

23RD ANNUAL AUTOMOTIVE OUTLOOK SYMPOSIUM

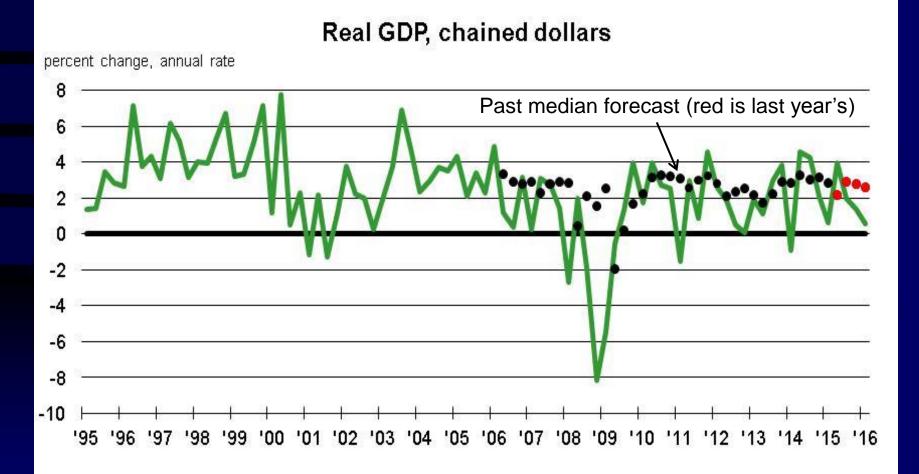
FRIDAY, JUNE 3, 2016

Consensus Forecast 2016 and 2017

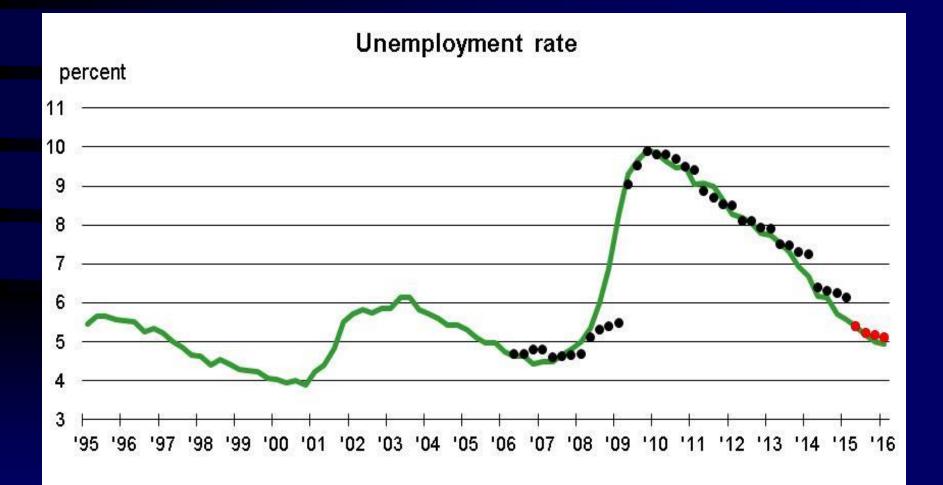
Twenty-third Annual Automotive Outlook Symposium Detroit, Michigan June 3, 2016 William Strauss Senior Economist and Economic Advisor Federal Reserve Bank of Chicago

Review of past performance

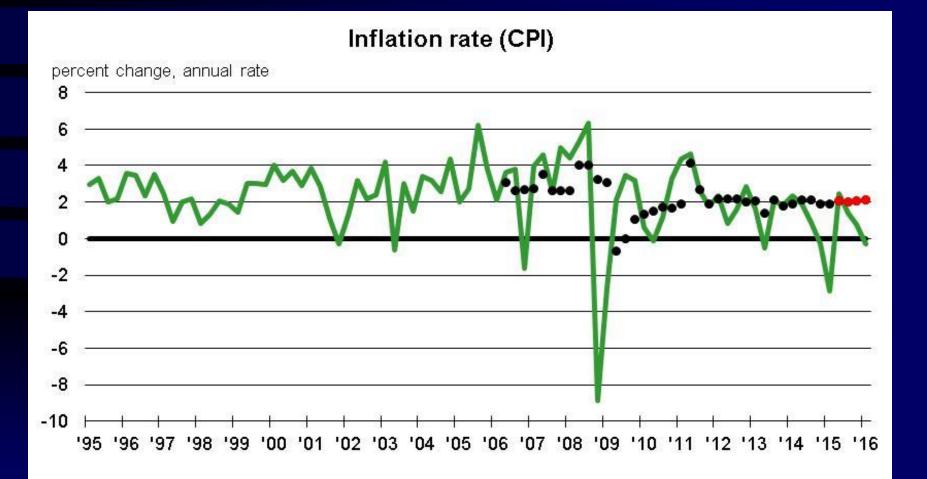
Real GDP growth was below the consensus outlook



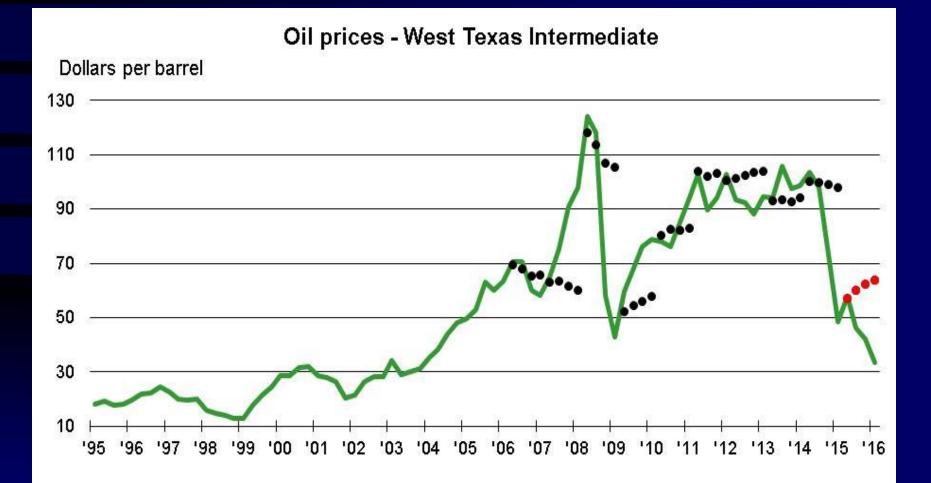
The unemployment rate was accurately predicted



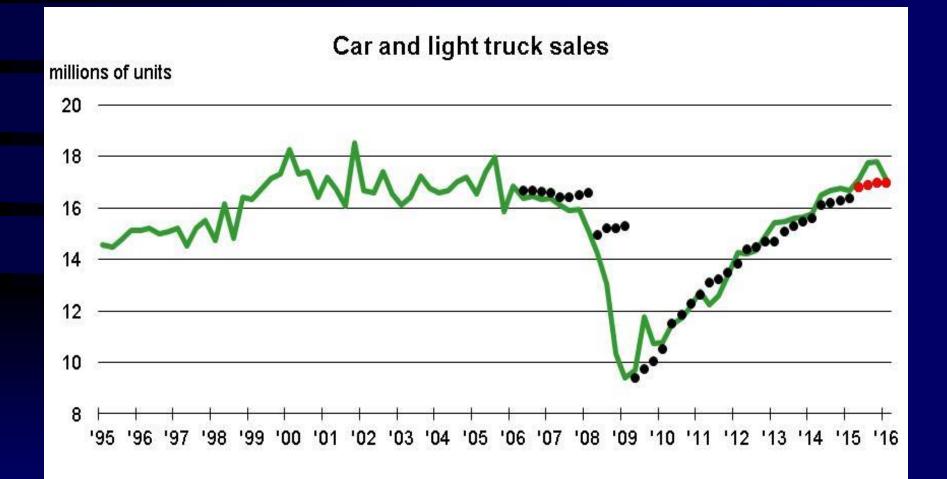
Inflation was sharply lower than forecast



In large part due to a further collapse in oil prices that was not expected

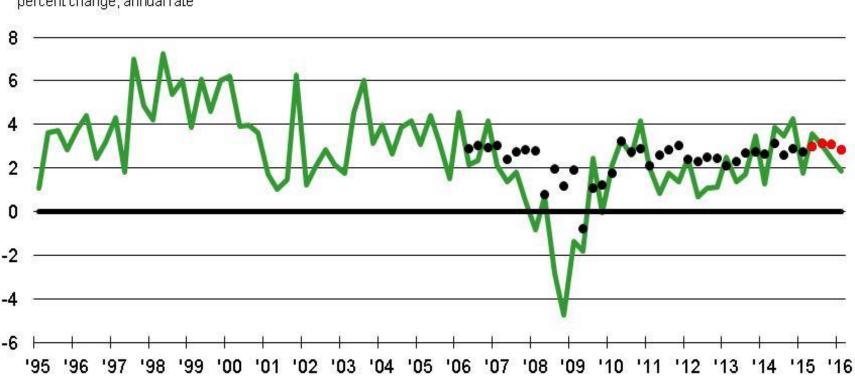


Car and light truck sales came in a bit higher than predicted



Consumer spending was a bit lower than forecast

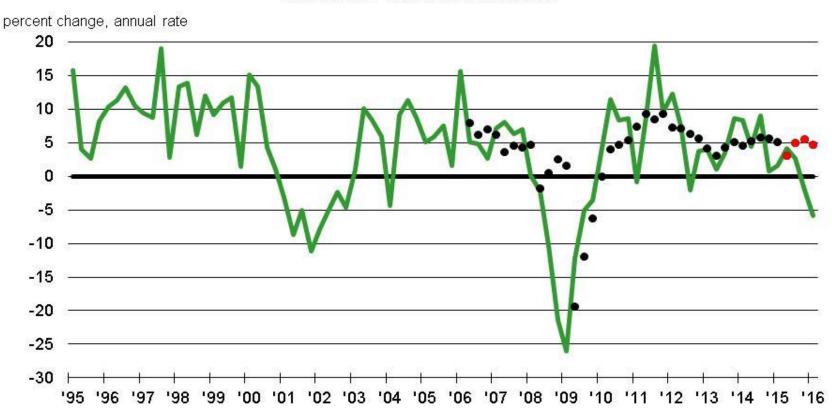
Personal consumption expenditures



percent change, annual rate

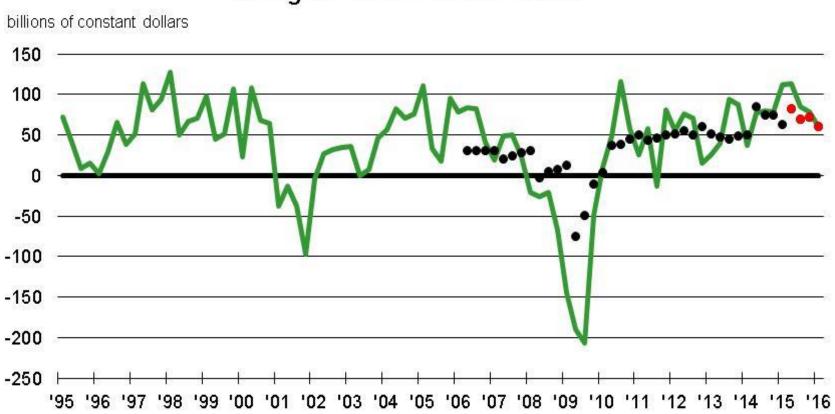
Business investment growth was significantly weaker than predicted

Business fixed investment



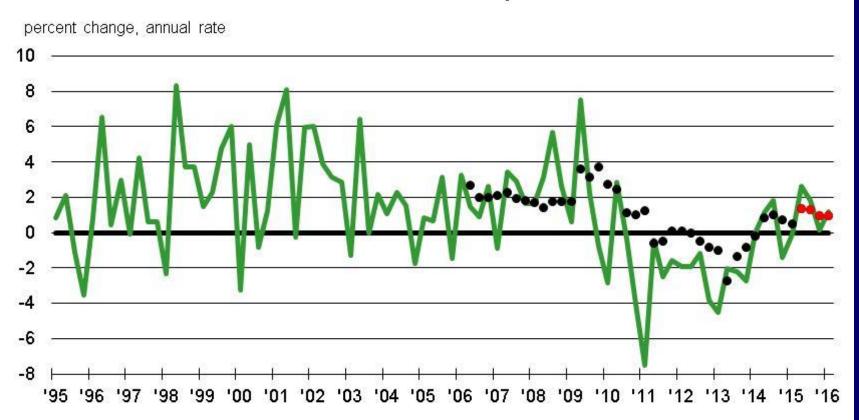
Inventories gains were bit stronger than forecast

Change in business inventories

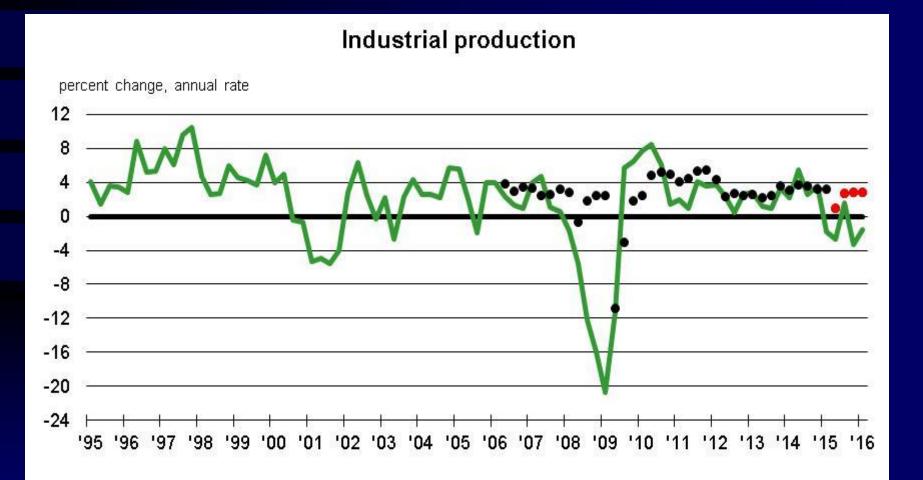


Government spending over the past year was close to what was predicted

Government consumption

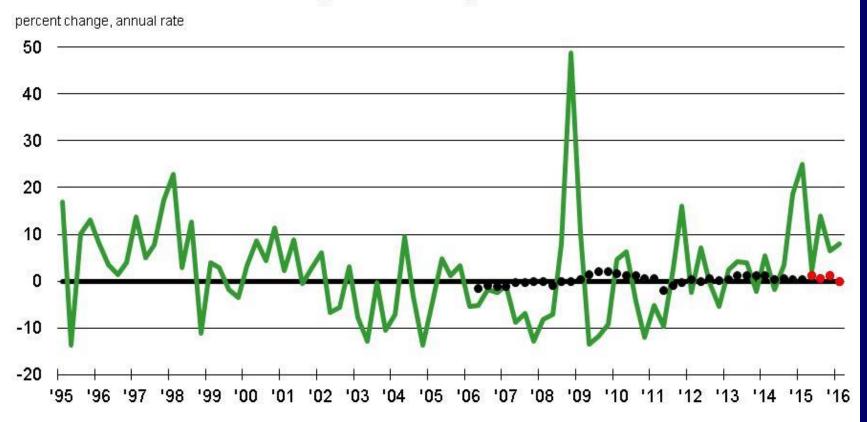


Industrial production growth was weaker than expected



In large part due to an unanticipated surge in the dollar

J.P. Morgan trade weighted dollar

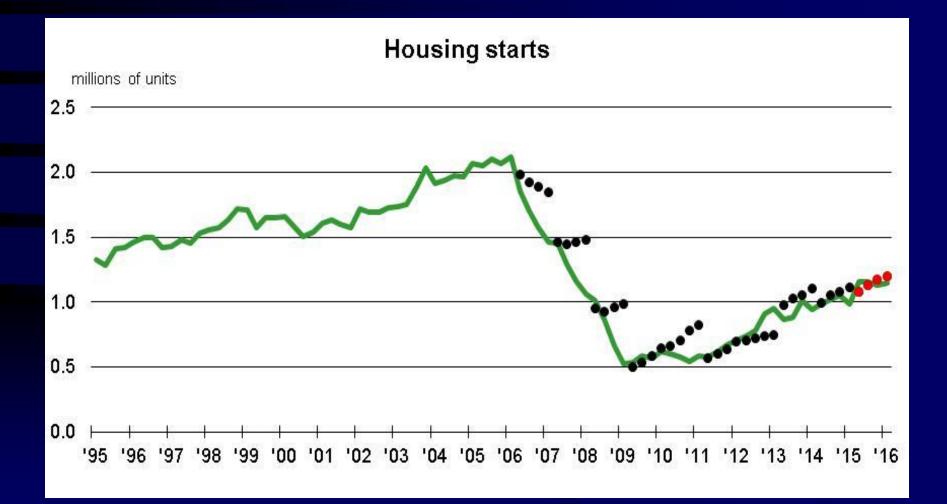


The increase in the trade deficit was accurately forecast

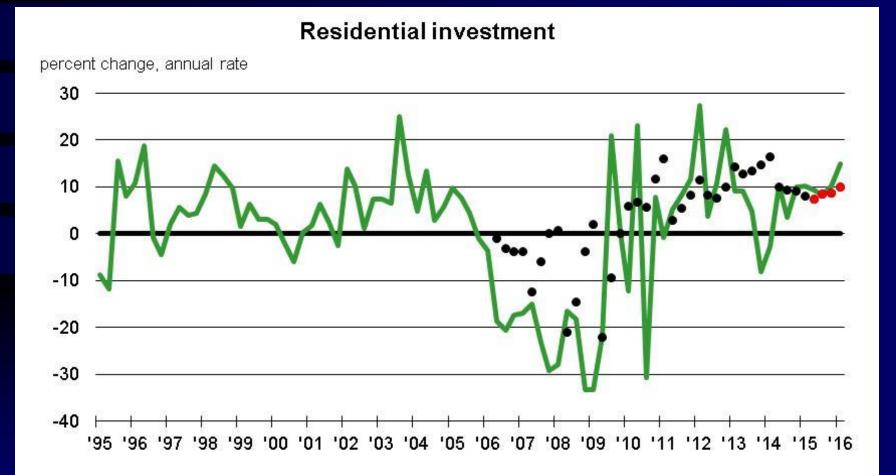
Net exports of goods and services



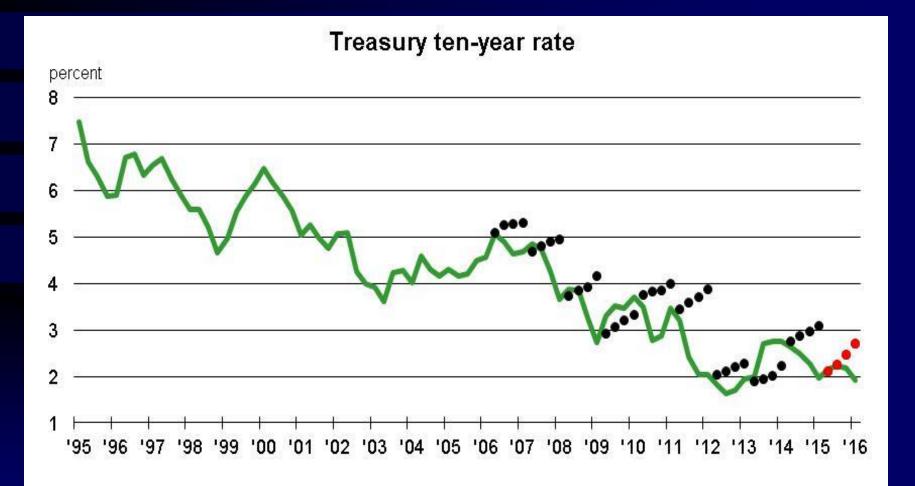
Housing starts were accurately forecast



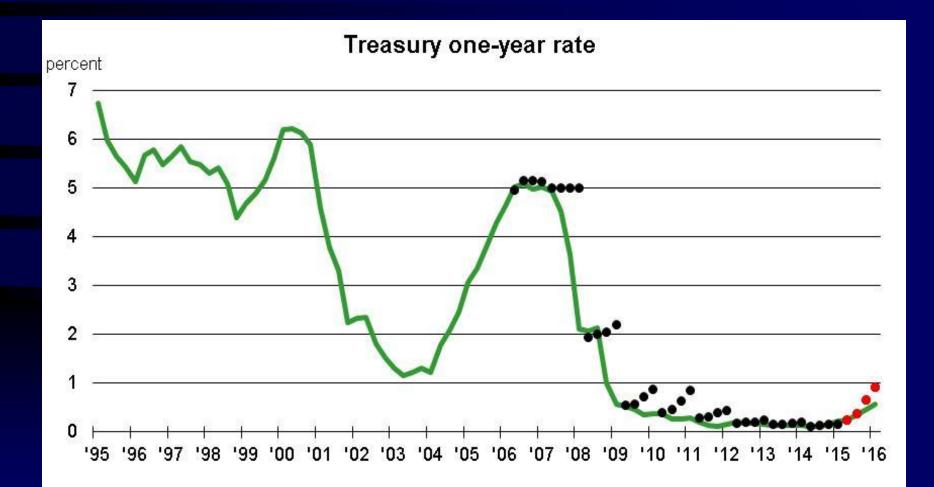
Residential investment growth was a bit stronger than predicted



Perhaps in part due to long-term interest rates remaining below what was expected



Short-term interest rates were expected to rise to one percent but the increase was a bit less



Forecast for 2016 and 2017

Median forecast of GDP and related items

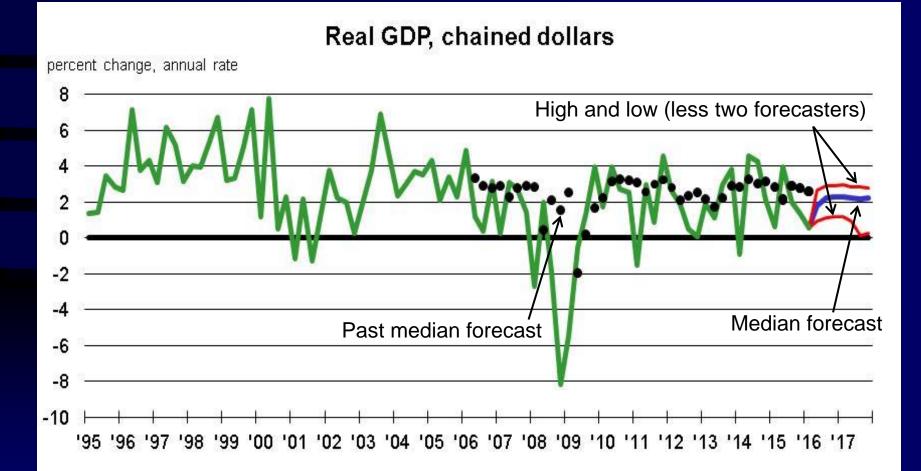
	2015	2016	2017
GDP, current dollars*	3.1%	3.2%	4.3%
GDP price index, chain-type*	1.1%	1.5%	2.0%
Real GDP, chained dollars*	2.0%	1.8%	2.2%
Personal consumption expenditures*	2.7%	2.5%	2.4%
Business fixed investment*	1.5%	0.4%	3.3%
Residential investment*	9.4%	8.5%	6.0%
Change in private inventories (billions of constant dollars)**	\$78.3	\$53.8	\$53.0
Net exports of goods and services (billions of constant dollars)**	-\$551.9	-\$608.6	-\$631.6
Government consumption expenditures and gross investment*	1.1%	1.3%	1.0%

*Q4 over Q4 **Q4 value

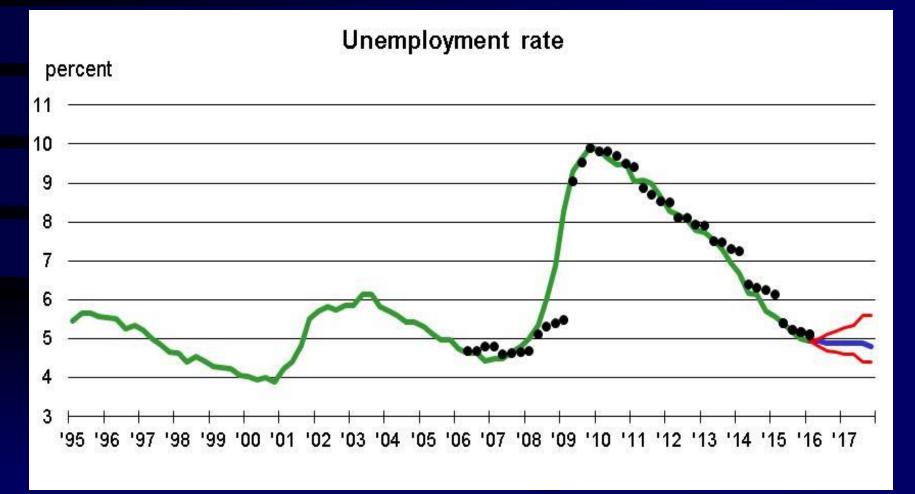
Median forecast of GDP and related items

	2015	2016	2017	
Industrial production*	-1.6%	0.2%	1.7%	
Car & light truck sales (millions - calendar year including imports)	17.3	17.3	17.2	
Housing starts (millions)	1.11	1.17	1.25	
Oil price (dollars per barrel of West Texas Intermediate)**	\$42.02	\$45.00	\$48.92	
Unemployment rate**	5.0%	4.9%	4.8%	
Inflation rate (consumer price index)*	0.4%	1.2%	2.1%	
Treasury constant maturity 1-year rate**	0.46%	0.97%	1.68%	
Treasury constant maturity 10-year rate**	2.19%	2.25%	2.69%	
J.P. Morgan trade weighted OECD dollar*	11.6%	2.4%	3.0%	

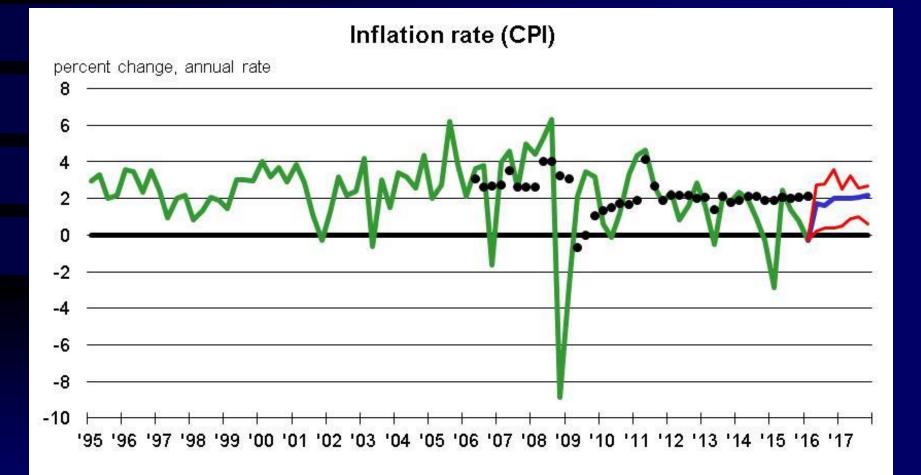
Real GDP is forecast to grow at a rate close to 2%



The unemployment rate is forecast to remain low at just under 5.0%, a rate that is considered around the natural rate



Inflation is anticipated to remain restrained at 1.2% this year and 2.1% in 2017

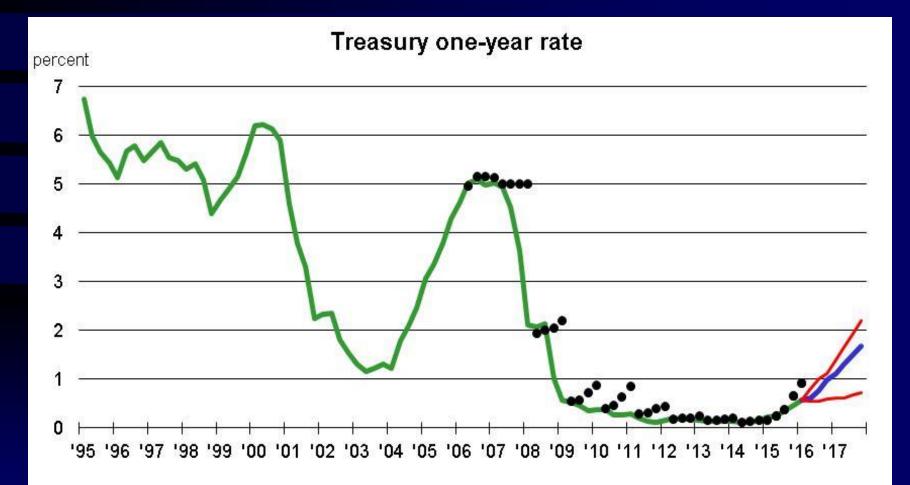


Oil prices are expected to rise to just below \$50 by the end of 2017

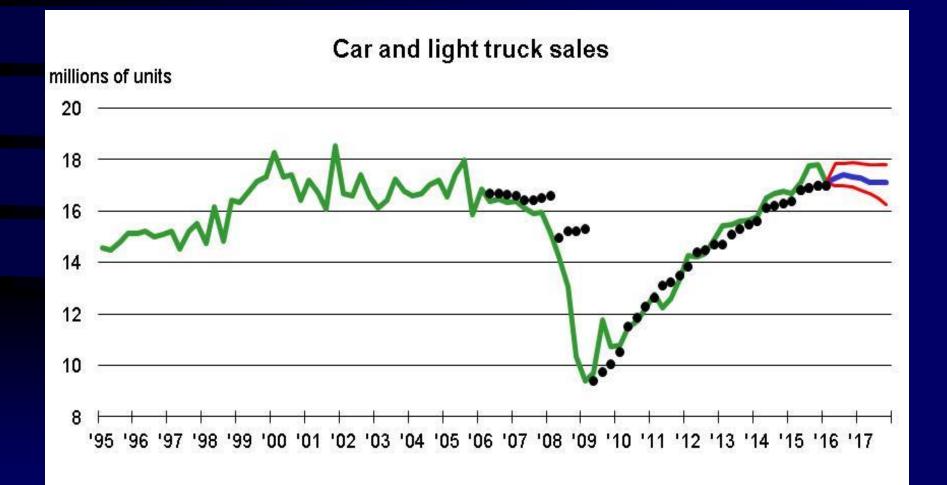
Oil prices - West Texas Intermediate



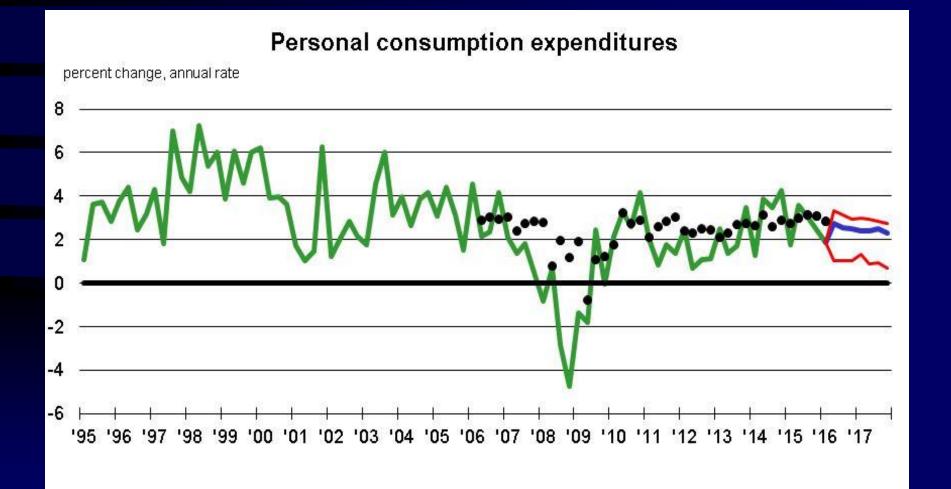
Short-term interest rates are forecast to continue to rise reaching just under 1.7% in the final quarter of next year



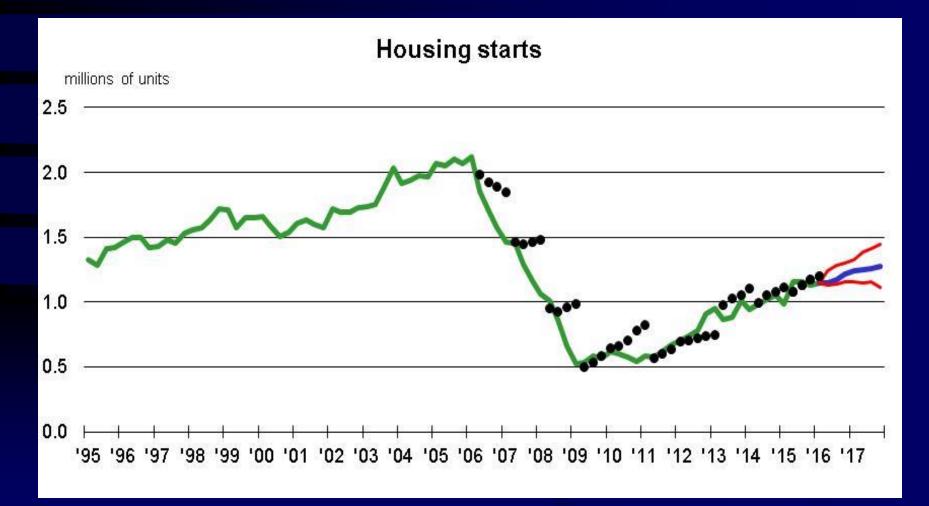
Light vehicle sales are forecast to remain at a high level, at 17.3 million units this year and 17.2 million units in 2017



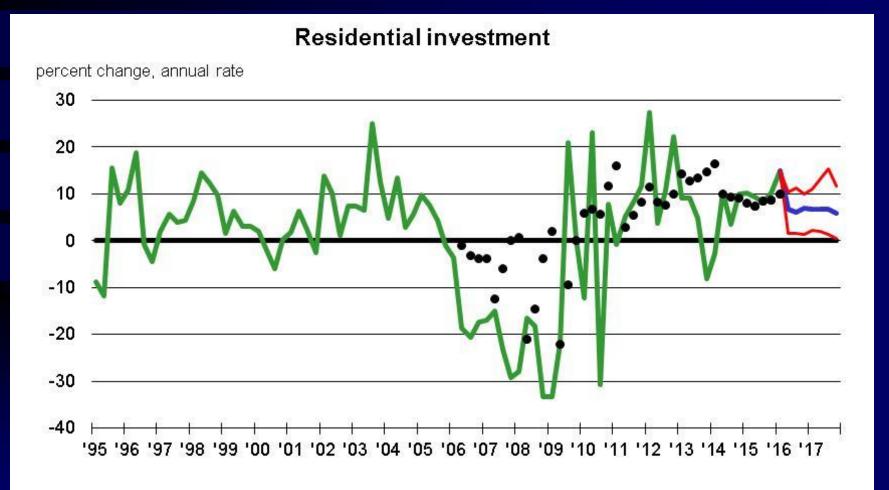
Consumption growth is expected to rise at a moderate pace



Housing starts are expected to continue to rise at a moderate pace

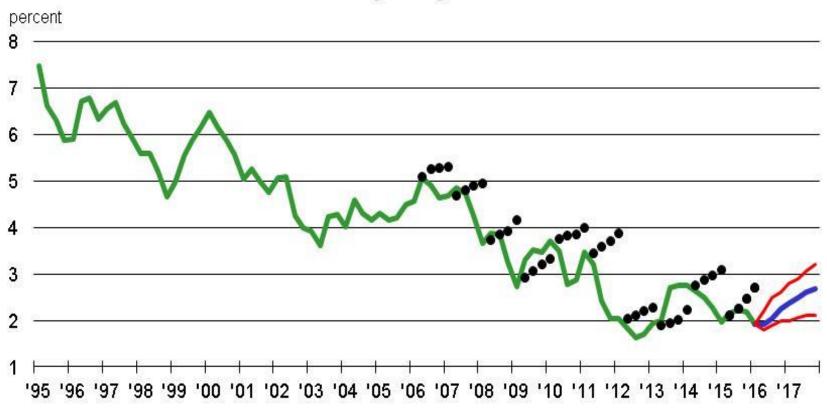


Residential investment is forecast to increase at a solid but slower pace through next year

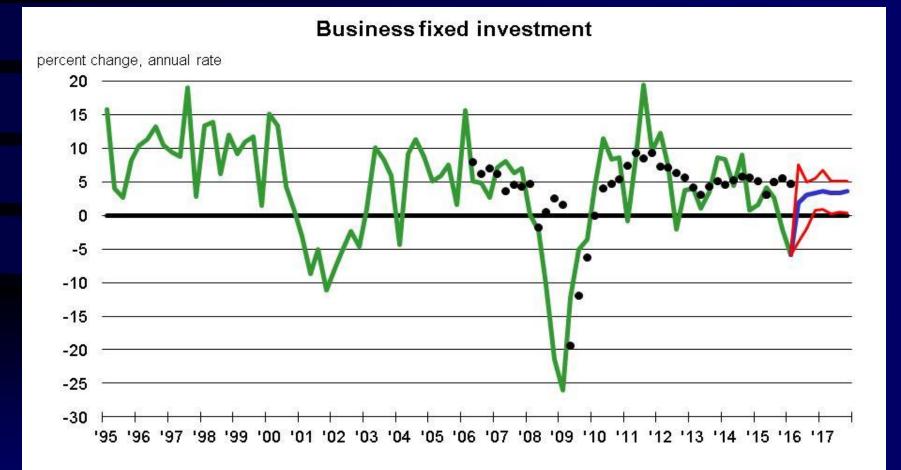


Long-term interest rates are forecast to increase by 6 basis points in 2016 and then rise by 44 basis points in 2017

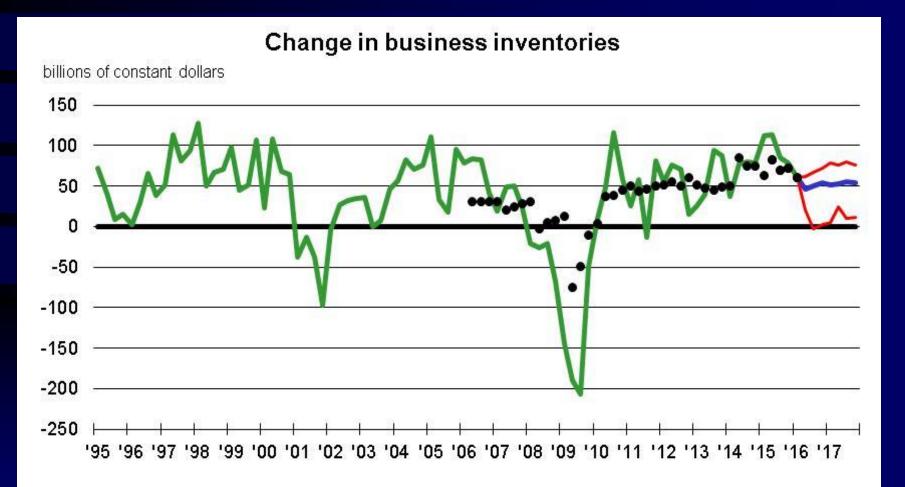
Treasury ten-year rate



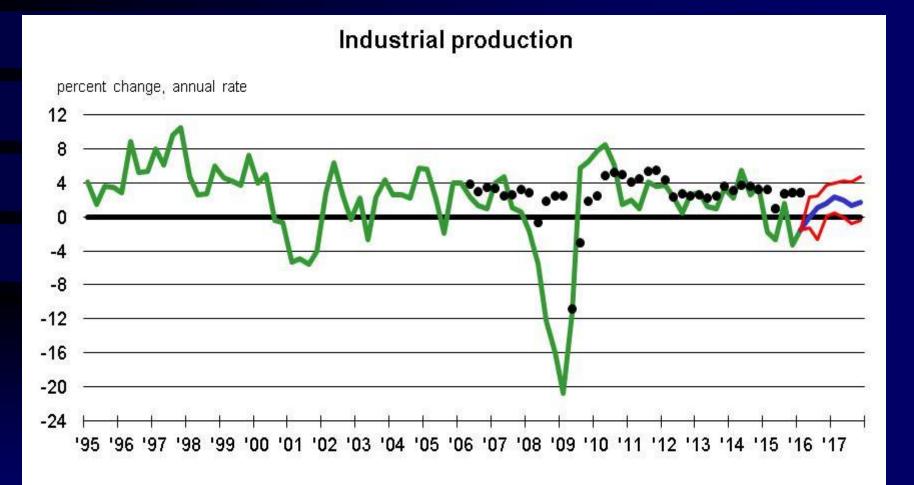
Business spending is anticipated to edge up 0.4% in 2016 and then rise 3.3% next year



Inventories gains are expected to slow this year to a pace that maintains the inventory to GDP ratio through 2017

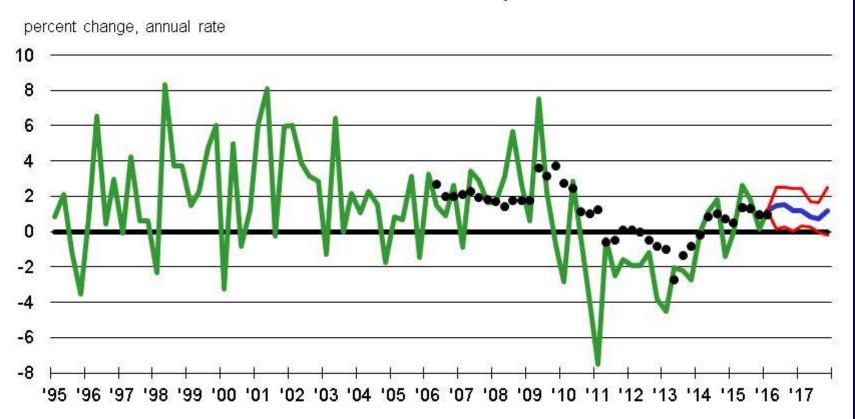


Industrial output growth is forecast to edge higher this year and increase at a pace below its historical rate next year



Government purchases is forecast to increase 1.3% this year and 1.0% in 2017

Government consumption



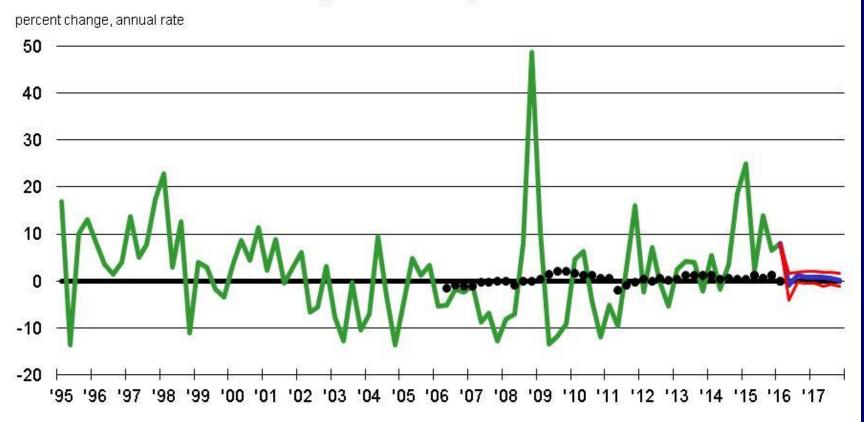
The trade deficit is expected to continue to increase over the forecast horizon

Net exports of goods and services



The dollar is forecast to increase 2.4% this year and 3.0% next year

J.P. Morgan trade weighted dollar



Summary

- The economy is forecast to rise at a pace around potential in 2016 and 2017
- The unemployment rate is expected to remain at a level close to the natural rate
- Inflation is expected to come in at 1.2% in 2016 and 2.1% in 2017
- Light vehicle sales are forecast to be 17.3 million units this year and then tick lower to 17.2 million in 2017
- www.chicagofed.org