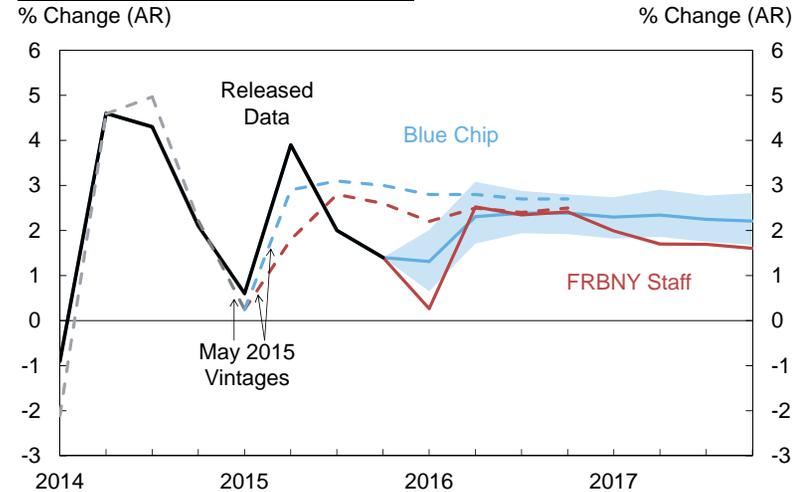


## Staff GDP Forecast Summary

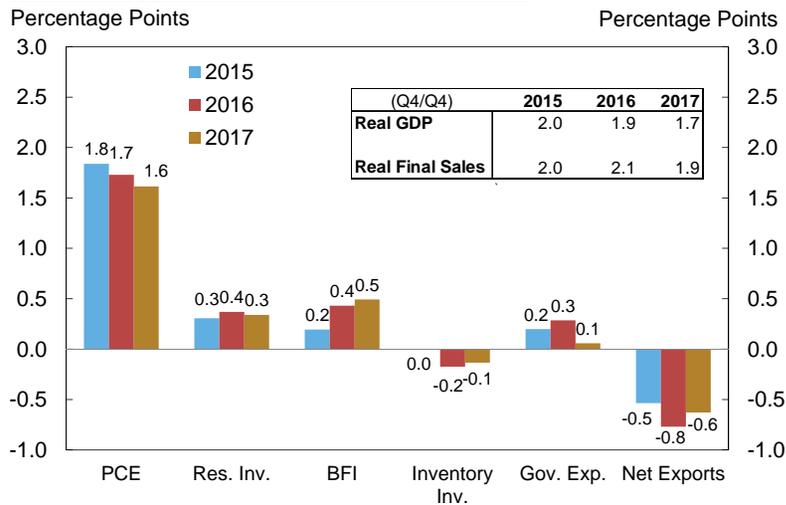
- Projected real growth: about 2% (Q4/Q4) in 2016 and 1¾% in 2017.
  - Near-term forecast below that presented at May 2015 EAP.
  - Similar to Blue Chip consensus for 2016; below it for 2017.
- Outlook reflects countervailing factors.
  - Positive:
    - Solid income growth and private balance sheets.
    - Bulk of investment decline in energy sector likely behind us.
    - Somewhat stimulative fiscal policy.
  - Negative:
    - Continued drag from net exports.
    - Sluggish business fixed investment.
    - Slow productivity growth.

## Real GDP Growth Forecasts



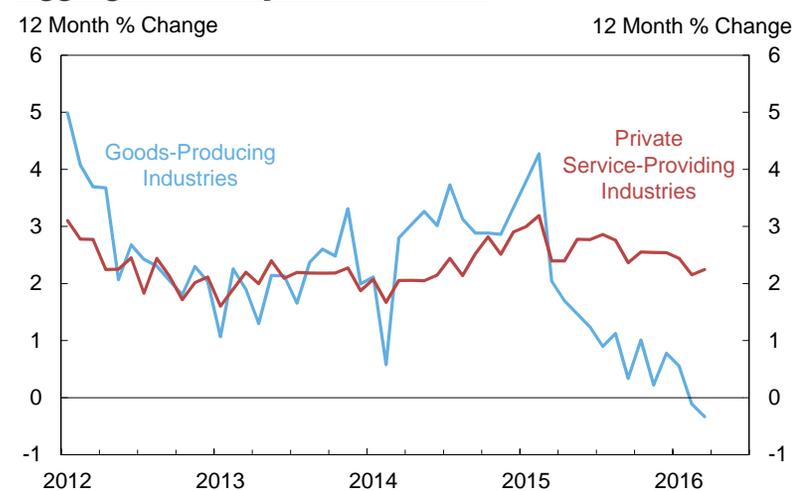
Note: The blue band represents the top 10 and bottom 10 averages of the Blue Chip survey.  
Source: FRBNY Staff, BEA, and Blue Chip Economic Indicators

## GDP Growth Contributions: 2015-17



Source: FRBNY Staff and Bureau of Economic Analysis

## Aggregate Weekly Hours Worked

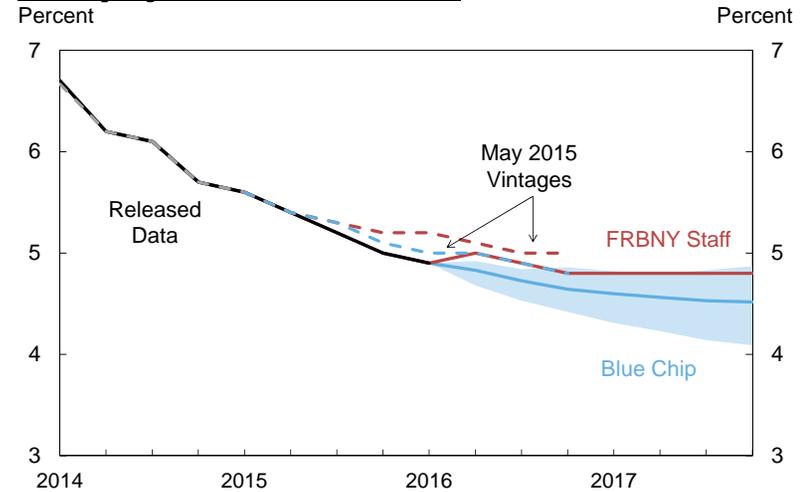


Source: Bureau of Labor Statistics

## Staff Unemployment Forecast Summary

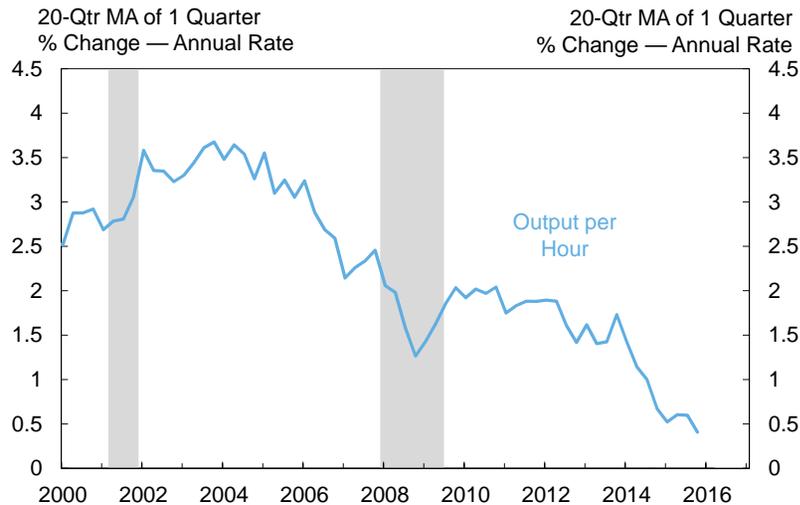
- Modestly above-potential growth leads to decline in unemployment rate to around 4¼% by end of 2016, with stable unemployment rate in 2017.
  - Below FRBNY forecast at May 2015 EAP.
  - Less rapid decline than Blue Chip consensus.
- Factors underlying this forecast.
  - Population growth around 1.0%.
  - Productivity growth gradually rising back to assumed trend rate of 1¼% NFBS-basis (1% GDP-basis) in 2017.
  - Participation rate rises slightly over 2016 and 2017.
  - Slight uptick in average weekly hours.

## Unemployment Rate Forecasts



Note: The blue band represents the top 10 and bottom 10 averages of the Blue Chip survey.  
Source: FRBNY Staff, BEA, and Blue Chip Economic Indicators

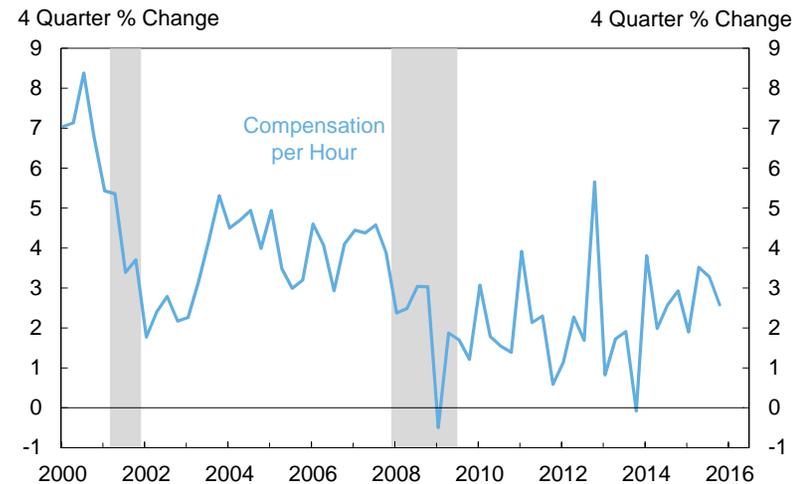
## Productivity Growth: Nonfarm Business Sector



Source: Bureau of Labor Statistics

Note: Shading shows NBER recessions.

## Compensation Growth: Nonfarm Business Sector



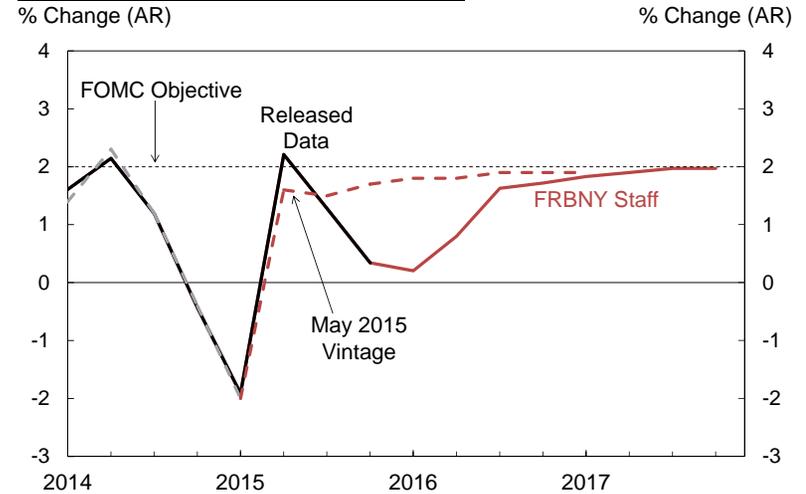
Source: Bureau of Labor Statistics

Note: Shading shows NBER recessions.

## Staff Inflation Forecast Summary

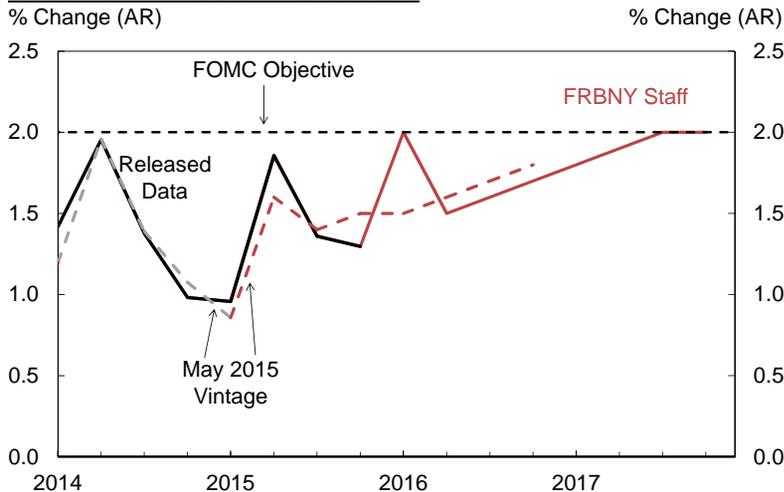
- As energy and import prices stabilize, inflation anticipated to rise gradually toward FOMC's longer-run goal.
  - PCE inflation projected to reach 2% in 2017.
- Underlying assumptions.
  - Well-anchored longer-run inflation expectations.
  - Continued downward pressure on goods prices from past dollar appreciation.
  - Firming of global demand.
  - Dissipation of remaining slack by end of 2017.

## Overall PCE Inflation Forecasts



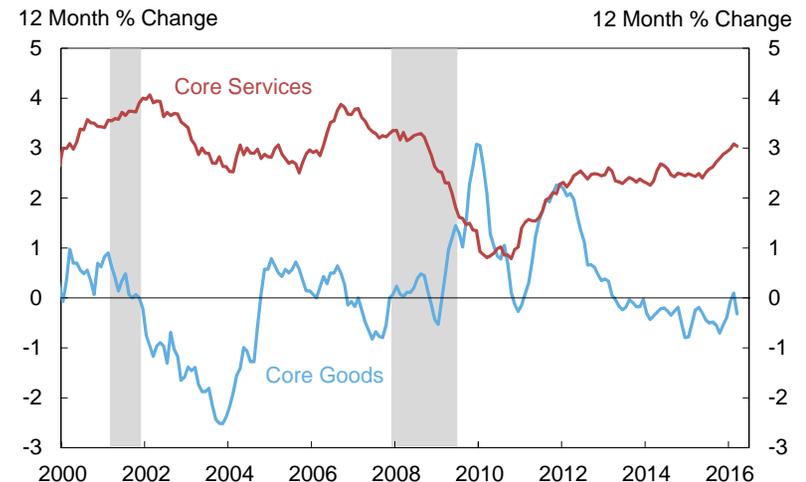
Source: FRBNY Staff and Bureau of Economic Analysis

## Core PCE Inflation Forecasts



Source: FRBNY Staff and Bureau of Economic Analysis

## CPI Core Goods and Core Services Inflation



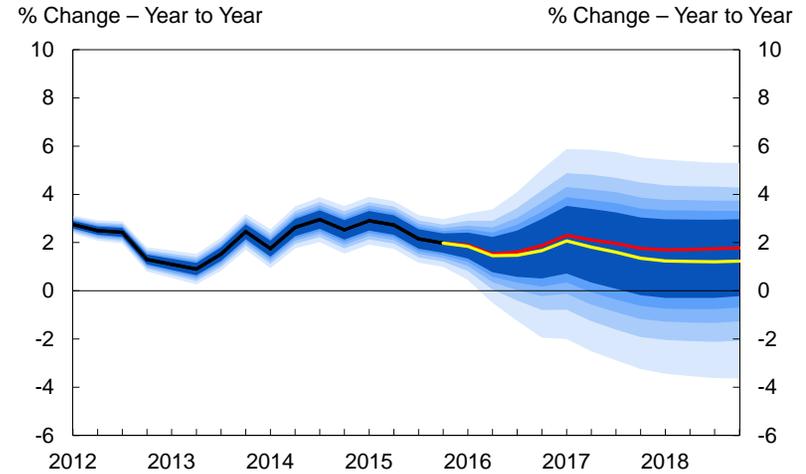
Source: Bureau of Labor Statistics

Note: Shading shows NBER recessions.

## **Risks to FRBNY Staff Real Activity Outlook**

- Balance of risks slightly skewed to the downside in 2016, with greater downside risk in 2017.
- Major risks
  - Upside:
    - Underlying fundamentals for consumer spending and housing are stronger than expected.
    - Global growth strengthens and dollar declines, with less net export drag than expected.
  - Downside:
    - Financial conditions tighten more than expected.
    - Slower global growth has larger spillover to U.S. growth.

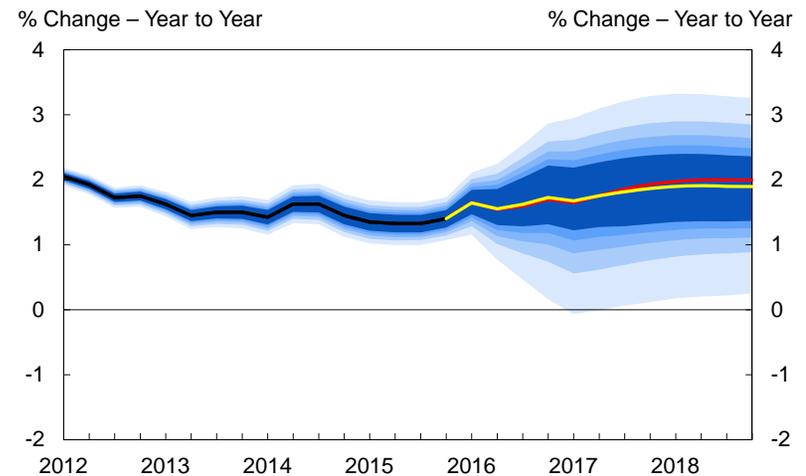
## **Real GDP Growth Forecast Distribution**



## **Risks to FRBNY Staff Inflation Outlook**

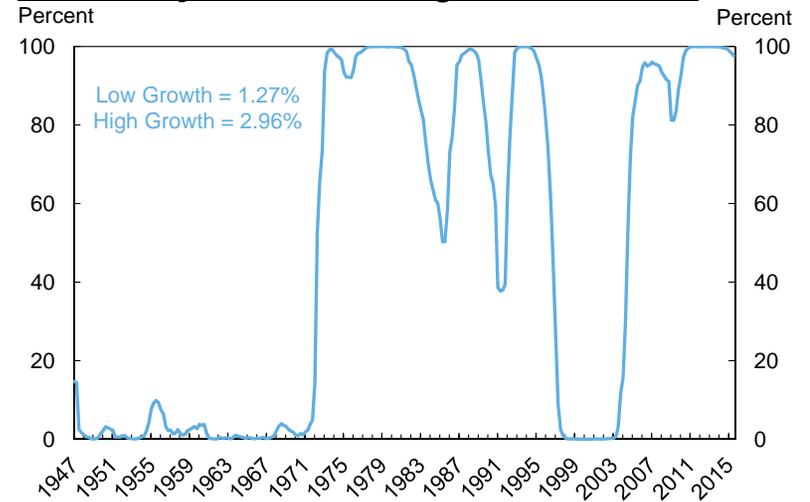
- Risks roughly balanced in 2016, and slightly skewed to the downside in 2017.
- Upside:
  - Resource slack may be lower than currently estimated.
  - More modest effect of dollar appreciation on domestic prices.
  - Possible reversal of past several years' slowdown in health care price inflation.
- Downside:
  - Stronger global disinflationary pressures emerge.
  - Inflation expectations becoming unanchored on downside because of persistent low inflation environment.

## **Core PCE Inflation Forecast Distribution**



**REFERENCE SLIDES**

**Productivity: Low-Growth Regime Probabilities**



Source: Author's Calculations

Note: Retrospective assessments in real time (up to March 2016)

# FRBNY Forecast Details

	2015 Q4	2016 Q1			2016 Q2			2015 Q4/Q4	2016 Q4/Q4				2017 Q4/Q4		
Summary	<i>Actual</i>	01/20	03/04	04/14	01/20	03/04	04/14	<i>Actual</i>	01/20	03/04	04/14	01/20	03/04	04/14	
Real GDP	<i>1.4</i>	2.1	1.8	0.3	2.1	2.3	2.5	2.0	2.0	2.1	1.9	1.7	1.7	1.7	
Total PCE Deflator	<i>0.3</i>	0.0	-0.2	0.2	1.6	1.1	0.8	0.5	1.3	1.0	1.1	1.8	1.9	1.9	
Core PCE Deflator	<i>1.3</i>	1.3	1.7	2.0	1.3	1.4	1.5	1.4	1.4	1.5	1.7	1.7	1.8	1.9	
<b>Nonfarm Business Sector</b>															
Output	<i>1.0</i>	2.6	2.2	0.2	2.6	2.8	3.1	2.1	2.4	2.6	2.3	2.0	2.1	2.1	
Hours	<i>3.2</i>	1.6	2.2	1.9	1.3	1.7	1.1	1.6	1.4	1.7	1.6	1.1	1.0	1.3	
Productivity Growth	<i>-2.2</i>	1.0	0.0	-1.8	1.3	1.1	2.0	0.5	1.0	0.8	0.6	1.0	1.1	0.8	
Compensation	<i>1.1</i>	3.0	2.9	2.7	3.2	3.0	2.8	2.6	3.3	3.2	3.0	3.7	3.3	3.4	
Unit Labor Costs	<i>3.3</i>	2.0	2.9	4.4	1.9	1.9	0.8	2.1	2.3	2.3	2.3	2.7	2.2	2.6	
<b>Real GDP Growth Contributions**</b>															
Final Sales to Domestic Purchasers	<i>1.7</i>	3.5	3.1	1.0	3.2	3.5	3.6	2.5	3.2	3.3	2.8	2.4	2.5	2.5	
Private	<i>1.7</i>	3.2	2.8	0.8	2.9	3.2	3.2	2.3	2.9	3.0	2.5	2.3	2.4	2.4	
Consumption	<i>1.7</i>	1.8	2.2	0.8	1.8	2.0	2.2	1.8	1.7	2.0	1.7	1.5	1.5	1.6	
BFI: Equipment	<i>-0.1</i>	0.4	0.2	-0.3	0.4	0.4	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.2	
BFI: Nonresidential Structures	<i>-0.1</i>	0.1	-0.1	-0.2	0.1	0.1	0.1	-0.1	0.1	0.1	0.0	0.1	0.1	0.1	
BFI: Intellectual Property Products	<i>0.0</i>	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	
Residential Investment	<i>0.3</i>	0.6	0.3	0.3	0.4	0.5	0.5	0.3	0.4	0.3	0.4	0.3	0.4	0.3	
Government	<i>0.0</i>	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.0	0.0	0.1	
Federal	<i>0.2</i>	0.1	0.0	-0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	
State and Local	<i>-0.1</i>	0.2	0.3	0.3	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	
Inventory Investment	<i>-0.2</i>	-0.2	-0.5	-0.1	0.1	-0.1	-0.6	0.0	0.0	-0.2	-0.2	0.0	-0.1	-0.1	
Net Exports	<i>-0.1</i>	-1.1	-0.8	-0.6	-1.2	-1.1	-0.5	-0.5	-1.1	-1.1	-0.8	-0.7	-0.7	-0.6	
Exports	<i>-0.3</i>	-0.3	-0.4	-0.3	0.0	0.0	0.1	-0.1	-0.1	-0.1	0.0	0.2	0.2	0.2	
Imports	<i>0.1</i>	-0.8	-0.3	-0.4	-1.2	-1.1	-0.6	-0.5	-1.1	-1.0	-0.8	-0.8	-0.9	-0.8	
<b>Real GDP Components' Growth Rates</b>															
Final Sales to Domestic Purchasers	<i>1.7</i>	3.4	3.0	1.0	3.1	3.5	3.5	2.5	3.1	3.3	2.8	2.3	2.4	2.4	
Consumption	<i>2.4</i>	2.7	3.2	1.2	2.6	3.0	3.2	2.7	2.5	2.9	2.5	2.2	2.2	2.3	
BFI: Equipment	<i>-2.1</i>	6.0	4.0	-5.5	6.0	6.0	4.0	2.5	5.7	6.5	3.0	3.5	4.0	4.0	
BFI: Nonresidential Structures	<i>-5.1</i>	4.0	-5.0	-7.0	4.0	4.0	2.0	-3.5	4.0	3.1	1.1	3.5	4.0	4.0	
BFI: Intellectual Property Products	<i>-0.1</i>	6.0	6.0	5.0	6.0	6.0	6.0	3.6	5.7	5.7	5.5	3.5	3.5	3.5	
Residential Investment	<i>10.1</i>	20.8	8.2	8.7	12.9	14.3	16.1	9.4	13.4	10.0	10.5	9.1	9.8	8.8	
Government: Federal	<i>2.3</i>	2.0	0.0	-1.5	2.0	2.4	2.4	0.9	2.0	1.8	1.4	-0.5	-0.5	-0.5	
Government: State and Local	<i>-1.2</i>	1.4	2.5	2.6	1.4	1.4	1.5	1.2	1.4	1.7	1.7	0.7	0.7	0.8	
Inventory Investment	<i>n/a</i>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Net Exports	<i>n/a</i>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Exports	<i>-2.0</i>	-2.7	-3.6	-2.1	0.2	0.3	0.7	-0.6	-0.7	-0.8	-0.1	1.7	1.8	1.6	
Imports	<i>-0.7</i>	5.4	2.3	2.6	8.2	8.1	3.8	2.9	7.2	6.6	5.1	5.6	5.9	5.5	
<b>Labor Market</b>															
Nonfarm Payroll Employment	<i>240</i>	162	352	226	141	177	197	231	152	207	205	129	116	142	
Unemployment Rate***	<i>5.0</i>	4.9	4.9	4.9	4.9	4.8	5.0	5.0	4.8	4.7	4.8	4.8	4.7	4.8	
<b>Income</b>															
Real Disposable Personal Income	<i>2.3</i>	2.2	4.7	2.9	2.4	3.6	4.0	2.3	1.8	2.7	3.0	1.4	1.8	2.1	
Personal Saving Rate***	<i>5.0</i>	5.3	5.4	5.3	5.2	5.5	5.5	5.0	4.9	5.6	5.5	4.3	5.5	5.5	

\*End-of-period value

\*\*Growth contributions may not sum to total due to rounding.

\*\*\*Quarterly values are the average rate for the quarter. Yearly values are the average rate for Q4 of the listed year.

Blue and *italic* text indicate released data; darker colors indicate the most recent forecast.