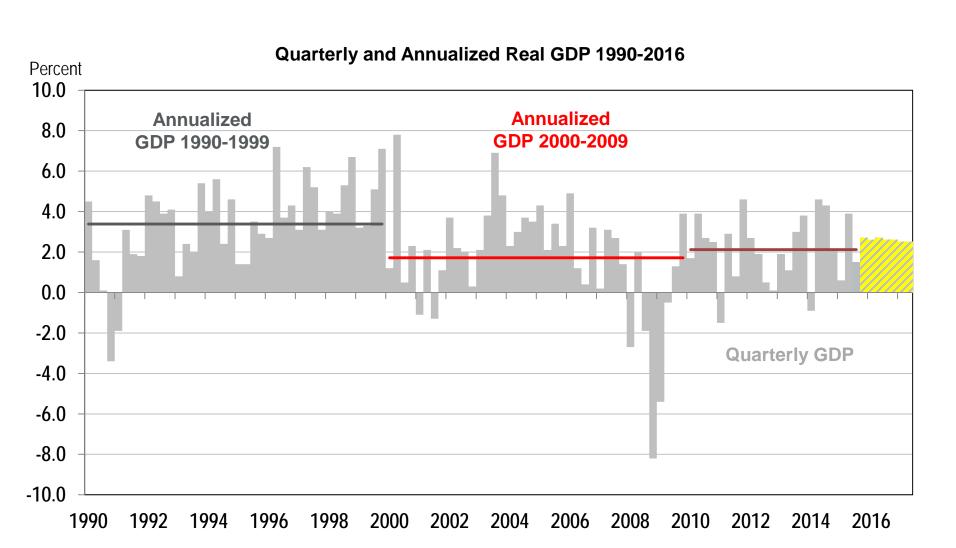
2016 Outlook: Headwinds or Tailwinds?



Brian Lewandowski Associate Director Business Research Division Leeds School of Business

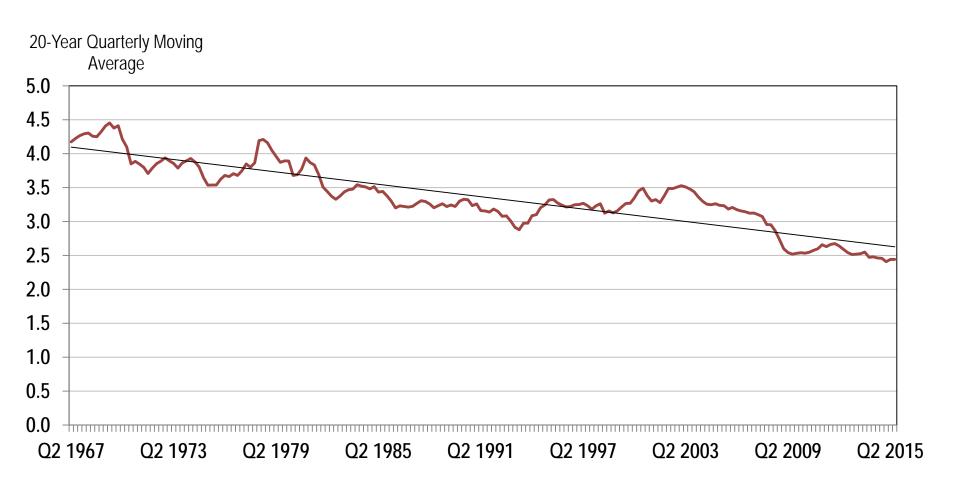


Real GDP Growth



Sources: Bureau of Economic Analysis and Consensus Forecasts.

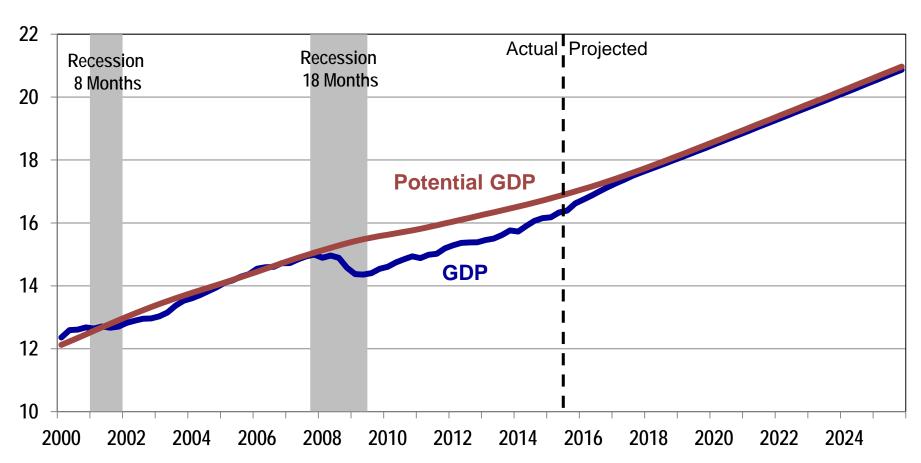
Long Term GDP Growth Trend



Sources: Bureau of Economic Analysis and Consensus Forecasts.

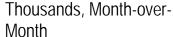
GDP and Potential GDP

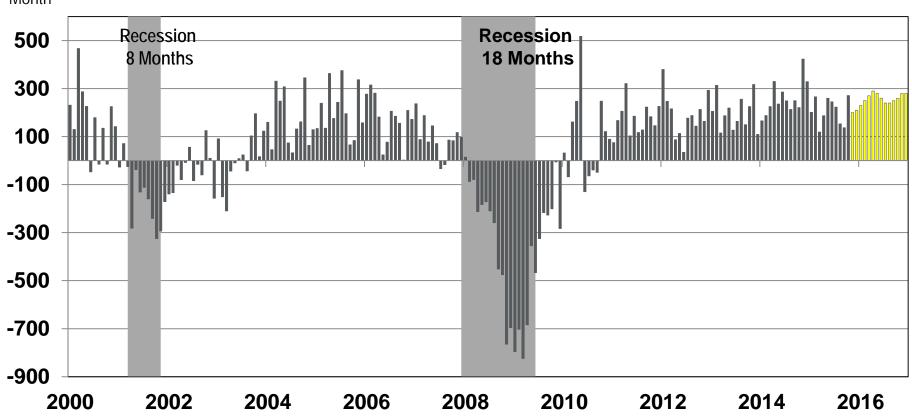
Trillions, USD



Source: Congressional Budget Office, Budget and Economic Outlook, Fiscal Years 2015 to 2025.

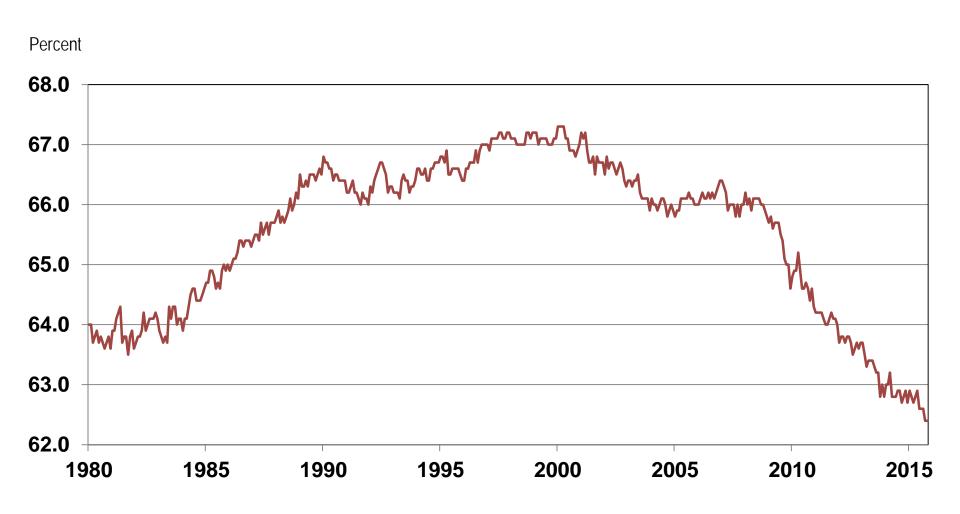
National Employment





Sources: Bureau of Labor Statistics (Seasonally Adjusted), National Bureau of Economic Research, and NABE Outlook.

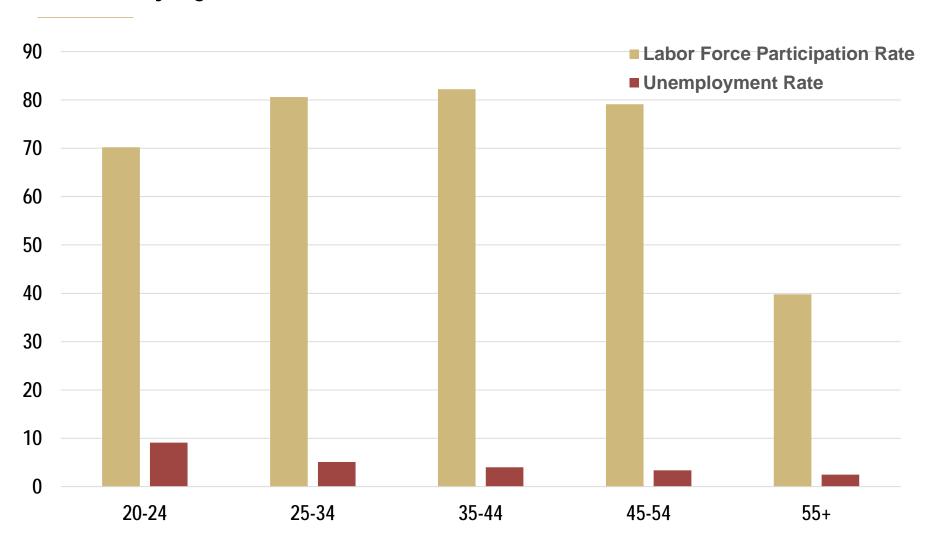
Labor Force Participation Rate



Sources: Bureau of Labor Statistics (Seasonally Adjusted), National Bureau of Economic Research, and NABE Outlook.

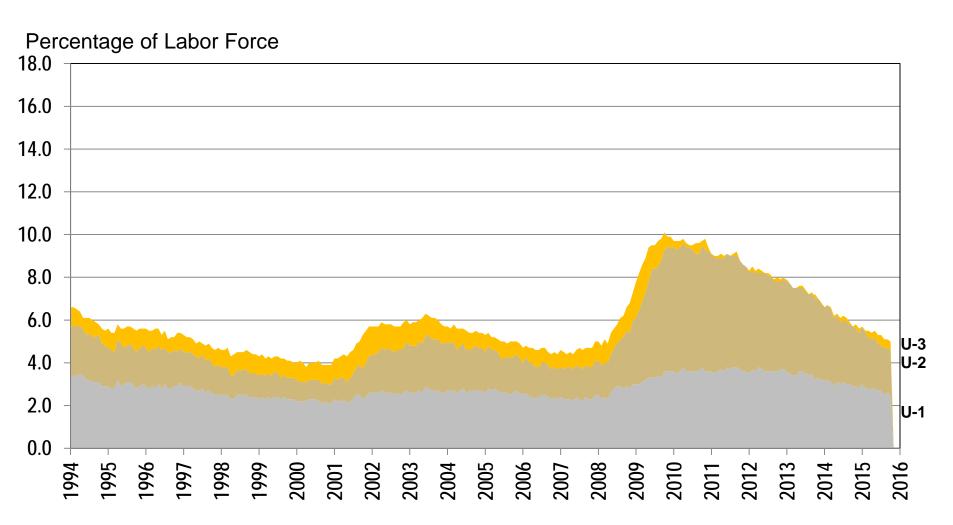
Labor Force and Unemployment Rate

National by Age Cohort October 2015



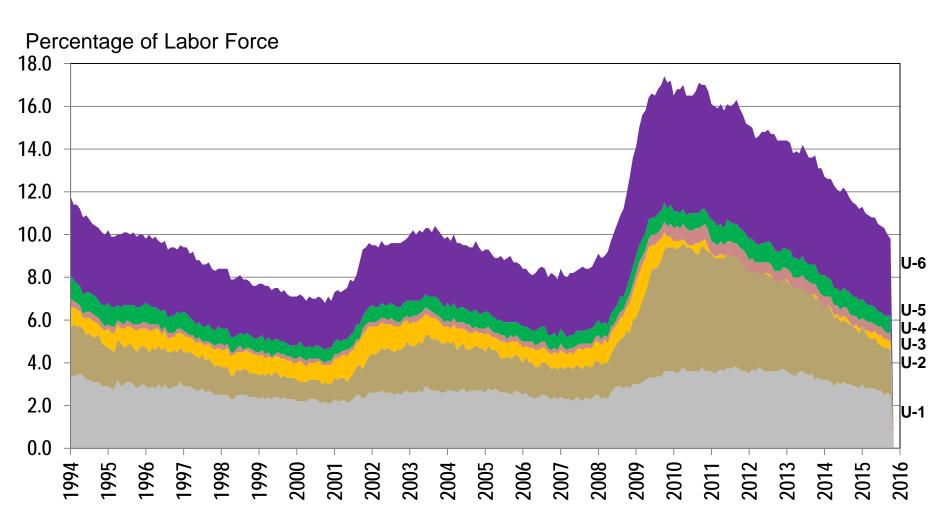
Source: Bureau of Labor Statistics, Current Population Survey (CPS).

Unemployment Rate



Source: Bureau of Labor Statistics (Seasonally Adjusted).

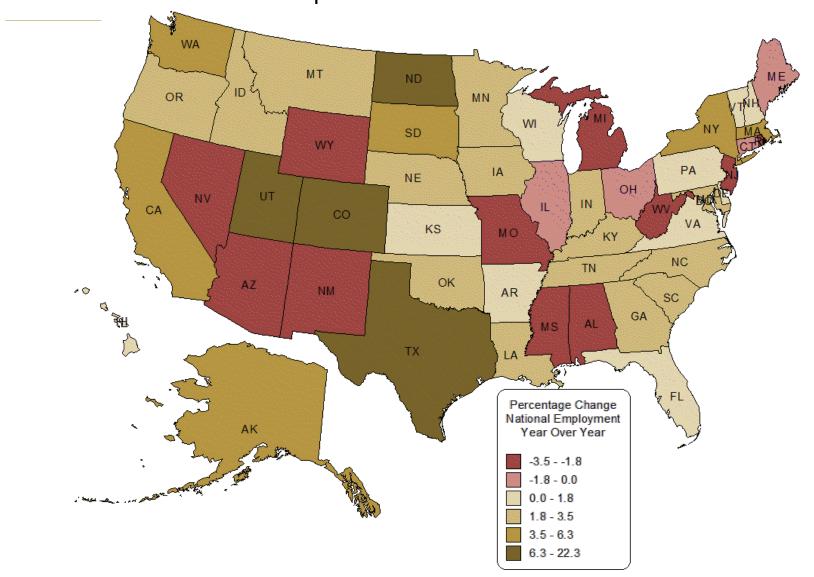
Labor Underutilization



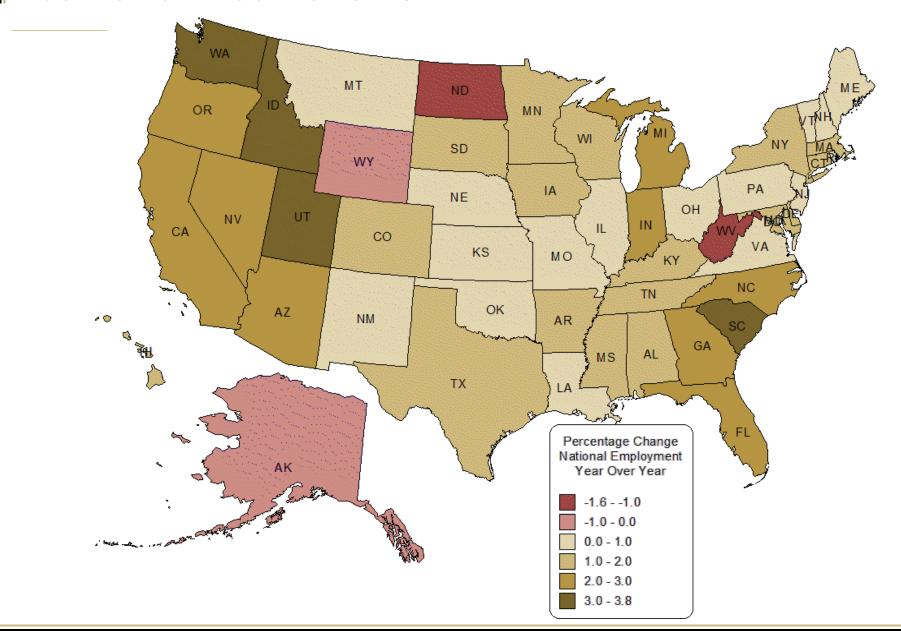
Source: Bureau of Labor Statistics (Seasonally Adjusted).

State Employment Growth

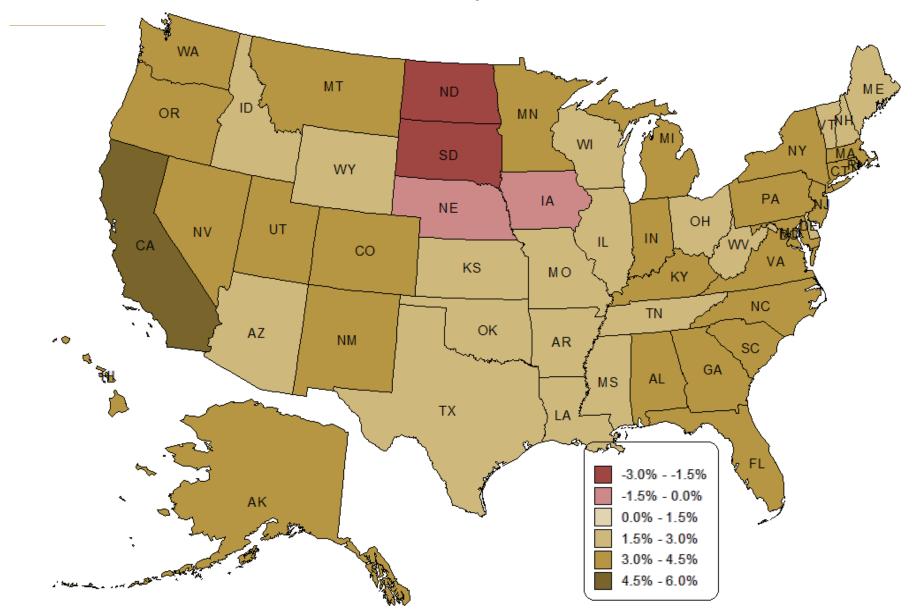
Pre-Recession Peak to September 2015



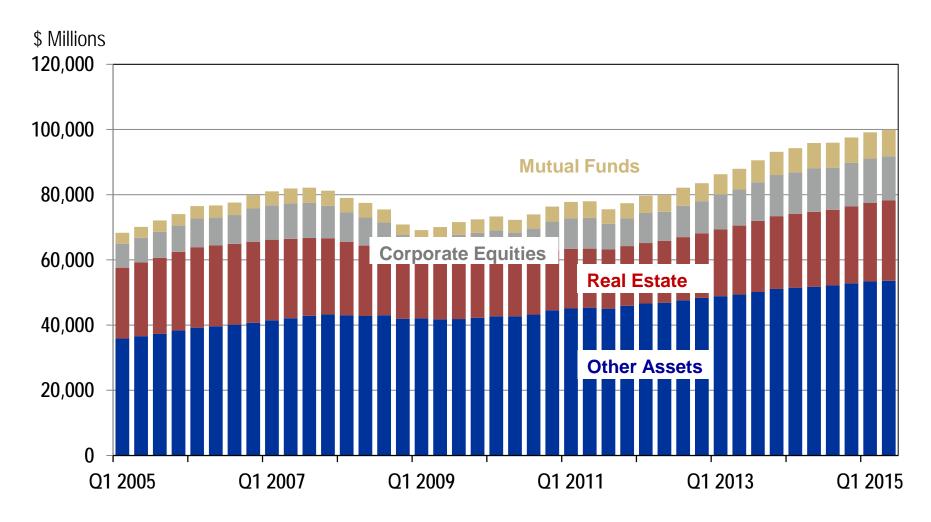
Year-over-Year Growth



Personal Income Growth, Q2 2014-Q2 2015



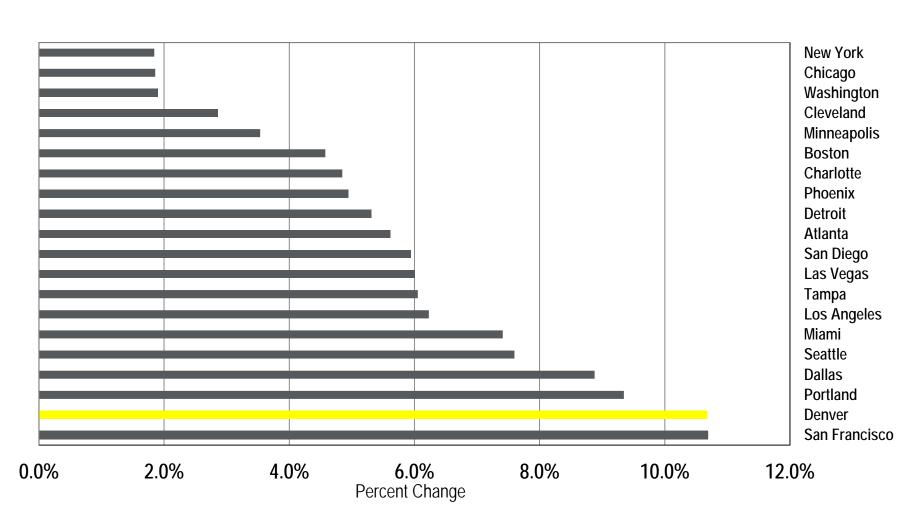
Household Wealth



Source: Federal Reserve Board, Balance Sheet of Households and Nonprofit Organizations (B100) (Not Seasonally Adjusted).

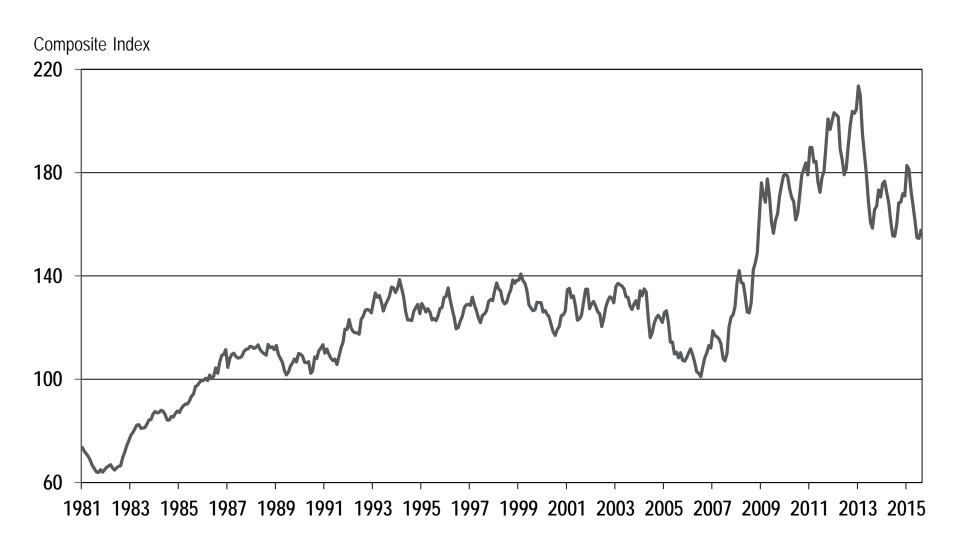
S&P/Case-Shiller Home Price Indices

August 2015



Source: Standard & Poor's (Not Seasonally Adjusted).

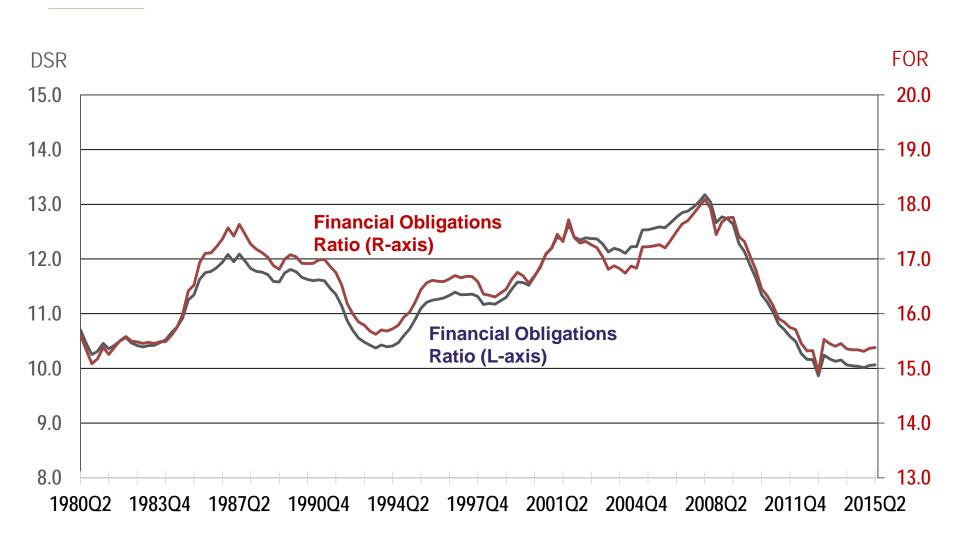
Housing Affordability Index



Source: National Association of Realtors.

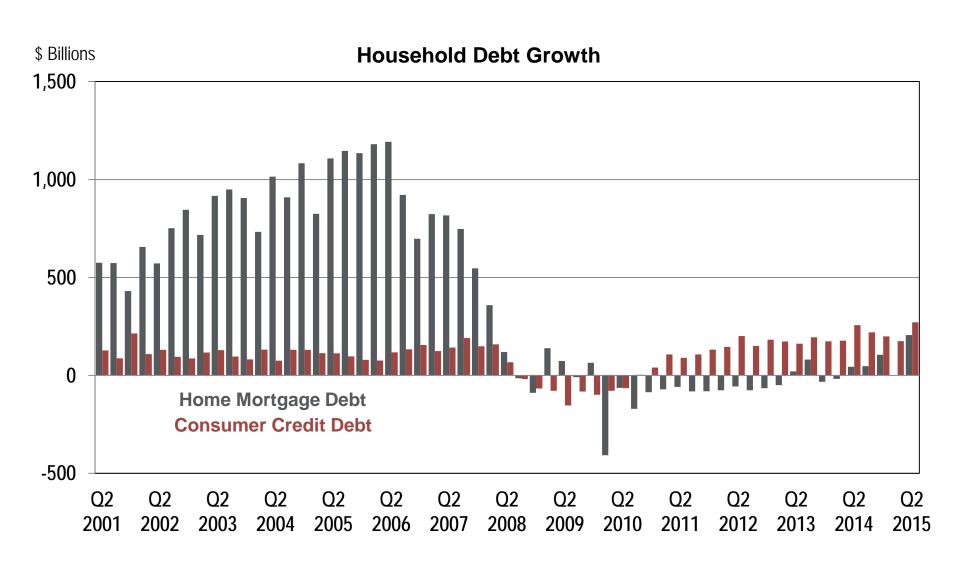
Household Debt Burden

Percent of Disposable Income



Source: Federal Reserve, Household Debt Service and Obligations Ratios.

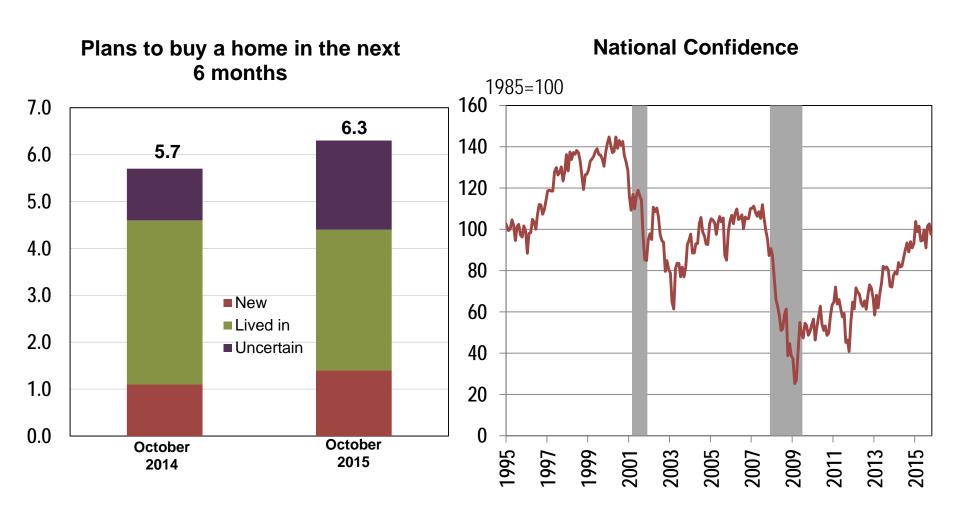
Household Debt Growth



Source: U.S. Flow of Funds Account, Z.1 data release.

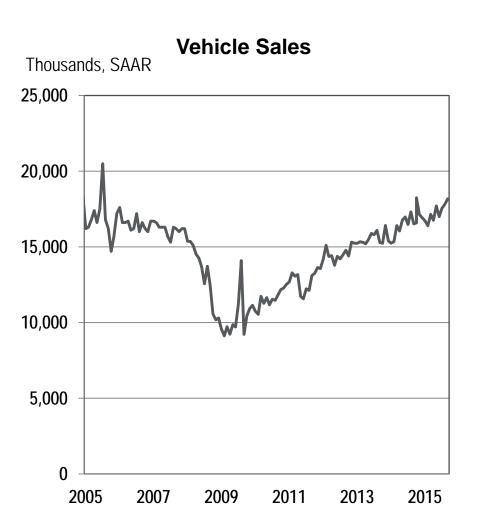
Index of Consumer Confidence

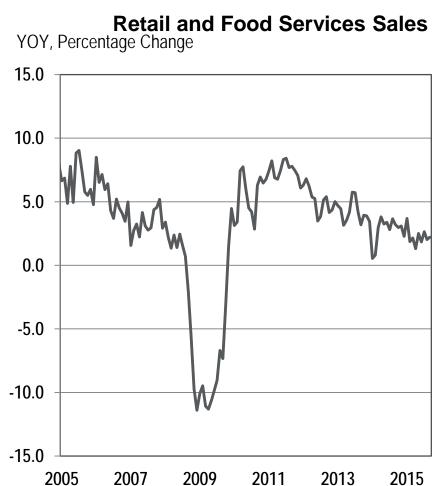
Housing



Sources: The Conference Board and National Bureau of Economic Research.

Vehicle Sales and Retail Sales

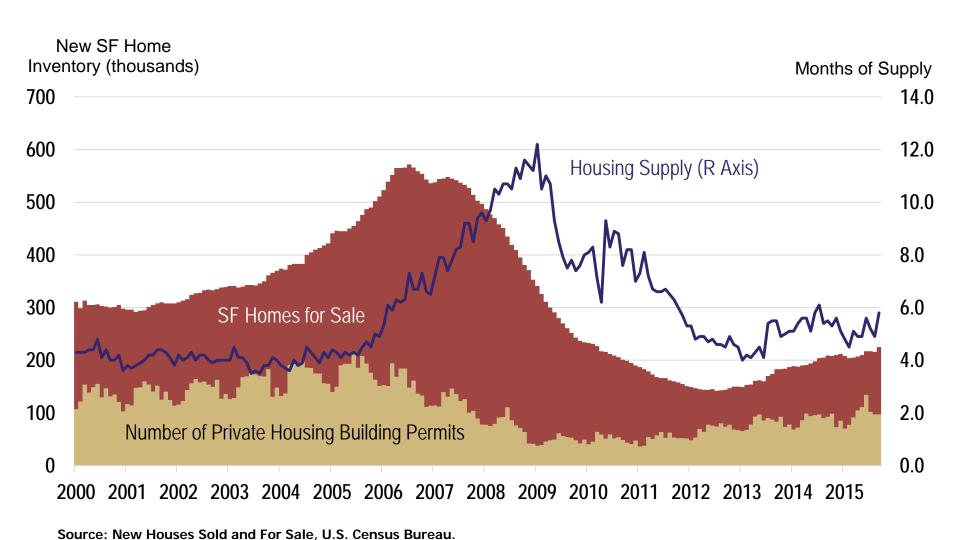




Sources: Seasonally Adjusted Annual Rate, Autodata Corp., Motor Intelligence, U.S. Census Bureau.

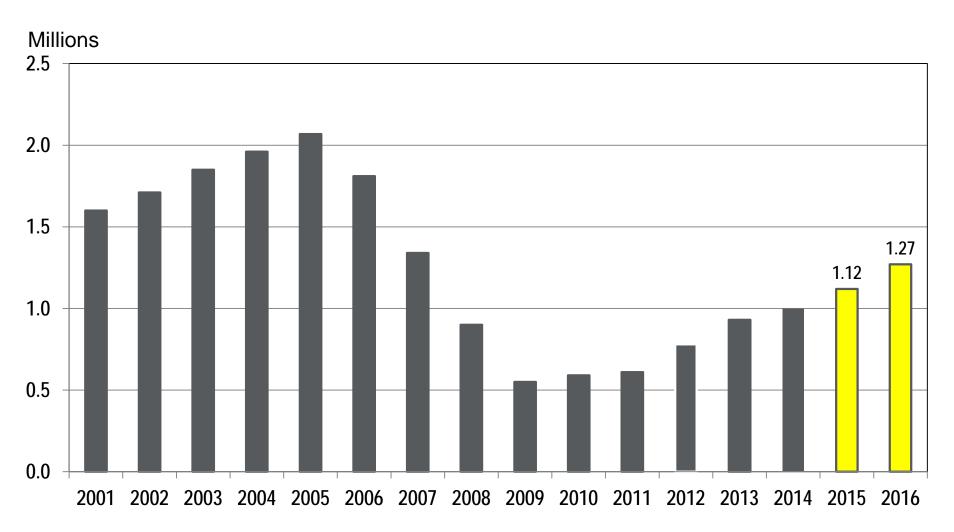
U.S. Housing

Supply, Inventory, and Permits



Business Research Division | Leeds School of Business | University of Colorado Boulder

National Housing Starts



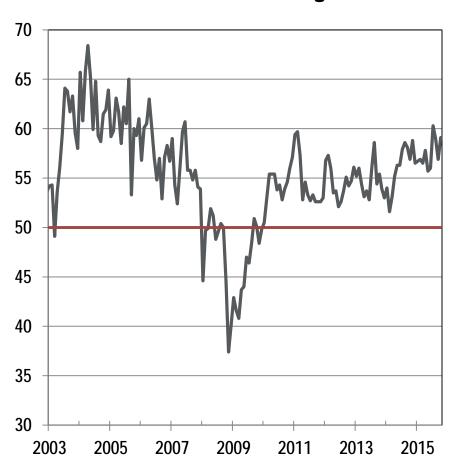
Sources: U.S. Census Bureau and Consensus Forecasts.

ISM Indices

ISM Manufacturing Index



ISM Non-Manufacturing Index



Source: Institute for Supply Management (ISM).

The FED

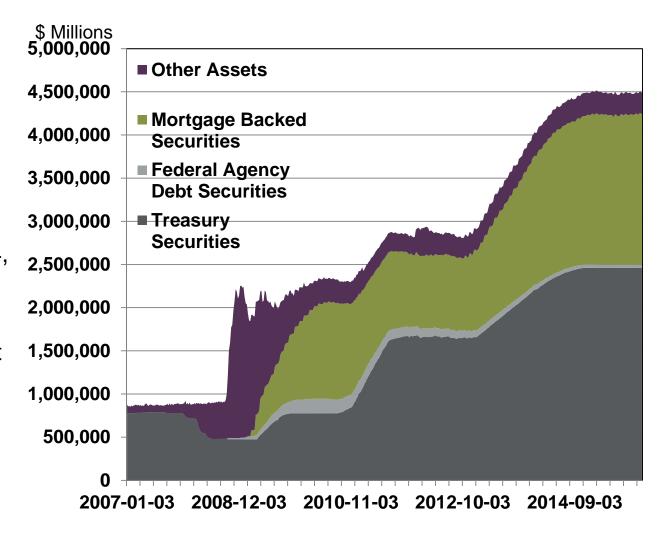
• QE 1

• QE 2

 Fed promises near zero interest rates until mid-2013, 2014, 2015, 2016, 2017?

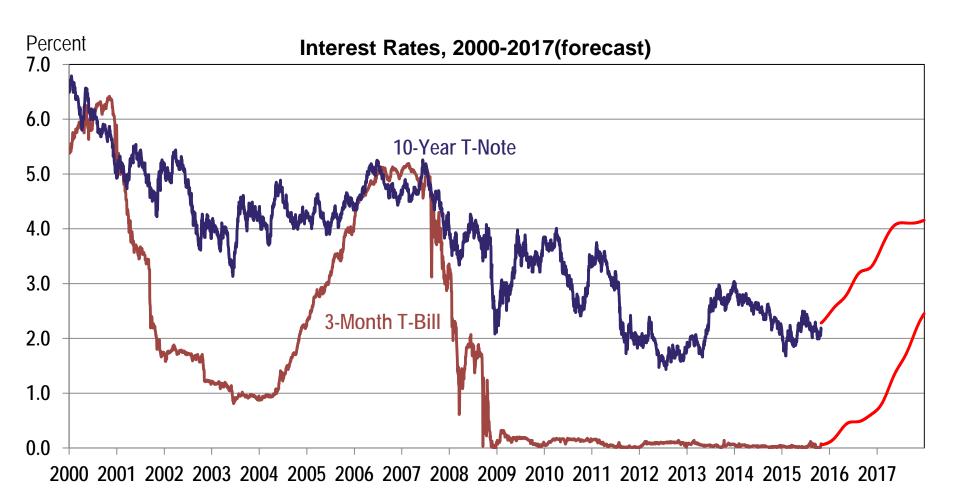
Large balance sheet

 Key Rate Change in December?



Source: Federal Reserve Balance Sheet.

Interest Rates



Source: Federal Reserve and Moody's Analytics.

The Colorado Economy









(Cameron Redwine)

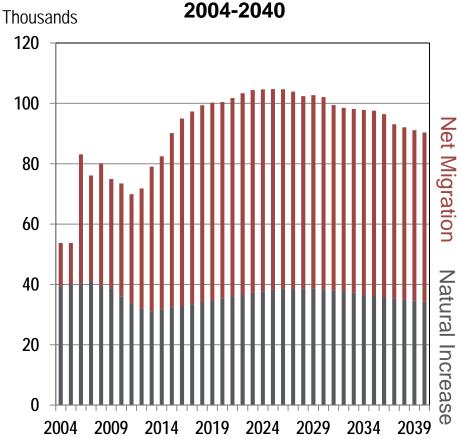
Colorado Rankings

Metric	1-Year	3-Year	5-Year	10-Year
Real GDP Growth	5	3	9	9
Employment Growth	21	6	5	5
Population Growth	4	3	4	6
Personal Income Growth	7	1	3	9
PCPI Growth	9	12	23	29
PCPI	14	16	13	12
Average Annual Pay Growth	8	16	20	20
Average Annual Pay	13	12	12	12
Unemployment Rate	13	27	29	22
Labor Force Growth	38	17	12	7
FHFA Home Price Index	1	5	6	4

Data Sources: Bureau of Economic Analysis, Bureau of Labor Statistics, U.S. Census Bureau, Federal Housing Finance Agency, and the Colorado State Demography Office. BRD calculations. Note: 1-year, 3-year, and 5-year are based on the compound annual growth rate.

Change in Population



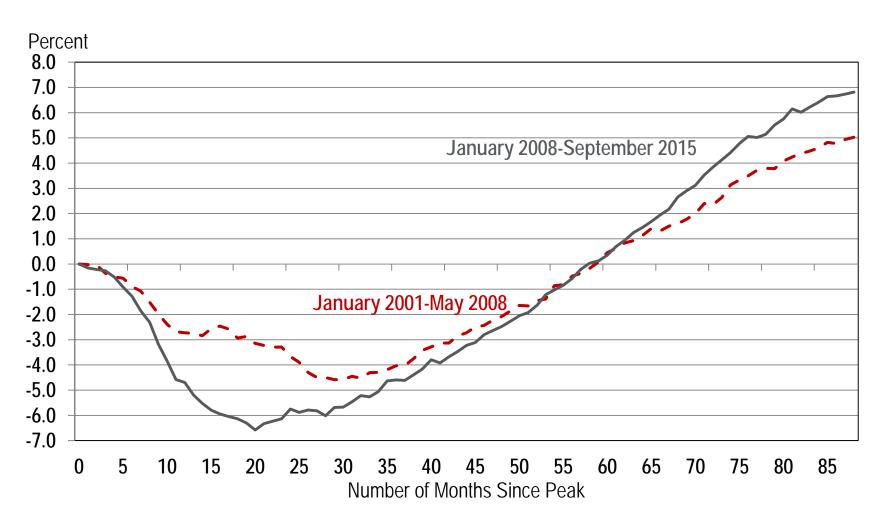


4th-fastest state for percentage growth
8th-fastest state for absolute growth
22nd-most populated state in nation
Continued net migration into the state
83% of population along Front Range

Source: Colorado Demography Office.

Colorado Employment

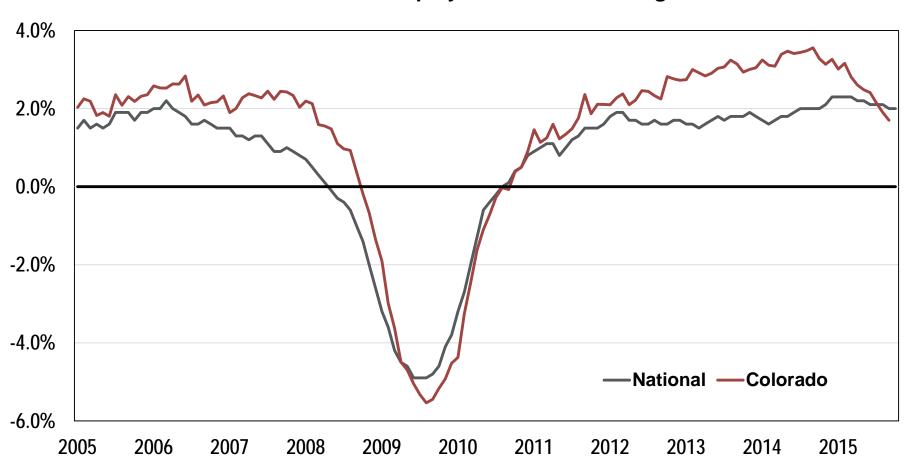
Months to Recovery



Source: Bureau of Labor Statistics (Seasonally Adjusted).

National and Colorado Job Growth

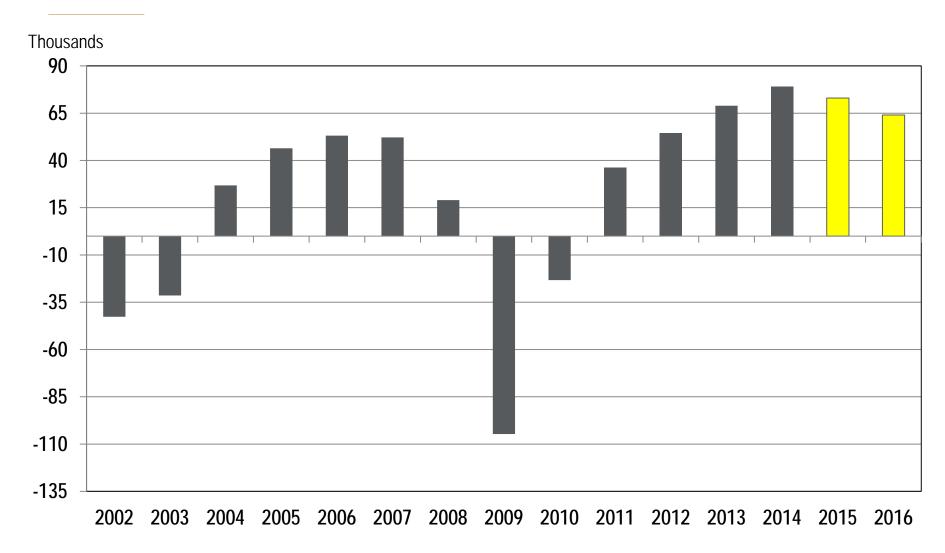
Year-over-Year Employment Percent Change



Source: Bureau of Labor Statistics, CES.

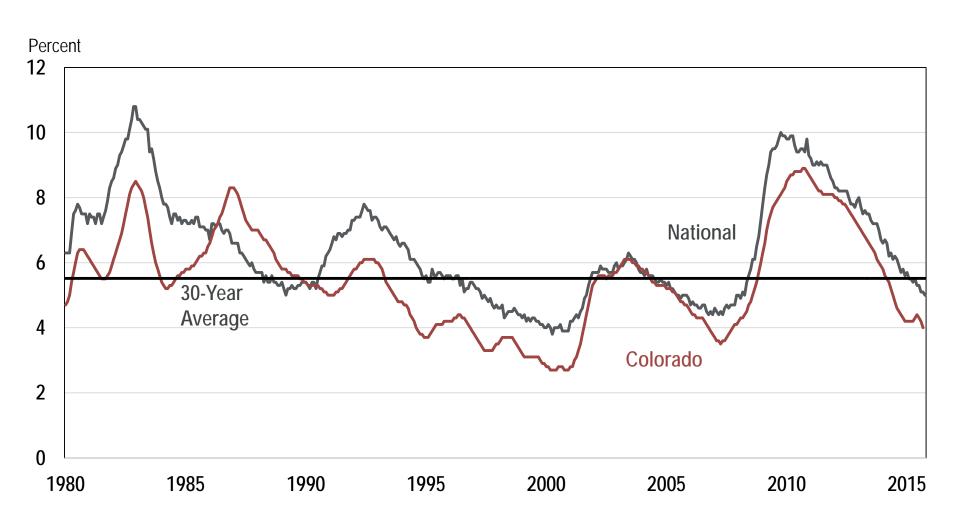
Colorado Employment

Workers Added 2002-2016 (Projected)



Sources: Colorado Department of Labor and Employment and Colorado Business Economic Outlook Committee.

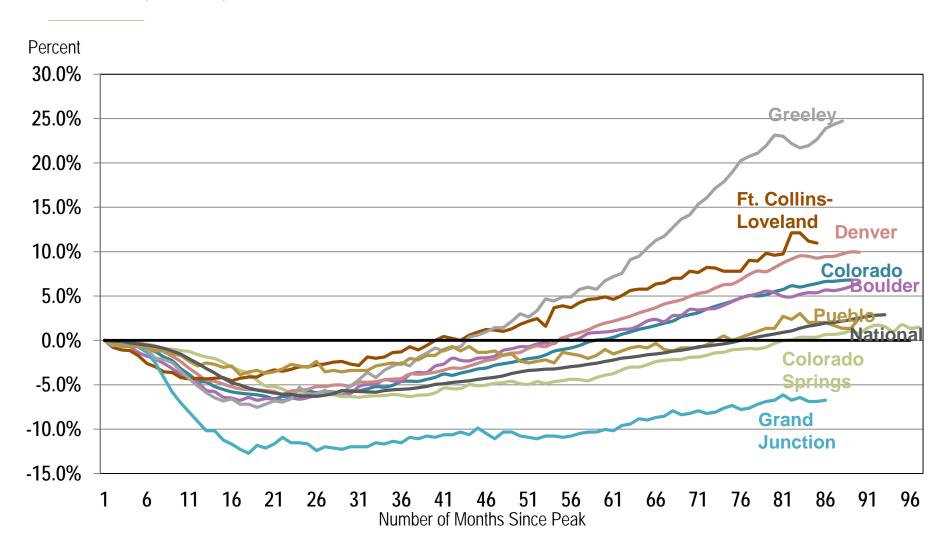
Unemployment Rate



Source: Bureau of Labor Statistics, CES.

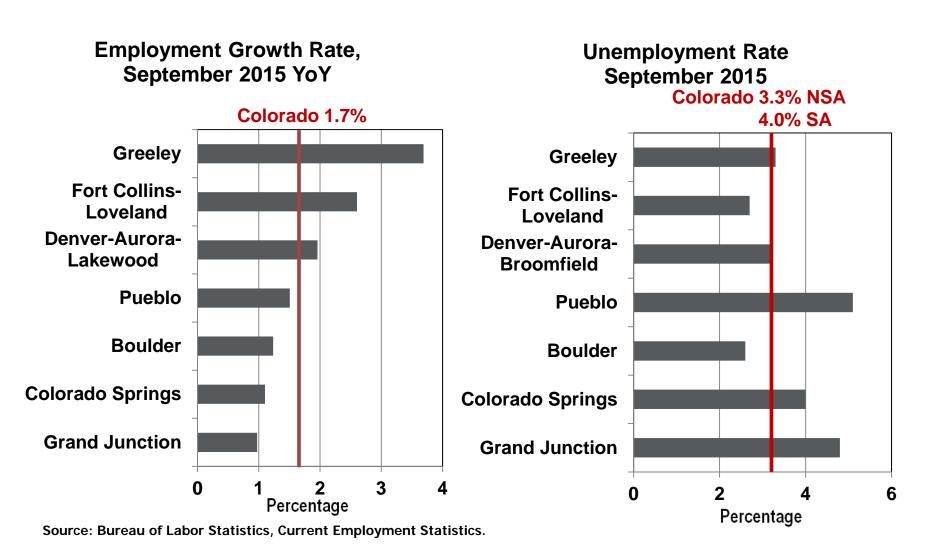
Employment Recovery

National, State, and Local



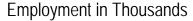
Source: Bureau of Labor Statistics (Seasonally Adjusted).

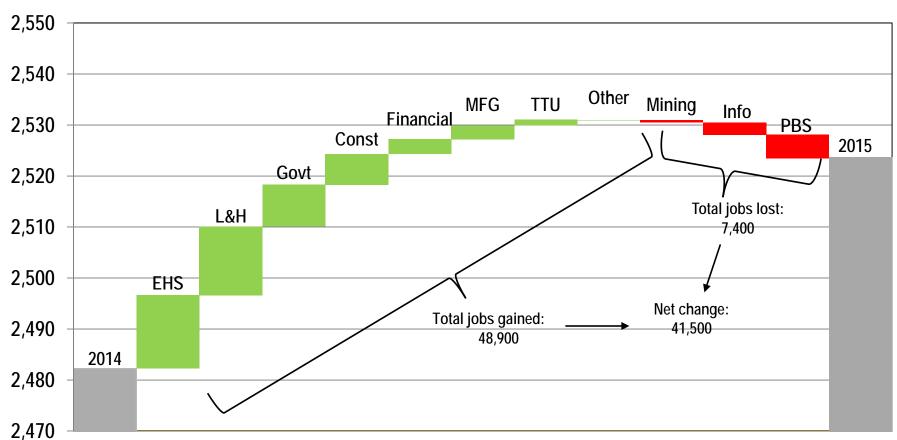
Regional Employment Growth and Unemployment



Colorado Industry Growth

September 2014 – September 2015

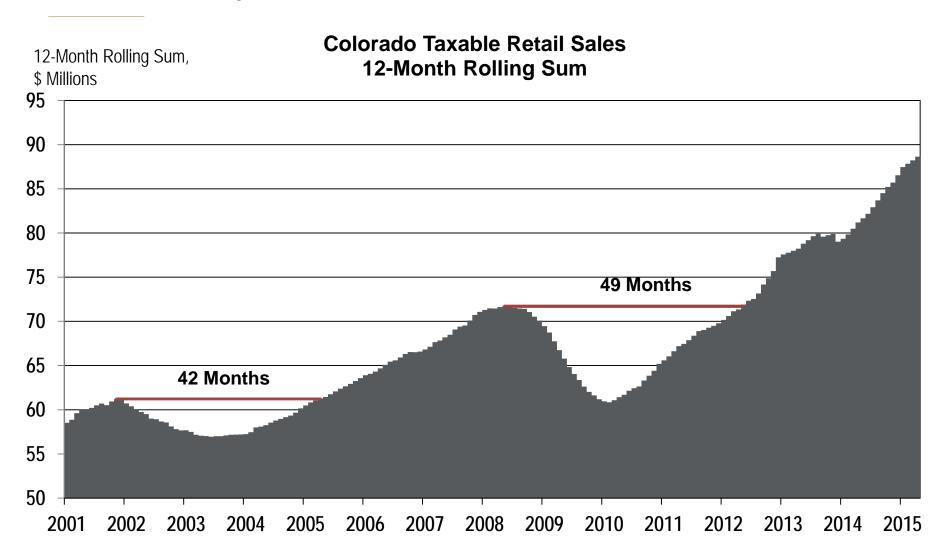




Source: Bureau of Labor Statistics, Current Employment Statistics (SA).

Colorado Taxable Retail Sales

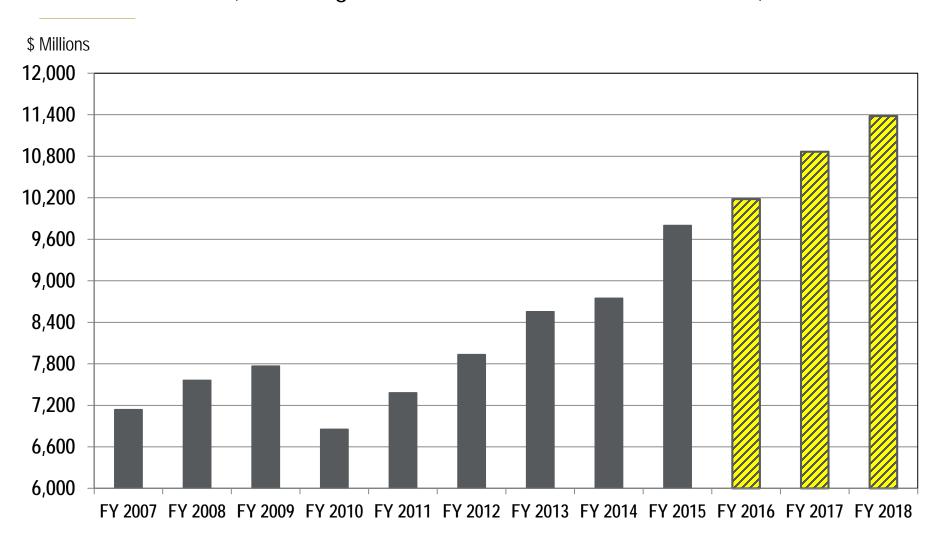
12-Month Rolling Sum



Sources: Colorado Department of Revenue and Colorado Business Economic Outlook Committee.

Colorado General Fund

Gross Revenue (excluding reserves, diversions, and transfers)



Source: Colorado Office of State Planning and Budgeting, excluding reserves, diversions, and transfers, December 2014.

Housing and Construction



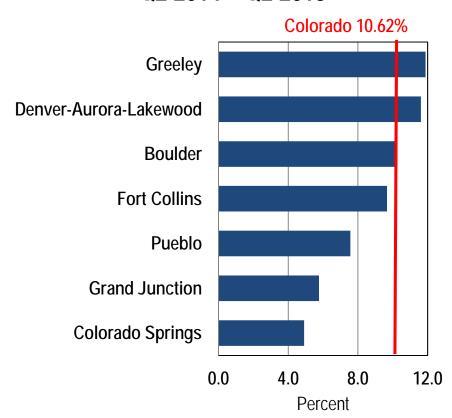




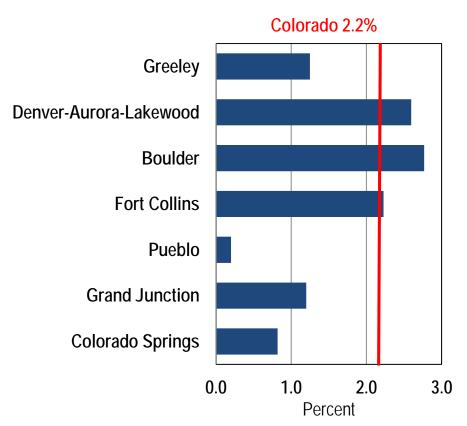
Federal Housing Finance Agency (FHFA)

House Price Index

Federal Housing Finance Agency Home Prices by MSA Q2 2014 – Q2 2015



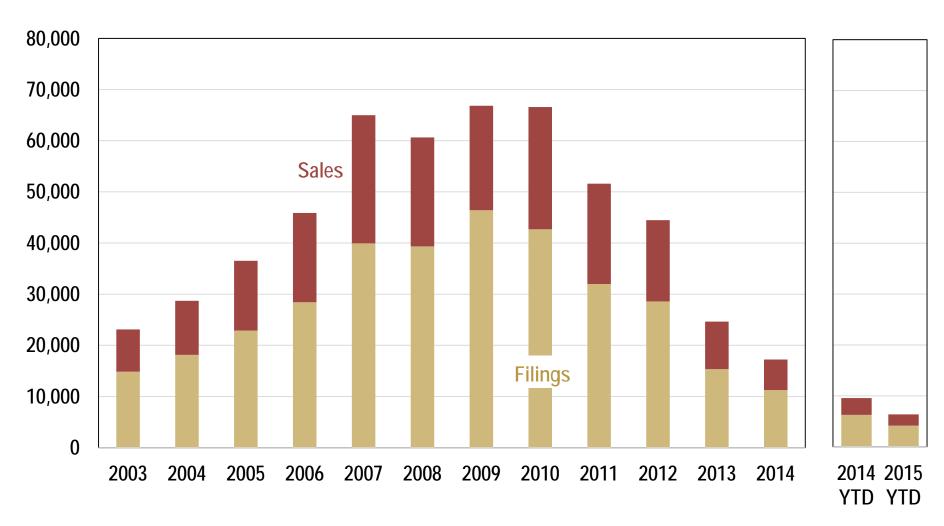
Federal Housing Finance Agency Home Prices by MSA CAGR Q2 2005 – Q2 2015



Source: Federal Housing Finance Agency, All Transactions Indexes.

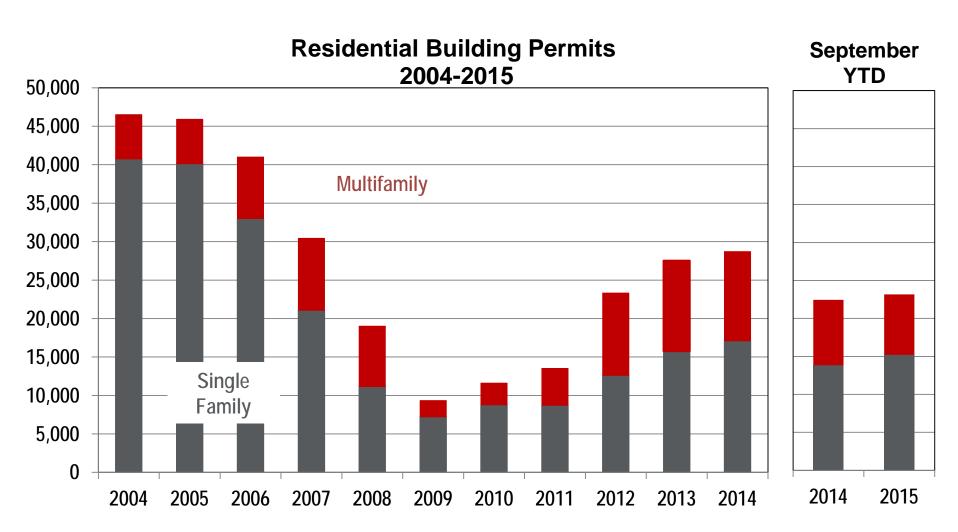
Colorado Foreclosures

2003-2015



Source: Colorado Division of Housing

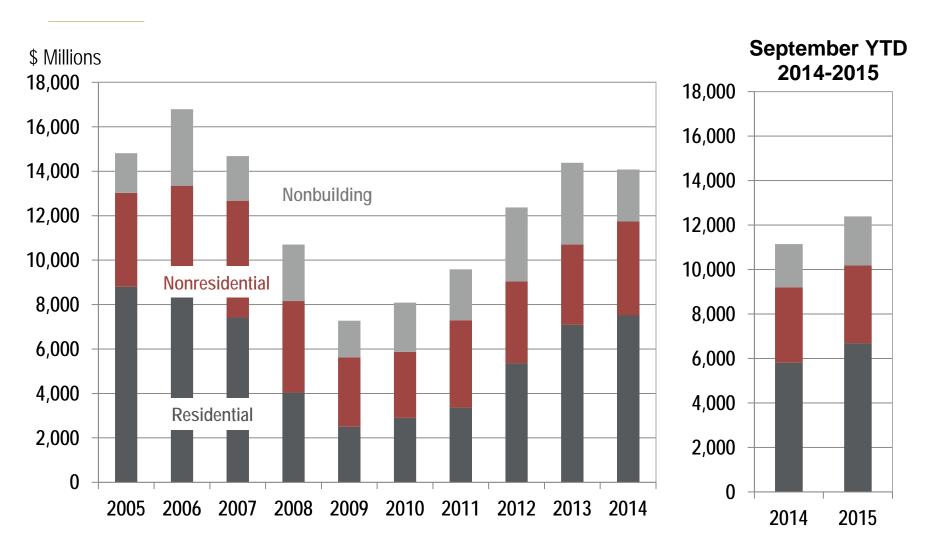
Residential Building Permits



Sources: U.S. Census Bureau.

Value of Construction

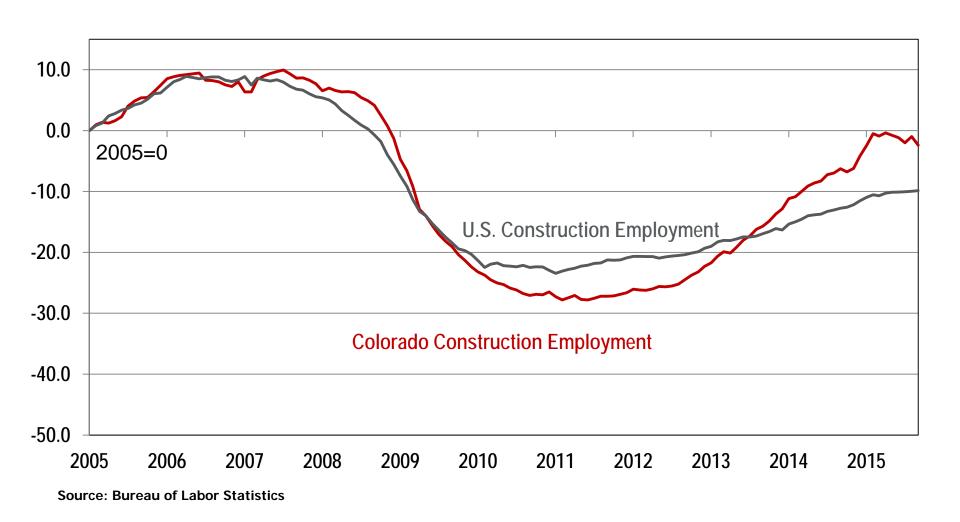
Colorado 2005-2014



Source: McGraw-Hill Construction.

10-Year Construction Employment

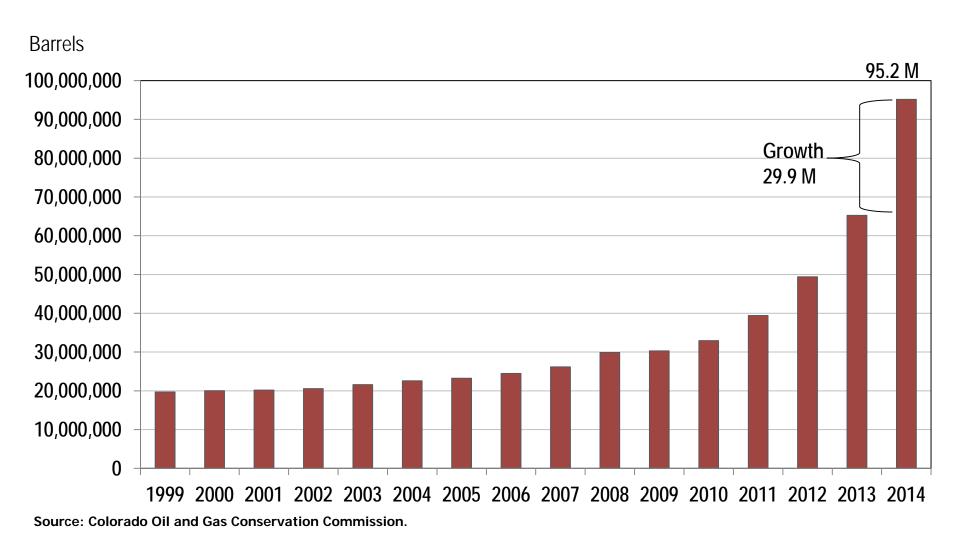
Colorado vs. National Indexed Growth



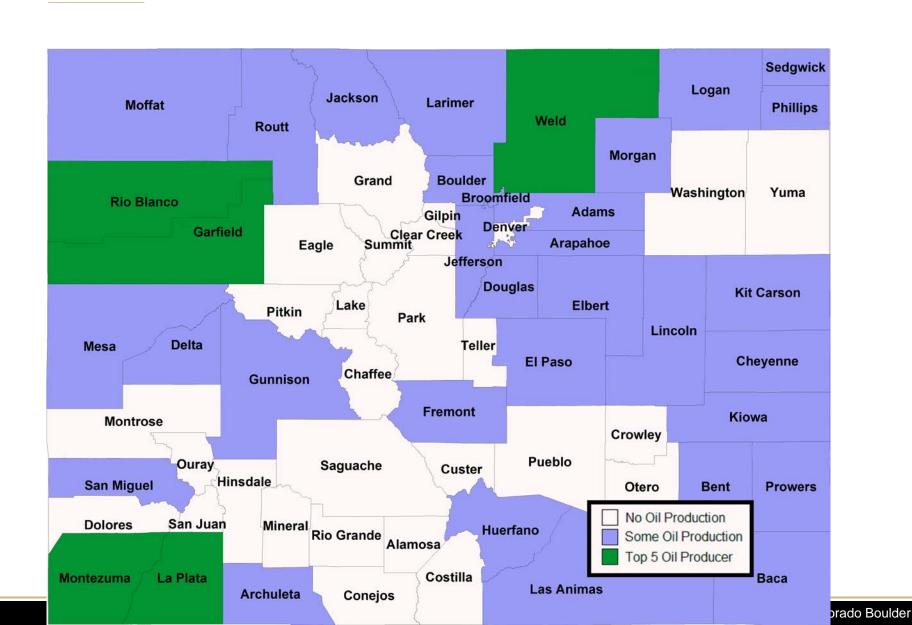
WTI Oil Price



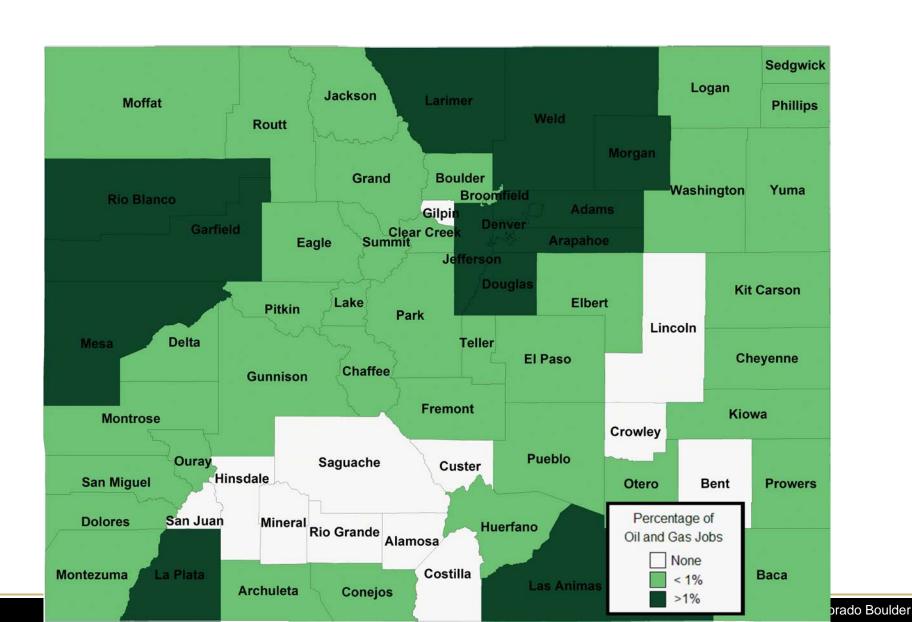
Colorado Oil Production



Concentration of Taxable Production



Concentration of Employment



Thank You

