Prefatory Note

The attached document represents the most complete and accurate version available based on original files from the FOMC Secretariat at the Board of Governors of the Federal Reserve System.

Please note that some material may have been redacted from this document if that material was received on a confidential basis. Redacted material is indicated by occasional gaps in the text or by gray boxes around non-text content. All redacted passages are exempt from disclosure under applicable provisions of the Freedom of Information Act.

Class II FOMC – Restricted (FR)

Report to the FOMC on Economic Conditions and Monetary Policy



Book A

Economic and Financial Conditions: Current Situation and Outlook

July 24, 2013

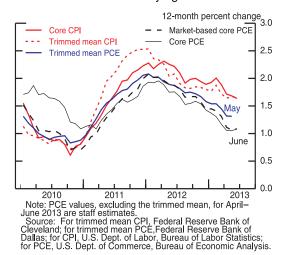
What Is behind the Surprisingly Low Rate of Inflation?

Readings on PCE inflation have been quite low recently. Over the 12 months ending in June, headline PCE prices are estimated to have risen about 1¼ percent, while core PCE prices are estimated to have risen only about 1 percent. As can be seen in the lower-left figure, many different measures of underlying inflation have moved down over the past year; however, the decline in core PCE inflation has been especially noticeable. In evaluating how transitory we should expect the recent low PCE inflation to be, we find it instructive to compare recent inflation performance with our earlier expectations.

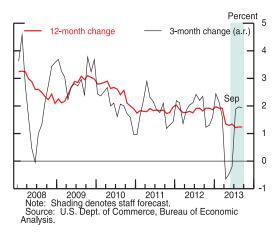
Following the low readings on core PCE inflation over the second half of 2012, we projected in January that core inflation would pick up in the first half of this year. However, as shown in the table on the next page, both total and core PCE inflation have come in lower than we projected. Nevertheless, we have not changed our view that inflation will eventually and gradually move back up toward the Committee's 2 percent goal, as we see this year's lower-than-expected readings on headline and core inflation as being largely attributable to a few factors that we expect to be transitory.

First, the nonmarket component of PCE prices was much softer in the first quarter than we expected in January. This component is erratic and susceptible to significant revisions, and, as a result, we take very little forecasting signal from recent readings.¹ Indeed, with the most recent data, nonmarket prices now look to have increased in the second quarter by about as much as we had projected in the January Tealbook; nevertheless, the average rate of increase over the first half is still below our January projection.

Measures of Underlying Inflation



PCE Medical Services Price Inflation



¹ In its upcoming comprehensive revisions, the BEA will bring in new data that could result in historical revisions to nonmarket prices. In addition, the BEA will adjust the methodology used to compute imputed financial services charges—an important component of nonmarket prices.

Market-based core PCE inflation rebounded in the first quarter by a bit more than we had expected but was subsequently held down by two factors that we had not anticipated. First, as shown in the lower-right figure on the previous page, a one-time decrease in Medicare reimbursements (related to the federal spending sequestration) temporarily led the PCE measure of medical services prices to drop sharply in April. In May and June, these prices appear to have returned to a more normal rate of increase. Second, prices of core imports, which we estimate to pass through fairly quickly into consumer goods prices, have been much softer over the first half of the year than we anticipated in January.

Finally, consumer energy prices, which are of course volatile, declined more rapidly over the first half than we projected. In all, headline PCE prices edged up at an annual rate of only ½ percent in the first half—well below what we projected in January.

As noted, the very soft readings on medical prices are probably already behind us, and nonmarket prices, while quite uncertain, also appear to be rising at a more typical rate. In the second half of this year, consumer energy prices are projected to edge up on net; we also expect core import prices to flatten out after having declined in the second quarter, although if this occurred, it would still leave them much softer than we had anticipated in January.² Thus, as these specific influences holding down inflation in the first half recede, we project headline and core inflation to rise from their recent low rates to a pace of just under 1½ percent in the second half—a pace we think is more reflective of underlying conditions than are the especially low rates observed over the past 6 or 12 months.

The Staff Inflation Forecast Compared with the January Tealbook (Percent change, annual rate)

	2012		2013				
Category	H2	Q1	O2 ^e	H1 ^e	H2 ^t		
Total PCE	1.6	1.0	1	.5	1.4		
January TB	1.4	.9	1.9	1.4	1.4		
Energy	10.2	-3.7	-13.1	-8.5	.8		
January TB	8.0	-11.0	3.6	-3.9	-2.4		
Core PCE	1.1	1.3	.8	1.1	1.5		
January TB	1.0	1.6	1.7	1.7	1.6		
Market-based core	1.1	1.6	.6	1.1	1.3		
January TB	1.1	1.4	1.6	1.5	1.5		
Nonmarket-based core	.8	4	2.5	1.0	2.3		
January TB	.2	2.3	2.5	2.4	2.5		
Memo: Core imports	3	.2	-2.0	9	.1		
January TB	5	2.5	1.6	2.0	1.3		

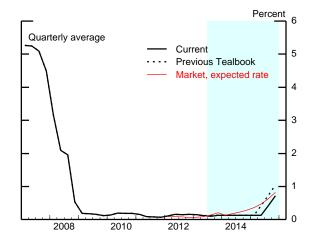
e Staff estimate. f Staff forecast.

Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.

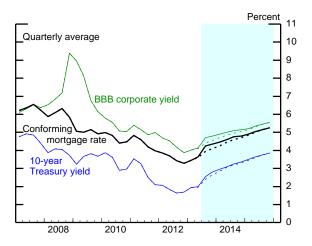
² Our projection of core import prices depends importantly on the staff's assumed paths for exchange rates and commodity prices, around which there is considerable uncertainty.

Key Background Factors underlying the Baseline Staff Projection

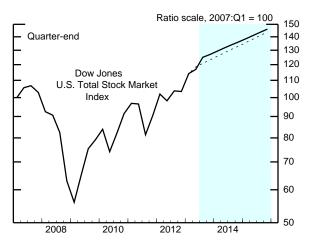
Federal Funds Rate



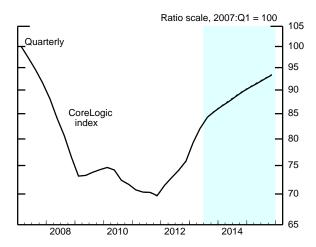
Long-Term Interest Rates



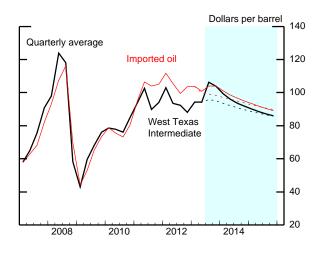
Equity Prices



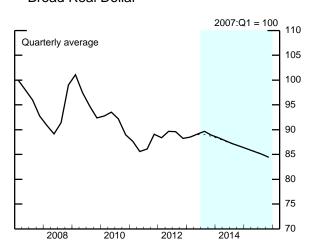
House Prices



Crude Oil Prices



Broad Real Dollar



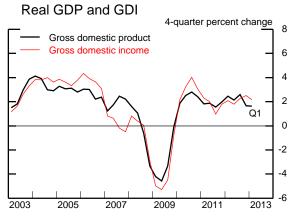
Summary of the Near-Term Outlook

(Percent change at annual rate except as noted)

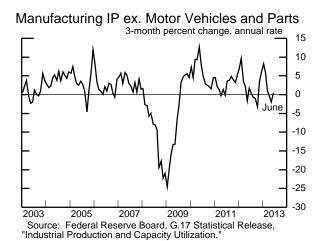
	201	13:Q2	201	13:Q3	2013	3:Q4
Measure	Previous Tealbook	Current Tealbook	Previous Tealbook	Current Tealbook	Previous Tealbook	Current Tealbook
Real GDP	1.8	1.1	2.5	2.3	3.3	3.3
Private domestic final purchases	2.6	2.5	3.7	2.8	4.2	4.0
Personal consumption expenditures	2.1	1.5	3.1	2.6	3.6	3.5
Residential investment	18.6	9.8	13.9	4.2	15.3	17.3
Business fixed investment	2.4	7.2	5.7	3.7	6.0	4.0
Government purchases	-3.4	-3.7	-3.8	-3.2	-2.0	-2.0
Contributions to change in real GDP						
Inventory investment ¹	.0	1	.1	.2	.3	.6
Net exports ¹	.2	2	.0	.4	2	2
Unemployment rate ²	7.5	7.5	7.4	7.5	7.3	7.4
PCE chain price index	1	1	1.2	1.8	1.3	1.0
Ex. food and energy	.8	.8	1.3	1.5	1.5	1.4

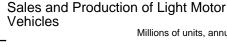
^{1.} Percentage points.

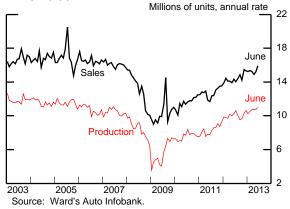
Recent Nonfinancial Developments (1)

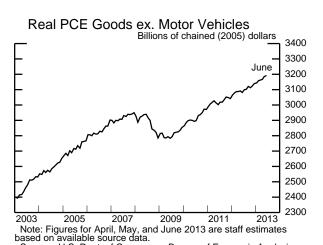


Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.









Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.

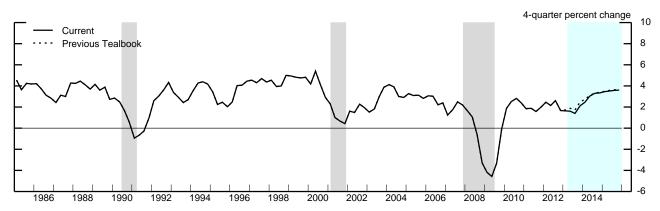
^{2.} Percent.

Projections of Real GDP and Related Components

(Percent change at annual rate from final quarter of preceding period except as noted)

	2012	2012	20	2013 2014		2015	
Measure	2012	2013	H1	H2	2014	2015	
Real GDP Previous Tealbook	1.7 1.7	2.1 2.5	1.4 2.0	2.8 2.9	3.3 3.4	3.6 3.6	
Final sales	2.1	1.8	1.2	2.4	3.2	3.8	
Previous Tealbook	2.1	2.2	1.6	2.7	3.3	3.8	
Personal consumption expenditures	1.8	2.5	2.1	3.0	3.7	3.9	
Previous Tealbook	1.8	3.0	2.6	3.3	3.8	3.9	
Residential investment	14.9	11.2	11.9	10.6	18.9	16.0	
Previous Tealbook	14.9	15.3	15.9	14.6	17.8	15.2	
Nonresidential structures	7.3	1.3	-1.2	3.9	2.5	3.1	
Previous Tealbook	7.3	1.3	-1.9	4.5	3.4	3.4	
Equipment and software	4.7	4.8	5.8	3.8	5.7	6.2	
Previous Tealbook	4.7	4.7	3.1	6.4	6.3	6.4	
Federal purchases	-2.8	-7.6	-8.9	-6.3	-5.5	-3.8	
Previous Tealbook	-2.8	-7.6	-8.3	-6.9	-5.5	-3.8	
State and local purchases	-1.1	7	-1.1	3	.0	1.0	
Previous Tealbook	-1.1	8	-1.3	3	.0	1.0	
Exports	2.1	3.4	3.0	3.8	4.8	6.4	
Previous Tealbook	2.1	3.1	2.2	4.0	5.1	6.5	
Imports	.2	2.9	3.2	2.7	4.7	5.4	
Previous Tealbook	.2	2.7	1.6	3.8	4.7	5.4	
		Contri	butions to cha (percentage	ange in real GI e points)	OP		
Inventory change	4	.3	.3	.4	.1	2	
Previous Tealbook	4	.3	.4	.2	.1	2	
Net exports	.3	.0	1	.1	1	.0	
Previous Tealbook	.3	.0	.0	1	1	.0	

Real GDP

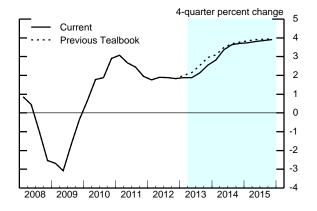


Note: The gray shaded bars indicate a period of business recession as defined by the National Bureau of Economic Research.

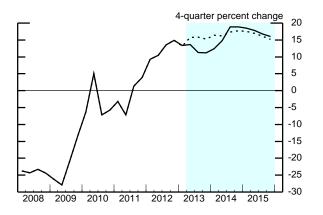
Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Components of Final Demand

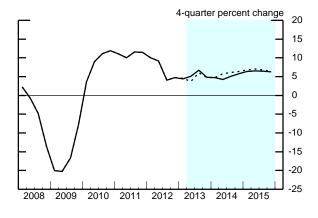
Personal Consumption Expenditures



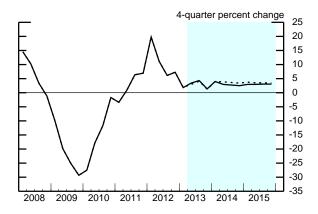
Residential Investment



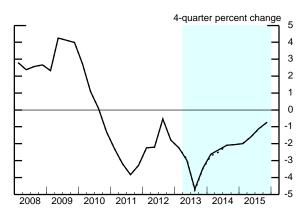
Equipment and Software



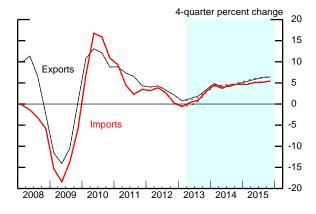
Nonresidential Structures



Government Consumption & Investment



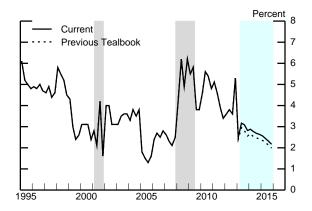
Exports and Imports



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

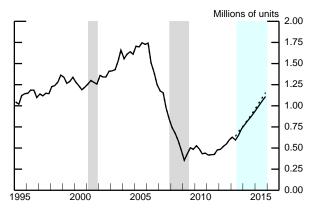
Aspects of the Medium-Term Projection

Personal Saving Rate



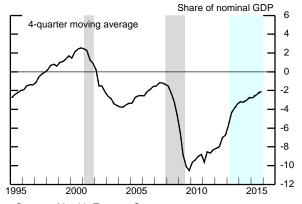
Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.

Single-Family Housing Starts



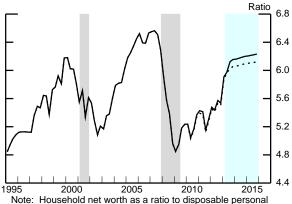
Source: U.S. Census Bureau.

Federal Surplus/Deficit



Source: Monthly Treasury Statement.

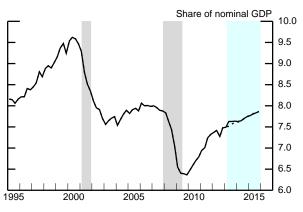
Wealth-to-Income Ratio



Note: Household net worth as a ratio to disposable personal income.

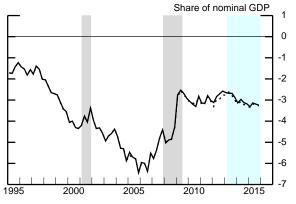
Source: For net worth, Federal Reserve Board, flow of funds data; for income, U.S. Dept. of Commerce, Bureau of Economic Analysis.

Equipment and Software Spending



Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.

Current Account Surplus/Deficit



Source: U.S. Dept. of Commerce, Bureau of Economic Analysis.

Note: The gray shaded bars indicate a period of business recession as defined by the National Bureau of Economic Research.

Decomposition of Potential GDP

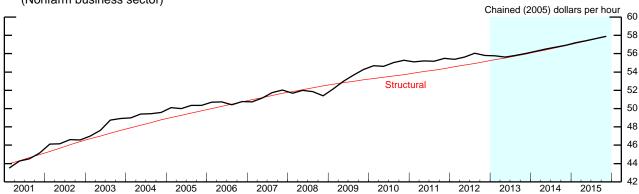
(Percent change, Q4 to Q4, except as noted)

Measure	1974-95	1996- 2000	2001-10	2011	2012	2013	2014	2015
Potential real GDP	3.0	3.4	2.1	1.6	1.9	2.0	2.1	2.1
Previous Tealbook	3.0	3.4	2.1	1.6	1.9	2.0	2.1	2.1
Selected contributions ¹ Structural labor productivity Previous Tealbook	1.4	2.6	2.1	1.3	1.4	1.5	1.7	1.7
	1.4	2.6	2.1	1.3	1.4	1.5	1.7	1.7
Capital deepening Previous Tealbook	.7	1.5	.7	.2	.4	.5	.6	.7
	.7	1.5	.7	.2	.4	.5	.6	.7
Multifactor productivity	.5	.8	1.2	.9	.9	.9	.9	.9
Previous Tealbook	.5	.8	1.2	.9	.9	.9	.9	.9
Structural hours	1.5	1.0	.6	.6	.7	.7	.6	.6
Previous Tealbook	1.5	1.0	.6	.6	.7	.7	.6	.6
Labor force participation	.4	.0	3	4	3	4	3	3
Previous Tealbook	.4	.0	3	4	3	4	3	3
Memo: GDP gap ² Previous Tealbook	-2.4 -2.4	1.9 1.9	-4.0 -4.0	-3.6 -3.6	-3.9 -3.9	-3.8 -3.4	-2.6 -2.2	-1.2 8

Note: For multiyear periods, the percent change is the annual average from Q4 of the year preceding the first year shown to Q4 of the last year shown.

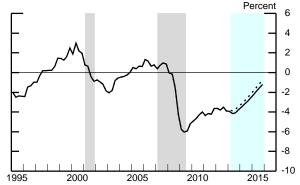
1. Percentage points.

Structural and Actual Labor Productivity (Nonfarm business sector)



Source: U.S. Department of Labor, Bureau of Labor Statistics; U.S. Department of Commerce, Bureau of Economic Analysis; staff assumptions.

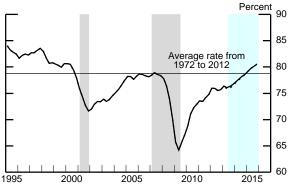
GDP Gap



Note: The GDP gap is the percent difference between actual and potential GDP; a negative number indicates that the

economy is operating below potential. Source: U.S. Dept. of Commerce, BEA; staff assumptions.

Manufacturing Capacity Utilization Rate



Source: Federal Reserve Board, G.17 Statistical Release, "Industrial Production and Capacity Utilization."

Note: The gray shaded bars indicate a period of business recession as defined by the National Bureau of Economic Research.

^{2.} Percent difference between actual and potential GDP in the final quarter of the period indicated. A negative number indicates that the economy is operating below potential.

The Outlook for the Labor Market

· · · · · · · · · · · · · · · · · · ·	2012	2012	20	13	2014	2015
Measure	2012	2013	H1	H2	2014	2015
Output per hour, nonfarm business ¹	.6	.3	7	1.4	1.6	1.7
Previous Tealbook	.6	.9	.3	1.5	1.6	1.6
Nonfarm private employment ²	189	198	206	190	209	250
Previous Tealbook	189	183	190	175	218	265
Labor force participation rate ³	63.7	63.4	63.4	63.4	63.3	63.3
Previous Tealbook	63.7	63.4	63.4	63.4	63.3	63.3
Civilian unemployment rate ³	7.8	7.4	7.5	7.4	6.8	6.0
Previous Tealbook	7.8	7.3	7.5	7.3	6.6	5.8

^{1.} Percent change from final quarter of preceding period at annual rate.

Source: U.S. Department of Labor, Bureau of Labor Statistics; staff assumptions.

Inflation Projections (Percent change at annual rate from final quarter of preceding period)

	2012	2012	20	13	2014	2015
Measure	2012 2013		Н1	H1 H2		2015
PCE chain-weighted price index	1.6	.9	.5	1.4	1.3	1.5
Previous Tealbook	1.6	.9	.4	1.3	1.4	1.6
Food and beverages	1.1	1.0	.9	1.1	.8	1.3
Previous Tealbook	1.1	1.2	1.2	1.1	.9	1.4
Energy	3.2	-4.0	-8.5	.8	-2.4	-1.6
Previous Tealbook	3.2	-5.0	-9.1	8	9	9
Excluding food and energy	1.5	1.3	1.1	1.5	1.6	1.7
Previous Tealbook	1.5	1.2	1.0	1.4	1.6	1.8
Prices of core goods imports ¹	.1	4	9	.1	1.4	1.5
Previous Tealbook	.1	1	4	.2	1.4	1.5

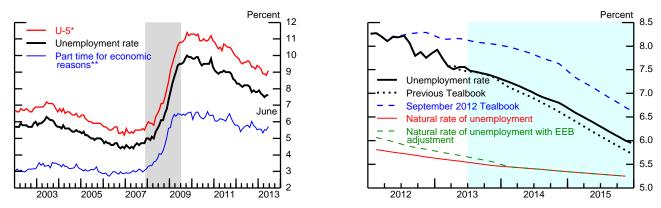
^{1.} Core goods imports exclude computers, semiconductors, oil, and natural gas.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Torcent change from man quarter of preceding period.
 Thousands, average monthly changes.
 Percent, average for the final quarter in the period.

Labor Market Developments and Outlook

Measures of Labor Underutilization

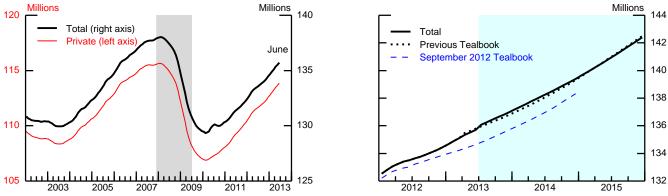


^{*} U-5 measures total unemployed plus all marginally attached to the labor force, as a percent of the labor force plus persons marginally attached to the labor force.

Percent of Current Population Survey employment.

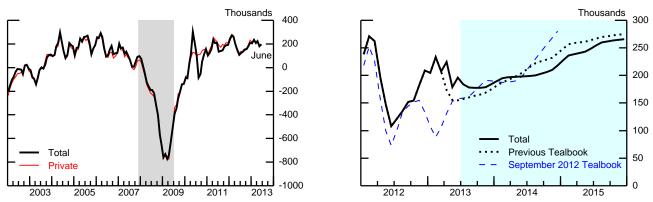
EEB Extended and emergency unemployment benefits. Source: U.S. Department of Labor, Bureau of Labor Statistics.

Level of Payroll Employment*



^{* 3-}month moving averages in history; average levels in each quarter during the forecast period. Source: U.S. Department of Labor, Bureau of Labor Statistics.

Change in Payroll Employment*

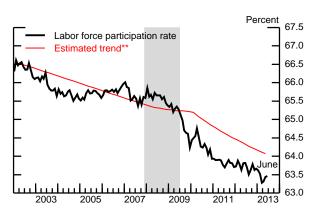


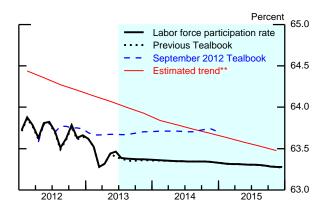
^{* 3-}month moving averages in history; average monthly changes in each quarter during the forecast period. Source: U.S. Department of Labor, Bureau of Labor Statistics.

Note: In September 2012, judgmental projections were prepared through 2015 for the Summary of Economic Projections variables, including the unemployment rate, while projections for other variables, including the labor force participation rate and payroll employment, were prepared only through 2014. This exhibit therefore reports a 2015 projection from the September 2012 Tealbook only for the unemployment rate.

Labor Market Developments and Outlook (2)

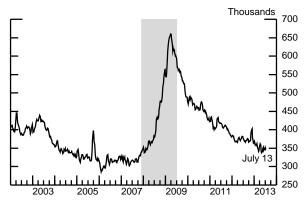
Labor Force Participation Rate*



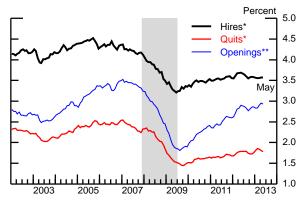


- * Published data adjusted by staff to account for changes in population weights.
- ** Includes staff estimate of the effect of extended and emergency unemployment benefits. Source: U.S. Department of Labor, Bureau of Labor Statistics; staff assumptions.

Initial Unemployment Insurance Claims*



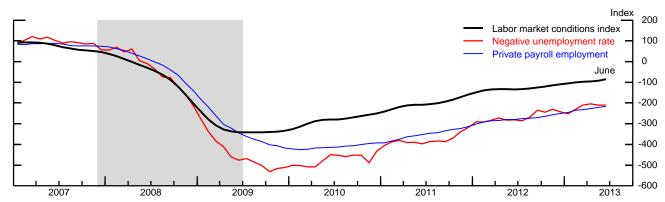
 * 4-week moving average.
 Source: U.S. Department of Labor, Employment and Training Administration.



Private Hires, Quits, and Job Openings

- * Percent of private nonfarm payroll employment, 3-month moving average. ** Percent of private nonfarm payroll employment plus
- ** Percent of private nonfarm payroll employment plus unfilled jobs, 3-month moving average. Source: Job Openings and Labor Turnover Survey.

Indexes of Selected Labor Market Indicators



Note: Labor market conditions index estimated by staff; indexes for unemployment rate and private payroll employment are deviation from estimated trend normalized to have mean zero and unit standard deviation over the period July 1976 to September 2008, multiplied by 100.

Labor Market Data and Projections

	Aug	Projection for mid-2014 ² in the Tealbook dated:					
Indicator	Aug. 2012 ¹	Sept. 2012	Dec. 2012	June 2013 ³	July 2013 ³		
Unemployment rate (percent)	8.1	7.8	7.6	6.9	7.0		
Labor force participation rate (percent)	63.5	63.7	63.7	63.3	63.3		
Monthly change in payroll employment (thousands, three-month averages) Total Private	94 109	212 210	197 195	211 219	199 207		
Level of total payroll employment (millions)	133.3	137.0	137.1	138.1	138.3		
Total hours worked (percent change) ⁴	1.0	2.3	2.0	2.6	2.5		
Total hours worked (billions) ⁴	184.6	190.3	190.8	193.2	193.3		

^{1.} The figures for August 2012 refer to data as originally published in the September employment situation release along with the staff's real-time translation of those data into hours worked. These were the latest available data at the time of the September FOMC meeting.

Source: U.S. Department of Labor, Bureau of Labor Statistics; staff projections.

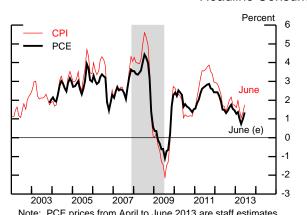
^{2.} Calculated as the mean of the 2014:Q2 and 2014:Q3 projections.3. Projections of payrolls and hours worked include the effects of the benchmark revision to the payroll survey.

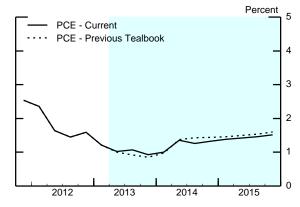
^{4.} Total hours worked are aggregate hours in the nonfarm business sector. Because that series is available only on a quarterly basis, the August 2012 figures refer to the quarterly percent change and level in 2012:Q3. The percent changes and levels in hours are at annual rates.

Inflation Developments and Outlook

(Percent change from year-earlier period)

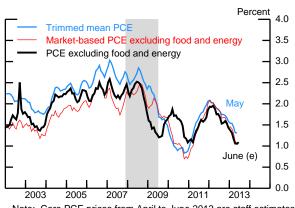
Headline Consumer Price Inflation

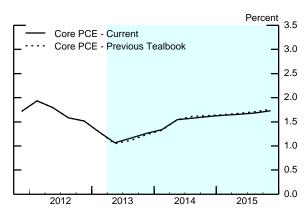




Note: PCE prices from April to June 2013 are staff estimates. Source: For CPI, U.S. Department of Labor, Bureau of Labor Statistics; for PCE, U.S. Department of Commerce, Bureau of Economic Analysis.

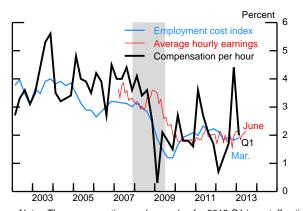
Measures of Underlying PCE Price Inflation

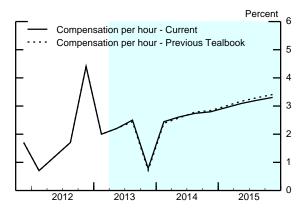




Note: Core PCE prices from April to June 2013 are staff estimates. Source: For trimmed mean PCE, Federal Reserve Bank of Dallas; otherwise, U.S. Department of Commerce, Bureau of Economic Analysis.

Labor Cost Growth (Private Industry)





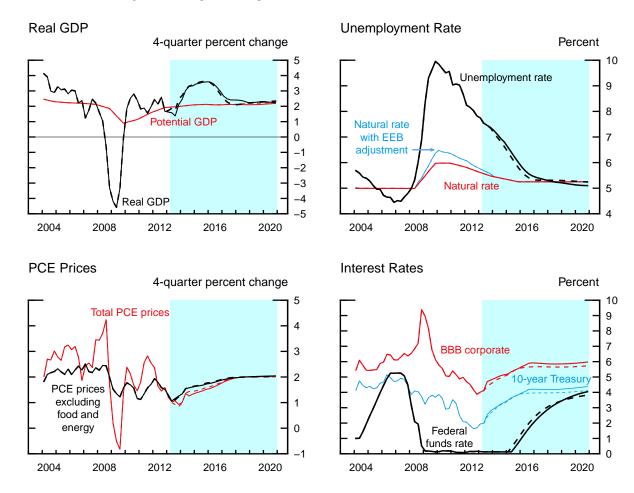
Note: The compensation per hour value for 2013:Q1 is a staff estimate. Source: U.S. Department of Labor, Bureau of Labor Statistics.

The Long-Term Outlook

(Percent change, Q4 to Q4, except as noted)

Measure	2013	2014	2015	2016	2017	Longer run
Real GDP	2.1	3.3	3.6	3.0	2.4	2.3
Previous Tealbook	2.5	3.4	3.6	2.8	2.1	2.3
Civilian unemployment rate ¹	7.4	6.8	6.0	5.5	5.3	5.2
Previous Tealbook	7.3	6.6	5.8	5.3	5.3	5.2
PCE prices, total	.9	1.3	1.5	1.7	2.0	2.0
Previous Tealbook	.9	1.4	1.6	1.8	2.0	2.0
Core PCE prices	1.3	1.6	1.7	1.9	2.0	2.0
Previous Tealbook	1.2	1.6	1.8	1.9	2.0	2.0
Federal funds rate ¹	.1	.1	.7	1.9	2.8	4.0
Previous Tealbook	.1	.1	1.0	2.2	3.0	4.0
10-year Treasury yield ¹	2.8	3.4	3.9	4.2	4.2	4.8
Previous Tealbook	2.7	3.3	3.9	4.0	4.0	4.8

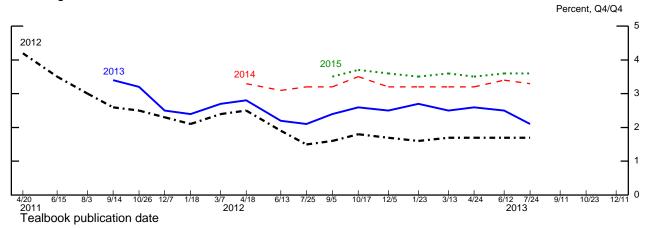
^{1.} Percent, average for the final quarter of the period.



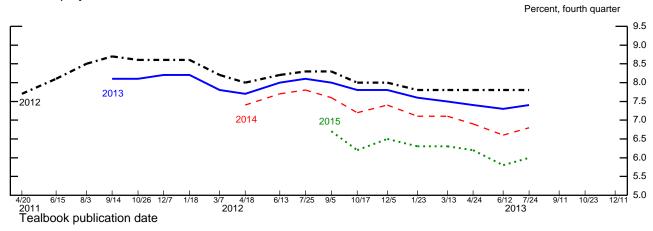
Note: In each panel, shading represents the projection period, and dashed lines are the previous Tealbook.

Evolution of the Staff Forecast

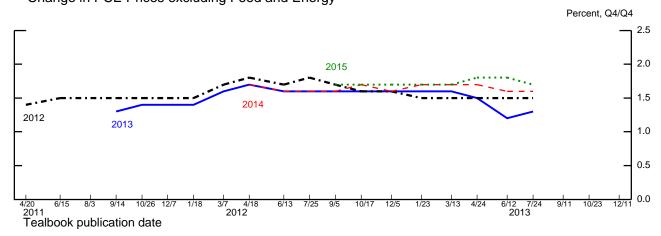
Change in Real GDP



Unemployment Rate



Change in PCE Prices excluding Food and Energy



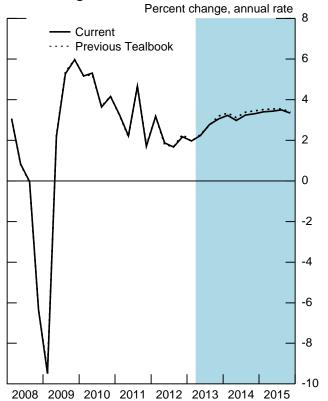
The Foreign GDP Outlook

Real GDP* Percent change, annual rate

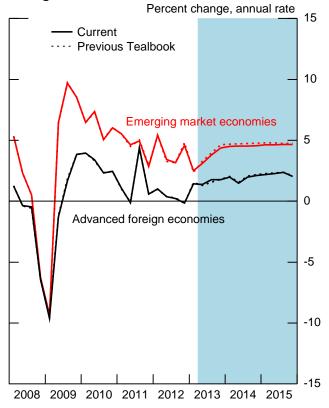
		2012		2013		2014	2015
		Q4	Q1	Q2	H2		
1. T	otal Foreign	2.2	2.0	2.2	2.9	3.2	3.4
	Previous Tealbook	2.3	2.0	2.3	3.0	3.3	3.5
2.	Advanced Foreign Economies	-0.1	1.4	1.4	1.8	1.9	2.2
	Previous Tealbook	-0.2	1.5	1.3	1.7	2.0	2.3
3.	Canada	0.9	2.5	1.7	2.4	2.5	2.6
4.	Euro Area	-2.4	-1.1	-0.1	0.4	1.1	1.9
5.	Japan	1.2	4.1	3.8	3.1	0.9	1.0
6.	United Kingdom	-0.9	1.1	2.4	2.0	2.2	2.6
7.	Emerging Market Economies	4.6	2.5	3.1	4.1	4.5	4.6
	Previous Tealbook	4.8	2.4	3.3	4.3	4.7	4.8
8.	China	8.1	7.0	6.9	7.5	7.8	7.7
9.	Emerging Asia ex. China	4.9	1.4	2.9	3.7	4.2	4.5
10.	Mexico	2.7	1.8	1.7	3.2	3.7	3.7
11.	Brazil	2.6	2.2	2.5	3.1	3.4	3.8

^{*} GDP aggregates weighted by shares of U.S. merchandise exports.





Foreign GDP



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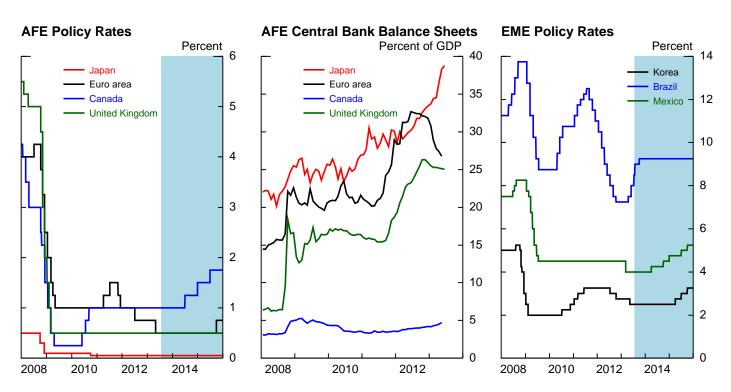
The Foreign Inflation Outlook

Consumer Prices*	Percent change, annual rate
------------------	-----------------------------

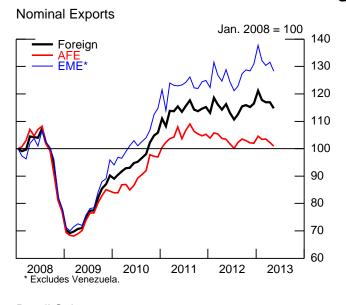
		2012		2013		2014	2015
		Q4	Q1	Q2	H2		
1. T	otal Foreign	2.4	2.3	1.9	2.3	2.6	2.7
	Previous Tealbook	2.3	2.3	1.9	2.2	2.6	2.7
2.	Advanced Foreign Economies	1.6	0.9	0.5	1.3	1.7	1.8
	Previous Tealbook	1.6	0.8	0.6	1.2	1.7	1.9
3.	Canada	1.4	1.6	0.1	1.7	1.7	1.8
4.	Euro Area	2.3	0.7	0.6	1.4	1.4	1.6
5.	Japan	0.0	-0.4	0.6	0.4	2.6	2.5
6.	United Kingdom	4.1	2.3	1.4	2.4	1.9	2.0
7.	Emerging Market Economies	3.0	3.4	3.0	3.1	3.3	3.3
	Previous Tealbook	2.8	3.5	2.9	2.9	3.3	3.3
8.	China	2.6	3.2	2.1	2.6	3.0	3.0
9.	Emerging Asia ex. China	3.0	3.5	1.7	3.5	3.4	3.4
10.	Mexico	3.1	3.5	5.5	3.0	3.4	3.4
11.	Brazil	7.0	7.0	5.8	5.7	5.3	5.3

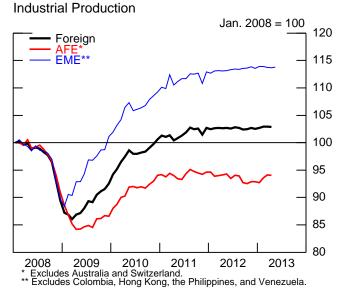
^{*} CPI aggregates weighted by shares of U.S. non-oil imports.

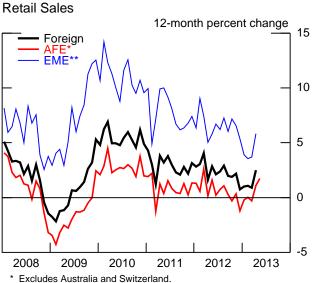
Foreign Monetary Policy



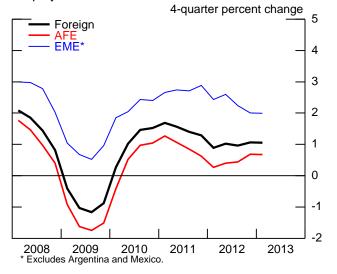
Recent Foreign Indicators

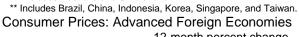


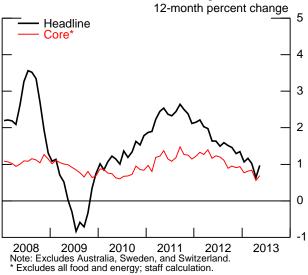




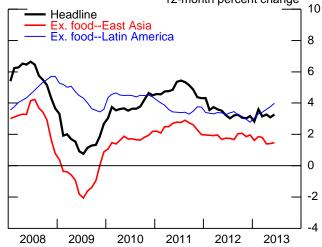






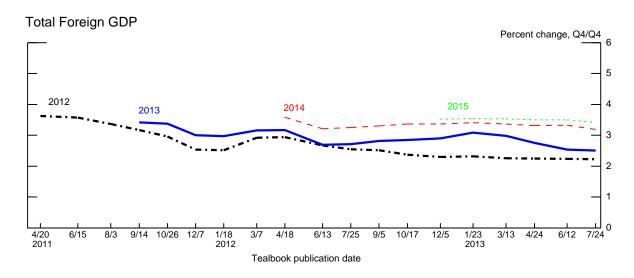


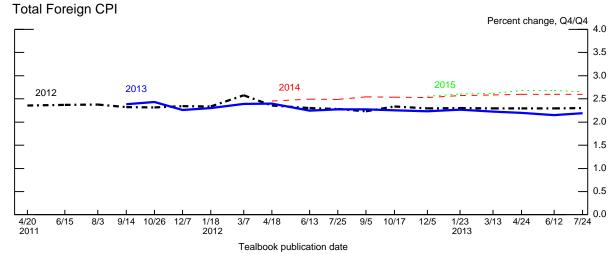
Consumer Prices: Emerging Market Economies
12-month percent change

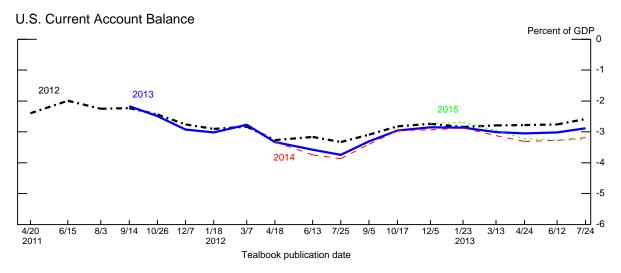


Source: Haver Analytics and CEIC.

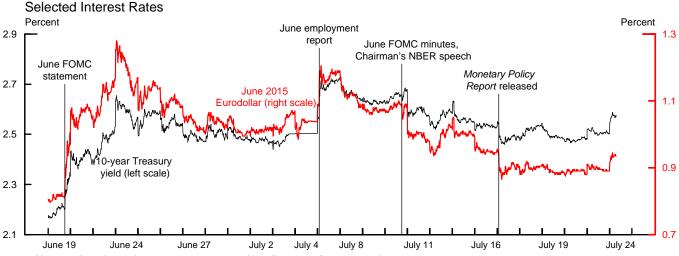
Evolution of Staff's International Forecast





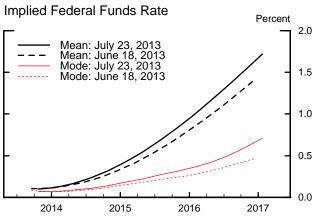


Policy Expectations and Treasury Yields



Note: 5-minute intervals. 8:00 a.m. to 4:00 p.m. No adjustments for term premiums.

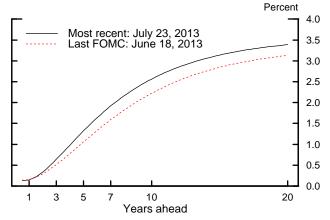
Source: Bloomberg.



Note: Mean is estimated using overnight index swap quotes. Mode is estimated from the distribution of federal funds rate implied by interest rate caps. Both include a term premium of zero basis points per month.

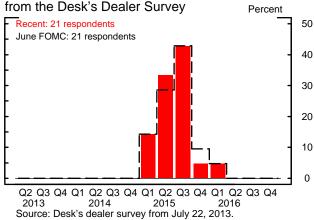
Source: Bloomberg and CME Group.

Treasury Yield Curve

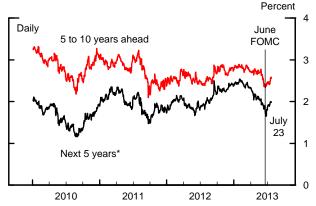


Note: Smoothed yield curve estimated from off-the-run Treasury coupon securities. Yields shown are those on notional par Treasury securities with semiannual coupons. Source: Federal Reserve Board.

Distribution of Modal Timing of First Rate Increase



Inflation Compensation



Note: Estimates based on smoothed nominal and inflation-indexed Treasury yield curves.

* Adjusted for lagged indexation of Treasury inflation-protected securities (carry effect).

Source: Barclays PLC and staff estimates.

Alternative Scenarios

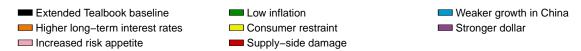
(Percent change, annual rate, from end of preceding period except as noted)

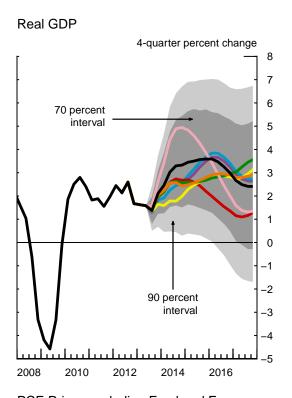
Measure and scenario	20)13	2014	2015	2016-
Measure and scenario	H1	H2	2014	2013	17
Real GDP		•		•	•
Extended Tealbook baseline	1.4	2.8	3.3	3.6	2.7
Higher long-term interest rates	1.4	2.7	2.4	2.8	2.9
Increased risk appetite	1.4	3.8	4.9	3.9	1.7
Low inflation	1.4	2.5	2.5	2.7	3.3
Consumer restraint	1.4	1.9	2.0	2.7	3.0
Supply-side damage	1.4	2.5	2.6	2.2	1.3
Weaker growth in China	1.4	2.2	2.5	3.7	3.1
Stronger dollar	1.4	2.6	2.5	3.5	2.9
Unemployment rate ¹					
Extended Tealbook baseline	7.5	7.4	6.8	6.0	5.3
Higher long-term interest rates	7.5	7.4	7.1	6.8	5.9
Increased risk appetite	7.5	7.3	6.0	4.9	5.4
Low inflation	7.5	7.4	7.1	6.7	5.6
Consumer restraint	7.5	7.5	7.6	7.3	6.5
Supply-side damage	7.5	7.3	6.2	5.2	5.5
Weaker growth in China	7.5	7.5	7.2	6.5	5.5
Stronger dollar	7.5	7.4	7.1	6.5	5.6
Total PCE prices					
Extended Tealbook baseline	.5	1.4	1.3	1.5	1.8
Higher long-term interest rates	.5	1.4	1.3	1.4	1.6
Increased risk appetite	.5	1.4	1.4	1.7	2.1
Low inflation	.5	.7	.2	.1	.1
Consumer restraint	.5	1.4	1.2	1.2	1.2
Supply-side damage	.5	1.4	1.4	1.5	1.7
Weaker growth in China	.5	.6	.6	1.4	1.9
Stronger dollar	.5	.6	.6	1.3	1.7
Core PCE prices					
Extended Tealbook baseline	1.1	1.5	1.6	1.7	1.9
Higher long-term interest rates	1.1	1.5	1.6	1.6	1.7
Increased risk appetite	1.1	1.5	1.7	1.9	2.2
Low inflation	1.1	.8	.5	.3	.2
Consumer restraint	1.1	1.5	1.5	1.4	1.3
Supply-side damage	1.1	1.5	1.7	1.7	1.8
Weaker growth in China	1.1	1.3	1.2	1.5	1.9
Stronger dollar	1.1	1.2	1.0	1.4	1.8
Federal funds rate ¹					
Extended Tealbook baseline	.1	.1	.1	.7	2.8
Higher long-term interest rates	.1	.1	.1	.1	1.3
Increased risk appetite	.1	.1	.6	2.4	3.6
Low inflation	.1	.1	.1	.1	.5
Consumer restraint	.1	.1	.1	.1	.1
Supply-side damage	.1	.1	.5	2.1	3.1
Weaker growth in China	.1	.1	.1	.1	2.4
Stronger dollar	.1	.1	.1	.1	2.3

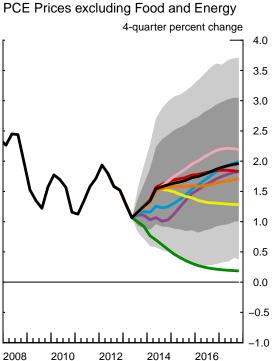
^{1.} Percent, average for the final quarter of the period.

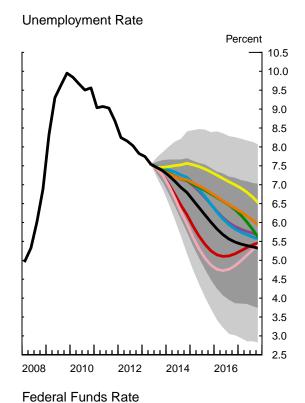
Forecast Confidence Intervals and Alternative Scenarios

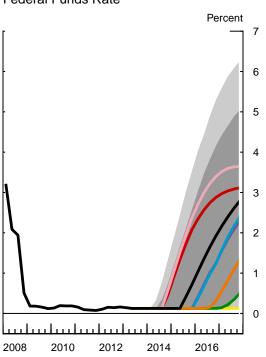
Confidence Intervals Based on FRB/US Stochastic Simulations











Selected Tealbook Projections and 70 Percent Confidence Intervals Derived from Historical Tealbook Forecast Errors and FRB/US Simulations

Measure	2013	2014	2015	2016	2017
Real GDP					
(percent change, Q4 to Q4)					
Projection	2.1	3.3	3.6	3.0	2.4
Confidence interval					
Tealbook forecast errors	1.3–2.9	1.4-5.2	1.5 - 5.7		
FRB/US stochastic simulations	1.2–3.1	1.5–5.4	1.4–5.7	.5–5.3	3–5.2
Civilian unemployment rate					
(percent, Q4)					
Projection	7.4	6.8	6.0	5.5	5.3
Confidence interval					
Tealbook forecast errors	7.0–7.7	6.0 - 7.6	4.7 - 7.4		
FRB/US stochastic simulations	7.1–7.7	5.7–7.7	4.5 - 7.4	3.9–7.2	3.7–7.0
PCE prices, total					
(percent change, Q4 to Q4)					
Projection	.9	1.3	1.5	1.7	2.0
Confidence interval					
Tealbook forecast errors	.5–1.4	.2-2.5	.3–2.7		
FRB/US stochastic simulations	.3–1.6	.4–2.4	.4–2.7	.6–3.0	.8–3.2
PCE prices excluding					
food and energy					
(percent change, Q4 to Q4)					
Projection	1.3	1.6	1.7	1.9	2.0
Confidence interval					
Tealbook forecast errors	.9–1.6	.9-2.3	.7–2.7		
FRB/US stochastic simulations	.9–1.6	.9–2.4	.9–2.7	.9–2.9	1.0-3.0
Federal funds rate					
(percent, Q4)					
Projection	.1	.1	.7	1.9	2.8
Confidence interval					
FRB/US stochastic simulations	.1–.1	.1–.7	.1–2.6	.1–4.2	.5–5.1

Note: Shocks underlying FRB/US stochastic simulations are randomly drawn from the 1969–2012 set of model equation residuals.

Intervals derived from Tealbook forecast errors are based on projections made from 1979 to 2012, except for PCE prices excluding food and energy, where the sample is 1981–2012.

^{...} Not applicable. The Tealbook forecast horizon has typically extended about 2 years.

Alternative Projections

(Percent change, Q4 to Q4, except as noted)

	20	13	20	14	20	15
Measure and projection	Previous Tealbook	Current Tealbook	Previous Tealbook	Current Tealbook	Previous Tealbook	Current Tealbook
Real GDP Staff FRB/US EDO Blue Chip	2.5 2.1 2.5 2.3	2.1 1.6 2.1 2.1	3.4 3.3 2.9 2.8	3.3 3.0 3.0 2.8	3.6 4.0 2.8	3.6 3.5 2.9
Unemployment rate ¹ Staff FRB/US EDO Blue Chip	7.3 7.5 7.5 7.4	7.4 7.6 7.6 7.3	6.6 7.3 7.3 6.9	6.8 7.7 7.3 6.9	5.8 6.4 7.1	6.0 7.1 7.1
Total PCE prices Staff FRB/US EDO Blue Chip ²	.9 .8 .8 1.5	.9 .9 .9 1.3	1.4 1.1 1.4 2.2	1.3 1.0 1.5 2.0	1.6 1.1 1.5	1.5 .9 1.5
Core PCE prices Staff FRB/US EDO Blue Chip	1.2 1.2 1.1	1.3 1.2 1.2	1.6 1.3 1.4	1.6 1.2 1.5	1.8 1.3 1.5	1.7 1.1 1.5
Federal funds rate ¹ Staff FRB/US EDO Blue Chip ³	.1 .1 .7 .1	.1 .1 .7 .1	.1 .1 1.6 .2	.1 .1 1.6 .2	1.0 .1 2.3	.7 .1 2.3

Note: Blue Chip forecast completed on July 10, 2013.

1. Percent, average for Q4.

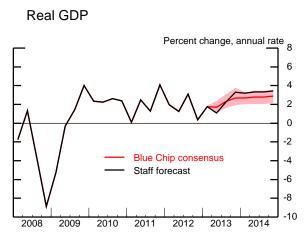
2. Consumer price index.

3. Treasury bill rate.

... Not applicable. The Blue Chip forecast typically extends about 2 years.

Tealbook Forecast Compared with Blue Chip

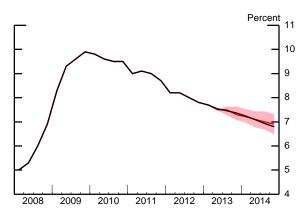
(Blue Chip survey released July 10, 2013)



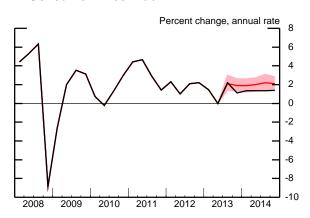
Note: The shaded area represents the area between the Blue Chip top 10 and bottom 10 averages.

Real PCE Percent change, annual rate 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6

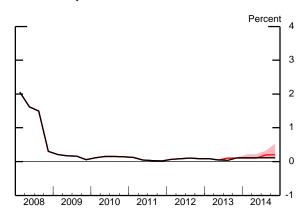
Unemployment Rate



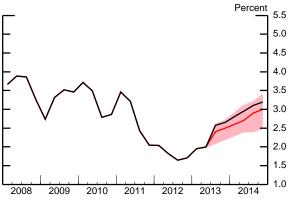
Consumer Price Index



Treasury Bill Rate



10-Year Treasury Yield



Note: The yield is for on-the-run Treasury securities. Over the forecast period, the staff's projected yield is assumed to be 15 basis points below the off-the-run yield.

Assessment of Key Macroeconomic Risks (1)

Probability of Inflation Events

(4 quarters ahead—2014:Q2)

Probability that the 4-quarter change in total PCE prices will be	Staff	FRB/US	EDO	BVAR
Greater than 3 percent Current Tealbook Previous Tealbook	.05 .05	.04 .04	.10 .09	.01 .01
Less than 1 percent Current Tealbook Previous Tealbook	.32 .31	.41 .40	.34 .36	.45 .43

Probability of Unemployment Events

(4 quarters ahead—2014:Q2)

Probability that the unemployment rate will	Staff	FRB/US	EDO	BVAR
Increase by 1 percentage point				
Current Tealbook	.01	.09	.22	.02
Previous Tealbook	.01	.05	.19	.01
Decrease by 1 percentage point				
Current Tealbook	.19	.03	.21	.17
Previous Tealbook	.24	.06	.24	.22

Probability of Near-Term Recession

Probability that real GDP declines in each of 2013:Q3 and 2013:Q4	Staff	FRB/US	EDO	BVAR	Factor Model
Current Tealbook	.02	.04	.05	.09	.16
Previous Tealbook	.02	.03	.04	.04	.11

Note: "Staff" represents Tealbook forecast errors applied to the Tealbook baseline; baselines for FRB/US, BVAR, EDO, and the factor model are generated by those models themselves, up to the current-quarter estimate. Data for the current quarter are taken from the staff estimate for the second Tealbook in each quarter; if the second Tealbook for the current quarter has not yet been published, the preceding quarter is taken as the latest historical observation.

Greensheets

Changes in GDP, Prices, and Unemployment (Percent, annual rate except as noted)

	Nomin	Nominal GDP	Real	Real GDP	PCE pr	PCE price index	Core PCE	Core PCE price index	Unemployment rate ¹	ment rate¹
Interval	06/12/13	07/24/13	06/12/13	07/24/13	06/12/13	07/24/13	06/12/13	07/24/13	06/12/13	07/24/13
Quarterly 2012:Q1 Q2 Q3 Q4	2.5 2.8 2.9 2.9	2.8 2.8 5.9 3.9	2.0 1.3 3.1 4	2.0 1.3 3.1 4	2.5	2.5	2.2	2.2	8.8.2 8.0 8.0 8.0	8.2 8.2 7.8 8.0 8.0
2013:Q1 Q2 Q3 Q4	. 6.2.8.4 . 4.1.0.8.4	3. C.	. 2.2.2 3.2.8.2 3.3.5.8	1.8 1.1 3.3 3.3	1.0	1.0	1.3 8. 1.3 1.5	5: 1. 8: 1. 4: 1.		5.
2014:Q1 Q2 Q3 Q4	4.4 8.4.9 8.0 2.2	4.9 5.0 5.0 5.0	3.3 3.3 3.6 3.6	6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	2.1.1.1.4.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.	£ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	1.7 1.6 1.6 1.6	1.6 1.6 1.6 1.6	7.1 7.0 6.8 6.6	7.2 7.1 6.9 6.8
Two-quarter ² 2012:Q2 Q4	3.5	3.5	1.6	1.6	1.6	1.6	2.0	2.0	¿	¿ 4.
2013:Q2 Q4	2.7 4.4	2.1	2.0	1.4	4. 1.3	¿. 4:1	1.0	1.1	3	£ 1
2014:Q2 Q4	4.9	4.9	3.2	3.3	1.5	1.3	1.7	1.6	£. 4.	હું હું
Four-quarter ³ 2011:Q4 2012:Q4 2013:Q4 2014:Q4 2014:Q4 2015:Q4	4.0 9.8 0.0 4.0 4.0	3.8. 3.2. 6.4. 3.3. 5.3.	2.0 1.7 2.5 3.4 3.6	2.0 1.7 2.1 3.3 3.6	2.5 1.6 .9 .9 1.4	2.5 1.6 .9 1.3 1.3	1.7 1.5 1.2 1.6 1.8	1.7 1.5 1.3 1.6 1.6	8	8. 0. 4. 0. 8.
Annual 2011 2012 2013 2014 2015	4.0 9.4.6 9.4.6 2.5.8	4.0 9.2.9 5.5 2.5	1.8 2.2 3.1 3.1 5.6	1.8 2.2 1.7 3.0 3.0	2.2 4.2 1.0 1.0 5.1 5.1	22 4.1.1 2.1.1 4.1.1	1.4 1.2 1.5 1.5 1.5	4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	8.9 8.1 7.5 6.9 6.1	8.9 8.1 7.5 7.0 6.3

1. Level, except for two-quarter and four-quarter intervals.

2. Percent change from two quarters earlier; for unemployment rate, change is in percentage points.

3. Percent change from four quarters earlier; for unemployment rate, change is in percentage points.

Greensheets
Changes in Real Gross Domestic Product and Related Items
(Percent, annual rate except as noted)

1. Change from fourth quarter of previous year to fourth quarter of year indicated. 2. Billions of chained (2005) dollars.

Greensheets

Changes in Real Gross Domestic Product and Related Items (Change from fourth quarter of previous year to fourth quarter of year indicated, unless otherwise noted)

Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Real GDP Previous Tealbook	2; 2; 4 4	2.2	-3.3 -3.3	7.7.	2, 2, 4, 4,	2.0	1.7	2.1	3.3 3.4	3.6
Final sales Previous Tealbook Priv. dom. final purch. Previous Tealbook	2.2.2.2.8 8.4.4.4.	2.2. 4.2. 1.2. 1.2.	-2.6 -2.6 -4.5 -4.5	 5.8 8	1.7 1.7 3.2 3.2	1.7 1.7 2.9 2.9	2.1 2.1 2.6 2.6	1.8 2.2 3.0 3.4	8.8.4.4.2.2.2.4.4.2.2.2.2.2.4.4.2.2.2.2.	3.8 8.8 9.4 6.6
Personal cons. expend. Previous Tealbook Durables Nondurables Services	33.2 3.2 2.9 2.9 2.6	1.7 1.7 4.6 8.8	-2.5 -2.5 -13.0 -3.1	3 3 3.0 -1.1	2.9 2.9 9.5 3.0 1.9	9.1 9.2 9.5 4.1 5.1	8.1 8.3 9.1 1.1	2.5 3.0 8.3 1.8	3.8 4.9 3.0 3.0	88.8 8.9 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5
Residential investment Previous Tealbook	-15.7 -15.7	-20.7 -20.7	-24.4 -24.4	-13.3 -13.3	-5.7 -5.7	3.9	14.9 14.9	11.2	18.9 17.8	16.0 15.2
Business fixed invest. Previous Tealbook Equipment & software Previous Tealbook Nonres. structures Previous Tealbook	7.8 7.8 6.0 6.0 13.0 13.0	7.9 7.9 3.9 3.9 17.3 17.3	-9.4 -9.4 -13.6 -1.2 -1.2	-15.7 -15.7 -7.8 -7.8 -29.4	7.7 7.7 11.9 11.9 -1.8	10.2 10.2 11.4 11.4 6.9 6.9	2.2.44 4.4.7.7.6.6.	3.8 7.8 4.8 7.7 1.3 1.3	4.8 8.6 7.8 8.6 8.6 8.7 8.6 8.7 8.6 8.7 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	5.5 6.2 6.2 3.1 4.8 3.1
Net exports ¹ Previous Tealbook ¹ Exports Imports	-729 -729 10.2 4.1	-649 -649 10.1	-495 -495 -2.5 -5.9	-355 -355 .3 -6.1	-420 -420 8.8 10.9	-408 -408 4.3 3.5	-401 -401 2.1	-387 -386 3.4 2.9	402 401 4.8 4.7	-405 -401 6.4 5.4
Gov't. cons. & invest. Previous Tealbook Federal Defense Nondefense State & local	\$1.2.2.4.2. \$2.1.2.4.2.2.1.2.1.2.1.2.1.2.1.2.1.2.1.2.	1.9 3.1 4.2 1.2 1.2	7.2.2.8.8.8.8.6.2.2.2.9.8.8.8.8.9.2.2.2.2.2.2.2.2.2.2.2	6.0 4.0 7.2 3.3 3.3	1.3 1.3 2.3 5.2 3.6	£ £ 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.8 1.8 1.5 1.5 1.1	2.5. 7.6. 7.6. 7.7.	-2.1 -2.1 -6.3 -6.3 -6.3 -6.3	7.7 -3.8 -4.1 -3.3 1.0
Change in bus. inventories ¹ Previous Tealbook ¹ Nonfarm ¹ Farm ¹	59 59 63 -4	28 28 29 -1	-36 -36 -38	-139 -139 -138 -1	51 51 58 -6	31 36 4	43 43 60 -11	44 42 88 88	73 63 67 6	66 49 65

1. Billions of chained (2005) dollars.

Greensheets

Contributions to Changes in Real Gross Domestic Product (Percentage points, annual rate except as noted)

	20151	3.6	8.8. 9.8. 9.9.	2.8 2.8 7. 1.6	n' n'	6 6 6 6 5 1 I I I	0. 0. 6. 6.		
	20141	3.3	33.2 3.3.2 8.7.8	2.5 7.5 8. 8. 4.1	6. <i>i</i> .	~ 6 4 ~ 1 - 1		4 4 4 6 T. O	1. 1. 2. 0.
	20131	2.1	1.8 2.2 2.5 2.9	2.1.8 2.1.8 3.0.6.8	ώ 4 [.]	4 4 4 4 0 0	0.00.	7 6 1	<i>ωω</i>
	20121	1.7	2.1 2.2 2.2 2.2	1.3 6. 1.3 7. 4.	ui ui	6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<i>ww.w</i> 0	4.4. ci ci o o i i	4. 4. c
	40	3.4	3.5 3.8 3.8 4.0	2.7 2.8 7. 1.5	n'i n'i	6 <i>C</i>	i. i. ⊗. r. ·	<i>ààààà</i>	1.20.
14	63	3.3	3.3 3.8 4.0	2.6 2.7 7. 5:1	6. 6.	6.1. 6.6. 1.1.	 0 8	4 4 4 E 0	0. 1. 0. 0.
201	Q2	3.3	3.1 3.2 3.7 3.7	2.6 2.6 8. 8. 7. 4.	6 v	٧ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠	 0. 6	\vec{c}	& L: & O
	01	3.2	2.9 3.5 3.5 3.5	2.6 2.6 7. 3.5 1.4	n' n'	ώ 4	£. 4. 6. 6.	û û û û û û .	ωω 4 <u>i</u>
	40	3.3	2.7 3.0 3.3 3.6	2.5 2.5 7. 3. 1.3	νi 4 ⁻	4 6 6 6 7 1 1	5.5. 4. L.	444550	<i>6 ti 9</i> 0
13	03	2.3	2.2 2.4 3.1 3.1	2.2 2.2 9. 7.	<u>.</u> . 4.	4 6 6 6 1 -	4 0 0 £.	6	4.1.40
2013	Q2	1.1	1.1 1.8 2.1 2.2	1.1. 1.2. 4.5.2.	ω'n.	レ			1. 0. 1. 0.
	01	1.8	1.2 1.5 2.2 2.6	2.2 6.2.8 8.5.6 8.5.8	ú ú	0.1. & & &		6. 6. 7. 6. 1. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	6. 5. 8.
	04	4.4.	1.9 1.9 3.0 3.0	1.3	4.4.	£. £. 8: 8: 8: 7: 7:	ww 4-r	-1.4 -1.2 -1.3 -1.3	-1.5 -1.5 -1.7
2012	03	3.1	2.4 2.4 1.3 1.3	1.1 7. 5. 5.	w w	55.500	4 4 6 H	8.8. 1. 9. 1. 0.	7. T.
	Q2	1.3	1.7 1.6 1.6	1.1 1.0 0.1.0	44	44460	4444	1 0.00.1.	~
	Item	Real GDP Previous Tealbook	Final sales Previous Tealbook Priv. dom. final purch. Previous Tealbook	Personal cons. expend. Previous Tealbook Durables Nondurables Services	Residential investment Previous Tealbook	Business fixed invest. Previous Tealbook Equipment & software Previous Tealbook Nonres. structures Previous Tealbook	Net exports Previous Tealbook Exports Imports	Gov't. cons. & invest. Previous Tealbook Federal Defense Nondefense State & local	Change in bus. inventories Previous Tealbook Nonfarm Farm

1. Change from fourth quarter of previous year to fourth quarter of year indicated.

Changes in Prices and Costs (Percent, annual rate except as noted)

2012	Item Q2 Q3 Q4 Q1		.7 1.6 1.6 7 1.6 1.6 7 1.6 1.6 1.6 1.3 6 10.5 9.9		1.7 1.1 1.0 1.7 1.1 1.0		Incompanies 1.0 2.1 2.2 1.4 Ex. food & energy 2.4 1.6 1.7 2.1 Previous Tealbook 2.4 1.6 1.7 2.1		1.7 3.1 -1.7 1.7 3.1 -1.7	6.6	Unit labor costs5 -1.9 11.8 -3.5 Previous Tealbook5 -1.9 11.8 -4.1	
2013	Q2	0. 2.	1	-14.1 .4 1.1	∞ ∞	6 4	0. 2. 1. 1.3 1.3	2, 2, 4, 4.	·	2.0	3.1	-2.0
	03 04	2.0 1.1 1.3 1.5	•				2.2 1.1 1.4 1.4 1.8 1.7 1.7 1.7				.1 1.2 .6 1.1	3 .6 2 .5
	Q1 Q2	-	·				1.3 1.3 1.6 1.5 1.8 1.8 1.9 1.8				1.0 .9 1.1 1.2	
2014	2 Q3	6 1.5					4:1.2 8:1.8 8:1.8		8 1.6 6 1.6			4 1.7 4 1.7
	94	1.5	1.3	1.0	1.6	4.1.4.	1.5 1.8 1.8	2.7	1.6	2.9 3.0	£:1 4:1	1.5
	20121 2	8:1.8	1.6 3.2 3.2	3.2 1.1 1.1	1.5	1.6	9:1 9:1 9:1	1.8	9.	4 4 4 4		-: -:
	20131 2	1.1	e e e e e e e e e e e e e e e e e e e	-5.0 1.0 1.2	1.3	1.2	1.2 1.0 1.8 1.7	2.3	ε: φ	∞ ⊬	4. 5.	4
	20141	1.5	1.3	v ∞ c	1.6	1.5	4:1 4:1 8:1 8:1	2.6	1.6	; 8.8 8.8	1.1	1.1 4.4.
	20151	1.6	1.5	v. 1. 4.	1.7	1.6	1.6 1.7 1.9 2.0	2.9	1.7	3.3 5.4	1.6	1.5

1. Change from fourth quarter of previous year to fourth quarter of year indicated.
2. Private-industry workers.
3. Core goods imports exclude computers, semiconductors, oil, and natural gas.

Greensheets

Change from fourth quarter of previous year to fourth quarter of year indicated, unless otherwise noted)

Item GDP chain-wt. price index Previous Tealbook PCE chain-wt. price index Previous Tealbook Energy Previous Tealbook	2006 2.9 2.9 1.9 1.9 -3.7	2007 2.6 2.6 3.5 3.5 19.3 19.3	2008 2.1 2.1 1.7 1.7 1.7 -8.8 -8.8	2009 S. S. 1.4 1.4 1.4 2.7 2.7	2010 1.8 1.8 1.5 1.5 6.5 6.5	2.0 2.0 2.5 2.5 11.9 11.9	2012 1.8 1.8 1.6 1.6 3.2 3.2	2013 1.1 1.0 .9 .9 .9 .4.0 -5.0	1.5 1.6 1.6 1.4 -2.4 9	2015 1.6 1.7 1.5 1.6 -1.6
Food Previous Tealbook Ex. food & energy Previous Tealbook Ex. food & energy, market based Previous Tealbook	1.7 2.3 2.2 2.2 2.2 2.2	44 44 44 74 44 44 44 44 44 44 44 44 44 4	7.0 7.0 7.0 7.0 7.0 7.2 7.2	-1.7 -1.7 -1.6 1.6 1.7	£	5.1 5.1 1.7 1.9 1.9	1.1 1.5 1.5 1.6 1.6	1.2 2.3 2.0	8. 9. 1. 6.	1.3 1.4 1.7 1.8 1.6
CPI Previous Tealbook Ex. food & energy Previous Tealbook	2.0 2.0 2.7 2.7 2.7	2.33 k	1.6 1.6 2.0 2.0 4	2. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	55 333 55 333 55 55 333	9:1 9:1 9:1 9:1 8:1	1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	4.7.1 5.1 6.2 8.1 6.2	1.6 1.7 1.9 2.0
Dec., nourly compensation: Previous Tealbook¹ Nonfarm business sector Output per hour Previous Tealbook Compensation per hour Previous Tealbook Unit labor costs Previous Tealbook		5.6. 4.4. 8.6. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1	1.1. 2.2. 2.3. 3.3. 2.2. 2.3. 2.3. 2.3.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	2.1 1.9 1.9 1.6 1.6 1.6 1.6	4.4. L.1. E.1. E.1.	6.11 6.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7		2.0 2.0 2.8 2.8 2.8 1.1 1.1	3.3 3.3 3.3 3.3 4.5 7.1
Core goods imports chain-wt. price index ² Previous Tealbook ²	2.5	2.9	3.7	-1.7	2.7	4.3	-: -:	4	1.4 4.1	1.5

1. Private-industry workers.
2. Core goods imports exclude computers, semiconductors, oil, and natural gas.

Other Macroeconomic Indicators

Q2 Q3 Q4 Q1 Q2 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q4 Q1 Q2 Q3 Q4 Q1 Q4 Q4 Q4 Q4 Q4 Q4 Q4<			2012			201;	8			201	4					
8.2 8.0 7.5 7.5 7.4 7.5 7.4 7.5 7.4 7.5 7.4 7.2 7.6 6.6 6.8 7.8 7.8 8.8 8.8 8.8 8.8 8.8 7.7 7.5 7.4 7.3 7.1 6.9 6.6 7.8 7.8 8.8 5.5 5.5 5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.7 5.8 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.4 5.4 5.4 5.4 5.7 5.4 5.7 5.8 5.8 5.3 5.2 5.9 5.2 5.9 <td></td> <td>Q2</td> <td>Q3</td> <td>Q4</td> <td>Q1</td> <td>Q2</td> <td>Q3</td> <td>Q4</td> <td>Q1</td> <td>Q2</td> <td>Q3</td> <td>9</td> <td>20121</td> <td>20131</td> <td>20141</td> <td>2015^{1}</td>		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q 3	9	20121	20131	20141	2015^{1}
82 80 7.8 7.7 7.5 7.4 7.3 7.1 6.9 6.8 7.8 5.8 5.7 5.6 5.6 5.5 5.4 7.1 7.0 6.8 6.8 7.8 5.8 5.7 5.7 5.6 5.5 5.5 5.4 5.7 5.7 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.4 4.4 4.4 4.7 4.4 4.7 5.4 4.4 4.4 5.2 4.4 4.4 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	tion ment ²	, vi	4.	κi	9:	9:	9:	κi	9.	9:	9:	9:	2.2	2.3	2.4	3.0
8.2 8.0 7.8 7.7 7.5 7.4 7.3 7.1 7.0 6.8 6.6 7.8 5.8 5.7 5.7 5.6 5.5 5.5 5.4 5.7 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.4 5.4 5.4 5.4 5.4 5.4 5.7 5.9 5.9 5.9 5.9 5.8 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9		8.2	8.0	7.8	7.7	7.5	7.5	7.4	7.2	7.1	6.9	8.9	7.8	7.4	8.9	0.9
5.8 5.7 5.7 5.6 5.6 5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.7 5.7 5.6 5.6 5.5 5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.7 5.6 3.8 -3.8 -3.8 -3.9 -2.9 -2.6 -2.9 -2.6 -2.9 -2.6 -3.9	شع	8.2	8.0	7.8	7.7	7.5	7.4	7.3	7.1	7.0	8.9	9.9	7.8	7.3	9.9	2.8
2.9 3.5 -3.9 -	/ment ³	ν. ν 8. α	5.7	5.7	5.6	5.6	κ, κ κ, κ	ν. ν ν. ν	4. v	4.5 4.4	κ, κ 4. 4	4.6	5.7	ν. ν ν. ν	ν. ν. 4. 4	κ. κ ω. α
2.9 3.5 -3.9 -3.8 -3.4 -3.2 -2.9 -2.6 -2.2 -3.9 2.9 3.3 2.5 4.4 -3.4 4.4 5.3 5.1 4.4 4.5 -2.9 -2.6 -3.9 2.9 3.2 2.4 4.4 4.4 5.3 5.1 4.4 4.5 4.4 4.5 4.4 4.5 4.2 4.2 2.8 1.0 -2.8 4.0 5.2 4.4 4.5 4.4 4.5 4.4 4.5 4.4 4.7 4.5 4.4 4.2 2.8 1.0 1.0 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.8 4.0 2.9 7.7 7.7 7.7 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7.8 7.7 7.7 7.7 7.8 7.7 7.7 7.8 7.7 7.7 7.8 7.7 7.8 7.7 7.8 7.7 <t< td=""><td></td><td>. w</td><td>-3.5</td><td>-3.9</td><td>3.9 -3.9</td><td>5.5 -4.2</td><td>4. 7.5</td><td>. % . %</td><td>-3.5</td><td>-3.2</td><td>-2.9</td><td>-2.6</td><td>-3.9</td><td></td><td>-2.6</td><td>-1.2</td></t<>		. w	-3.5	-3.9	3.9 -3.9	5.5 -4.2	4. 7.5	. % . %	-3.5	-3.2	-2.9	-2.6	-3.9		-2.6	-1.2
2.9 .3 2.5 4.2 .6 4.4 4.4 5.3 5.1 4.4 3.4 2.8 2.9 .3 2.6 4.4 .7 4.3 4.7 5.4 4.7 4.5 4.4 4.2 2.8 1.6 .5 2.4 .7 7.2 2.9 3.7 4.4 4.5 4.4 4.1 2.8 1.6 .5 2.8 .7 7.2 4.7 7.2 4.7 4.6 4.6 2.9 7.5 7.5 7.5 7.6 7.6 7.0 7.6 7.7 7.8 4.6 2.9 7.7 1.4 1.4 1.4 1.2 1.3 1.4 1.4 4.7 5.7 7.5 7.5 7.6 7.6 7.0 7.6 7.7 7.8 4.4 4.1 2.8 2.9 2.9 2.9 4.4 4.7 7.7 7.8 4.4 4.7 7.7 4.4 4.7 <td>47</td> <td>-3.8</td> <td>-3.5</td> <td>-3.9</td> <td>-3.8</td> <td>-3.9</td> <td>-3.8</td> <td>-3.4</td> <td>-3.2</td> <td>-2.9</td> <td>-2.6</td> <td>-2.2</td> <td>-3.9</td> <td>-3.4</td> <td>-2.2</td> <td>∞.</td>	47	-3.8	-3.5	-3.9	-3.8	-3.9	-3.8	-3.4	-3.2	-2.9	-2.6	-2.2	-3.9	-3.4	-2.2	∞.
1.6 5 2.4 5.1 6 2.8 3.7 4.4 4.5 4.4 4.1 2.8 75.9 7.5 7.5 7.7 7.7 7.8 4.6 2.9 75.9 7.5 7.5 7.7 7.7 7.8 7.5 7.5 75.9 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 2.9 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.8 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.8 7.5 14.1 14.5 1.6 1.0 1.1 1.3 1.4 4.9 5.0 4.9 7.6 7.5 2.2 7.7 8.9 -8.6 4.6 2.2 2.3 3.9 3.2 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	ks	2.9	<i>w</i> w .	2.5	4.4.5 2.4.5	9	4.4.6 4.6.6	4.4.6 4.7.1	5.3	5.1	4.4	4.2	2.2.8	4.8.6 4.0.6	4.4 7.4	4.4. 5.8.5
75.9 75.5 75.7 76.4 76.0 76.3 76.7 77.2 77.7 78.2 78.6 75.7 75.9 75.5 75.7 76.0 76.4 77.0 77.7 78.2 78.6 75.7 75.9 75.5 75.9 76.0 76.4 77.0 77.6 78.1 78.6 75.7 14.1 14.5 15.3 15.3 15.3 15.3 16.0 16.1 14.4 2.8 5.9 1.3 3.1 1.1 4.3 4.4 4.9 5.0 4.9 5.0 3.5 3.8 2.2 7 8.9 -8.6 4.6 2.2 2.3 3.9 3.2 3.3 3.8 3.6 3.8 <t< td=""><td>tr. prod.$^{\circ}$</td><td>1.6 1.6</td><td>તું તું</td><td>4:2 4:5</td><td>5.1</td><td>2 6</td><td>2.5 9.8</td><td>3.7 4.0</td><td>4.4 4.2.</td><td>4 4 V L</td><td>4.4 4.6</td><td>4.1 4.6</td><td>2, 2, 8, 9,</td><td>2, 2, 2, 8, 9</td><td>4. 4. 4. 8.</td><td>4.4 5.7</td></t<>	tr. prod. $^{\circ}$	1.6 1.6	તું તું	4:2 4:5	5.1	2 6	2.5 9.8	3.7 4.0	4.4 4.2.	4 4 V L	4.4 4.6	4.1 4.6	2, 2, 8, 9,	2, 2, 2, 8, 9	4. 4. 4. 8.	4.4 5.7
14.1 14.5 15.0 15.3 15.6 15.5 15.7 15.8 16.0 16.1 14.4 2.8 5.9 1.3 3.1 1.1 4.3 4.4 4.9 5.0 4.9 5.0 3.5 2.2 7 8.9 -8.6 4.6 2.2 2.3 3.9 3.2 3.3 3.5 3.8 3.8 3.6 5.3 2.5 3.2 3.1 2.8 2.9 2.8 2.7 2.6 5.3 3.8 3.6 5.3 2.4 3.0 2.8 2.6 2.7 2.5 2.5 2.5 2.4 5.0 4.7 9.9 9.6 -5.5 3.7 3.3 1.6 1.0 3.4 3.9 5.6 5.3 12.1 12.3 12.3 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6	$- \text{mfg.}^3$	75.9 75.9	75.5 75.5	75.7	76.4	76.0	76.3	76.7	77.2	77.7	78.2 78.1	78.6	75.7 75.7	76.7 76.4	78.6	80.5
2.8 5.9 1.3 3.1 1.1 4.3 4.4 4.9 5.0 4.9 5.0 3.5 3.8 3.8 3.8 3.8 3.8 3.6 5.3 2.2 7.7 8.9 -8.4 4.5 2.6 2.5 4.1 3.2 3.9 3.2 3.6 3.6 3.8 3.8 3.6 5.3 2.4 3.0 2.8 2.6 2.7 2.5 2.7 2.5 5.3 3.8 3.6 5.3 2.4 3.0 2.8 2.6 2.7 2.5 2.7 2.5 5.3 2.4 5.3 1.6 1.0 3.4 3.9 5.6 5.3 1.2.1 12.1 12.1 12.1 12.1 12.1 12.1 1	₉ Se	.7 14.1	8. 14.5	9.21	1.0	.9 15.3	1.0	1.1	1.2	1.3	1.3	1.4	.8 14.4	1.0	1.3	1.6
ne ⁵ 2.2 7 8.9 -8.6 4.6 2.2 2.3 3.9 3.2 3.3 3.5 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8		2.8	5.9	1.3	3.1	1:1	6.3	4.	6.4	5.0	6.4	5.0	3.5	3.2	6.4	5.3
3.8 3.6 5.3 2.5 3.2 3.1 2.8 2.9 2.8 2.7 2.6 5.3 3.8 3.6 5.3 2.4 3.0 2.8 2.6 2.7 2.5 2.7 2.6 5.3 4.7 9.9 9.6 -5.5 3.7 3.3 1.6 1.0 3.4 3.9 5.6 3.1 12.1 12.1 12.3 12.3 12.3 12.2 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12.5 12.7 12.5 12.7 12.7 12.7 12.7 12.7 12.7 12.5 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7	some ⁵	2.2	r: r:	6.8	-8.6 -8.4	4.6 5.5	2.2	2.3	3.9	3.2	3.3	3.5	3.8	0.0	3.5	3.5
4.7 9.9 9.6 -5.5 3.7 3.3 1.6 1.0 3.4 3.9 5.6 3.1 12.1 12.3 12.2 12.3 12.3 12.2 12.1 12.5 12.1 12.5 12.1 12.1 12.5 12.1 12.5 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.7 12.9		8. %. 8. %.	3.6	5.3	2.5	3.2	3.1	2.8	2.9	2.5	2.5	2.6	5.3	2.8	2.6	2.2
-1,115 -1,087 -1,036 -781 -553 -616 -664 -602 -579 -568 -555 -1,074 -124 -140 -125 -110 -87 -91 -80 -78 -54 -49 -43 -129 -129 -123 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 -13 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 15.0 15.1 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6 15.0 15.1 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 13.8 14.7 14.9 15.0 15.1 15.1		4.7	9.9	9.6	-5.5 12.2	3.7	3.3	1.6	1.0	3.4	3.9	5.6	3.1	.7 12.2	3.5	2.8
12.3 12.3 13.6 13.8 14.5 14.6 14.8 14.7 14.9 15.0 15.1 13.6	850	-1,115 -124		-1,036	-781 -110	-553 -87	-616 -91	-664	-602 -78	-579 -54	-568 -49	-555 -43	-1,074	-654 -92	-576 -56	-505 4
2.1 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.1	Gross national saving rate ³ Net national saving rate ³	12.3	12.3	13.6	13.8	14.5	14.6	14.8	14.7 2.4	14.9	15.0	15.1	13.6	14.8 2.5	15.1	15.4

Change from fourth quarter of previous year to fourth quarter of year indicated, unless otherwise indicated.
 Change, millions.
 Percent; annual values are for the fourth quarter of the year indicated.
 Percent difference between actual and potential GDP; a negative number indicates that the economy is operating below potential.
 Annual values are for the fourth quarter of the year indicated.

Percent change, annual rate.
 Level, millions; annual values are annual averages.
 Percent change, annual rate, with inventory valuation and capital consumption adjustments.
 Billions of dollars; annual values are annual averages.

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(Change from fourth quarter of previous year to fourth quarter of year indicated, unless otherwise noted) Other Macroeconomic Indicators

Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Employment and production Nonfarm payroll employment ¹ Unemployment rate ² Previous Tealbook ² Natural rate of unemployment ² Previous Tealbook ² GDP gap ³ Previous Tealbook ³	2.1 2.4 4.5 5.0 5.0 8.8	2 4 4 4 8 8 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-2.8 6.9 6.9 5.3 5.3 4.3 4.3 4.3	5.6 6.0 6.0 6.0 5.2 5.2	8. 9.5 9.5 6.0 6.0 4.0	2.0 8.3.7 8.3.8 8.3.6 9.3.6	2.2 7.88 7.88 7.78 5.77 5.99	2. 7. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	4.2 6.8 6.6 6.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	3.0 6.0 5.8 5.3 5.3 -1.2
Industrial production ⁴ **Previous Tealbook ⁴ **Manufacturing industr. prod. ⁴ **Previous Tealbook ⁴ Capacity utilization rate - mfg. ² **Previous Tealbook ²	2.1 2.1 1.7 1.7 78.1 78.1	7.22 7.29 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.80	-8.9 -8.9 -11.6 -11.6 69.9 69.9	-5.5 -5.5 -6.1 -6.1 67.2	6.2 6.4 6.4 72.9 72.9	8.8.8 8.8.8 8.4.7 8.8.8	2.8 2.8 2.9 7.5.7 7.5.7	3.4 2.9 2.8 76.7 76.4	4.4 4.4 4.8 7.8 6.8 7.8 7.8 7.8	4.2 4.3 4.7 80.5 80.6
Housing starts ⁵ Light motor vehicle sales ⁵	1.8	1.4	.9 13.1	.6 10.4	.6 11.5	.6	 14.4	1.0	1.3	1.6
Income and saving Nominal GDP4 Real disposable pers. income4 Previous Tealbook4 Personal saving rate2 Previous Tealbook2	6. 4. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	4.9 1.6 1.6 2.5 2.5	-1.2 1.0 1.0 6.2 6.2	4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	4 6 6 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 0. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	3.8.8.2.3.8.3.3.8.3.3.8.3.3.8.3.3.3.3.3.	3.2 .0 .2.2.8 2.6	4.9.3.5.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	5.3 3.5 2.2 5.0 5.0
Corporate profits ⁶ Profit share of GNP ² Net federal saving ⁷ Net state & local saving ⁷	3.7 11.6 -204 51	-8.1 10.1 -245	-33.5 6.8 -613 -72	57.0 10.7 -1,229 -113	17.3 12.0 -1,308 -90	9.2 12.5 -1,237 -102	3.1 12.5 -1,074 -129	.7 12.2 -654 -92	3.5 12.1 -576 -56	2.8 11.8 -505 4
Gross national saving rate ² Net national saving rate ²	16.5	13.9	12.6	11.0	12.1	12.4	13.6	14.8	15.1	15.4

1. Change, millions.

^{2.} Percent; values are for the fourth quarter of the year indicated.

3. Percent difference between actual and potential GDP; a negative number indicates that the economy is operating below potential. Values are for the fourth quarter of the year indicated.

Percent change.
 Level, millions; values are annual averages.
 Dercent change, with inventory valuation and capital consumption adjustments.
 Billions of dollars; values are annual averages.

Staff Projections of Federal Sector Accounts and Related Items (Billions of dollars except as noted)

2014	Q1 Q2 Q3 Q4		637 960 773 747	884 862	68- 9/	76 -90 25	23 -58	5231		0 0	-30 -30 -30 -30	70 70 70 70		3.234 3.273	3,798 3,813 3,842 3,874	68 957	630 623	338 334	2,845 2,884	-579 -568	130 127	-585 -557 -542 -525		-380.8 -368.2 -370.7 -370.2	21 .0 .0	5 7 8 9 5 7 9 6
	3 Q4	insted ——	8 682	902	5 -219	1 -221	-247	7 27			2 -281	90	nual rates —	5 3.075	3,739							9		1 -412.9	5. 3.	2
2013	Q2 Q3	seasonally ad	11 891 718	800 837	911 - 116	90 -121	36 -85	55 -27			-18 95	135 85	Seasonally adjusted annual rates	3.136	3,758 3,752							-546 -608		-304.1 -360.1	-1.5	-1.4 -1.2 -1.2 -1.3
	Q1a	Not	581	888	-30/	-307	-303	4	,,,	550 14	-43	79	- Seasonall	2.947	3,729 3							-781		-550.3 -3	-1.8	-2.0
	Q4 ^a		616	606	-293	-293	-311	17	2	514	-13	93		2.736	3,772	1,042	685	360	2,730	-1,036	155	-1,048		-837.0	¿	-1.5 -1.5
2012	Q3 ^a		625	810	C81-	-185	-160	-25	000	067	-51	85		2.673	3,761	1,086	728	358	2,674	-1,087	155	-1,100		-907.7	2	ωi ωi
	Q2a		160				•		·	,	-25	91			3,775							-1,130		-925.3	ε:	9
	Q1a		509	996	754-	-457	-458			090	17	43		2.665	3,724	1,056	703	352	2,668	-1,059	152	-1,071		8.698-	<u>~.</u>	7 7
	2015		3,282	3,685	-403	-387	-425	22	ç	025	-120	70		3.415	3,939	939	809	330	3,000	-524	121	-489		-360.5	2	4. 4.
Fiscal year	2014		3,052	3,559	-507	-503	-542	34	0	904	-371	70		3.195	3,798	973	634	339	2,825	-603	131	-584		-383.2	6	7
Fisc	2013		2,805	3,431	979-	-632	999-	40	Ś	4 -	21	85		3.006	3,753	1,020	664	357	2,732	-747	145	-746		-512.9	-2.6	-1.4 -1.4
	2012 ^a		2,449	3,538	-1,089	-1,089	-1,151	62		1,132	-36	85		2.633	3,744	1,062	709	353	2,682	-1,111	156	-1,126		-922.1	-1.1	
	Item	Unified budget	Receipts ¹	Outlays ¹	Surplus/deficit	Previous Tealbook	On-budget	Off-budget	Means of financing:	Dollowing Cash decrease	Other ²	Cash operating balance, end of period	NIPA federal sector	Receints	Expenditures	Consumption expenditures	Defense	Nondefense	Other spending	Current account surplus	Gross investment	Gross saving less gross investment ³	Fiscal indicators ⁴ High-employment (HEB)	surplus/deficit	Change in Fig. 9. percent of potential GDP	riscal impetus (FI), percent of GDP Previous Tealbook

^{1.} Budget receipts, outlays, and surplus/deficit include corresponding social security (OASDI) categories. The OASDI surplus and the Postal Service surplus are excluded from the on-budget surplus and shown separately as off-budget, as classified under current law

Greensheets

^{2.} Other means of financing are checks issued less checks paid, accrued items, and changes in other financial assets and liabilities.

3. Gross saving is the current account surplus plus consumption of fixed capital of the general government as well as government enterprises.

4. HEB is gross saving less gross investment (NIPA) of the federal government in current dollars, with cyclically sensitive receipts and outlays adjusted to the staff's measure of potential output and the natural rate of unemployment. The sign on Change in HEB, as a percent of nominal potential GDP, is reversed. FI is the weighted difference of discretionary changes in federal spending and taxes in chained (2005) dollars, scaled by real GDP. The FI estimates are calendar year contributions to Q4/Q4 real GDP growth. Also, for FI and the change in HEB and FI are not at annual rates.

a Actual.

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Foreign Real GDP and Consumer Prices: Selected Countries (Quarterly percent changes at an annual rate)

		20	2012			2013	13		Projected	J2014	14	
Measure and country	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Real GDP ¹												
Total foreign	3.2	1.9	1.7	2.2	2.0	2.2	2.8	3.1	3.2	3.0	3.2	3.3
Previous Tealbook	3.2	I.8	1.7	2.3	2.0	2.3	2.7	3.2	3.3	3.1	3.4	3.5
Advanced foreign economies	1.0	4.	7:	-:1	1.4	1.4	1.8	1.8	2.0	1.5	2.0	2.1
Canada	∞.	1.6	∞.	6.	2.5	1.7	2.5	2.2	2.3	2.5	5.6	5.6
Japan	4.8	9:-	-3.6	1.2	4.1	3.8	3.0	3.1	3.8	-2.5	1.1	1.2
United Kingdom	0.	-2.0	3.0	6:-	1.1	2.4	1.9	2.0	2.0	2.1	2.3	2.5
Euro area	2	<i>L</i>	4	-2.4	-1.1	-:1	2	9:	∞.	1.0	1.3	1.5
Germany	2.5	7.	6:	-2.7	ĸ:	1.3	1.3	1.4	1.6	1.7	1.9	2.0
Emerging market economies	5.4	3.4	3.2	4.6	2.5	3.1	3.8	4.4	4.5	4.5	4.5	4.6
Asia	0.9	4.2	4.7	0.9	3.3	4.3	4.7	5.3	5.4	5.5	5.5	5.5
Korea	3.3	1.2	7:	1.1	3.4	2.7	3.3	3.7	3.8	3.9	4.0	4.1
China	7.1	7.7	8.1	8.1	7.0	6.9	7.3	7.7	7.9	7.9	7.8	7.8
Latin America	5.0	2.7	1.5	3.3	1.7	1.9	2.8	3.5	3.6	3.6	3.6	3.6
Mexico	5.8	3.0	1.4	2.7	1.8	1.7	2.8	3.7	3.8	3.8	3.7	3.7
Brazil	κi	1.3	1.2	2.6	2.2	2.5	3.1	3.2	3.3	3.3	3.5	3.5
Consumer prices ²												
	i c	((,	(•	((,	(((
Total toreign	2.5	2.0	7.7	4.6	5.3	1.9	2.3	5.3	4.6	3.0	2.5 5.5	5.5 C.5
Frevious Lealbook	0.7	7.7	7:7	2.3	2.3	1.9	7.7	Z. 7	4.7	S.0 0.0	C.2	Z.2
Advanced foreign economies	1.9	J. (∞. •	1.6	, نح	. ن	T.5	 	T. 7	7.7	4. f	<u></u>
Canada	7.0	.j t	٠. <u>'</u>	-i -	I.0	٠. ز	J.,	I./	۲. ر	J.,	v S	8.T ©
Japan	1.2	/:-	c.I-	0.	4.	0.	4.	4.	J.	8./	\.	۶. ا
United Kingdom	1.8	1.7	3.0	4.1	2.3	1.4	2.1	2.7	1.7	1.6	1.7	2.7
Euro area	2.5	2.4	2.0	2.3		9.	4. I	1.3	$\frac{1.3}{1.3}$	$\frac{1.3}{1.3}$	J.4	1.4
Germany	2.2	1.6	2.0	2.1	1.4	9.	1.7	1.7	1.7	1.7	1.8	1.8
Emerging market economies	3.0	2.9	3.4	3.0	3.4	3.0	3.0	3.1	3.2	3.3	3.3	3.3
Asia	2.2	3.0	2.4	2.7	3.3	1.9	2.8	3.0	3.1	3.1	3.2	3.2
Korea	1.8	1.4	1.1	2.5	9.	ι	1.8	2.8	3.0	3.0	3.0	3.1
China	1.7	2.2	1.8	5.6	3.2	2.1	2.4	2.8	2.9	3.0	3.0	3.0
Latin America	5.1	2.7	2.7	3.7	3.8	5.5	3.5	3.4	3.6	3.7	3.7	3.7
Mexico F :	5.2	4.5	5.7	3.1	3.5	χ.	3.0	3.1	 	6. c	6. c	4. ć
Brazil	4.1	4.8	0.0	0.7	0.7	2.8	6.6	5.5	5.4	5.5	5.5	5.5

Foreign GDP aggregates calculated using shares of U.S. exports.

 $^{^2{\}rm Foreign}$ CPI aggregates calculated using shares of U.S. non-oil imports.

Greensheets

Foreign Real GDP and Consumer Prices: Selected Countries (Percent change, Q4 to Q4)

								Projected	
Measure and country	2007	2008	2009	2010	2011	2012	2013	2014	2015
Real GDP ¹									
Total foreign	4.3	T	∞.	4.6	3.0	2.2	2.5	3.2	3.4
Previous Tealbook	4.3	7	<i>o</i> :	4.6	3.0	2.2	2.5	3.3	3.5
Advanced foreign economies	2.4	-1.5	-1.5	3.0	1.5	4.	1.6	1.9	2.2
Canada	2.3	1.	-1.4	3.6	2.4	1.0	2.2	2.5	2.6
Japan	1.6	-4.8	5	3.5	0.	4.	3.5	6:	1.0
United Kingdom	3.7	-4.3	-2.5	1.8	1.1	0:	1.8	2.2	2.6
Euro area	2.3	-2.1	-2.3	2.2	7.	6	1	1.1	1.9
Germany	2.4	-1.9	-2.2	4.2	1.9	E.	1.1	1.8	2.4
Emerging market economies	6.7	4.	3.5	6.2	4.5	4.1	3.4	4.5	4.6
Asia	8.9	% .	8.0	7.8	4.9	5.2	4.4	5.5	5.6
Korea	5.8	-3.2	6.3	5.0	3.4	1.4	3.3	3.9	4.4
China	13.7	7.6	11.3	6.7	8.7	7.8	7.2	7.8	7.7
Latin America	4.4	3	8	4.5	3.9	3.1	2.5	3.6	3.7
Mexico	3.5	-1.1	-2.2	4.1	3.9	3.2	2.5	3.7	3.7
Brazil	9.9	6:	5.3	5.3	1.4	1.4	2.8	3.4	3.8
Consumer prices ²									
Total foreign	3.7	3.3	1.2	3.2	3.4	2.3	2.2	2.6	2.7
Previous Tealbook	3.7	3.3	1.2	3.2	3.4	2.3	2.1	2.6	2.7
Advanced foreign economies	2.2	2.0	5.	1.7	2.2	1.3	1.0	1.7	1.8
Canada	2.5	1.8	∞:	2.2	2.7	6.	1.3	1.7	1.8
Japan	λ:	1.1	-2.0	-:2	3	2	ĸ:	2.6	2.5
United Kingdom	2.1	3.9	2.2	3.4	4.6	2.6	2.1	1.9	2.0
Euro area	2.9	2.3	4.	2.0	2.9	2.3	1.0	1.4	1.6
Germany	3.1	1.7	ιċ	1.6	2.6	2.0	1.4	1.7	1.8
Emerging market economies	5.1	4.6	2.1	4.3	4.3	3.1	3.1	3.3	3.3
Asia	5.5	3.7	1.3	4.3	4.5	2.6	2.8	3.1	3.2
Korea	3.4	4.5	2.4	3.2	3.9	1.7	1.4	3.0	3.2
China	6.7	2.5	9:	4.7	4.6	2.1	2.6	3.0	3.0
Latin America	4.2	9.9	3.9	4. 4.	4.0	4.3	4.1	3.7	3.7
Mexico	3.8	6.2	4.0	4.3	3.5	4.1	3.8	4.8	3.4
Brazil	4.3	7.0	4.2	5.6	0.7	9.0	6.1	5.3	5.5

 $^{\rm I}$ Foreign GDP aggregates calculated using shares of U.S. exports. $^{\rm 2}$ Foreign CPI aggregates calculated using shares of U.S. non-oil imports.

U.S. Current Account
Quarterly Data

		2	2012			2	2013		Projected		2014	
	Q1	Q2	03	04	Q1	Q2	Q3	04	Q1	Q2	03	40
					Bill	ions of de	Billions of dollars, s.a.a.r.	a.r.				
U.S. current account balance Previous Tealbook	-483.4 <i>-512.5</i>	-442.0 -464.0	-427.0 <i>-466.5</i>	-409.3 <i>-437.5</i>	-424.6 -445.1	-429.7 <i>-421.5</i>	-435.6 -453.5	-471.7 <i>-495.0</i>	-520.2 -527.4	-499.7 <i>-517.5</i>	-531.5 -547.2	-547.9 -565.3
Current account as percent of GDP Previous Tealbook	-3.1 -3.3	-2.8 -3.0	-2.7	-2.6 -2.8	-2.7	-2.7	-2.7	-2.9	-3.1	-3.0 -3.1	-3.1	-3.2 -3.3
Net goods & services	-571.8	-541.2	-516.1	-509.5	-494.6	-502.6	-493.7	-521.9	-534.7	-513.2	-524.9	-532.5
Investment income, net Direct, net	227.5	238.6	227.0 283.4	235.9	215.7 281.9	215.2 274.1	204.4	188.0	169.1 257.9	151.0 249.1	134.7 242.9	122.4 240.5
Portfolio, net	-63.0	-58.6	-56.4	6.99-	-66.2	-58.9	-63.6	-78.7	-88.8	-98.1	-108.2	-118.2
Other income and transfers, net	-139.1	-139.5	-137.9	-135.7	-145.7	-142.3	-146.3	-137.8	-154.6	-137.6	-141.2	-137.8
				A	Annual Data	ıta						
										Pro	-Projected	
	2007		2008	2009	2010		2011	2012	2013		2014	2015
						Billions	Billions of dollars	7.0				
U.S. current account balance Previous Tealbook	-713.4 -712.6		-681.3 -681.1	-381.6 -386.4	-446.6		-457.7 -462.9	-440.4 <i>-470.1</i>	-440.4 <i>-453.8</i>		524.8 539.3	-573.4 -581.8
Current account as percent of GDP Previous Tealbook	-5.1 -5.1	, ,	4.8 8.4 8.8	-2.7	-3.1 -3.1		-3.0 -3.1	-2.8	-2.7		-3.1	-3.2 -3.3
Net goods & services	-699.1	-70	-702.3	-383.7	-499.4	·	-556.8	-534.7	-503.2	ζ,	-526.3	-533.6
Investment income, net	1111.1		157.8	132.3	185.7		10.7	232.3	205.8		44.3	102.9
Direct, net	244.6		284.3	257.7	288.0		310.6	293.5	272.7		247.6	250.9
Portfolio, net	-133.5	•	-126.5	-125.4	-102.3		8.69	-61.2	-66.9	•	03.3	-148.0
Other income and transfers, net	-125.4	'	136.9	-130.2	-135.8		-141.6	-138.0	-143.0	•	-142.8	-142.8

Class I FOMC – Restricted Controlled (FR)

Report to the FOMC on Economic Conditions and Monetary Policy



Book B

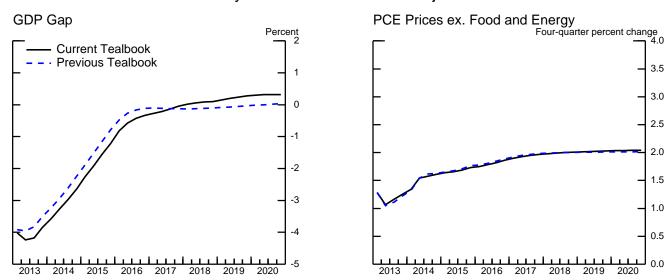
Monetary Policy: Strategies and Alternatives

July 25, 2013

Policy Rules and the Staff Projection

Near-Term Prescriptions of Selected Policy Rules **Constrained Policy Unconstrained Policy** 2013Q3 2013Q4 2013Q3 2013Q4 Taylor (1993) rule 0.68 1.00 0.68 1.00 Previous Tealbook 0.77 1.12 0.77 1.12 Taylor (1999) rule 0.13 0.13 -1.36-0.89Previous Tealbook 0.13 0.13 -1.10-0.60Inertial Taylor (1999) rule 0.13 0.13 -0.10-0.22Previous Tealbook 0.13 0.13 -0.06-0.14Outcome-based rule 0.13 0.13 -0.12-0.19Previous Tealbook 0.13 0.13 -0.05-0.05First-difference rule 0.36 0.73 0.36 0.73 Previous Tealbook 0.39 0.79 0.39 0.79 -0.78Nominal income targeting rule 0.13 0.13 -1.42 Previous Tealbook 0.13 0.13 -0.75-1.32Memo: Equilibrium and Actual Real Federal Funds Rate Current Current Quarter Estimate Previous Tealbook as of Previous Tealbook Tealbook Tealbook-consistent FRB/US r* estimate -1.57-1.29-1.47Actual real federal funds rate -0.93-1.15

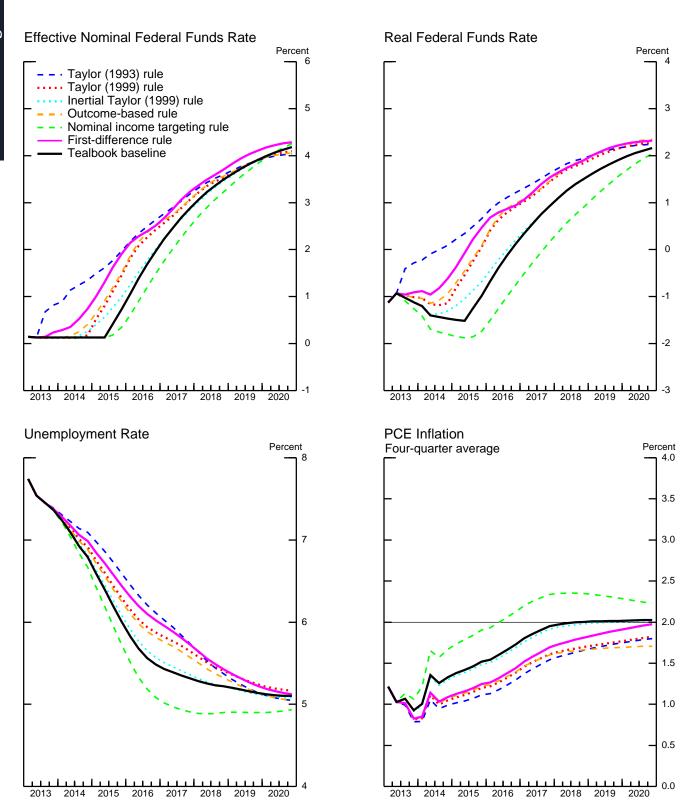
Key Elements of the Staff Projection



Estimates of r^* may change at the beginning of a quarter even when the staff outlook is unchanged because the twelve-quarter horizon covered by the calculation has rolled forward one quarter. Therefore, whenever the Tealbook is published early in the quarter, the memo includes a third column labeled "Current Quarter Estimate as of Previous Tealbook."

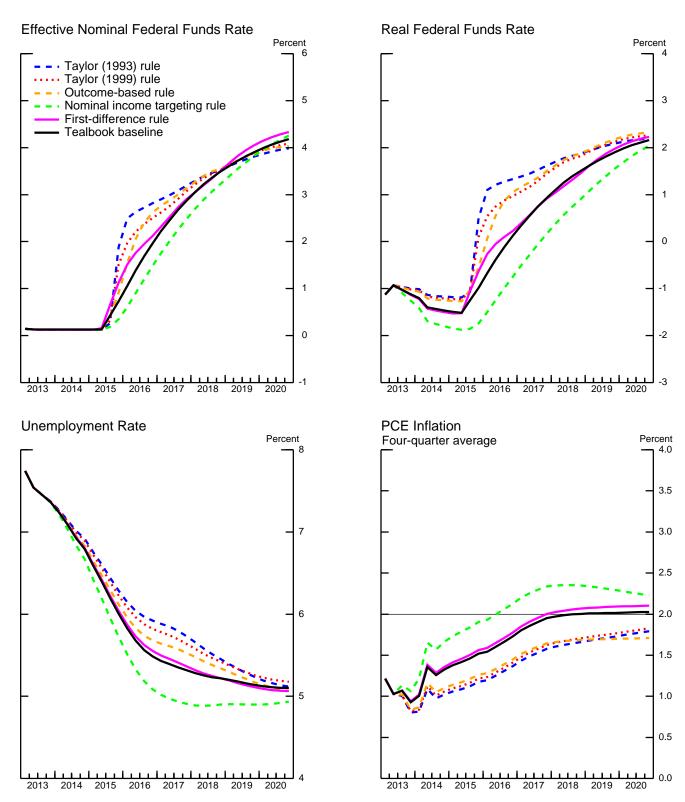
The way policy simulations are generated in FRB/US has changed since June. The "Current Quarter as of Previous Tealbook" and the "Previous Tealbook" estimates of r^* in the exhibit have been computed under the new model assumptions, using the June baseline forecast. See footnotes 3 and 8 in the Monetary Policy Strategies text for further details.

Policy Rule Simulations without Thresholds



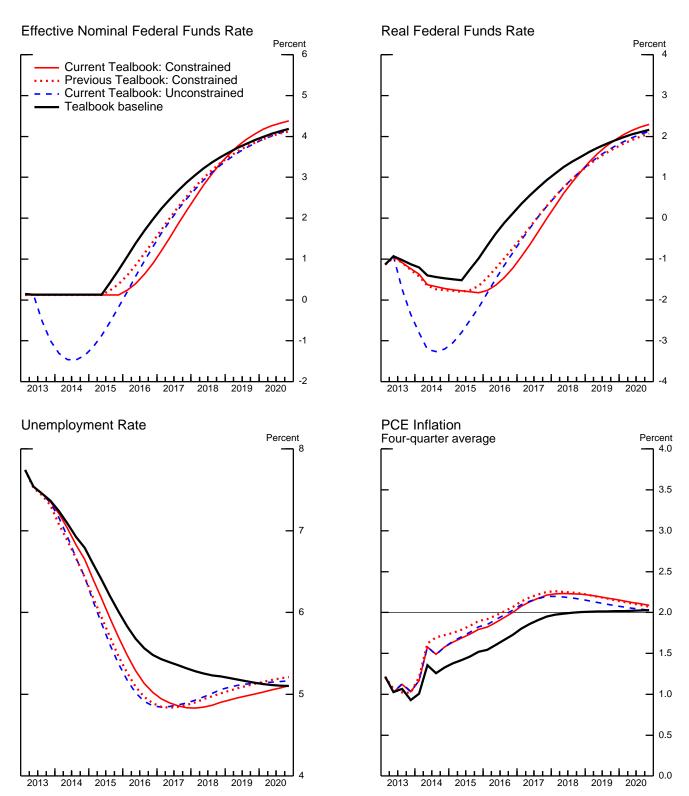
Note: The policy rule simulations in this exhibit are based on rules that respond to core inflation. This choice of rule specification was made in light of the tendency for current and near-term core inflation rates to outperform headline inflation rates as predictors of the medium-term behavior of headline inflation.

Policy Rule Simulations with Thresholds



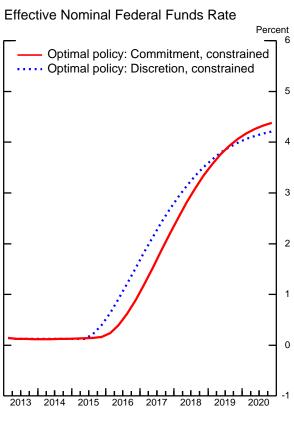
Note: The policy rule simulations in this exhibit are based on rules that respond to core inflation. This choice of rule specification was made in light of the tendency for current and near-term core inflation rates to outperform headline inflation rates as predictors of the medium-term behavior of headline inflation.

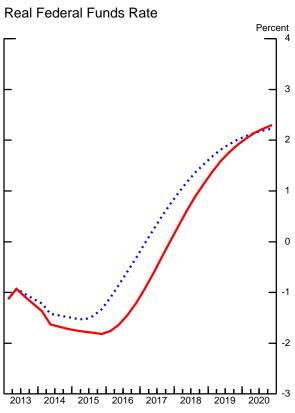
Constrained vs. Unconstrained Optimal Control Policy

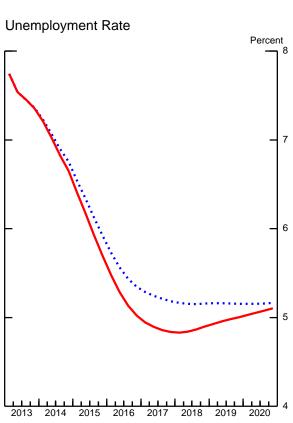


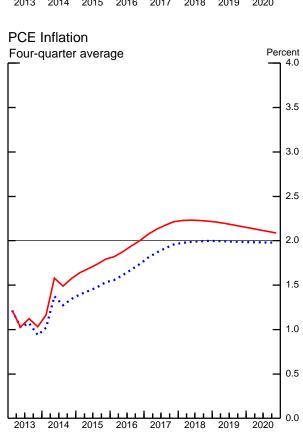
Note: The way policy simulations are generated in FRB/US has changed since June. The paths labeled "Previous Tealbook" in the exhibit have been computed under the new model assumptions, using the June baseline forecast. See footnotes 3 and 8 in the Monetary Policy Strategies text for further details.

Optimal Control Policy: Commitment vs. Discretion









Outcomes under Alternative Policies without Thresholds

(Percent change, annual rate, from end of preceding period except as noted)

Measure and scenario	20	13	2014	2015	2016	2017
1110400420 44140 500144115	H1	H2		2010	2010	
Real GDP						
Extended Tealbook baseline ¹	1.4	2.8	3.3	3.6	3.0	2.4
Taylor (1993)	1.4	2.5	2.6	3.1	3.0	2.8
Taylor (1999)	1.4	2.7	3.0	3.2	2.8	2.5
Inertial Taylor (1999)	1.4	2.8	3.3	3.5	3.0	2.5
Outcome based	1.4	2.7	3.1	3.3	2.9	2.6
First difference	1.4	2.6	2.9	3.1	2.9	2.6
Nominal income targeting	1.4	2.9	3.6	3.9	3.2	2.4
Constrained optimal control	1.4	2.9	3.7	3.9	3.3	2.4
Unemployment rate ²						
Extended Tealbook baseline ¹	7.5	7.4	6.8	6.0	5.5	5.3
Taylor (1993)	7.5	7.4	7.1	6.6	6.1	5.7
Taylor (1999)	7.5	7.4	6.9	6.3	5.9	5.6
Inertial Taylor (1999)	7.5	7.4	6.8	6.1	5.6	5.4
Outcome based	7.5	7.4	6.9	6.3	5.8	5.6
First difference	7.5	7.4	7.0	6.4	6.0	5.7
Nominal income targeting	7.5	7.4	6.7	5.7	5.1	4.9
Constrained optimal control	7.5	7.4	6.7	5.7	5.0	4.8
Total PCE prices						
Extended Tealbook baseline ¹	0.5	1.4	1.3	1.5	1.7	2.0
Taylor (1993)	0.5	1.1	1.0	1.1	1.3	1.5
Taylor (1999)	0.5	1.2	1.0	1.2	1.4	1.6
Inertial Taylor (1999)	0.5	1.4	1.3	1.5	1.7	1.9
Outcome based	0.5	1.2	1.1	1.2	1.4	1.6
First difference	0.5	1.2	1.1	1.2	1.4	1.7
Nominal income targeting	0.5	1.7	1.7	1.9	2.1	2.3
Constrained optimal control	0.5	1.6	1.6	1.8	2.0	2.2
Core PCE prices						
Extended Tealbook baseline ¹	1.1	1.5	1.6	1.7	1.9	2.0
Taylor (1993)	1.1	1.2	1.3	1.3	1.4	1.6
Taylor (1999)	1.1	1.2	1.3	1.4	1.5	1.6
Inertial Taylor (1999)	1.1	1.4	1.6	1.7	1.8	1.9
Outcome based	1.1	1.2	1.4	1.4	1.5	1.6
First difference	1.1	1.2	1.4	1.5	1.6	1.7
Nominal income targeting	1.1	1.7	1.9	2.1	2.3	2.3
Constrained optimal control	1.1	1.7	1.9	2.0	2.1	2.2
Effective federal funds rate ²						
Extended Tealbook baseline ¹	0.1	0.1	0.1	0.7	2.0	2.9
Taylor (1993)	0.1	0.8	1.4	2.0	2.6	3.2
Taylor (1999)	0.1	0.1	0.2	1.5	2.4	3.1
Inertial Taylor (1999)	0.1	0.1	0.3	1.0	2.0	2.8
Outcome based	0.1	0.1	0.4	1.5	2.5	3.1
First difference	0.1	0.2	0.7	1.9	2.5	3.2
Nominal income targeting	0.1	0.1	0.1	0.3	1.5	2.5
Constrained optimal control	0.1	0.1	0.1	0.2	0.9	2.1

^{1.} Policy in the Tealbook baseline keeps the federal funds rate at its effective lower bound of 12.5 basis points as long as the unemployment rate is above 6.5 percent and projected one-year-ahead inflation is less than 2.5 percent. Once either threshold is crossed, the federal funds rate follows the prescription of the inertial Taylor (1999) rule.

^{2.} Percent, average for the final quarter of the period.

Outcomes under Alternative Policies with Thresholds¹

(Percent change, annual rate, from end of preceding period except as noted)

Measure and scenario	20)13	2014	2015	2016	2017
	H1	H2				
Real GDP						
Extended Tealbook baseline ¹	1.4	2.8	3.3	3.6	3.0	2.4
Taylor (1993)	1.4	2.7	3.0	3.3	2.7	2.5
Taylor (1999)	1.4	2.7	3.1	3.4	2.7	2.5
Outcome based	1.4	2.8	3.2	3.4	2.8	2.4
First difference	1.4	2.8	3.3	3.5	2.9	2.5
Nominal income targeting	1.4	2.9	3.6	3.9	3.2	2.4
Constrained optimal control	1.4	2.9	3.7	3.9	3.3	2.4
Unemployment rate ²						
Extended Tealbook baseline ¹	7.5	7.4	6.8	6.0	5.5	5.3
Taylor (1993)	7.5	7.4	6.9	6.3	5.9	5.7
Taylor (1999)	7.5	7.4	6.9	6.2	5.8	5.6
Outcome based	7.5	7.4	6.8	6.1	5.7	5.5
First difference	7.5	7.4	6.8	6.0	5.6	5.4
Nominal income targeting	7.5	7.4	6.7	5.7		4.9
Constrained optimal control	7.5	7.4	6.7	5.7	5.0	4.8
•						
Total PCE prices Extended Tealbook baseline ¹	0.5	1.4	1.2	1.5	1.7	2.0
Taylor (1993)	0.5 0.5	1.4 1.1	1.3 1.0	1.5 1.2	1.7 1.4	2.0 1.6
Taylor (1999)	0.5	1.1	1.0	1.2	1.4	1.6
Outcome based	0.5	1.2	1.1	1.3	1.4	1.6
First difference	0.5	1.4	1.1	1.6	1.8	2.0
Nominal income targeting	0.5	1.7	1.7	1.9	2.1	2.3
Constrained optimal control	0.5	1.6	1.6	1.8	2.0	2.2
•	0.5	1.0	1.0	1.0	2.0	2.2
Core PCE prices					1.0	2.0
Extended Tealbook baseline ¹	1.1	1.5	1.6	1.7	1.9	2.0
Taylor (1993)	1.1	1.2	1.3	1.4	1.5	1.6
Taylor (1999)	1.1	1.2	1.3	1.4	1.5	1.6
Outcome based	1.1	1.3	1.4	1.5	1.6	1.7
First difference	1.1	1.5	1.6	1.8	1.9	2.0
Nominal income targeting	1.1	1.7	1.9	2.1	2.3	2.3
Constrained optimal control	1.1	1.7	1.9	2.0	2.1	2.2
Effective federal funds rate ²						
Extended Tealbook baseline ¹	0.1	0.1	0.1			2.9
Taylor (1993)	0.1	0.1	0.1	1.9	2.8	3.2
Taylor (1999)	0.1	0.1	0.1	1.5	2.5	3.1
Outcome based	0.1	0.1	0.1	0.9	2.6	3.1
First difference	0.1	0.1	0.1	1.1	2.1	2.9
Nominal income targeting	0.1	0.1	0.1	0.3	1.5	2.5
Constrained optimal control	0.1	0.1	0.1	0.2	0.9	2.1

^{1.} With the exception of constrained optimal control, monetary policy is specified to keep the federal funds rate at its effective lower bound of 12.5 basis points as long as the unemployment rate is above 6.5 percent and projected one-year-ahead inflation is less than 2.5 percent. Once either of these thresholds is crossed, the federal funds rate follows the prescriptions of the specified rule. Policy in the Tealbook baseline also uses these threshold conditions and switches to the inertial Taylor (1999) rule once either of these thresholds is crossed.

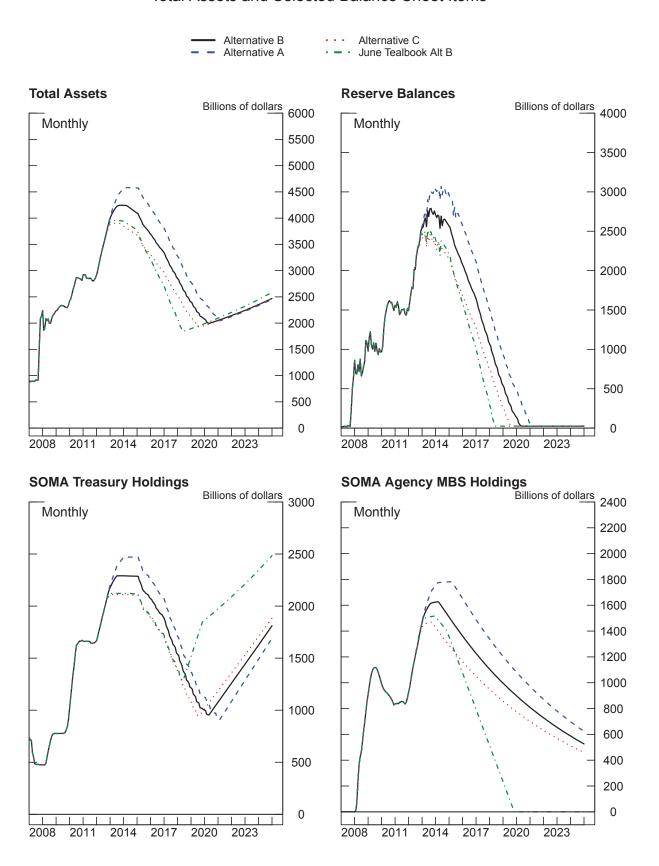
^{2.} Percent, average for the final quarter of the period.

		gregate Projections
(Percent cha	nge, annual	rate; seasonally adjusted) ¹
Monthly		
2013:	July	8.2
	Aug.	4.3
	Sept.	4.3
	Oct.	2.0
	Nov.	2.0
	Dec.	2.0
2014:	Jan.	2.7
	Feb.	2.6
	Mar.	2.7
	Apr.	2.5
	May	2.5
	June	2.5
Quarterly		
2013:	Q3	5.7
	Q4	2.8
2014:	Q1	2.4
	Q2	2.6
	Q3	2.5
	Q4	2.6
2015:	Q1	3.0
	Q2	-1.1
	Q3	-2.3
	Q4	-2.3
2016:	Q1	-2.3
	Q2	-1.4
	Q3	-1.4
	Q4	-0.7
Annual		
	2013	4.5
	2014	2.6
	2015	-0.7
	2016	-1.4

Note: This forecast is consistent with nominal GDP and interest rates in the Tealbook forecast. Actual data through July 15, 2013; projections thereafter.

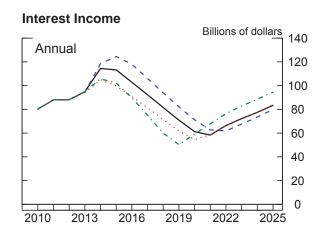
1. Growth rates are computed from period averages with the exception of annual growth rates, which are the change from fourth quarter of previous year to fourth quarter of year indicated.

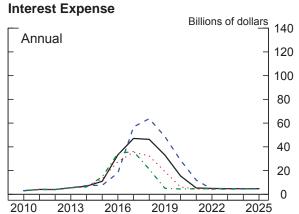
Total Assets and Selected Balance Sheet Items

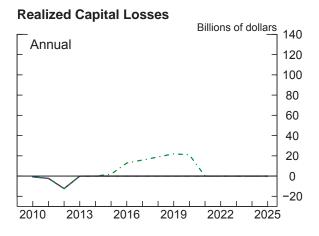


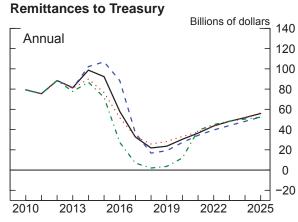
Income Projections

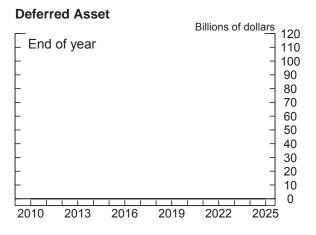
Alternative B
Alternative C
June Tealbook Alt B

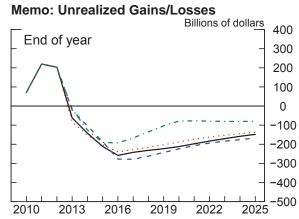












Alternative Projections for the Monetary Base

Percent change, annual rate; not seasonally adjusted June Alternative B | Alternative A Alternative C Date Alternative B Monthly 2012: Dec 13.7 13.7 13.7 13.7 2013: Jan 21.5 21.5 21.5 21.5 37.1 Feb 37.1 37.1 37.1 42.6 42.6 Mar 42.6 42.6 35.8 35.8 35.8 Apr 35.8 9.3 May 35.6 35.6 35.6 Jun 36.3 36.3 36.3 6.2 Jul 49.8 39.2 50.0 50.3 50.3 50.6 48.3 46.0 Aug Quarterly 2012: Q4 -0.5 -0.5 -0.5 -0.52013: Q1 25.1 25.1 25.1 25.1 38.6 38.6 38.6 28.7 Q2 Q3 44.1 44.3 43.0 29.3 Q4 29.6 30.1 22.4 25.1 2014: Q1 18.9 24.4 7.8 8.6 Q2 9.2 16.0 -1.7 -1.1 Q3 11.6 19.4 6.0 5.8 $Annual^{-1}$ 2012 0.3 0.3 0.3 0.3 39.2 29.9 2013 38.9 36.3 9.9 17.5 1.8 2.4 2014 2015 -1.3 1.0 -2.8 -2.7 -9.7 2016 -6.1 -10.3 -15.5 2017 -10.2 -9.6 -10.7 -17.9 -15.6 2018 -15.1 -14.3 -26.8 2019 -17.3 -16.5 -18.0 -16.8 -15.9 2020 -15.5 -11.3 5.1 2021 -3.8 -15.0 5.2 4.2 2022 4.1 -0.7 5.1 4.4 2023 4.3 4.4 4.5 5.1 2024 4.5 5.0 4.6 4.6 2025 4.6 4.6 4.6 5.0

^{1.} Percent change from fourth quarter of previous year to fourth quarter of period indicated.

Federal Reserve Balance Sheet End-of-Year Projections -- Alternative B

Billions of dollars

	<u>Jun 30, 2013</u>	2013	2015	2017	<u>2019</u>	2021	2023	2025
Total assets	3,487	3,995	4,097	3,341	2,402	2,051	2,243	2,469
Selected assets								
Liquidity programs for financial firms	2	1	0	0	0	0	0	
Primary, secondary, and seasonal credit	0	0	0	0	0	0	0	
Central bank liquidity swaps	2	1	0	0	0	0	0	
Term Asset-Backed Securities Loan Facility (TALF)	1	0	0	0	0	0	0	
Net portfolio holdings of Maiden Lane LLC, Maiden Lane II LLC, and Maiden Lane III LLC	1	0	0	0	0	0	0	
Securities held outright	3,214	3,707	3,829	3,117	2,214	1,888	2,098	2,33
U.S. Treasury securities	1,937	2,180	2,287	1,885	1,215	1,077	1,441	1,81
Agency debt securities	69	57	33	4	2	2	2	
Agency mortgage-backed securities	1,208	1,469	1,509	1,227	997	809	655	52
Net portfolio holdings of TALF LLC	0	0	0	0	0	0	0	
Unamortized premiums	204	225	208	162	125	98	80	6
Unamortized discounts	-2	-7	-9	-7	-6	-5	-4	-
Total other assets	67	69	69	69	69	69	69	6
Total liabilities	3,432	3,939	4,035	3,263	2,304	1,926	2,085	2,26
Selected liabilities								
Federal Reserve notes in circulation	1,151	1,189	1,340	1,493	1,637	1,778	1,937	2,12
Reverse repurchase agreements	95	100	100	100	100	100	100	10
Deposits with Federal Reserve Banks	2,178	2,639	2,582	1,659	557	40	40	4
Reserve balances held by depository institutions	2,014	2,539	2,567	1,644	542	25	25	2
U.S. Treasury, General Account	135	90	5	5	5	5	5	
Other Deposits	30	10	10	10	10	10	10	1
Interest on Federal Reserve Notes due to U.S. Treasury	1	0	0	0	0	0	0	
Total capital	55	55	62	78	99	125	158	20

Source: Federal Reserve H.4.1 statistical releases and staff calculations.

Note: Components may not sum to totals due to rounding.

Federal Reserve Balance Sheet End-of-Year Projections -- Alternative A

Billions of dollars

	<u>Jun 30, 2013</u>	2013	<u>2015</u>	<u>2017</u>	2019	<u>2021</u>	2023	202
Γotal assets	3,487	4,018	4,575	3,810	2,778	2,068	2,226	2,45
Selected assets								
Liquidity programs for financial firms	2	1	0	0	0	0	0	
Primary, secondary, and seasonal credit	0	0	0	0	0	0	0	
Central bank liquidity swaps	2	1	0	0	0	0	0	
Term Asset-Backed Securities Loan Facility (TALF)	1	0	0	0	0	0	0	
Net portfolio holdings of Maiden Lane LLC, Maiden Lane II LLC, and Maiden Lane III LLC	1	0	0	0	0	0	0	
Securities held outright	3,214	3,728	4,284	3,564	2,572	1,891	2,070	2,31
U.S. Treasury securities	1,937	2,200	2,470	2,070	1,365	917	1,287	1,68
Agency debt securities	69	57	33	4	2	2	2	
Agency mortgage-backed securities	1,208	1,471	1,781	1,489	1,204	972	781	62
Net portfolio holdings of TALF LLC	0	0	0	0	0	0	0	
Unamortized premiums	204	225	232	185	143	113	91	7
Unamortized discounts	-2	-6	-10	-8	-7	-6	-5	
Total other assets	67	69	69	69	69	69	69	(
Γotal liabilities	3,432	3,962	4,513	3,732	2,679	1,943	2,067	2,25
Selected liabilities								
Federal Reserve notes in circulation	1,151	1,189	1,340	1,492	1,621	1,756	1,919	2,10
Reverse repurchase agreements	95	100	100	100	100	100	100	10
Deposits with Federal Reserve Banks	2,178	2,663	3,059	2,128	947	77	40	4
Reserve balances held by depository institutions	2,014	2,563	2,959	2,113	932	62	25	2
U.S. Treasury, General Account	135	90	90	5	5	5	5	
Other Deposits	30	10	10	10	10	10	10	
Interest on Federal Reserve Notes due to U.S. Treasury	1	0	0	0	0	0	0	
Γotal capital	55	55	62	78	99	125	158	2

Source: Federal Reserve H.4.1 statistical releases and staff calculations.

Note: Components may not sum to totals due to rounding.

Federal Reserve Balance Sheet End-of-Year Projections -- Alternative C

Billions of dollars

	Jun 30, 2013	2013	2015	<u>2017</u>	<u>2019</u>	2021	2023	2025
Γotal assets	3,487	3,877	3,678	2,969	2,115	2,041	2,241	2,47
Selected assets								
Liquidity programs for financial firms	2	1	0	0	0	0	0	
Primary, secondary, and seasonal credit	0	0	0	0	0	0	0	
Central bank liquidity swaps	2	1	0	0	0	0	0	
Term Asset-Backed Securities Loan Facility (TALF)	1	0	0	0	0	0	0	
Net portfolio holdings of Maiden Lane LLC, Maiden Lane II LLC, and Maiden Lane III LLC	1	0	0	0	0	0	0	
Securities held outright	3,214	3,596	3,430	2,761	1,939	1,888	2,104	2,34
U.S. Treasury securities	1,937	2,110	2,107	1,705	1,078	1,186	1,532	1,88
Agency debt securities	69	57	33	4	2	2	2	
Agency mortgage-backed securities	1,208	1,429	1,290	1,051	858	700	569	46
Net portfolio holdings of TALF LLC	0	0	0	0	0	0	0	
Unamortized premiums	204	216	185	143	110	87	70	5
Unamortized discounts	-2	-7	-6	-4	-4	-3	-2	-
Total other assets	67	69	69	69	69	69	69	6
Γotal liabilities	3,432	3,822	3,616	2,891	2,016	1,916	2,083	2,27
Selected liabilities								
Federal Reserve notes in circulation	1,151	1,189	1,340	1,491	1,626	1,769	1,936	2,12
Reverse repurchase agreements	95	100	100	100	100	100	100	10
Deposits with Federal Reserve Banks	2,178	2,522	2,167	1,292	282	40	40	4
Reserve balances held by depository institutions	2,014	2,422	2,152	1,277	267	25	25	2
U.S. Treasury, General Account	135	90	5	5	5	5	5	
Other Deposits	30	10	10	10	10	10	10	1
Interest on Federal Reserve Notes due to U.S. Treasury	1	0	0	0	0	0	0	
Total capital	55	55	62	78	99	125	158	20

Source: Federal Reserve H.4.1 statistical releases and staff calculations.

Note: Components may not sum to totals due to rounding.

Alternative P	Projections for the	ne 10-Year Trea	asury Term Pre	mium Effect
Date	Alternative B	Alternative A	Alternative C	June Alternative B
		Basis Points		
	Qu	arterly Average	es	
2013: Q2				-102
Q3	-125	-139	-109	-100
Q4	-121	-135	-104	-94
2014: Q1	-116	-131	–99	-89
Q2	-111	-126	-94	-83
Q3	-106	-121	-89	-78
Q4	-100	-115	-84	-72
2015: Q1	-95	-110	-80	-67
Q2	-90	-104	-75	-62
Q3	-85	-99	-71	-57
Q4	-80	-93	-67	-52
2016: Q4	-63	-74	-52	-36
2017: Q4	-49	-58	-40	-24
2018: Q4	-39	-46	-32	-17
2019: Q4	-30	-36	-25	-14
2020: Q4	-24	-28	-20	-13
2021: Q4	-19	-22	-17	-12
2022: Q4	-16	-17	-14	-10
2023: Q4	-13	-14	-11	-8
2024: Q4	_9	-10	-8	-6
2025: Q4	-7	–7	-6	-4