Appendix 1: Materials used by Messrs. Fallick and Faberman, and Ms. Şahin

Material for

January 25–26, 2011

FOMC Briefing on Structural Unemployment

Bruce Fallick, Jason Faberman, and Aysegul Sahin January 25, 2011

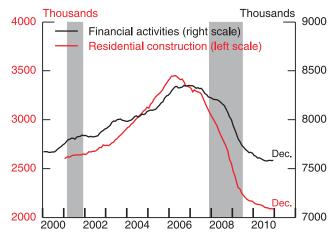
Exhibit 1 Causes for Concern

1-25-11

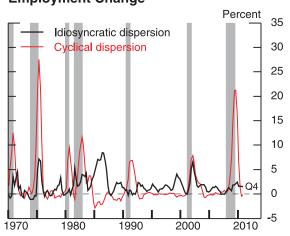
Categories of Unemployment

- Structural or frictional unemployment reflects difficulties in matching available workers to available jobs.
 - Demographics.
 - o The technology of job search and worker screening.
 - Imbalances between the characteristics or locations of potential workers and vacant jobs.
- Cyclical unemployment is due to a shortfall in aggregate economic activity.
- Inflation is most sensitive to cyclical unemployment.
- The line between these categories is often blurry.

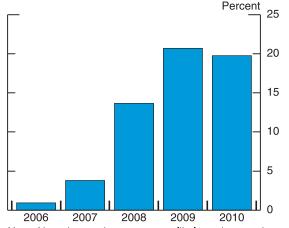
Payroll Employment



Dispersion in Major Industry Employment Change

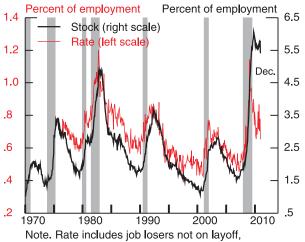


Percent of Mortgages with Negative Equity



Note. Negative equity percentage likely understated because of incomplete data on junior liens.

Permanent Job Losers

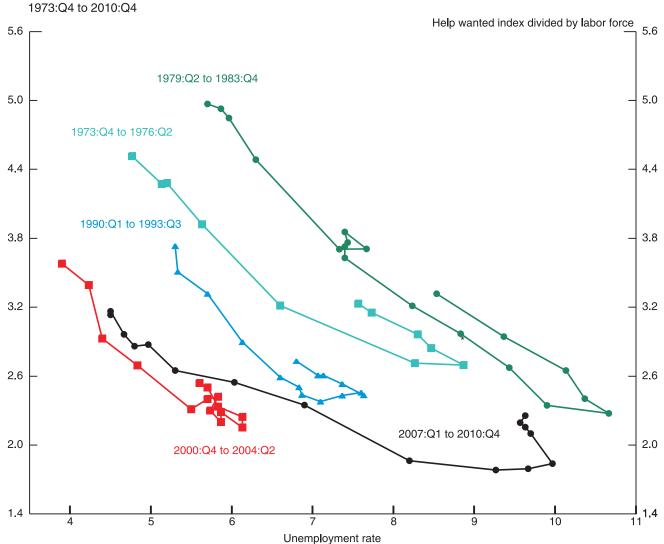


Note. Rate includes job losers not on layoff, unemployed less than five weeks. Stock includes all job losers not on layoff.

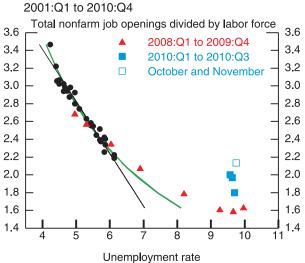
The Beveridge Curve

1-25-11

Using Staff Composite Help Wanted Index



Using JOLTS Job Openings



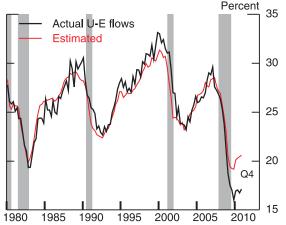
Issues in Interpretation

- Deviation is not a measure of an increase in structural unemployment.
- The shape of the curve.
- Increases in layoffs that occur during recessions.
- · Counter-clockwise loops.

1-25-11

Exhibit 3 **Models Informing Tealbook Assumptions**

Job Matching

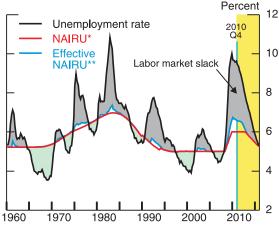


Note. Actual and estimated monthly flow rates from unemployment to employment. Estimated values are from a regression of the U-E flow rates on the log of the ratio of vacancies to unemployment.

An Unobserved Components Model

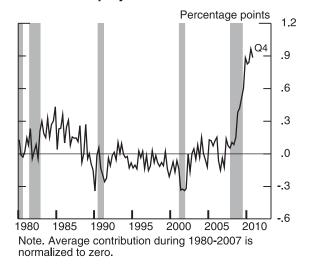
- The model treats the NAIRU and other trends as unobserved components.
- · Related through such macroeconomic relationships as the Phillips Curve and Okun's Law.
- Variant allows for the possibility that the Phillips curve flattened in the mid-1980s.
- Also allows the NAIRU to be more variable than in previous episodes.

Tealbook NAIRU

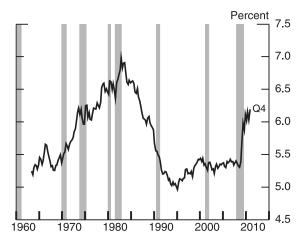


*Staff estimate.

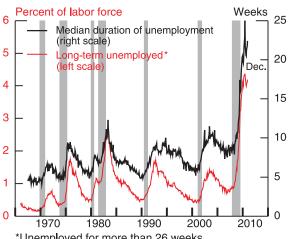
Contribution of Matching Efficiency to the Unemployment Rate



Model NAIRU



Duration of Unemployment



*Unemployed for more than 26 weeks.

^{**}Includes emergency unemployment compensation and state-federal extended benefits programs.

Exhibit 4 Theoretical Motivation

The Matching Function

- H_t = total hires (or matches)
- V_t = total vacancies
- U_t = total unemployment
- μ_t = "matching efficiency" parameter

$$H_t = \mu_t V_t^{1-\alpha} U_t^{\alpha}$$

Matching Efficiency

Beveridge Curve

- Lower efficiency implies fewer hires for a given U_{t} , V_{t}
- Decline in efficiency shifts Beveridge curve out
- Efficiency parameter can change because of structural or cyclical factors (i.e., any changes not captured by U_t or V_t)

Shifts and Movements in the Beveridge Curve

Expansionary movements Recessionary Shift in the Beveridge curve

Unemployment rate

Things that shift the Beveridge curve

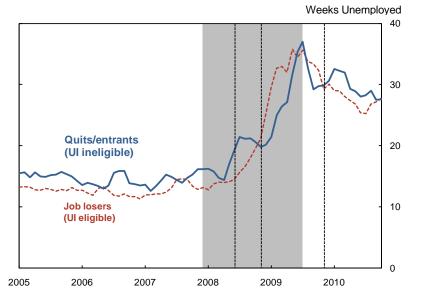
- Changes in matching efficiency
- Changes in layoff, separation rates
- "Looping" to new equilibrium

Things that affect measured matching efficiency

- Mismatch
- Behavior of quitting workers
- Search efforts of workers, firms

Exhibit 5 **Extended Unemployment Insurance Benefits**

Unemployment Duration by Reason for Unemployment



Extended UI Benefits

- Job loser's behavior:
 - + 0.8% pts to U_t
- Transitions out of unemployment:
 - + 0.9 to 1.7% pts to U_t
- Preferred estimate across studies:
 - about +0.8% pts to U_t

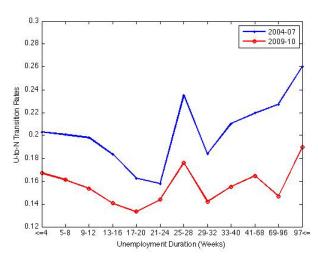
Note: Through October, 2010, three-month moving average. From Daly et al. (2011), using CPS data. Dashed vertical lines indicate effective dates for extensions of maximum UI duration.

Unemployment Transition Rates by Unemployment Duration

Transitions from Unemployment to Employment

0.4 0.35 0.35 0.25 0.15 0

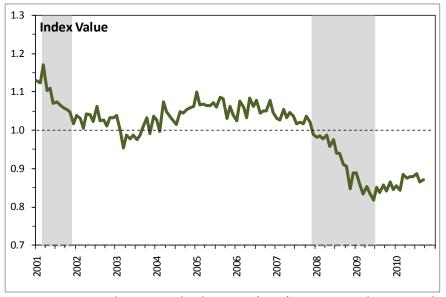
Transitions from Unemployment to Out of the Labor Force



Note: From Fujita (2010), using CPS data.

Exhibit 6
Employer Recruiting Intensity

Recruiting Intensity per Vacancy over Time

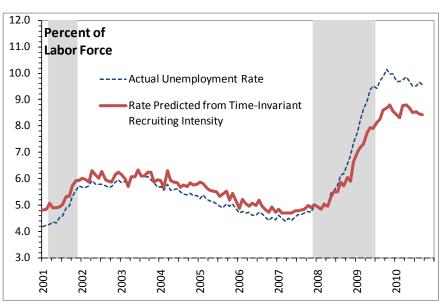


Recruiting Intensity

- Low recruiting intensity accounts
 for 1.4% of U_t
- Rise could be structural or cyclical

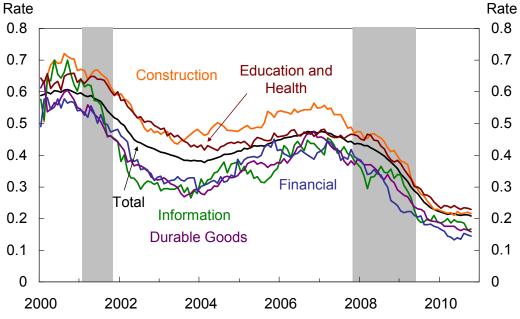
Note: From Davis, Faberman, and Haltiwanger (2010), using JOLTS data. JOLTS data begin in December 2000. Scaled so that average value is equal to one over the sample period.

Actual vs. Counterfactual Unemployment Rate, Holding Recruiting Intensity Constant



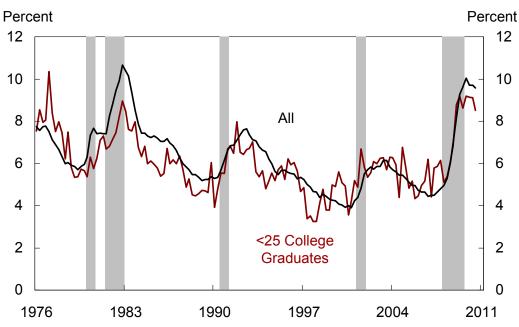
Note: From Davis, Faberman, and Haltiwanger (2010), using JOLTS and CPS data.

General Measures of Mismatch
Unemployment Outflow Rates by Industry



Note: Elsby, Hobijn, Şahin (2010), CPS. Series 12-Month Moving Average.

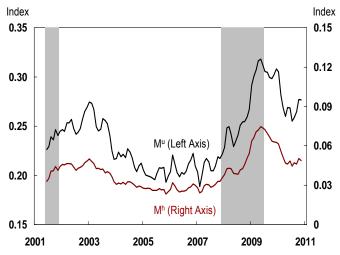
Unemployment Rate of Recent College Graduates



Note: Aaronson, Barlevy, Mazumder (2011), CPS.

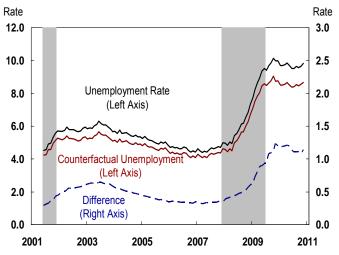
Exhibit 8 Skill Mismatch

Mismatch Indices by Industry



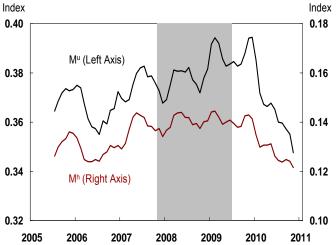
Note: Şahin, Song, Topa, Violante (2010), JOLTS, CPS. Series 3-Month Moving Average.

Actual and Counterfactual Unemployment (Industry)



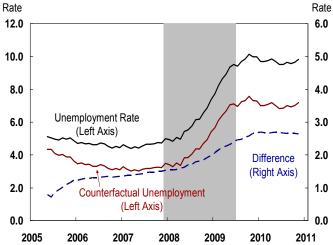
Note: Şahin, Song, Topa, Violante (2010), JOLTS, CPS.

Mismatch Indices by Occupation



Note: Şahin, Song, Topa, Violante (2010), The Conference Board Help Wanted OnLine Data Series, CPS. Series 3-Month Moving Average.

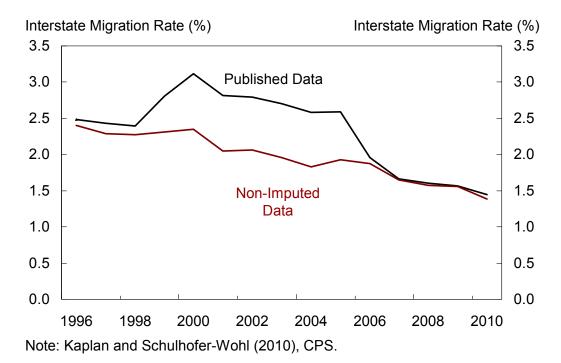
Actual and Counterfactual Unemployment (Occupation)



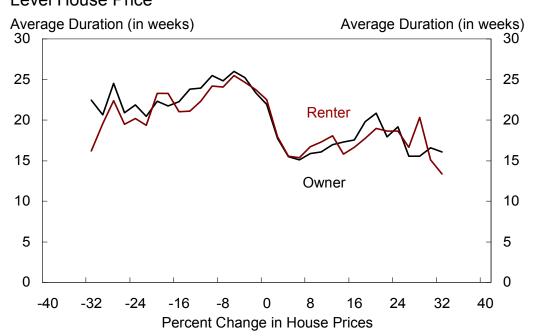
Note: Şahin, Song, Topa, Violante (2010), The Conference Board Help Wanted OnLine Data Series, CPS.

Exhibit 9
House Lock and Geographic Mismatch

Rates of Migration between States

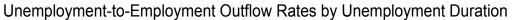


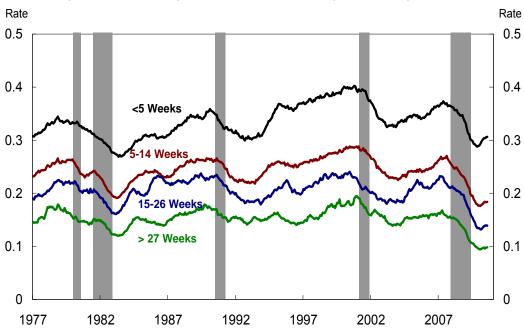
Average Unemployment Duration by 12-Month Change in State-Level House Price



Note: Foote and Ryan (2011), CPS, FHFA.

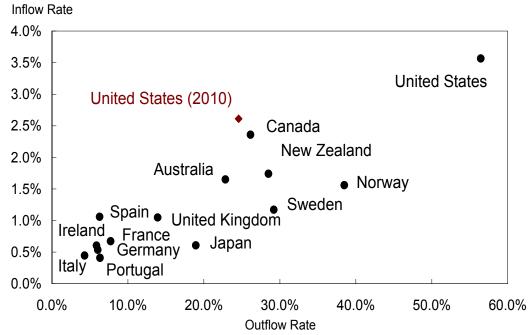
Exhibit 10 Long-term Unemployment and Hysteresis





Note: CPS. Series 12-Month Moving Average.

Unemployment Inflow and Outflow Rates by OECD Countries



Note: Elsby, Hobijn, Şahin (2009), OECD.

Exhibit 11 Summary

• The following factors have had a measurable effect on the unemployment rate during 2007-2010:

Estimated effect on U

o Extended unemployment insurance benefits: + 0.4 to 1.7 percentage points

(preferred estimate around

+ 0.8 percentage point)

Decline in the recruiting intensity of firms: + 1.4 percentage points

Skill mismatch across industries: + 0.8 percentage point

Skill mismatch across occupations: + 1.4 percentage points

Note: These effects are not additive.

• The following factors have had <u>no</u> measurable effect on the unemployment rate during 2007-2010:

- House lock
- o Geographic mismatch

• Problems facing the U.S. labor market are unlikely to be as severe as the European-style hysteresis problem of the 1980s.

Exhibit 12 - Last Exhibit **Board and Reserve Bank Staff Estimates**

01-25-11

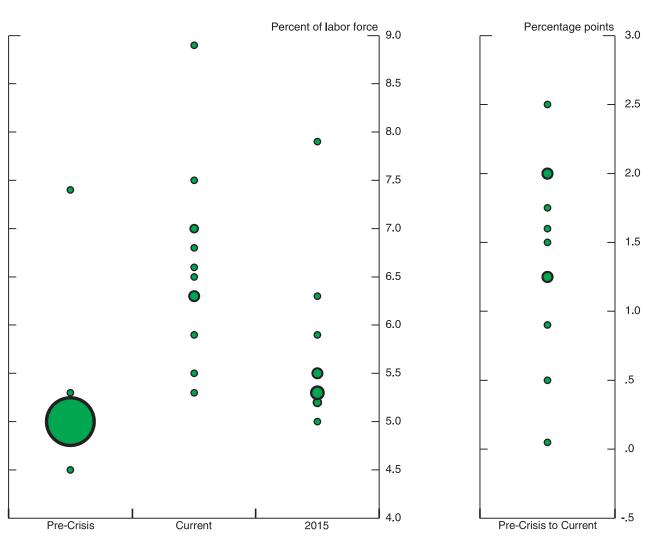
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Pre-Crisis	5.0	5.0	5.0	5.0	5.0	4.5	5.0	5.0	7.4	5.0	5.0	5.25	5.0
Current	6.6	6.25	6.25	6.75	5.9	6.5	7.0	7.0	8.9	7.5	5.5	5.3	6.25
Increase	1.6	1.25	1.25	1.75	.9	2.0	2.0	2.0	1.5	2.5	.5	.05	1.25
2015*	5.3	5.3	5.0	5.25	5.9	6.3	5.5	5.2	7.9	5.5	5.5	5.2	5.25

^{*}St. Louis estimate is for 2013.

January 25–26, 2011

Distribution of Estimates

Estimated Increase



Appendix 2: Materials used by Mr. Sack

Material for

January 25–26, 2011

FOMC Presentation:

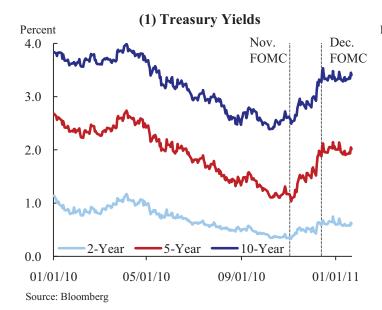
Financial Market Developments and Desk Operations

Brian Sack

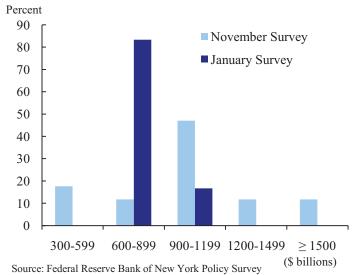
January 25, 2011

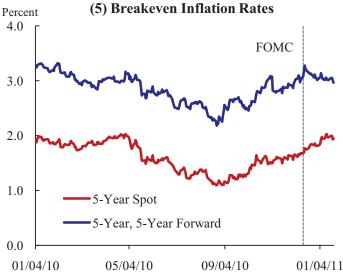
January 25-26, 2011

Exhibit 1

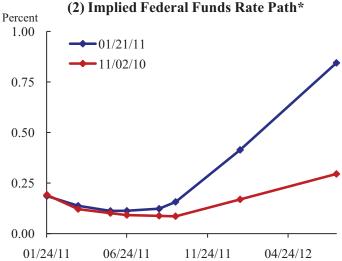


(3) Cumulative Size of Asset Purchase Program

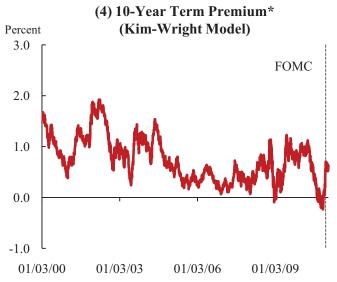




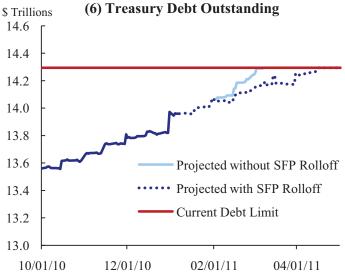
Source: Federal Reserve Board of Governors



*Based on federal funds and eurodollar futures rates. Source: Federal Reserve Bank of New York

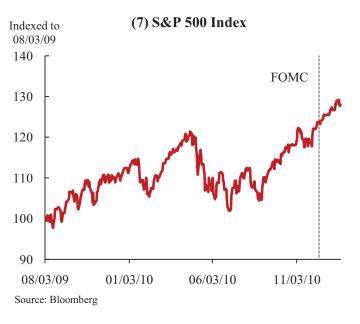


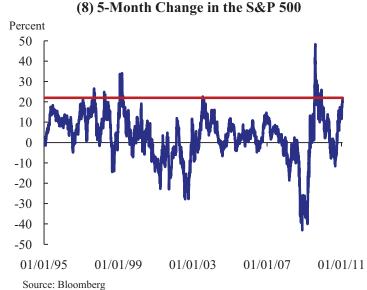
*Based on zero coupon Treasury yield. Source: Federal Reserve Board of Governors

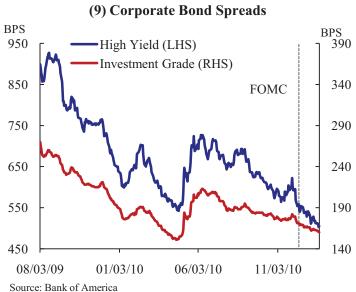


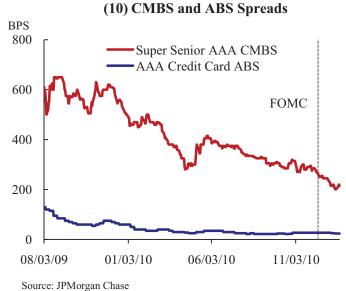
Source: Federal Reserve Board of Governors

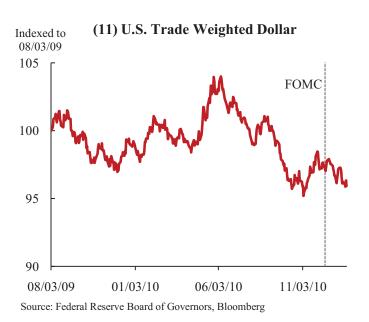
Exhibit 2

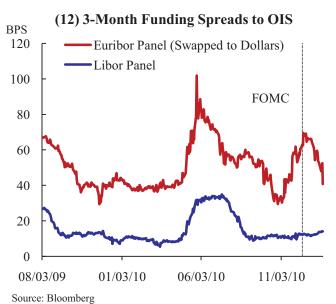




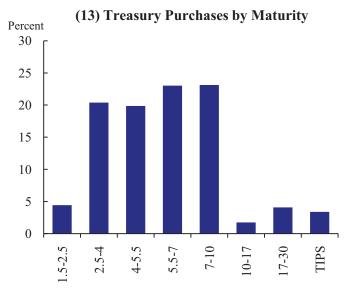




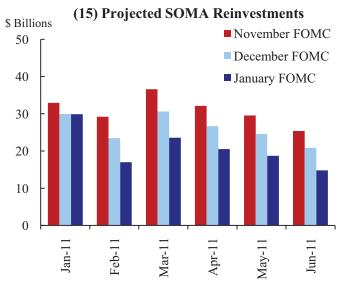




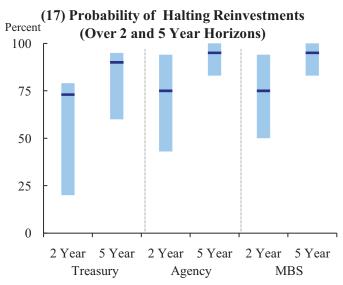
Class II FOMC – Restricted FR Exhibit 3



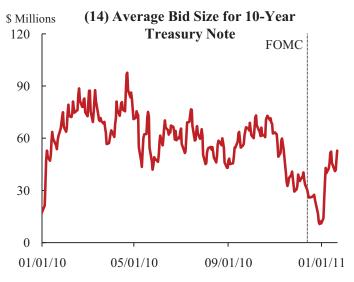
Source: Federal Reserve Bank of New York



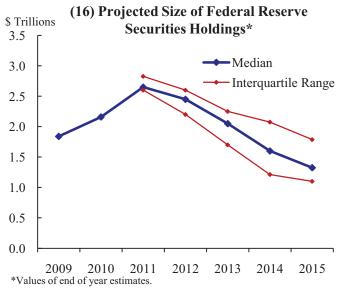
Source: Federal Reserve Bank of New York



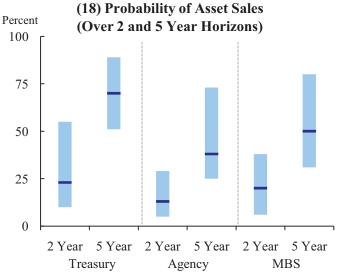
Source: Federal Reserve Bank of New York Policy Survey



Source: BrokerTec

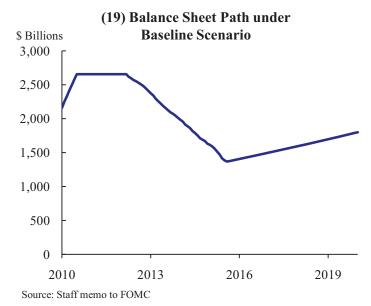


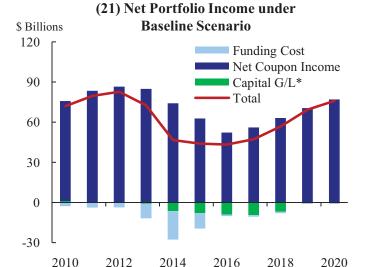
Source: Federal Reserve Board of Governors, Federal Reserve Bank of New York Policy Survey



Source: Federal Reserve Bank of New York Policy Survey

Class II FOMC - Restricted FR Exhibit 4





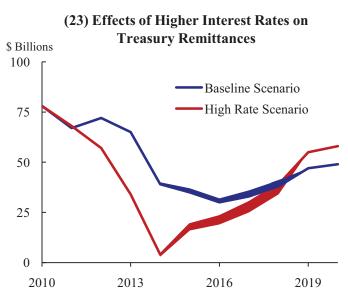
2010 2012 *Represents the average between the FRBNY and the Board.

2014

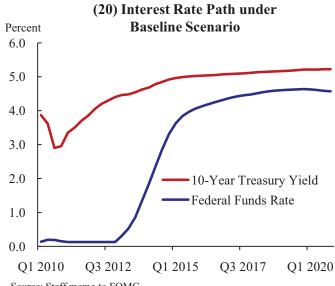
2016

2018

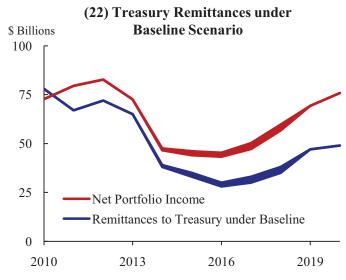
Source: Staff memo to FOMC



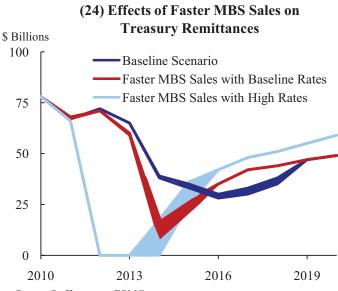
Source: Staff memo to FOMC



Source: Staff memo to FOMC



Source: Staff memo to FOMC



Source: Staff memo to FOMC

Appendix 3: Materials used by Messrs. Reifschneider and Kamin, and Ms. Liang

CLASS II FOMC - Restricted (FR)

Material for

Staff Presentation on the Economic Outlook

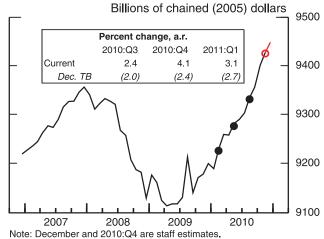
January 25-26, 2011

January 25-26, 2011

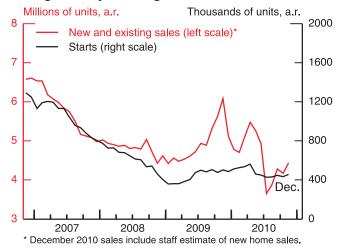
Exhibit 1

Recent Nonfinancial Indicators

Real Personal Consumption Expenditures



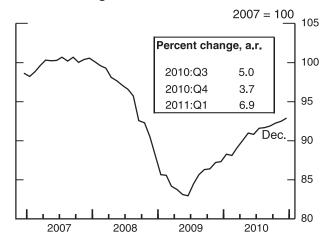
Single-family Housing Starts and Sales



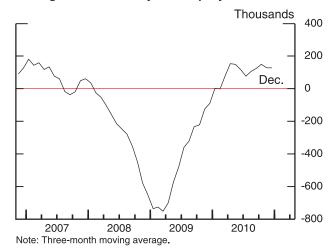
Near-term GDP Projection (Percent change, annual rate)

	2010	2010	2011
	Q3	Q4	Q1
1. Real GDP 2. (Dec. TB)	2.6	3.8	3.6
	<i>(2.7)</i>	<i>(2.5)</i>	(3.4)
3. PDFP	2.3	4.0	3.9
4. (Dec. TB)	(2.6)	(2.7)	<i>(3.5)</i>

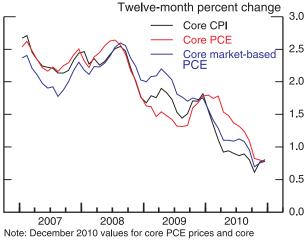
Manufacturing IP



Change in Private Payroll Employment



Consumer Prices

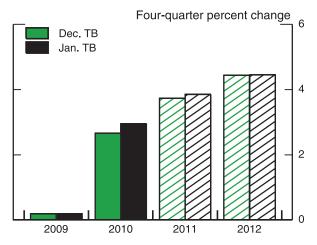


market-based PCE prices are staff estimates.

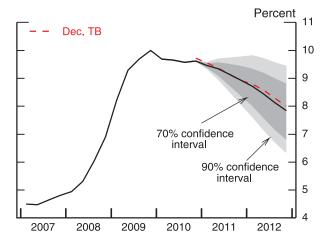
Exhibit 2

Medium-term Outlook for Real Activity and Inflation

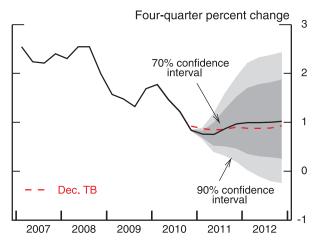
Real GDP



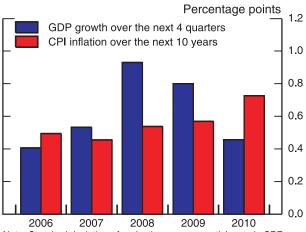
Unemployment Rate



Core PCE Prices

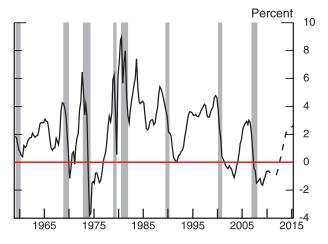


Dispersion of SPF Forecasts

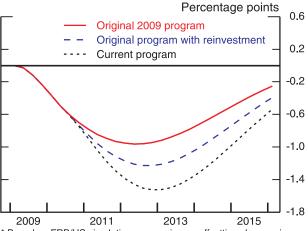


Note: Standard deviation of projections across participants in SPF surveys released in the fourth quarter.

Real Federal Funds Rate



Unemployment Effects of Asset Purchases*



* Based on FRB/US simulations, assuming no offsetting changes in the medium-term path of the federal funds rate.

Exhibit 3

The Pace of Recovery

Forces Shaping the Recovery

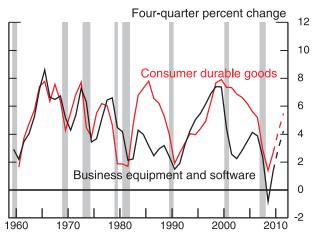
Supportive factors

- Capital demands
- Diminishing drag from wealth losses
- Increasing credit availability

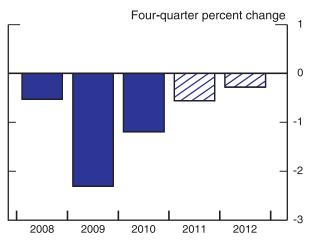
Hindering factors

- Housing sector troubles
- Non-residential construction
- Fading impetus from fiscal policy

Capital Stocks



Direct Contribution of Wealth to Real PCE Growth

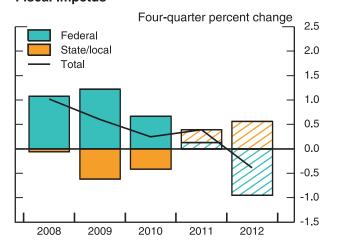


Decomposition of Cyclical Recoveries

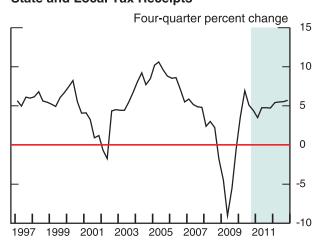
Γ		
	Average	Current
Real GDP expansion*	9.7	6.5
Selected contributions (p.p.):		
Housing	1.3	0.0
Nonres. Structures	0.0	-0.5
S&L purchases	0.4	-0.2

^{*} Percent change in real GDP, eight quarters after the trough.

Fiscal Impetus



State and Local Tax Receipts

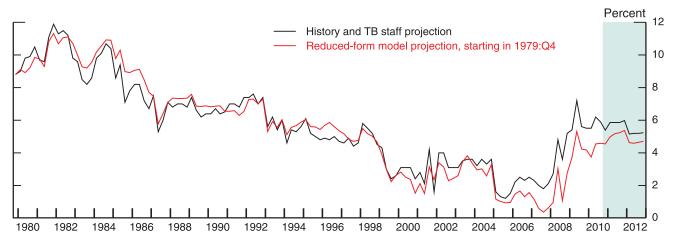


January 25-26, 2011

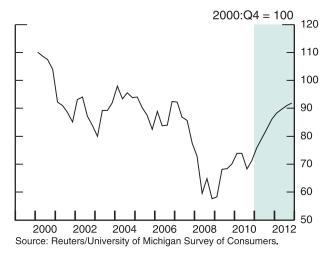
Exhibit 4

Household Saving, Sentiment, and Credit Conditions

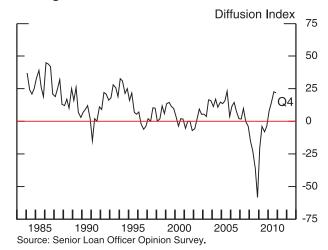
Personal Saving Rate



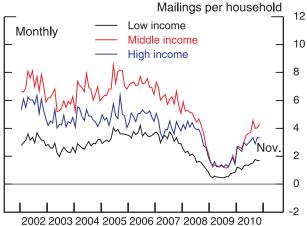
Consumer Sentiment



Willingness to Make Consumer Loans

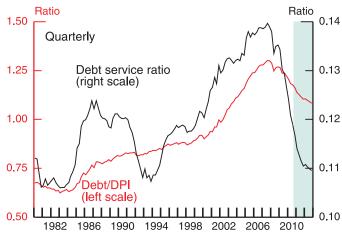


Credit Card Solicitations



Note: Low-income, middle-income, and high-income households earn less than \$45,000, between \$45,000 and \$100,000, and more than \$100,000, respectively. Source: Mintel.

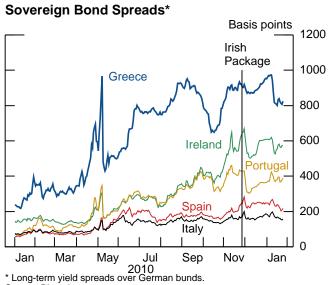
Measures of Household Debt Burden



* Debt service ratio is debt service payments (principal and interest) relative to disposable personal income. Source: Flow of Funds Accounts.

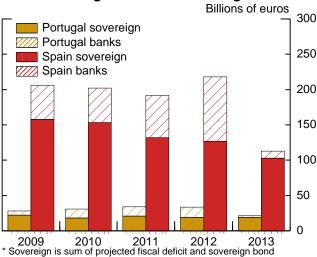
Exhibit 5

European Developments



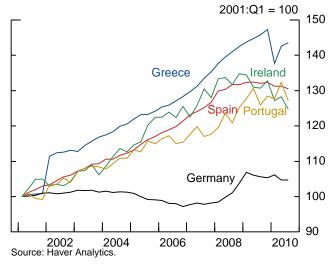
Source: Bloomberg

Gross Sovereign and Bank Financing Needs*



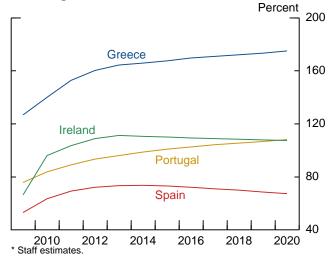
redemptions. Bank is marketable debt only. Does not include potential costs of bank bailouts

Unit Labor Costs





Sovereign Debt-to-GDP Ratios*



Containing Contagion

- Backing Portugal and Spain will require €500+ billion, compared with currently available resources of €375-400 billion.
- Critical that back-stop capacity be expanded.
- Horizontal review of banks must:
 - o be more credible than one last summer.
 - require more banks to raise capital.
 - be able to help recapitalize weak banks.

January 25–26, 2011

Exhibit 6

Foreign Outlook

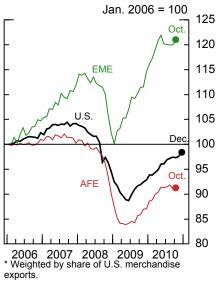
Real GDP*

Percent change, annual rate

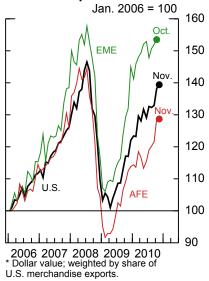
	2010			2011 ^p	2012 ^p
	H1	Q3	Q4 ^e		
1. Total Foreign	5.6	2.1	3.0	3.4	3.6
2. June Tealbook	4.6	3.3	3.3	3.3	n.a.
3. Emerging Market Economies	8.1	2.5	5.0	5.0	5.1
4. China	9.7	9.6	9.9	8.6	8.5
5. Emerging Asia ex. China	12.3	-1.1	4.9	4.8	5.0
6. Latin America	5.2	2.8	3.1	4.2	4.2
7. Advanced Foreign Economies	3.6	1.7	1.3	2.1	2.4
8. Euro Area	2.7	1.4	1.5	1.2	2.2
9. United Kingdom	2.9	2.9	-2.0	2.0	2.5
10. Canada	3.9	1.0	2.7	2.8	2.7
11. Japan	4.9	4.5	-1.6	1.7	2.0

^{*} GDP aggregates weighted by shares of U.S. merchandise exports. Table reflects January Tealbook updated for data.

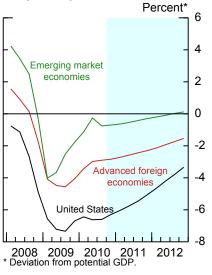
Industrial Production*



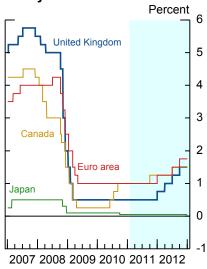
Nominal Exports of Goods*



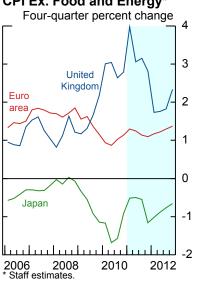
Output Gaps



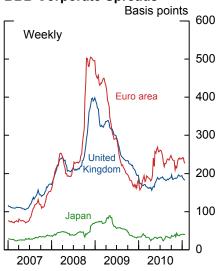
Policy Rates



CPI Ex. Food and Energy*



BBB Corporate Spreads



Oil import

price

Class II FOMC - Restricted (FR)

Exhibit 7

Asset Bubbles and Commodity Prices

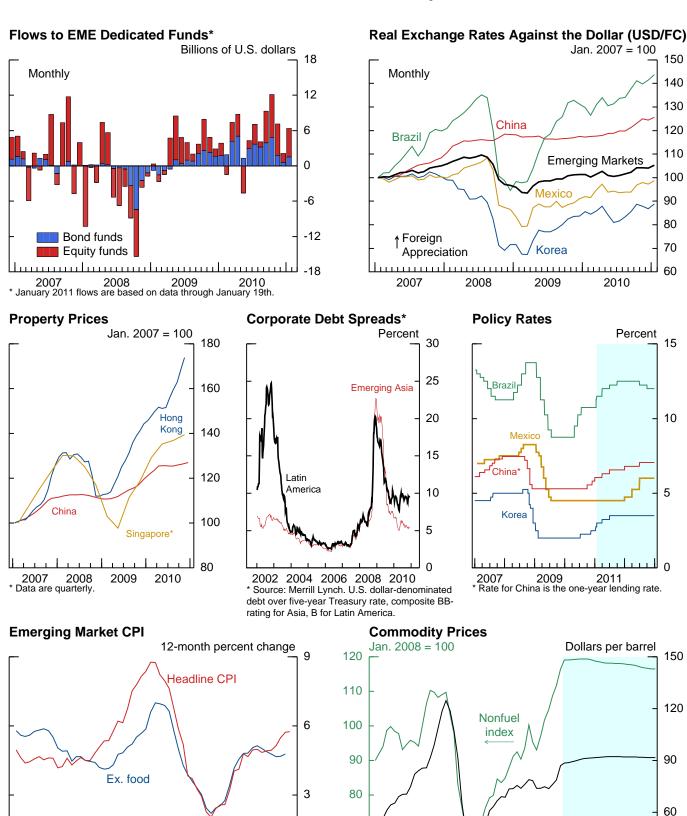
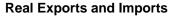
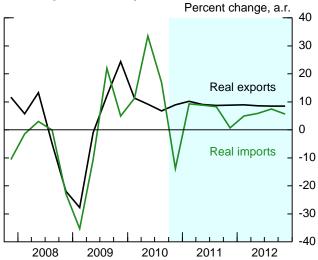


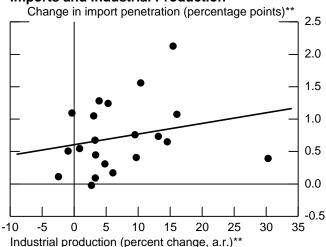
Exhibit 8

U.S. Trade Outlook



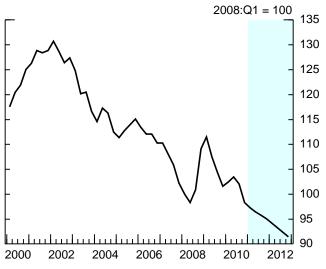


Imports and Industrial Production*

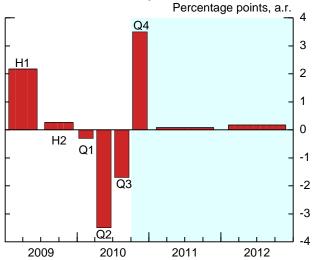


* 21 disaggregated manufacturing sectors.

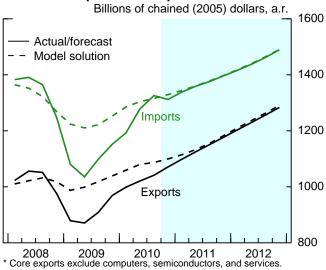
Broad Real Dollar



Contribution of Net Exports to Real GDP Growth

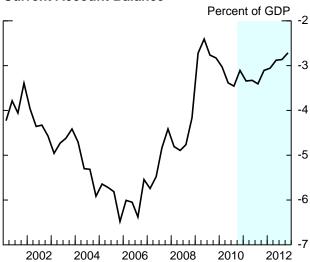


Real Core Exports and Imports*



Core imports also exclude petroleum and natural gas.

Current Account Balance



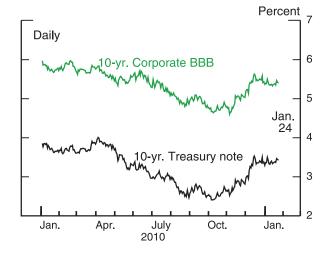
^{**} From 2009:Q2 to 2010:Q3.

Exhibit 9

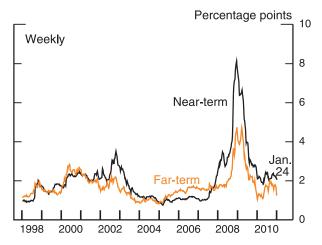
Financial Market Developments

Treasury and Corporate Rates

January 25-26, 2011

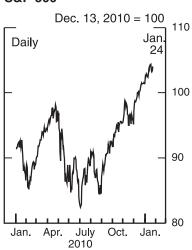


Near- and Far-term Forward Spreads for BBB Bonds*

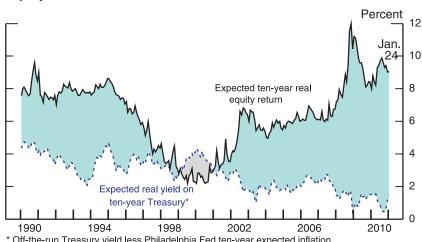


^{*} Near-term forward spreads between years two and three. Far-term forward spreads between years nine and ten.

S&P 500



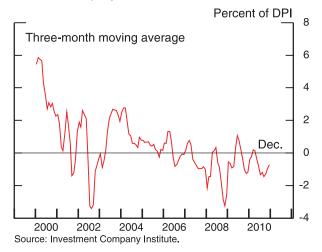
Equity Risk Premium



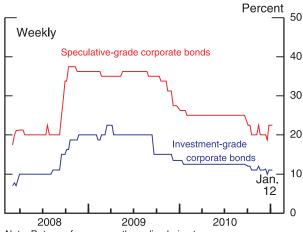
* Off-the-run Treasury yield less Philadelphia Fed ten-year expected inflation.

Source: Thomson Financial.

Domestic Equity Mutual Fund Flows



Repo Market Haircuts



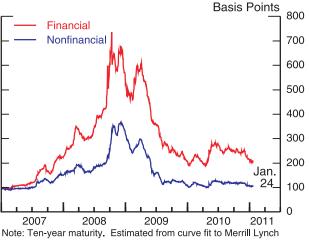
Note: Data are for one-month median haircuts.

Source: Federal Reserve Bank of New York.

Exhibit 10

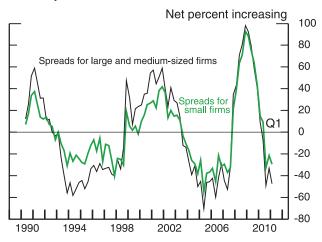
Financing Conditions

A-Rated Corporate Bond Spreads by Sector*

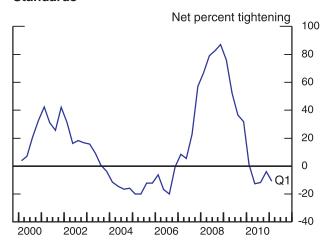


Note: Ten-year maturity. Estimated from curve fit to Merrill Lynch bond yields. Treasury yields from smoothed yield curve estimated from off-the-run securities.

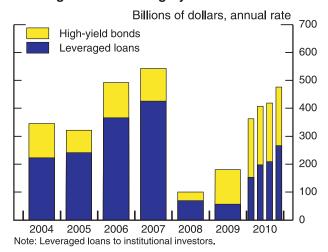
Bank Spreads of Loan Rates Over Costs



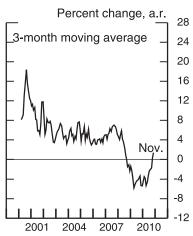
Composite Index of Changes in Bank Credit Standards



Leveraged Loan and High-yield Bond Issuance



Consumer Credit



Total Debt Growth for Households and Nonfinancial Businesses

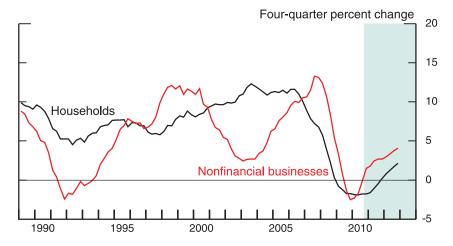
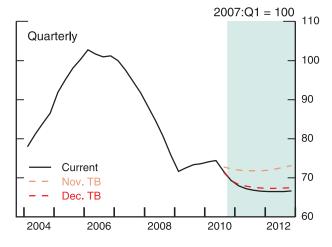


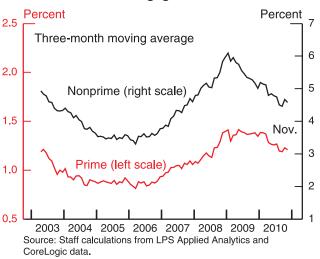
Exhibit 11

Real Estate Remains a Risk

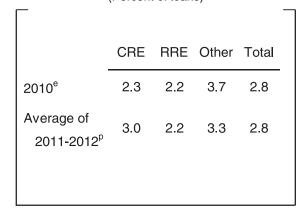
CoreLogic House Price Index Level



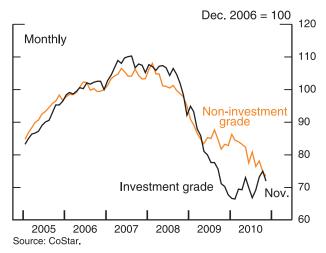
Transition Rate to Delinquency for Residential Mortgages



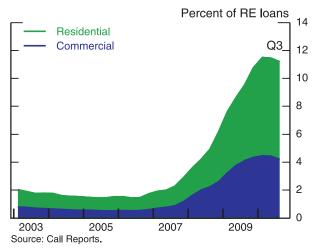
Loan Loss Rates at Commercial Banks (Percent of loans)



Prices of Commercial Real Estate



Distressed Commercial and Residential Mortgages at Banks



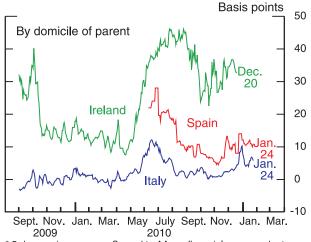
Real Estate Risks to Banks

- House prices could fall more than expected.
- Exams of mortgage foreclosure practices reveal deficiencies.
- Estimates of mortgage putbacks are material for a few banks.

Exhibit 12 (Last)

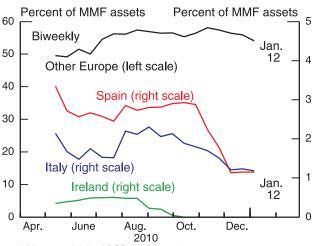
Financial Risk from European and Municipal Debt Developments

Spreads on 1- to 10-day Financial CP Issued in the U.S.



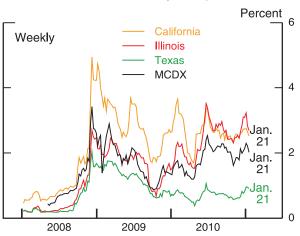
* 5-day moving average. Spread to AA nonfinancial unsecured rate.

U.S. MMF European Exposures*

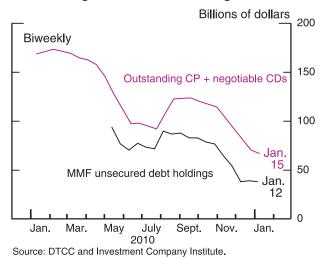


^{*} Unsecured debt, ABCP, and repurchase agreements. Source: Investment Company Institute.

Selected States CDS Five-year Spreads



Peripheral Europe: Short-term Debt Outstanding and U.S. MMF Holdings



Banking System Credit Exposure to Peripheral Europe

June 2010, billions of dollars							
	Greece, Portugal, Ireland	Spain	Total as percent of Tier 1 Capital				
France	142	165	105				
Germany	213	182	136				
United States	67	52	15				

Source: BIS consolidated banking statistics.

Risks

- State and local governments pay higher rates.
- Could lose access to VRDOs.
 - VRDOs are long-term bonds with interest rates that reset frequently.
- Bank credit losses from loans and securities likely modest.
- Balance sheets pressured if investors putback VRDOs.

Appendix 4: Materials used by Ms. Zickler

Class I FOMC – Restricted Controlled (FR)

Material for Briefing on

January 25–26, 2011

FOMC Participants' Economic Projections

Joyce Zickler January 25, 2011

Exhibit 1. Central tendencies and ranges of economic projections, 2011-13 and over the longer run

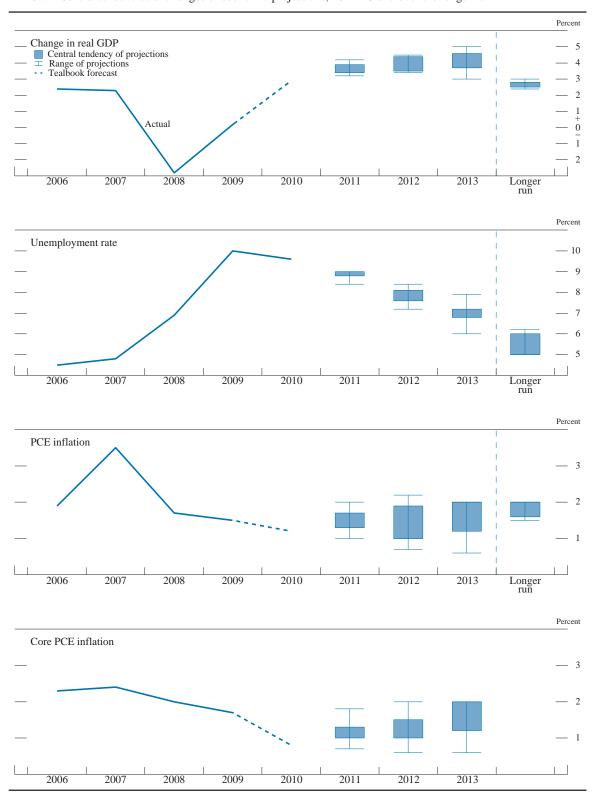


Exhibit 2. Economic projections for 2011-2013 and over the longer run (percent)

Change in real GDP									
	2011	2012	2013	Longer run					
Central Tendency	3.4 to 3.9	3.5 to 4.4	3.7 to 4.6	2.5 to 2.8					
November projections	3.0 to 3.6	3.6 to 4.5	3.5 to 4.6	2.5 to 2.8					
Range	3.2 to 4.2	3.4 to 4.5	3.0 to 5.0	2.4 to 3.0					
November projections	2.5 to 4.0	2.6 to 4.7	3.0 to 5.0	2.4 to 3.0					
Memo: Tealbook	3.8	4.4	4.6	3.0					
November Tealbook	3.6	4.7	4.7	2.8					

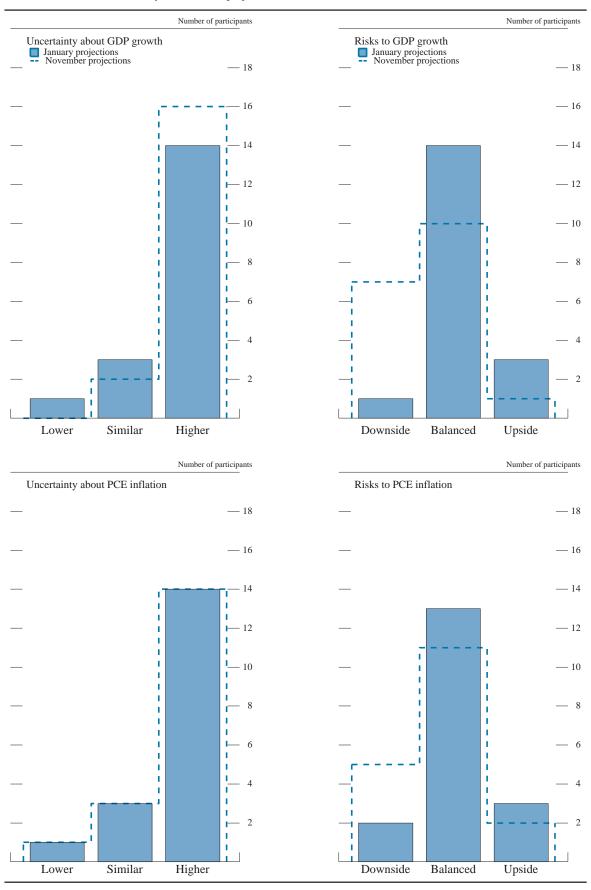
Unemployment rate 2011 2013 Longer run 2012 **Central Tendency** 8.8 to 9.0 7.6 to 8.1 6.8 to 7.2 5.0 to 6.0 8.9 to 9.1 7.7 to 8.2 6.9 to 7.4 5.0 to 6.0 November projections Range 8.4 to 9.0 7.2 to 8.4 6.0 to 7.9 5.0 to 6.2 7.0 to 8.7 5.9 to 7.9 5.0 to 6.3 8.2 to 9.3 November projections Memo: Tealbook 8.9 7.8 7.0 5.2 November Tealbook 9.0 7.9 7.1 5.2

PCE inflation 2011 2012 2013 Longer run **Central Tendency** 1.3 to 1.7 1.0 to 1.9 1.2 to 2.0 1.6 to 2.0 1.1 to 1.7 1.1 to 1.8 1.2 to 2.0 1.6 to 2.0 November projections Range 1.0 to 2.0 0.7 to 2.2 0.6 to 2.0 1.5 to 2.0 0.9 to 2.2 0.6 to 2.2 0.4 to 2.0 1.5 to 2.0 November projections Memo: Tealbook 1.2 2.0 1.3 1.0 November Tealbook 1.1 1.1 1.2 2.0

Core PCE inflation 2011 2012 2013 **Central Tendency** 1.0 to 1.3 1.0 to 1.5 1.2 to 2.0 0.9 to 1.6 1.1 to 2.0 1.0 to 1.6 November projections Range 0.7 to 1.8 0.6 to 2.0 0.6 to 2.0 0.7 to 2.0 0.6 to 2.0 0.5 to 2.0 November projections Memo: Tealbook 1.2 1.0 1.0 November Tealbook 1.0 1.0 1.2

NOTE: The changes in real GDP and inflation are measured Q4/Q4

Exhibit 3. Risks and uncertainty in economic projections

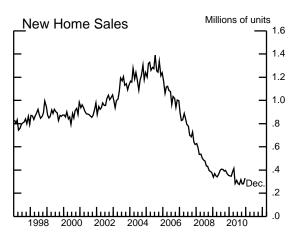


Appendix 5: Materials used by Mr. Stockton

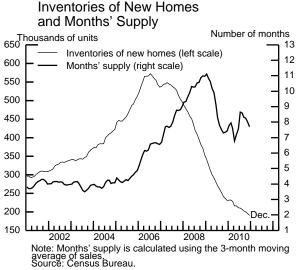
		2010			2010		
	2010	Q2	Q3	Q4	Oct.	Nov.	Dec.
Sales ¹							
Total Previous	321	335	291 288	296	280 275	280 290	329
Percent Change	-14.4	-6.9	-13.1	1.7	-11.7	.0	17.5
By region Northeast Midwest South West	31 44 173 73	33 47 180 76	31 42 159 59	23 34 165 74	30 40 161 49	20 31 165 64	19 32 168 110
Inventories New homes for sale ² Months' supply ³	190 8.0	211 7.9	202 8.5	190 8.0	200 8.6	195 8.4	190 6.9
Prices Mean (thousands of dollars) ⁴ Year-to-year percent change ⁵ One-period percent change (annual rate for quarters, monthly rate for months)	271.6 .3	264.2 -1.9 -20.9	253.8 -7.6 -14.9	n.a. n.a. n.a.	253.4 -5.2 -5.8	278.6 3.4 9.9	293.7 4.3 5.4
Constant-quality price index ⁶ Year-to-year percent change ⁵ One-period percent change (annual rate for quarters)	4 4	-1.1 -9.7	1 .7	-1.2 3.8	n.a.	n.a. n.a.	n.a.

^{1.} Thousands of units, s.a.a.r., except where noted. Percent change is from previous comparable period, not at an annual rate.

Source: Census Bureau.



Source: Census Bureau.



^{2.} Thousands of units, seasonally adjusted, end of period stock.

^{3.} At current sales rate; expressed as the ratio of s.a. inventories to s.a. sales. Quarterly and annual values are averages of monthly values.

^{4.} Quarterly and annual values of mean prices are equal to a weighted average of monthly data; the weights are based on the response rate to the survey in each month. Seasonally adjusted by FRB staff.

Year-to-year percent changes are from the year-earlier comparable period.

^{6.} Based on characteristics of new homes sold in 2005. Seasonally adjusted by FRB staff.

s.a.a.r. Seasonally adjusted annual rate. s.a. Seasonally adjusted. n.a. Not available.

Appendix 6: Materials used by Mr. English

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Class I FOMC – Restricted Controlled (FR)

Material for

FOMC Briefing on Monetary Policy Alternatives

Bill English January 26, 2011

DECEMBER FOMC STATEMENT

- 1. Information received since the Federal Open Market Committee met in November confirms that the economic recovery is continuing, though at a rate that has been insufficient to bring down unemployment. Household spending is increasing at a moderate pace, but remains constrained by high unemployment, modest income growth, lower housing wealth, and tight credit. Business spending on equipment and software is rising, though less rapidly than earlier in the year, while investment in nonresidential structures continues to be weak. Employers remain reluctant to add to payrolls. The housing sector continues to be depressed. Longer-term inflation expectations have remained stable, but measures of underlying inflation have continued to trend downward.
- 2. Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. Currently, the unemployment rate is elevated, and measures of underlying inflation are somewhat low, relative to levels that the Committee judges to be consistent, over the longer run, with its dual mandate. Although the Committee anticipates a gradual return to higher levels of resource utilization in a context of price stability, progress toward its objectives has been disappointingly slow.
- 3. To promote a stronger pace of economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate, the Committee decided today to continue expanding its holdings of securities as announced in November. The Committee will maintain its existing policy of reinvesting principal payments from its securities holdings. In addition, the Committee intends to purchase \$600 billion of longer-term Treasury securities by the end of the second quarter of 2011, a pace of about \$75 billion per month. The Committee will regularly review the pace of its securities purchases and the overall size of the asset-purchase program in light of incoming information and will adjust the program as needed to best foster maximum employment and price stability.
- 4. The Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and continues to anticipate that economic conditions, including low rates of resource utilization, subdued inflation trends, and stable inflation expectations, are likely to warrant exceptionally low levels for the federal funds rate for an extended period.
- 5. The Committee will continue to monitor the economic outlook and financial developments and will employ its policy tools as necessary to support the economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate.

JANUARY FOMC STATEMENT—ALTERNATIVE A

- 1. Information received since the Federal Open Market Committee met in November December confirms that the economic recovery is continuing, though at a rate that has been insufficient to bring down unemployment about a significant improvement in labor market conditions. Household spending is increasing at a moderate pace, but remains constrained by high unemployment, modest income growth, lower housing wealth, and tight credit. Business spending on equipment and software is rising, though less rapidly than earlier in the year in recent quarters, while investment in nonresidential structures continues to be weak. Employers remain reluctant to add to payrolls. The housing sector continues to be depressed. Longer-term inflation expectations have remained stable, but measures of underlying inflation have continued to been trending downward.
- 2. Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. Currently, the unemployment rate is elevated, and measures of underlying inflation are somewhat low, relative to levels that the Committee judges to be consistent, over the longer run, with its dual mandate. Although the Committee anticipates a gradual return to higher levels of resource utilization in a context of price stability, progress toward its objectives has been remains disappointingly slow and there are still significant downside risks to the economic outlook.
- 3. To promote a stronger pace of economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate, the Committee decided today to continue expanding its holdings of securities. as announced in November. Moreover, in light of incoming information, the Committee now intends to increase its holdings of securities by a total of \$800 billion—\$200 billion more than announced in November—by purchasing longer-term Treasury securities at a pace of about \$75 billion per month through the third quarter of 2011. In addition, the Committee will maintain its existing policy of reinvesting principal payments from its securities holdings. In addition, the Committee intends to purchase \$600 billion of longer term Treasury securities by the end of the second quarter of 2011, a pace of about \$75 billion per month. The Committee will regularly review the pace of its securities purchases and the overall size of the asset-purchase program in light of incoming information and will adjust the program as needed to best foster maximum employment and price stability.
- 4. The Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and continues to currently anticipates that economic conditions, including low rates of resource utilization, subdued inflation trends, and stable inflation expectations, are likely to warrant exceptionally low levels for the federal funds rate for an extended period at least through mid-2012.
- 5. The Committee will continue to monitor the economic outlook and financial developments and will employ its policy tools as necessary to support the economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate.

JANUARY FOMC STATEMENT—ALTERNATIVE B

- 1. Information received since the Federal Open Market Committee met in November December confirms that the economic recovery is continuing, though at a rate that has been insufficient to bring down unemployment about a significant improvement in labor market conditions. Growth in household spending is increasing at a moderate pace picked up late last year, but remains constrained by high unemployment, modest income growth, lower housing wealth, and tight credit. Business spending on equipment and software is rising, though less rapidly than earlier in the year, while investment in nonresidential structures continues to be is still weak. Employers remain reluctant to add to payrolls. The housing sector continues to be depressed. Although commodity prices have risen, longer-term inflation expectations have remained stable, but and measures of underlying inflation have been trending downward.
- 2. Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. Currently, the unemployment rate is elevated, and measures of underlying inflation are somewhat low, relative to levels that the Committee judges to be consistent, over the longer run, with its dual mandate. Although the Committee anticipates a gradual return to higher levels of resource utilization in the context of price stability, progress toward its objectives has been disappointingly slow.
- 3. To promote a stronger pace of economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate, the Committee decided today to continue expanding its holdings of securities as announced in November. In particular, the Committee will is maintaining its existing policy of reinvesting principal payments from its securities holdings. In addition, the Committee and intends to purchase \$600 billion of longer-term Treasury securities by the end of the second quarter of 2011, a pace of about \$75 billion per month [, which, given the quantity of purchases thus far, implies a pace of about \$80 billion per month]. [The Committee will regularly review the pace of its securities purchases and the overall size of the asset-purchase program in light of incoming information and will adjust the program as needed to best foster maximum employment and price stability.] The Committee will continued its practice of regularly reviewing the pace of its securities purchases and the overall size of the asset-purchase program in light of incoming information, and will it remains prepared to adjust the program as needed to best foster maximum employment and price stability.]
- 4. The Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and continues to anticipate that economic conditions, including low rates of resource utilization, subdued inflation trends, and stable inflation expectations, are likely to warrant exceptionally low levels for the federal funds rate for an extended period.
- 5. The Committee will continue to monitor the economic outlook and financial developments and will employ its policy tools as necessary to support the economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate.

JANUARY FOMC STATEMENT—ALTERNATIVE C

- 1. Information received since the Federal Open Market Committee met in November December confirms that the economic recovery is continuing, though at a rate that has been insufficient to bring down unemployment about a significant improvement in labor market conditions. Growth in household spending is increasing at a moderate pace has picked up but remains constrained by high unemployment, modest income growth, lower housing wealth, and tight credit. Business spending on equipment and software is rising, though less rapidly than earlier in the year, while investment in nonresidential structures continues to be weak. and business investment is rising. However, employers remain reluctant to add to payrolls and the housing sector continues to be depressed. Although commodity prices have risen, longer-term inflation expectations have remained stable, but and measures of underlying inflation have been trending downward.
- 2. Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. Currently, the unemployment rate is elevated, and measures of underlying inflation are somewhat low, relative to levels that the Committee judges to be consistent, over the longer run, with its dual mandate. Although the Committee anticipates a gradual return to higher levels of resource utilization in a context of price stability, Progress toward the Committee's objectives has been disappointingly slow, but there are some indications that the economic recovery is strengthening.
- 3. To promote a stronger pace of economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate, the Committee decided today to continue expanding its holdings of securities. as announced in November. However, in light of incoming information, the Committee now intends to increase its holdings of securities by a total of \$400 billion—\$200 billion less than announced in November—by purchasing longer-term Treasury securities at a pace of about \$40 billion per month through the second quarter of 2011. The Committee will maintain its existing policy of reinvesting principal payments from its securities holdings. In addition, the Committee intends to purchase \$600 billion of longer term Treasury securities by the end of the second quarter of 2011, a pace of about \$75 billion per month. The Committee will regularly review the pace of its securities purchases and the overall size of the asset-purchase program in light of incoming information and will adjust the program as needed to best foster maximum employment and price stability.
- 4. The Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and continues to anticipate that economic conditions, including low rates of resource utilization, subdued inflation trends, and stable inflation expectations, are likely to warrant exceptionally low levels for the federal funds rate for an extended period.
- 5. The Committee will continue to monitor the economic outlook and financial developments and will employ its policy tools as necessary to support the economic recovery and to help ensure that inflation, over time, is at levels [of 2 percent or a bit less, which the Committee judges to be] consistent with its mandate.

JANUARY FOMC STATEMENT—ALTERNATIVE D

- 1. Information received since the Federal Open Market Committee met in November

 December confirms that the economic recovery is continuing. though at a rate that has been insufficient to bring down unemployment. Growth in household spending is increasing at a moderate pace has picked up but remains constrained by high unemployment, modest income growth, lower housing wealth, and tight credit. Business spending on equipment and software is rising, though less rapidly than earlier in the year, while investment in nonresidential structures continues to be weak. Employers remain reluctant to add to payrolls. The housing sector continues to be depressed. and business investment is rising. Measures of underlying inflation have trended lower in recent quarters and longer-term inflation expectations have remained stable, but measures of underlying inflation have continued to trend downward. commodity prices have risen noticeably.
- 2. Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. Currently, the unemployment rate is elevated, and measures of underlying inflation are somewhat low, relative to levels that the Committee judges to be consistent, over the longer run, with its dual mandate. Although the Committee anticipates a gradual return to higher levels of resource utilization in a context of price stability, progress toward its objectives has been disappointingly slow.
- 2. To promote a stronger pace of support the economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate, the Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and anticipates that economic conditions are likely to warrant low levels for the federal funds rate for some time. However, the Committee judges that a further expansion of its securities holdings is not necessary to support a gradual return to higher levels of resource utilization in a context of price stability. Accordingly, the Committee decided today to continue expanding discontinue the asset purchase program it its holdings of securities as announced in November. For the time being, the Committee will maintain its existing policy of reinvesting principal payments from its securities holdings. In addition, the Committee intends to purchase \$600 billion of longer term Treasury securities by the end of the second quarter of 2011, a pace of about \$75 billion per month. The Committee will regularly review the pace of its securities purchases and the overall size of the asset purchase program in light of incoming information and will adjust the program as needed to best foster maximum employment and price stability.
- 3. The Committee will maintain the target range for the federal funds rate at 0 to ¼ percent and continues to anticipate that economic conditions, including low rates of resource utilization, subdued inflation trends, and stable inflation expectations, are likely to warrant exceptionally low levels for the federal funds rate for an extended period.
- 3. The Committee will continue to monitor the economic outlook and financial developments and will employ its policy tools as necessary to support the economic recovery and to help ensure that inflation, over time, is at levels consistent with its mandate promote maximum employment and price stability.

January 2011 FOMC Directive — Alternative A

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability and promote sustainable growth in output. To further its long-run objectives, the Committee seeks conditions in reserve markets consistent with federal funds trading in a range from 0 to ½ percent. The Committee directs the Desk to execute purchases of longer-term Treasury securities in order to increase the total face value of domestic securities held in the System Open Market Account to approximately \$2.6 \$2.8 trillion by the end of June September 2011. The Committee also directs the Desk to reinvest principal payments from agency debt and agency mortgage-backed securities in longer-term Treasury securities. The System Open Market Account Manager and the Secretary will keep the Committee informed of ongoing developments regarding the System's balance sheet that could affect the attainment over time of the Committee's objectives of maximum employment and price stability.

January 2011 FOMC Directive — Alternative B

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability and promote sustainable growth in output. To further its long-run objectives, the Committee seeks conditions in reserve markets consistent with federal funds trading in a range from 0 to ¼ percent. The Committee directs the Desk to execute purchases of longer-term Treasury securities in order to increase the total face value of domestic securities held in the System Open Market Account to approximately \$2.6 trillion by the end of June 2011. The Committee also directs the Desk to reinvest principal payments from agency debt and agency mortgage-backed securities in longer-term Treasury securities. The System Open Market Account Manager and the Secretary will keep the Committee informed of ongoing developments regarding the System's balance sheet that could affect the attainment over time of the Committee's objectives of maximum employment and price stability.

January 2011 FOMC Directive — Alternative C

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability and promote sustainable growth in output. To further its long-run objectives, the Committee seeks conditions in reserve markets consistent with federal funds trading in a range from 0 to ¼ percent. The Committee directs the Desk to execute purchases of longer-term Treasury securities in order to increase the total face value of domestic securities held in the System Open Market Account to approximately \$2.6 \$2.4 trillion by the end of June 2011. The Committee also directs the Desk to reinvest principal payments from agency debt and agency mortgage-backed securities in longer-term Treasury securities. The System Open Market Account Manager and the Secretary will keep the Committee informed of ongoing developments regarding the System's balance sheet that could affect the attainment over time of the Committee's objectives of maximum employment and price stability.

January 2011 FOMC Directive — Alternative D

The Federal Open Market Committee seeks monetary and financial conditions that will foster price stability and promote sustainable growth in output. To further its long-run objectives, the Committee seeks conditions in reserve markets consistent with federal funds trading in a range from 0 to ¼ percent. The Committee directs the Desk to execute purchases of longer-term Treasury securities in order to increase maintain the total face value of domestic securities held in the System Open Market Account to at approximately \$2.6 \$2.2 trillion by the end of June 2011. The Committee also directs the Desk to by reinvesting principal payments from agency debt and agency mortgage-backed securities in longer-term Treasury securities. The System Open Market Account Manager and the Secretary will keep the Committee informed of ongoing developments regarding the System's balance sheet that could affect the attainment over time of the Committee's objectives of maximum employment and price stability.