



Risk Management in Monetary Policymaking

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Economic Uncertainties – Risks to the Outlook

- ▶ The fourth quarter of 2018 featured significant volatility:
 - ▶ Domestic and international stocks fell
 - ▶ Stock volatility rose
 - ▶ Oil prices fell
 - ▶ Treasury rates fell
 - ▶ Credit spreads widened
 - ▶ Caused some analysts to highlight higher recession probabilities
- ▶ Since the start of 2019:
 - ▶ Many financial markets have recovered
 - ▶ A budget agreement avoided an extended government shutdown
- ▶ Significant risks remain unresolved:
 - ▶ Slowing in China and Europe
 - ▶ Possible trade issues
 - ▶ Potential for messy Brexit
 - ▶ Problems at some European banks

Risk Management Approach to Monetary Policy

- ▶ **Baseline outlook remains relatively good**
 - ▶ Expect economic growth somewhat above 2 percent
 - ▶ Expect inflation to end 2019 close to 2 percent target
 - ▶ Labor markets likely to tighten somewhat further
- ▶ **Still downside risks**
 - ▶ Economy slowing from nearly 3 percent last year
 - ▶ Diminishing fiscal stimulus
 - ▶ Effects of four increases in short-term rates
 - ▶ Risk that slowdown in rest of world could dampen U.S. growth more than currently expecting
- ▶ **Overheating risks seem less pressing at this juncture**
 - ▶ Financial market volatility has tempered investor ebullience
 - ▶ Inflation currently a little below the Federal Reserve's target

Implications for Monetary Policy

- ▶ Federal Reserve should remain patient
 - ▶ Expect reasonably strong economy
 - ▶ Overheating not an immediate problem; inflation well behaved
 - ▶ Evaluate if downside risks become more acute
- ▶ Monetary policy is currently appropriate given balance of risks

Figure 1: U.S. Stock Price Indices

January 5, 2018 - March 1, 2019

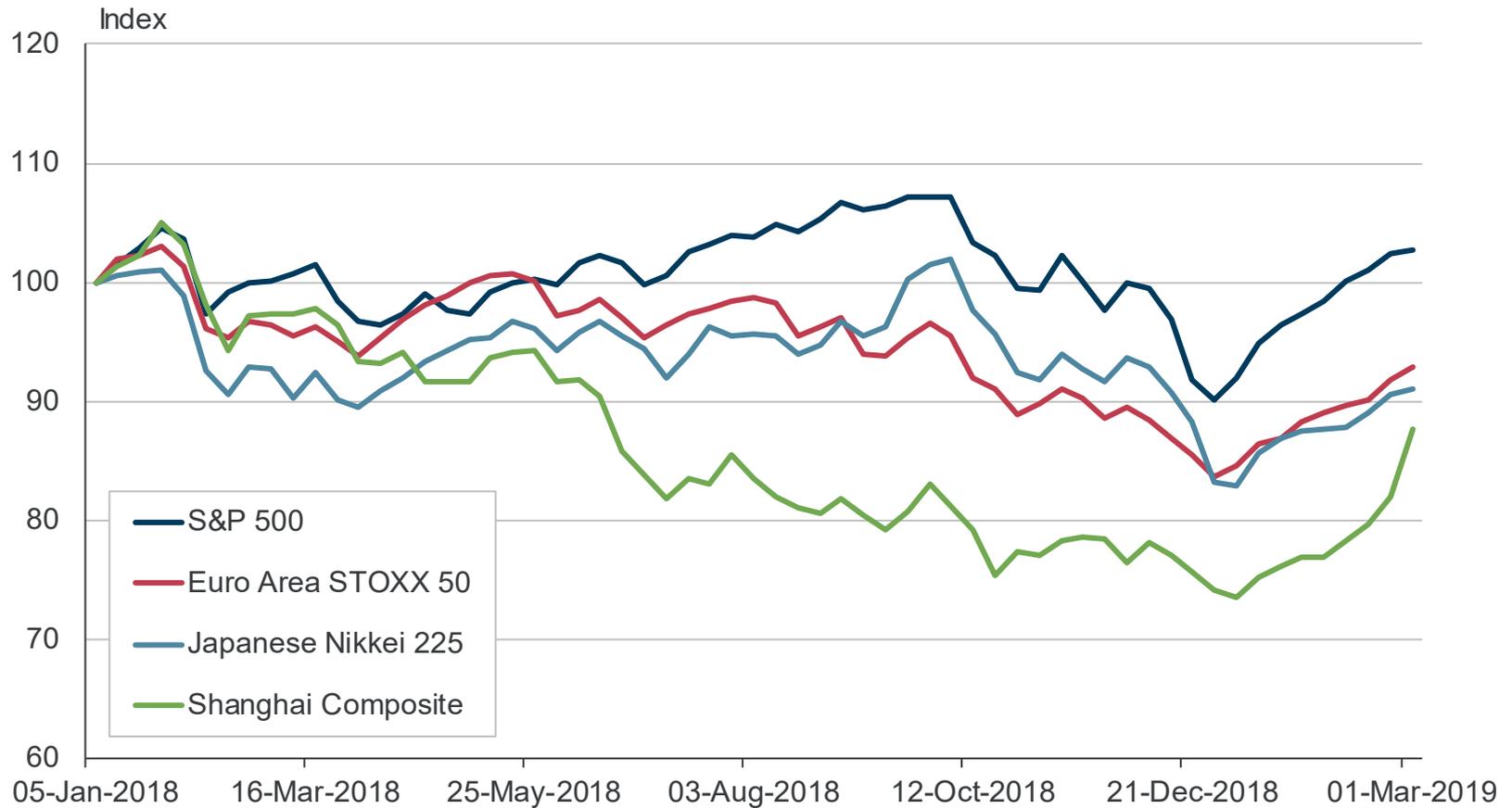


Note: Index level January 5, 2018=100. Weekly averages.

Source: DJ, S&P, WSJ, Haver Analytics

Figure 2: International Stock Price Indices

January 5, 2018 - March 1, 2019



Note: Index level January 5, 2018=100. Weekly averages.

Source: S&P, FT, STOXX, Bloomberg Finance L.P., Haver Analytics

Figure 3: CBOE Market Volatility Index (VIX)

January 5, 2018 - March 1, 2019

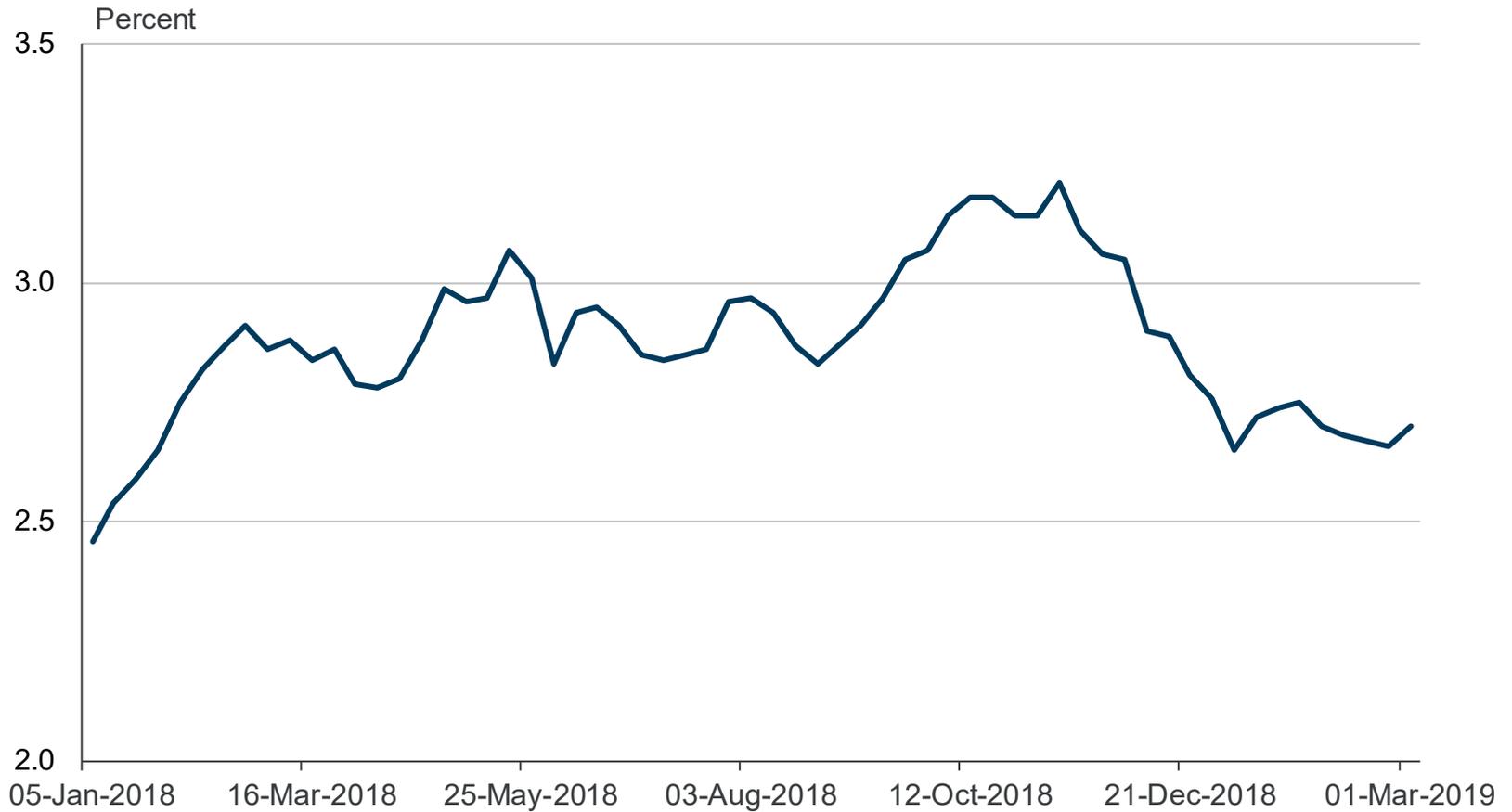


Note: Weekly averages.

Source: CBOE, WSJ, Haver Analytics

Figure 4: Ten-Year Treasury Yield

January 5, 2018 - March 1, 2019

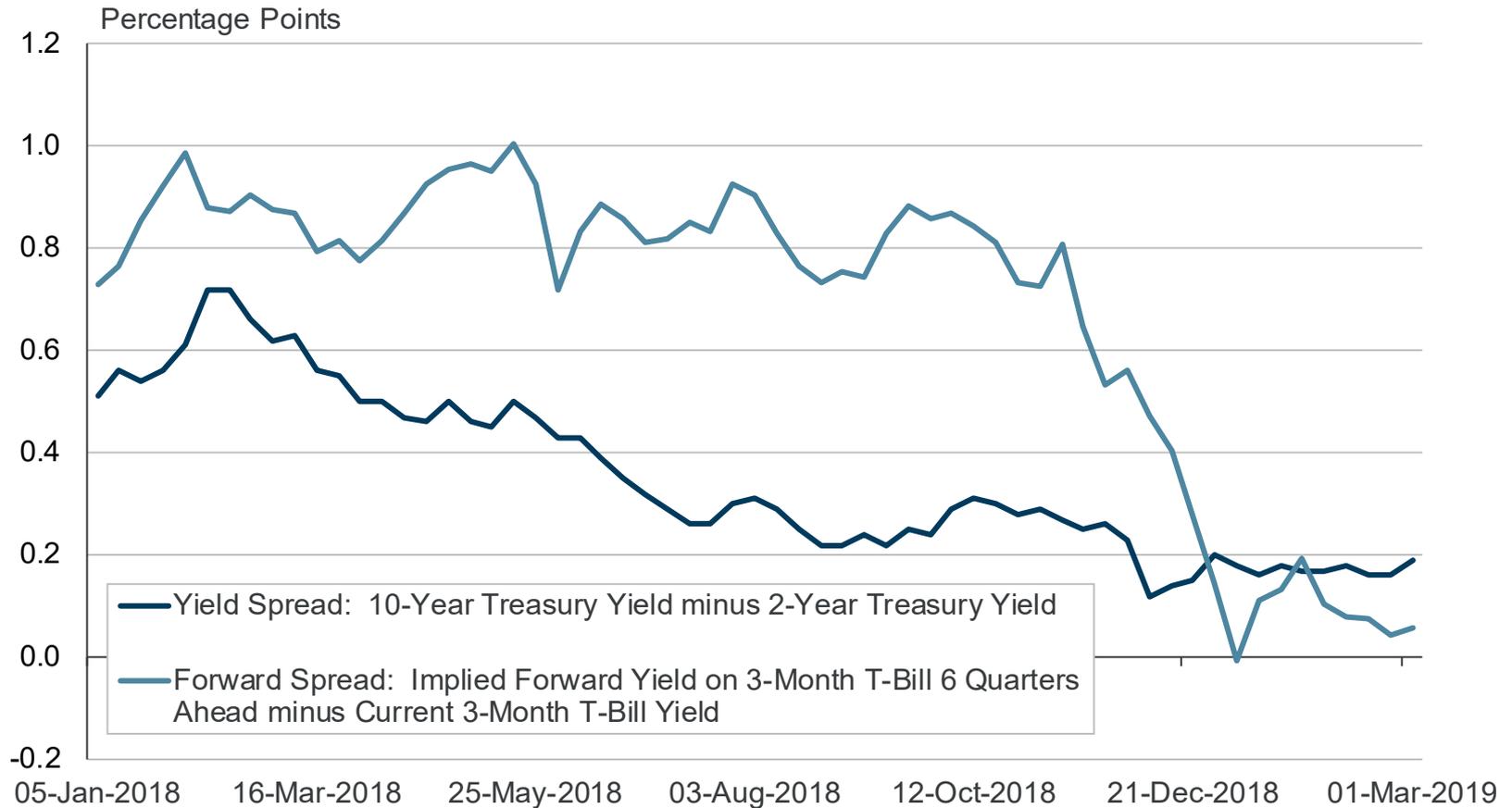


Note: Weekly averages.

Source: Federal Reserve Board, Haver Analytics

Figure 5: Long-Term Yield Spread and Near-Term Forward Spread

January 5, 2018 - March 1, 2019

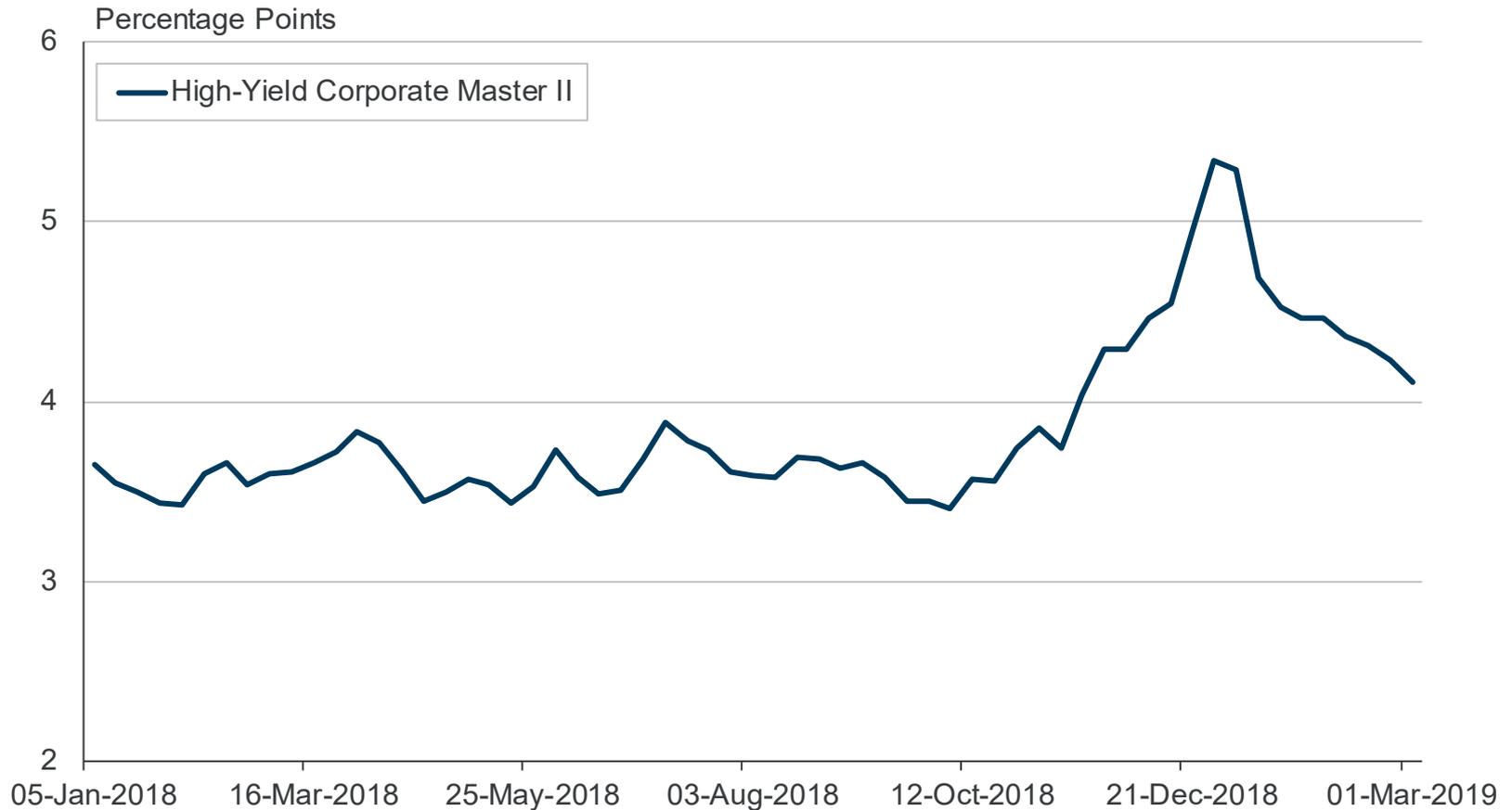


Note: Weekly averages. Near-term forward spread based on Engstrom and Sharpe methodology as outlined in "The Near-Term Forward Yield Spread as a Leading Indicator: A Less Distorted Mirror."

Source: Federal Reserve Board, Haver Analytics

Figure 6: High-Yield Corporate Bond Spread over Ten-Year U.S. Treasury Yield

January 5, 2018 - March 1, 2019

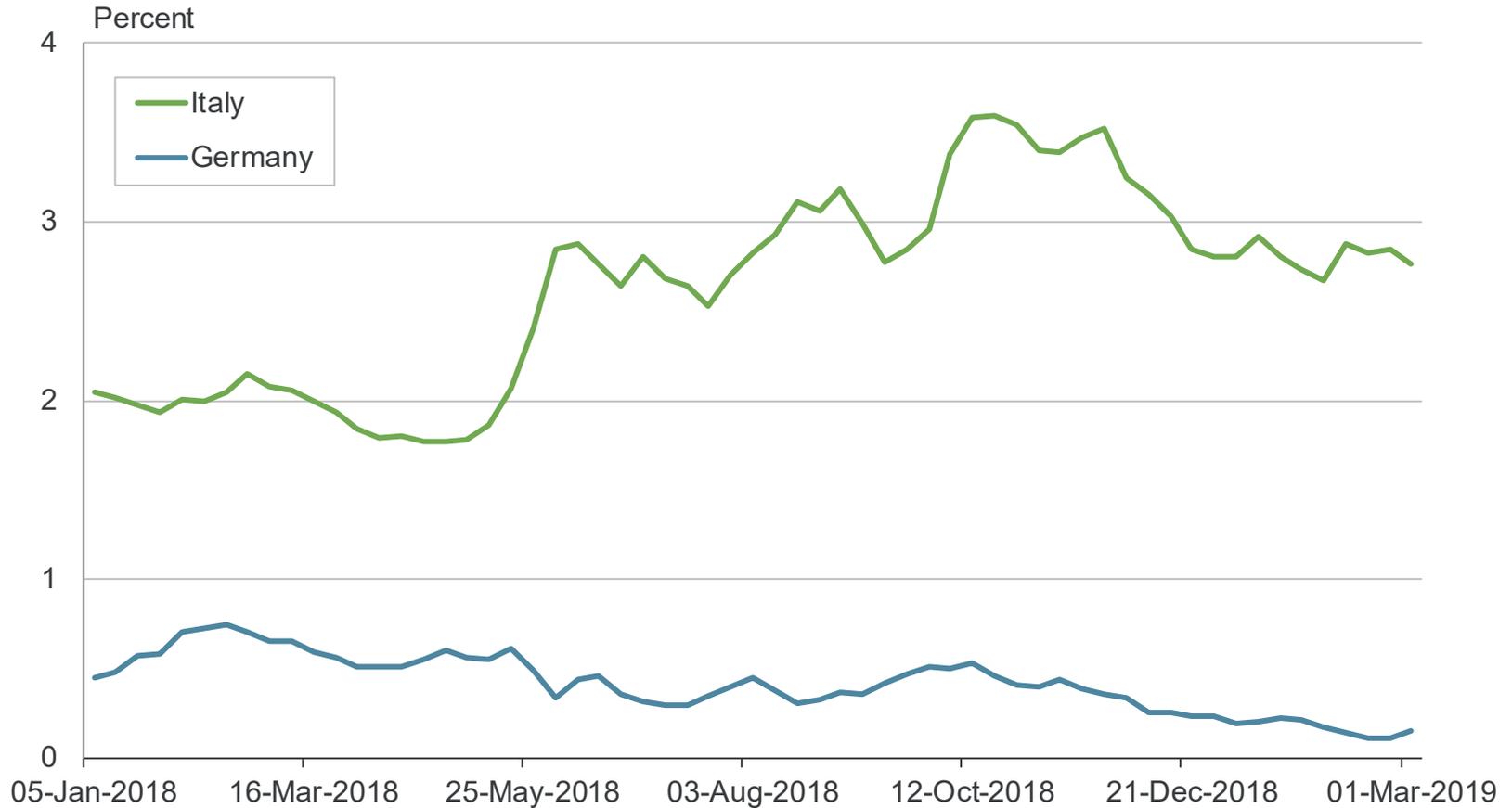


Note: Weekly averages.

Source: ICE/BofA Merrill Lynch, Federal Reserve Board, Haver Analytics

Figure 7: Ten-Year Government Bond Yields

January 5, 2018 - March 1, 2019



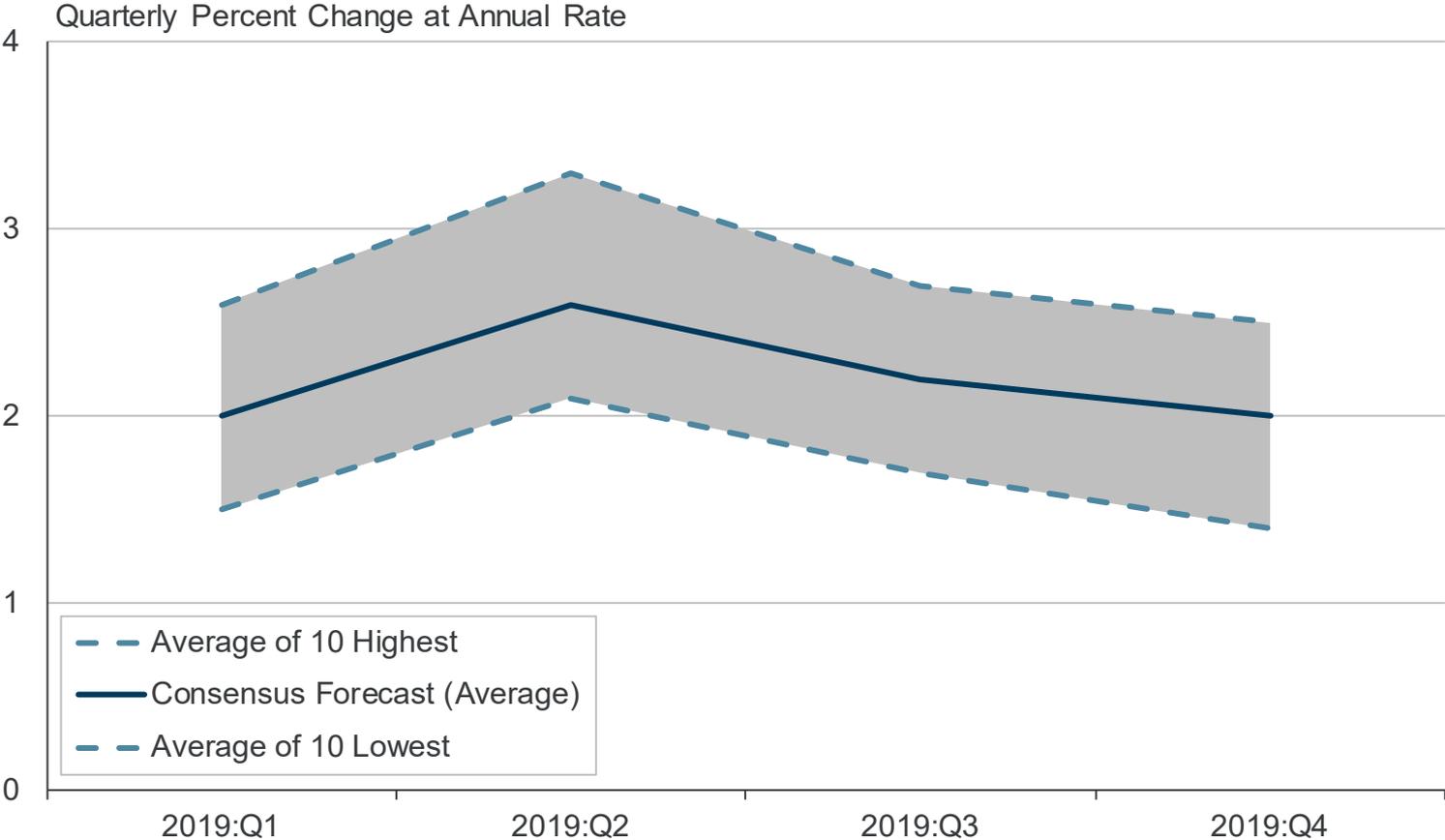
Note: Weekly averages.

Source: Reuters, Haver Analytics

Markets Still Pricing In Somewhat Elevated Risk

- ▶ Domestic stocks have partially recovered and volatility is lower
- ▶ Foreign stocks and debt markets still reflective of downside risks
- ▶ These heightened risks are an important reason for policy patience

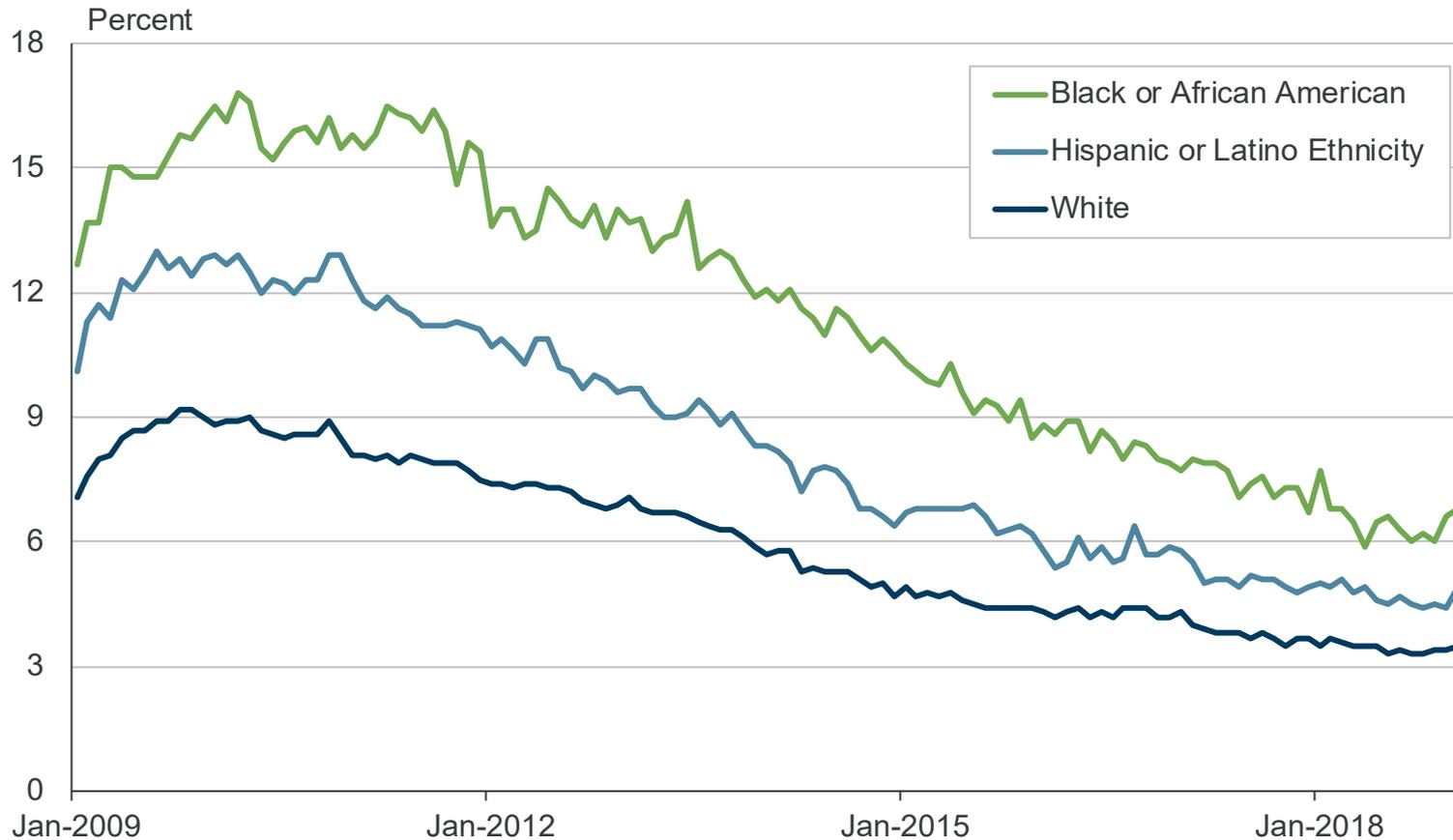
Figure 8: Blue Chip Forecast for Real GDP Growth 2019:Q1 - 2019:Q4



Source: Blue Chip Economic Indicators, February 10, 2019

Figure 9: Unemployment Rate by Race and Ethnicity

January 2009 - January 2019



Note: Persons whose ethnicity is identified as Hispanic or Latino may be of any race.

Source: BLS, Haver Analytics

Figure 10: Initial Claims for Unemployment Insurance

January 3, 2009 - February 23, 2019



Note: Four-week moving average.

Source: U.S. Department of Labor, Haver Analytics

Figure 11: The Quits Rate

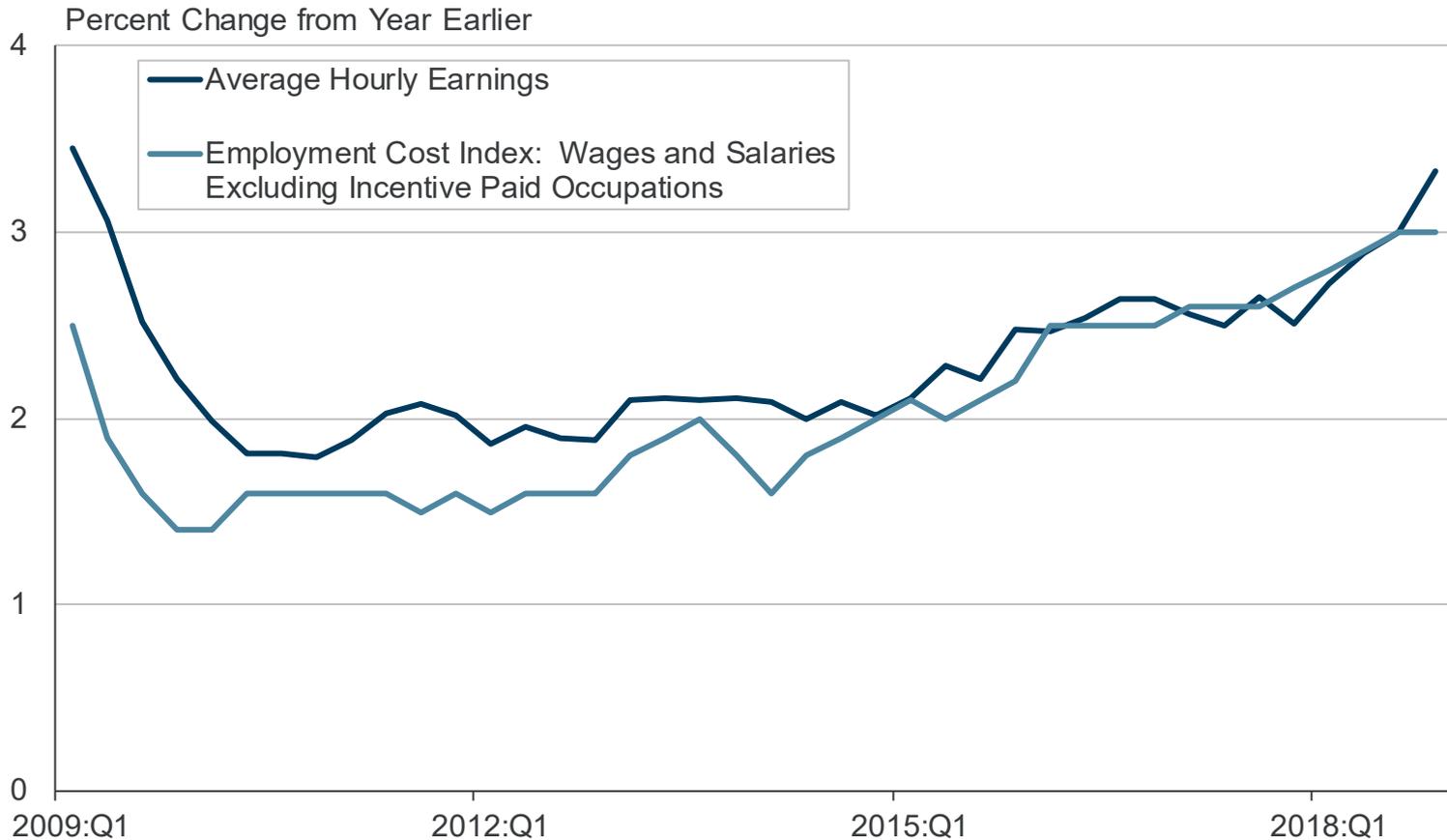
January 2009 - December 2018



Note: The quits rate is the number of quits during the entire month as a percent of total employment. Pictured above is the three-month moving average.

Source: BLS, Haver Analytics

Figure 12: Wage Growth for Private Industry Workers 2009:Q1 - 2018:Q4



Source: BLS, Haver Analytics

Figure 13: Employment Cost Index: Wages and Salaries for Private Industry Workers in Selected Industries 2009:Q1 - 2018:Q4

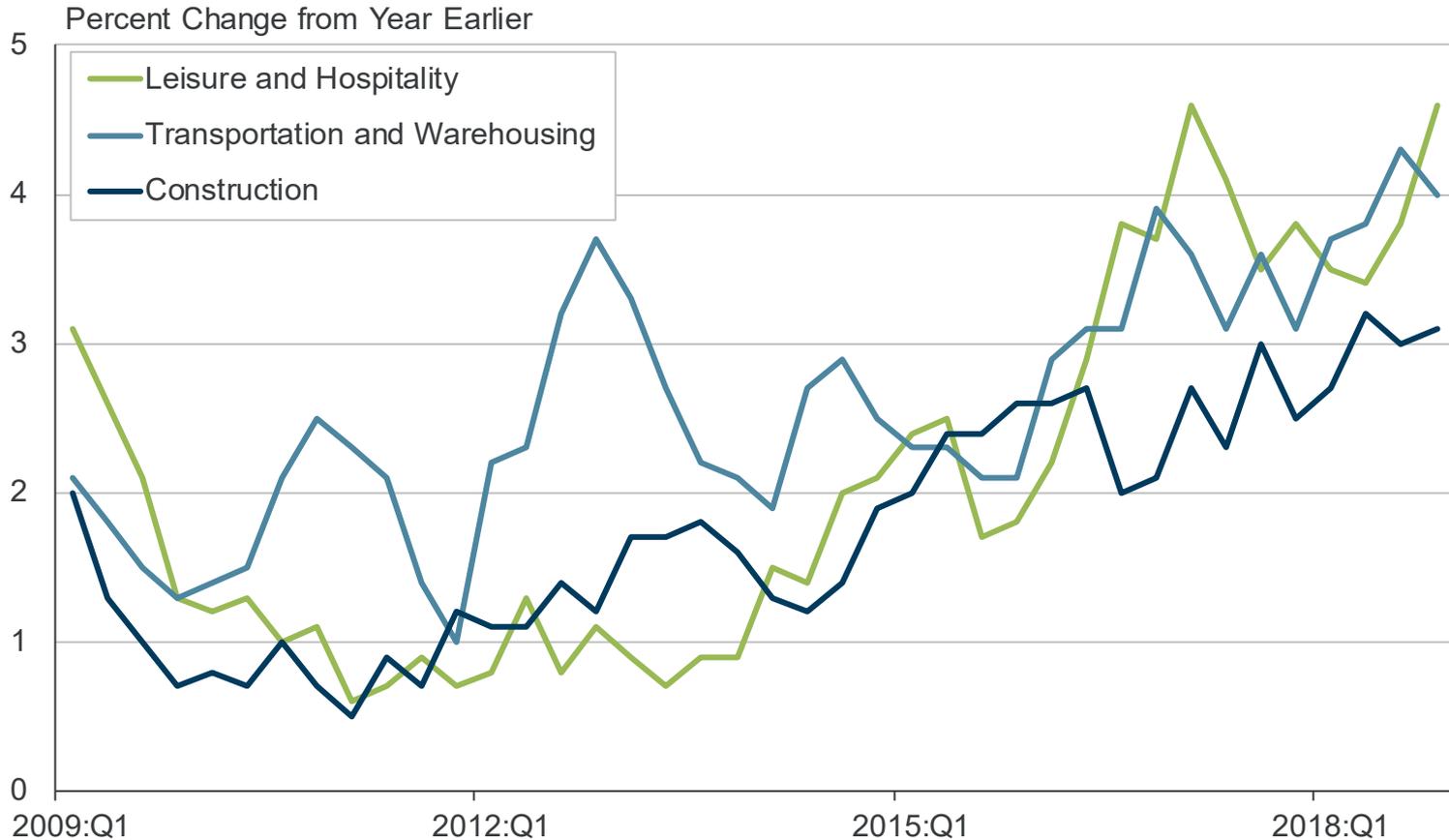


Figure 14: Inflation Rate: Change in Personal Consumption Expenditures (PCE) Price Indices

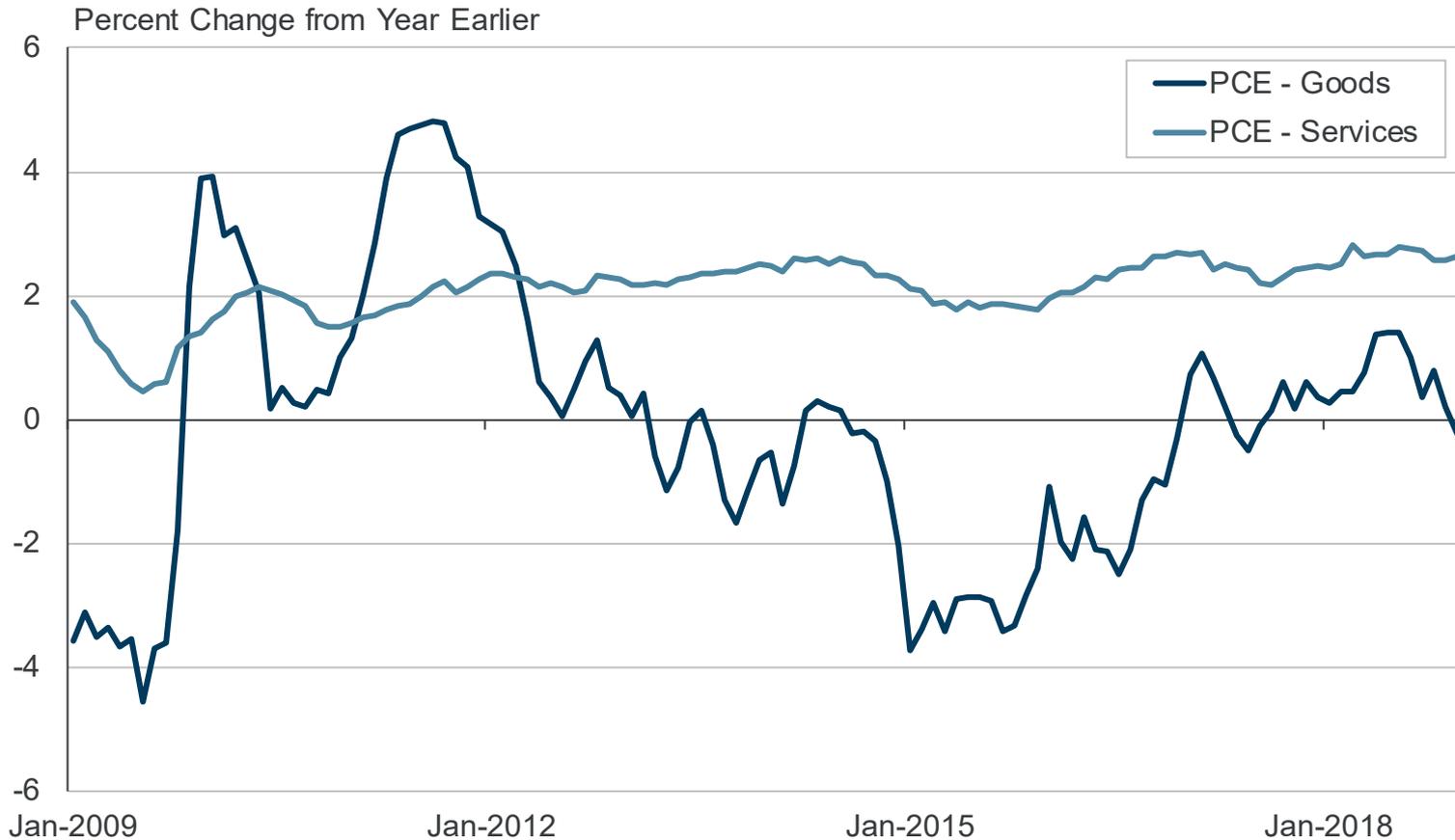
January 2009 - December 2018



Note: Core PCE excludes food and energy.

Source: BEA, Haver Analytics

Figure 15: Inflation Rate: Change in Personal Consumption Expenditures (PCE) Price Indices for Goods and Services January 2009 - December 2018



Concluding Observations

- ▶ Modal forecast still favorable for growth, inflation, and labor markets
 - ▶ Financial markets have improved from the end of last year
 - ▶ Little evidence of overheating
- ▶ Downside risks to that outlook have increased, and still seem elevated
 - ▶ Weak December retail sales among signs that economy may be slowing more than anticipated
 - ▶ Some mark-down in private-sector forecasts for first quarter
 - ▶ Downside risks reflected in markets, especially foreign stocks and all debt markets
- ▶ Monetary policy should be patient
 - ▶ Data still delayed from government shutdown
 - ▶ It may be several FOMC meetings before policymakers have a clearer read on whether risks become a reality
 - ▶ Fortunately, with less ebullience in financial markets and no immediate signs of inflation, patience is prudent