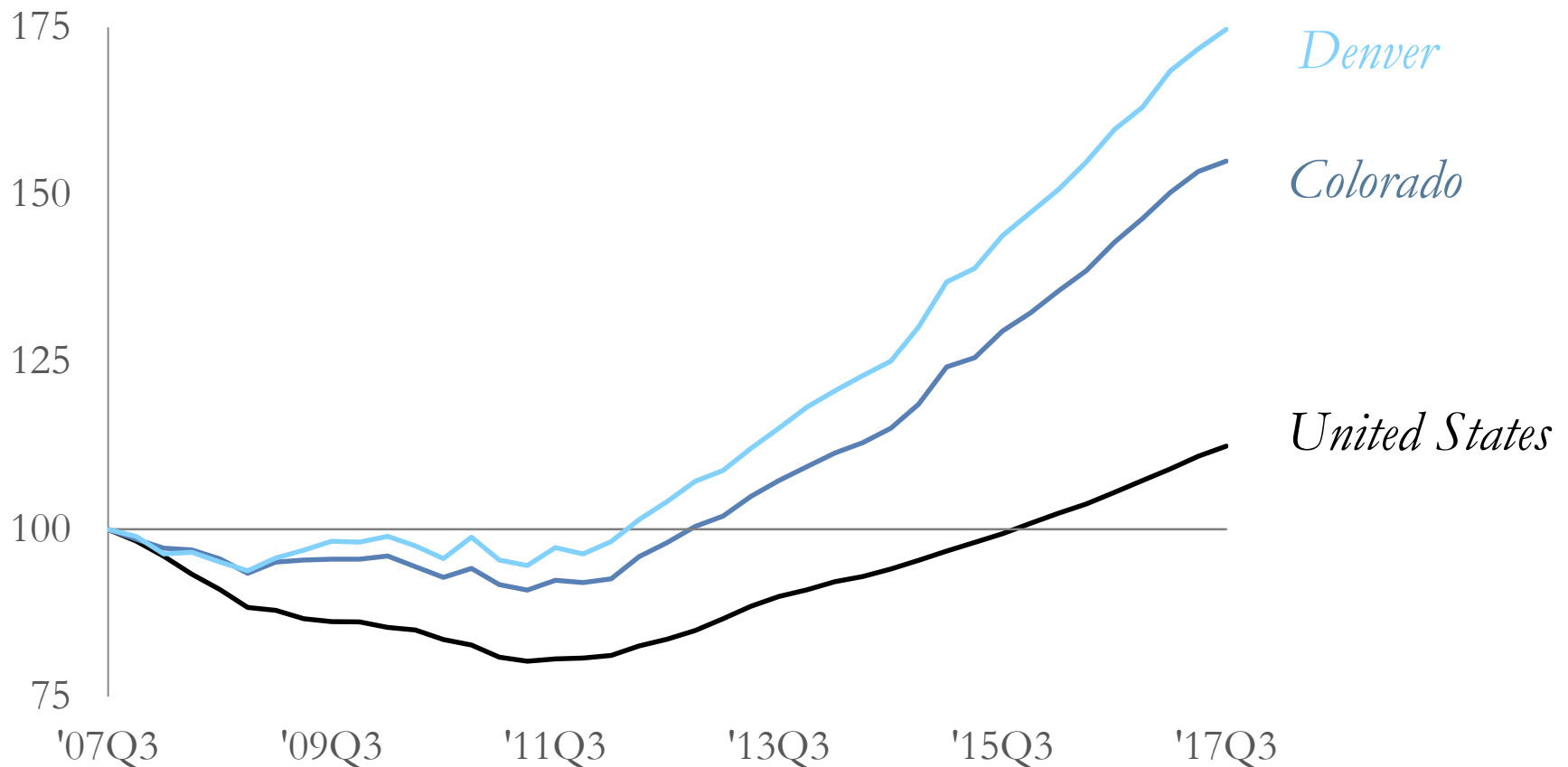
Denver



Low inventories have led to strong home price appreciation in recent years in Colorado.

HOME PRICES

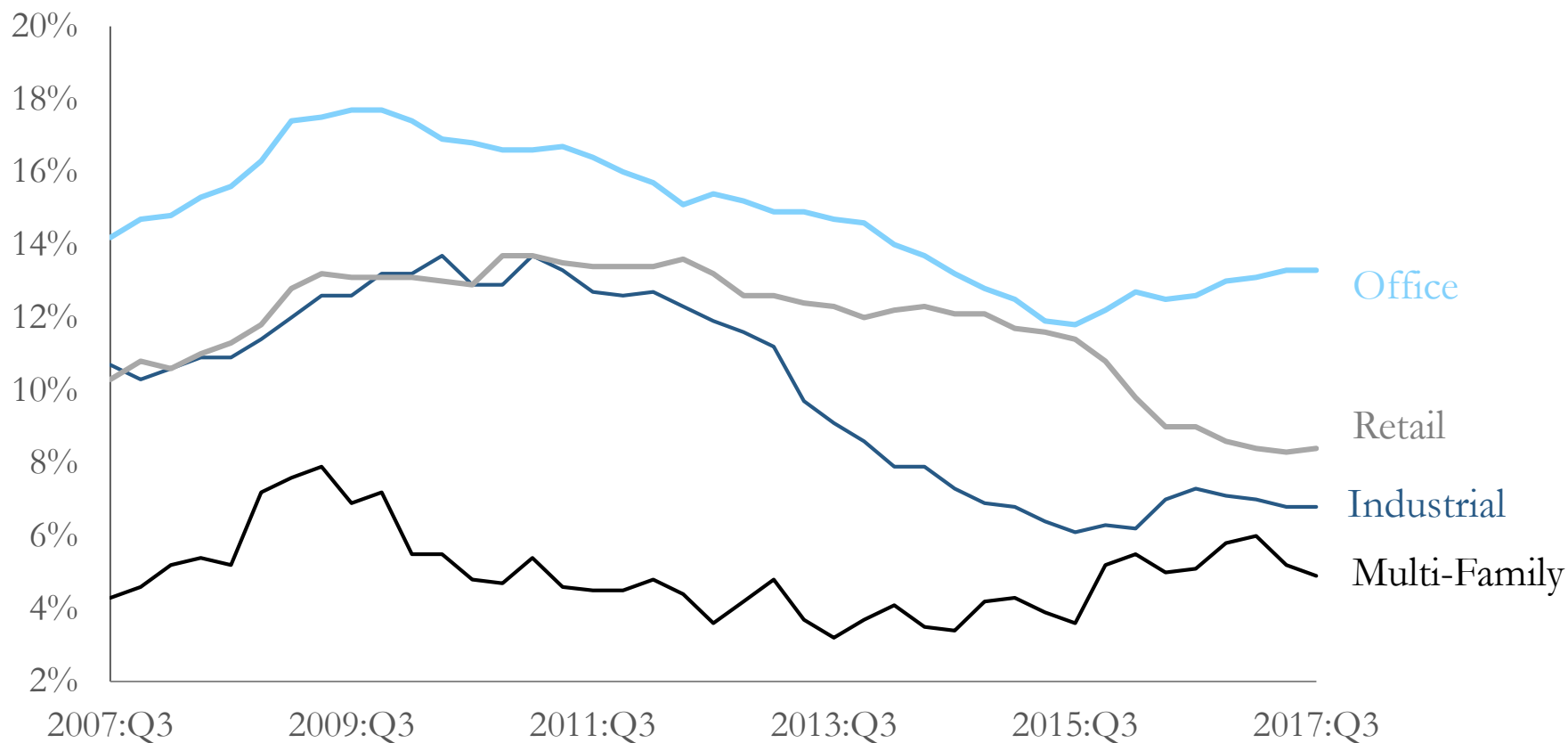
Seasonally Adjusted, Index 100 = Q3:2007



Vacancy rates are generally low across the Denver metro, but office vacancies have edged higher over the past year.



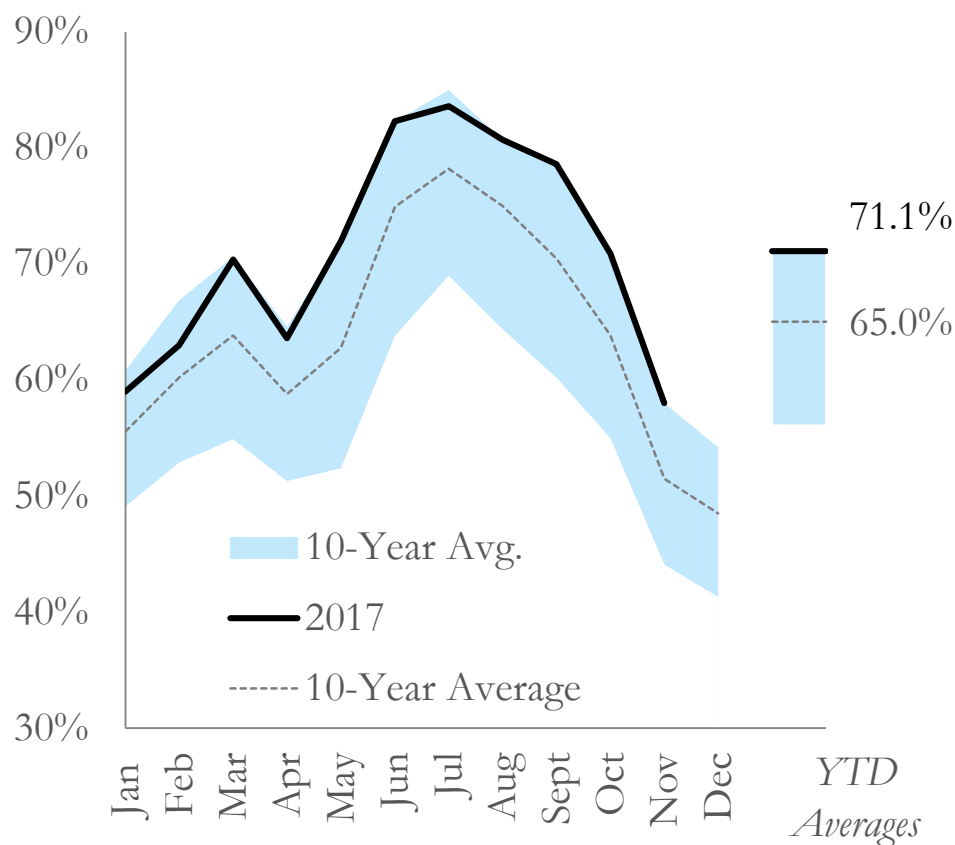
DENVER COMMERCIAL VACANCY RATES



Tourism activity has been strong in Colorado over the past few years.

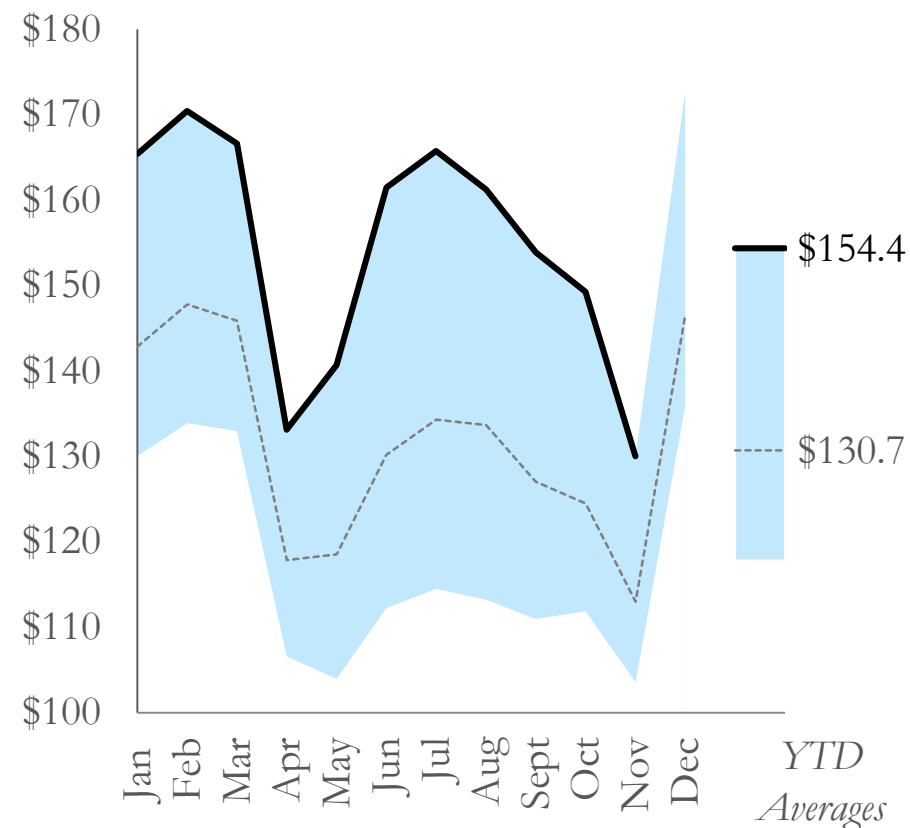
HOTEL OCCUPANCY RATES

Colorado



HOTEL ROOM RATES

Colorado, 1999 Dollars

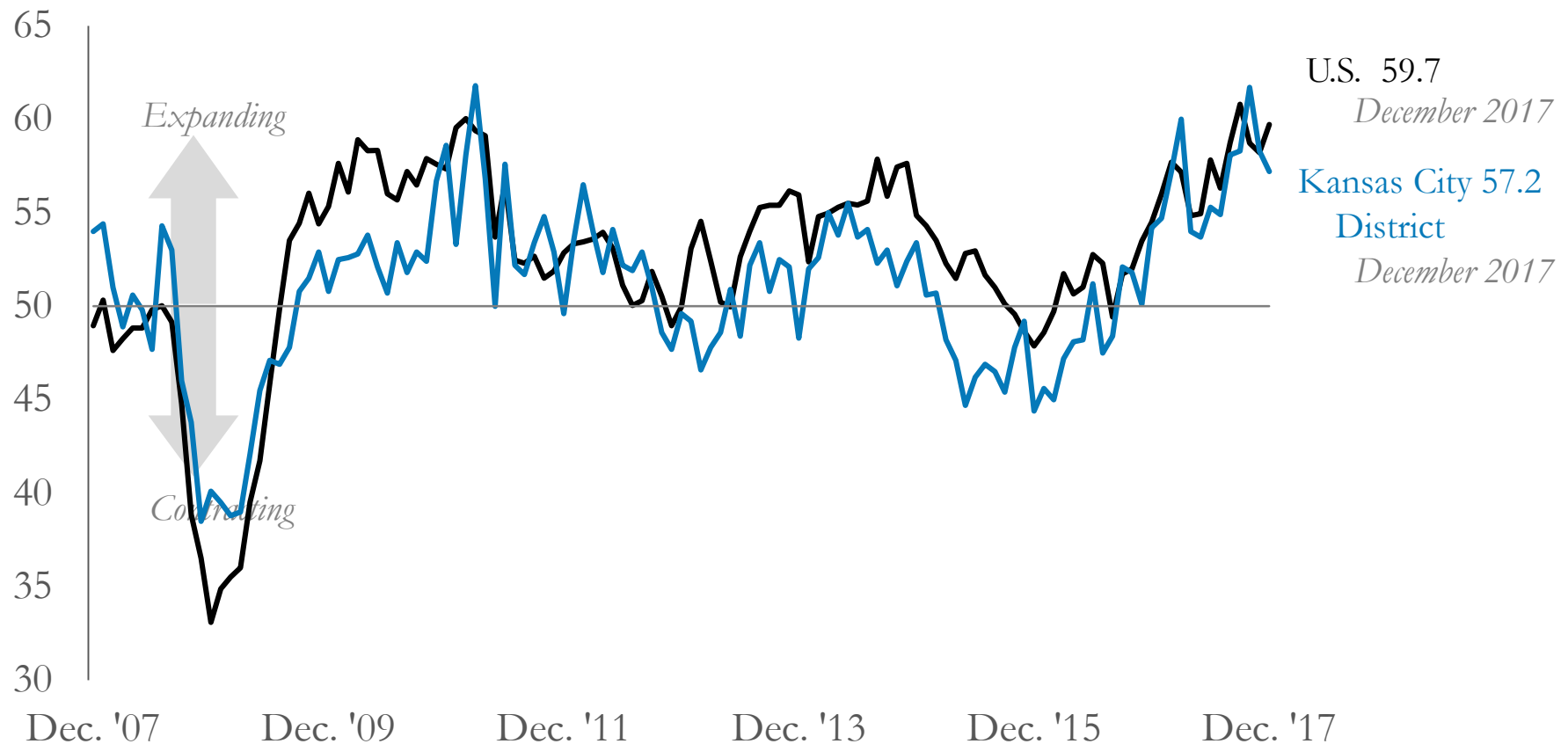


Manufacturing activity expanded in 2017 after declines the previous two years.



MANUFACTURING ACTIVITY

Diffusion Index, Seasonally Adjusted, Month-over-Month

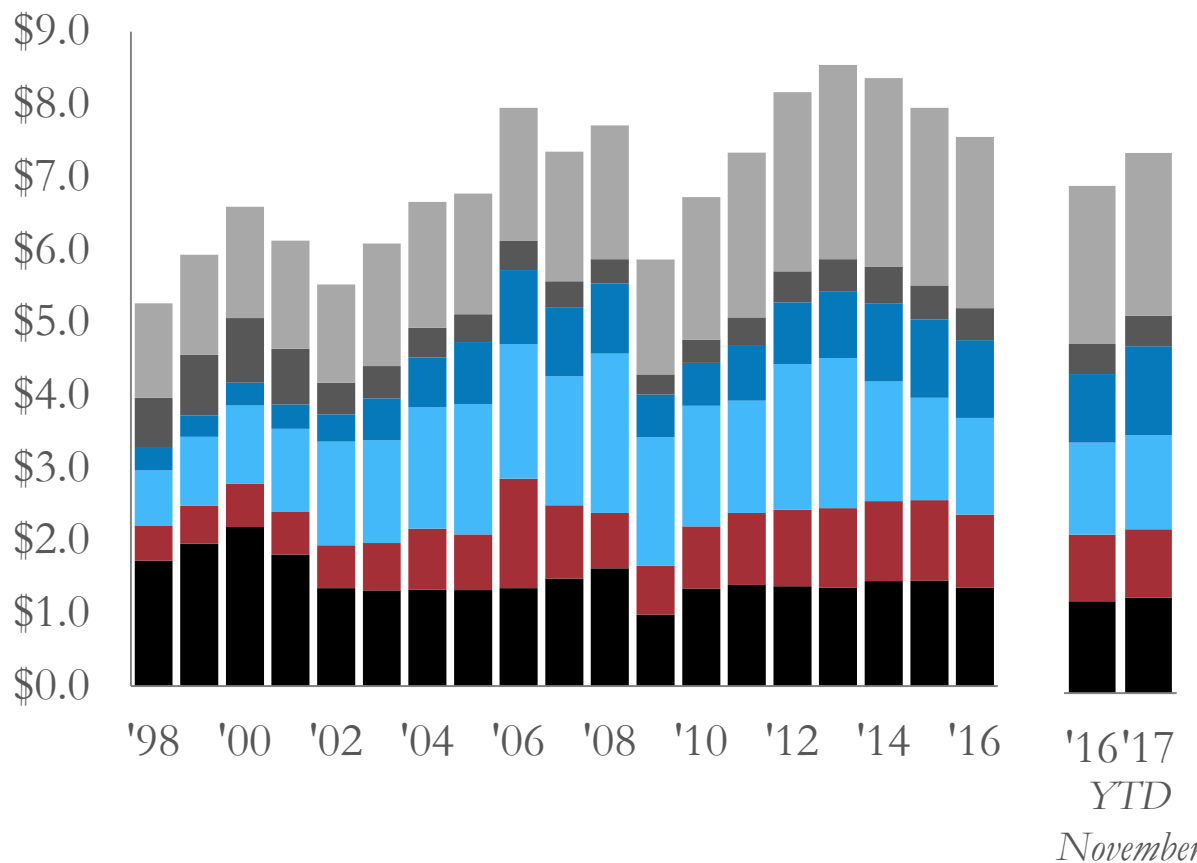


Colorado exporting activity also rebounded modestly in 2017.



COLORADO EXPORTS BY TRADING PARTNER

Billions



NOVEMBER 2017 YEAR-TO-DATE

Year-over-Year Percent Change

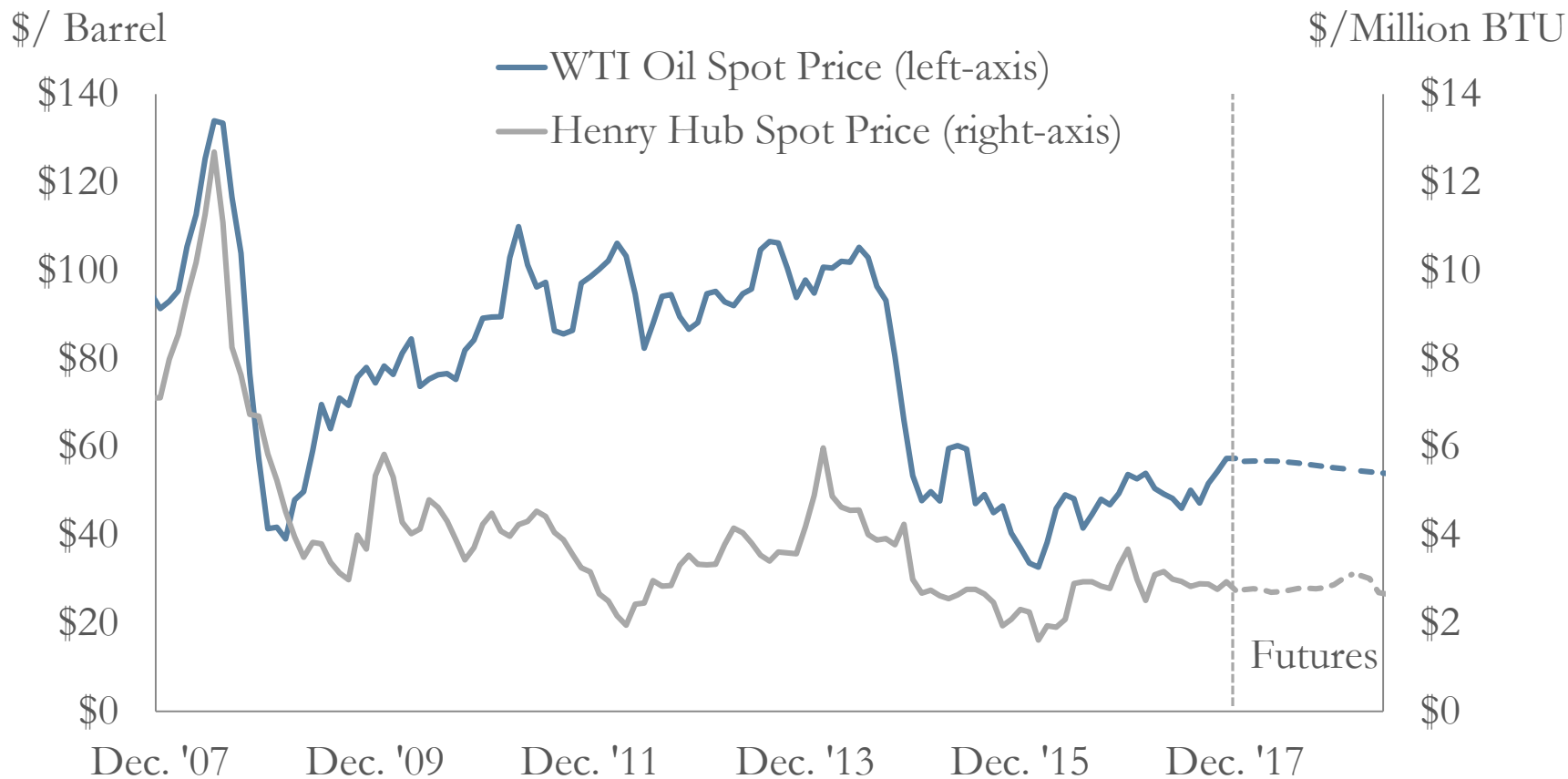
Total Trade	6.5%	SHARE*
All Other	2.9	31.1%
Japan	1.0	5.9
Mexico	30.0	14.1
Canada	2.1	17.9
China	2.9	13.2
Eurozone	3.9	17.8

**Shares are for 2016*

Oil prices have increased over the past month and are currently above average breakeven prices in the region.

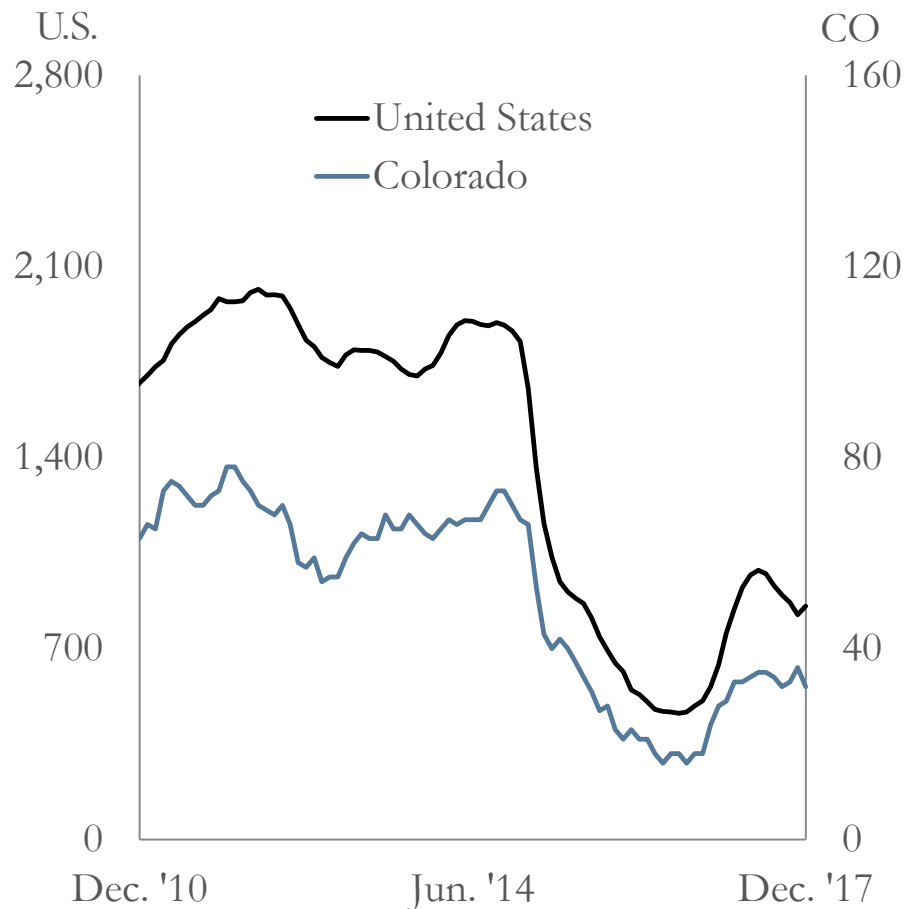


ENERGY PRICES



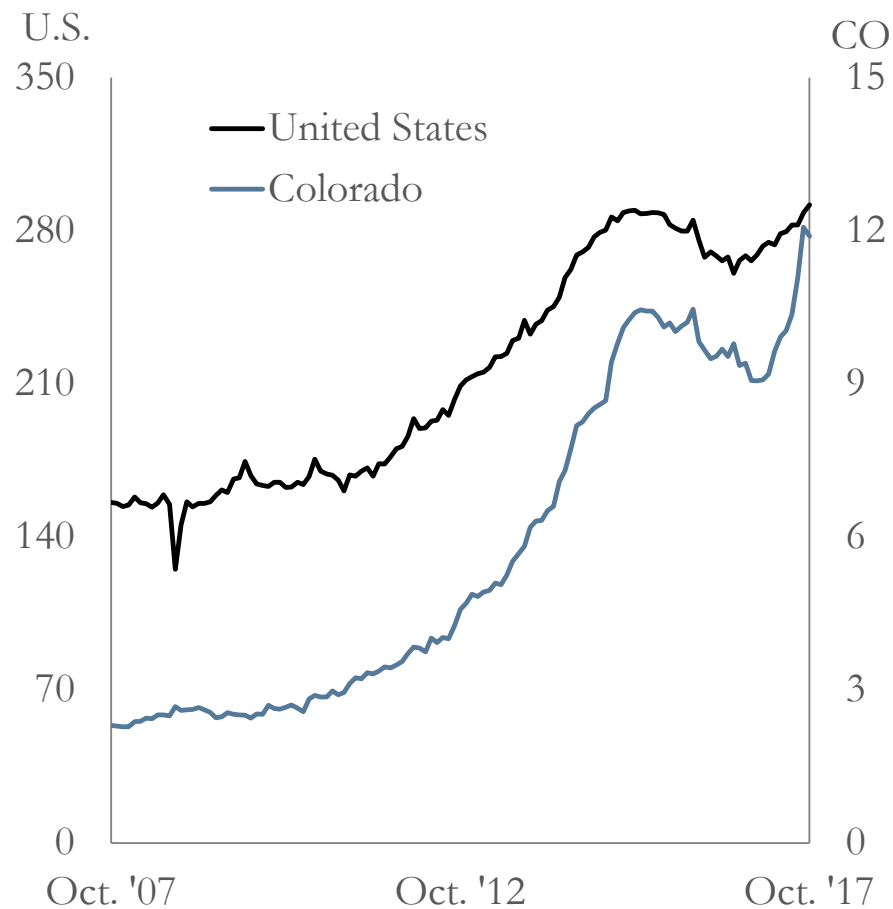
Energy activity has picked up in response to higher oil prices, and regional energy contacts expect additional gains in the coming months.

TOTAL RIG COUNT



CRUDE OIL PRODUCTION

*Millions of Barrels, Monthly,
Seasonally Adjusted*

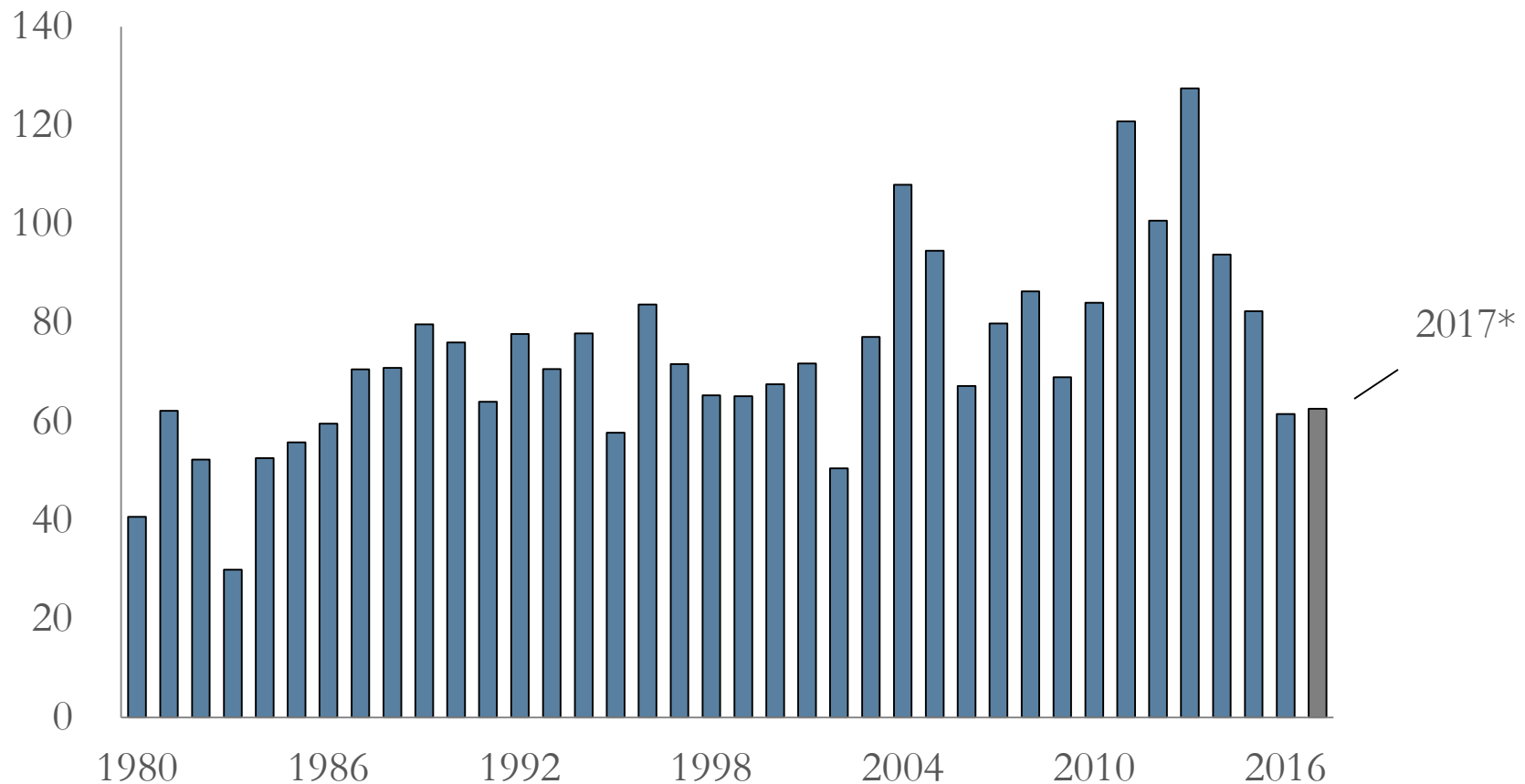


The agriculture sector has shown some signs of stabilizing, but farm incomes remain weak.



U.S. REAL NET FARM INCOME

Billions, 2016 Dollars



**Forecast for 2017*

For additional information on the regional economy:
<http://www.KansasCityFed.org/Denver>

