Economic Advisory Panel Meeting November 5, 2010

Agenda:

Overview of Forecast and Risks (Dick Peach and Simon Potter)

Go-round on Monetary Policy



Forecast Overview

Dick Peach



FRBNY Outlook

November '10 (May '10)

Q4/Q4 growth rate	2009	2010	2011	2012
GDP	0.2 (0.1)	2.3 (3.0)	4.0 (4.3)	4.5
Core PCE Inflation	1.7 (1.5)	1.0 (0.9)	1.2 (1.4)	1.6
Unemployment (End of Period Level)	10.0 (10.0)	9.9 (10.1)	8.3 (8.4)	7.0
Personal Saving Rate (End of Period Level)	5.5 (3.9)	5.0 (3.3)	5.8 (4.8)	6.4

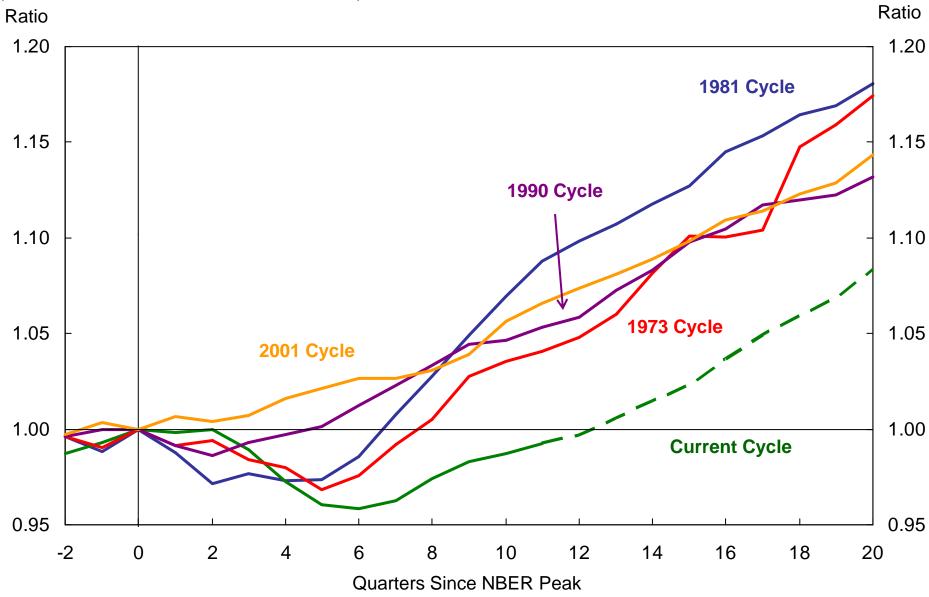
FRBNY Outlook

November '10 (May '10)

Q4/Q4 growth rate	2009	2010	2011	2012
GDP	0.2 (0.1)	2.3 (3.0)	4.0 (4.1)	4.5
Consumption	0.2 (1.0)	2.2 (2.8)	2.6 (2.7)	3.4
Residential Investment	-13.4 (-12.6)	-8.2 (-1.4)	21.2 (21.7)	20.0
Business Fixed Investment	-12.7 (-14.1)	10.1 (6.6)	7.6 (11.8)	9.4
Inventory Investment (Growth Contributions)	0.5 (0.1)	0.8 (0.5)	0.2 (0.2)	0.3
Net Exports (Growth Contributions)	1.2 (1.0)	-1.1 (-0.2)	0.5 (0.0)	0.4

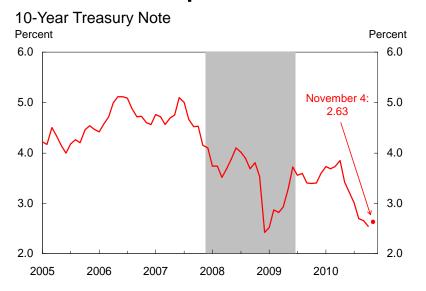
Level of Real GDP

(Series Set to 1.00 at NBER Peak)



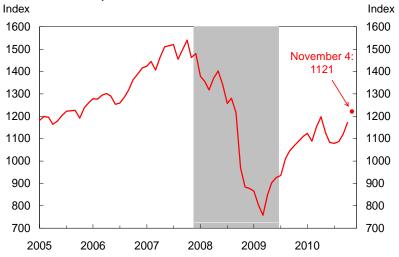
Source: Bureau of Economic Analysis

A General Improvement in Financial Conditions



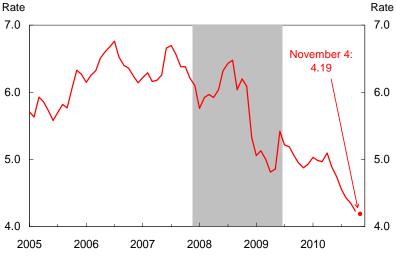
Source: Federal Reserve Board

S&P 500 Composite



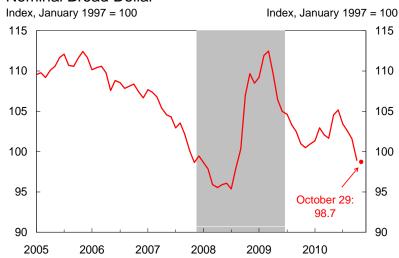
Source: Wall Street Journal

30-Year Conforming Mortgage



Source: Federal Reserve Board

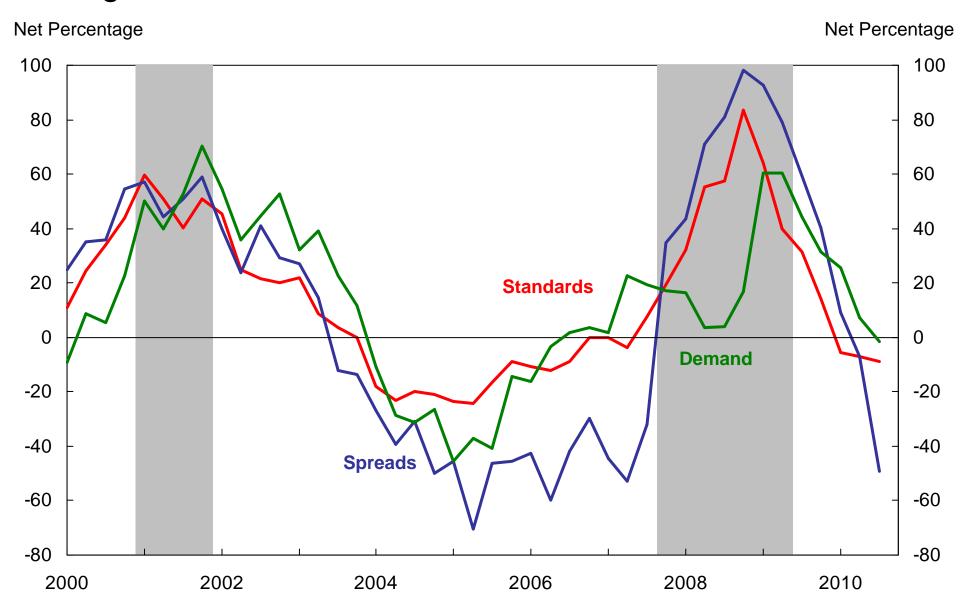
Nominal Broad Dollar



Source: Federal Reserve Board

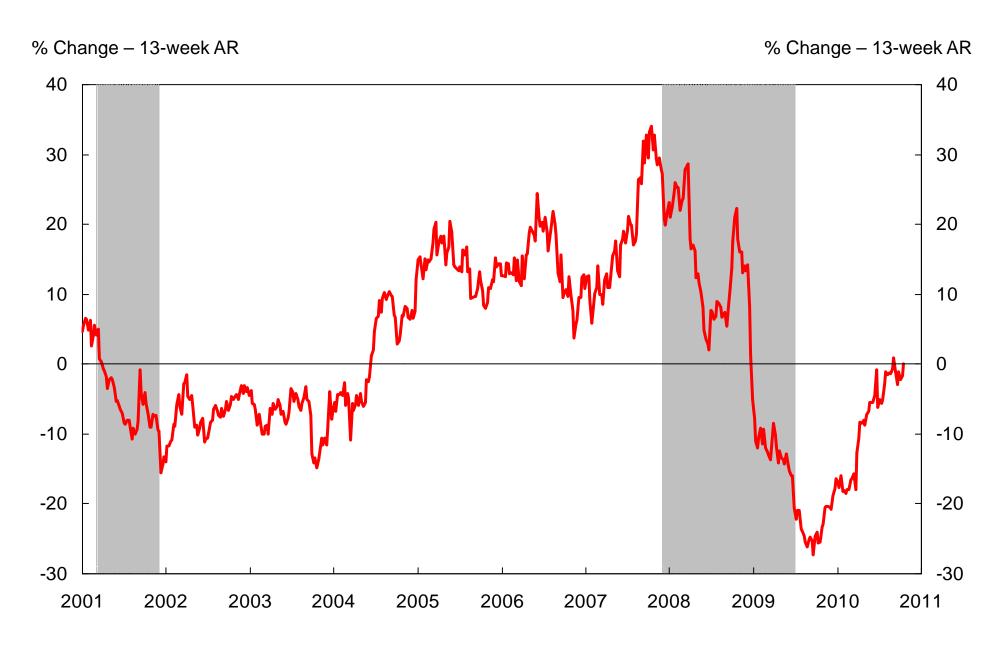
Note: Trade-Weighted.

Banks Tightening Terms and Standards for Business Loans to Large and Mid-Sized Firms



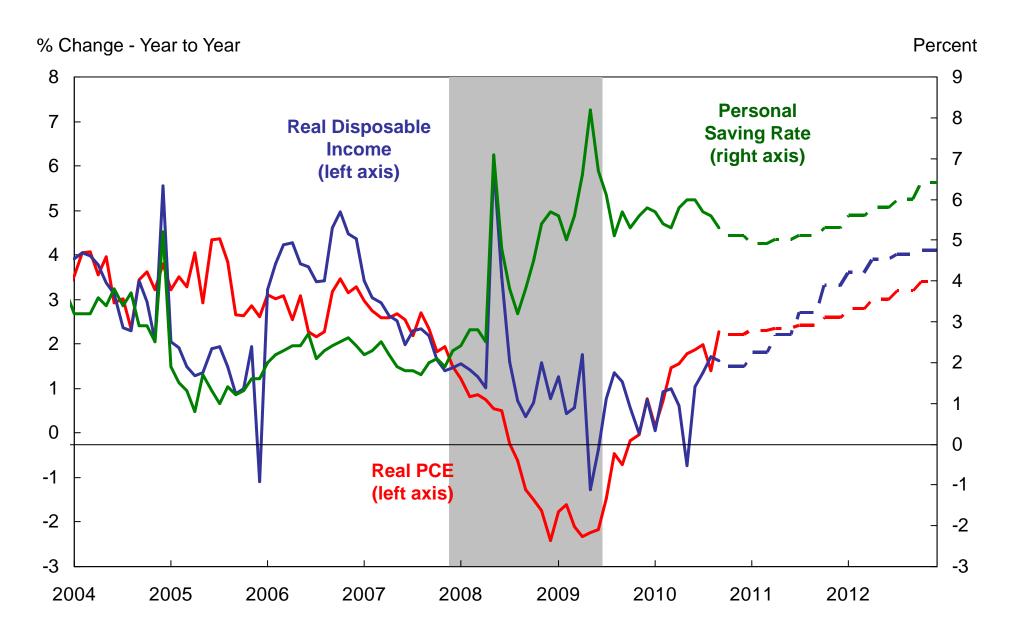
Source: FRB Senior Loan Officer Opinion Survey

C&I Loans: All Commercial Banks



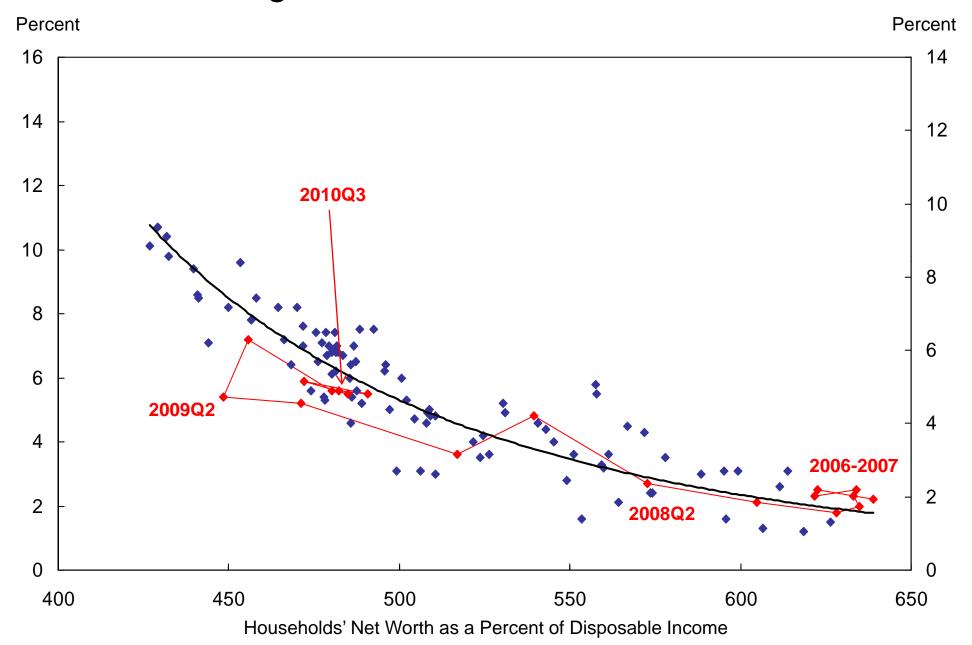
Source: Federal Reserve Board

Real PCE, Disposable Income and Personal Saving Rate



Source: Bureau of Economic Analysis

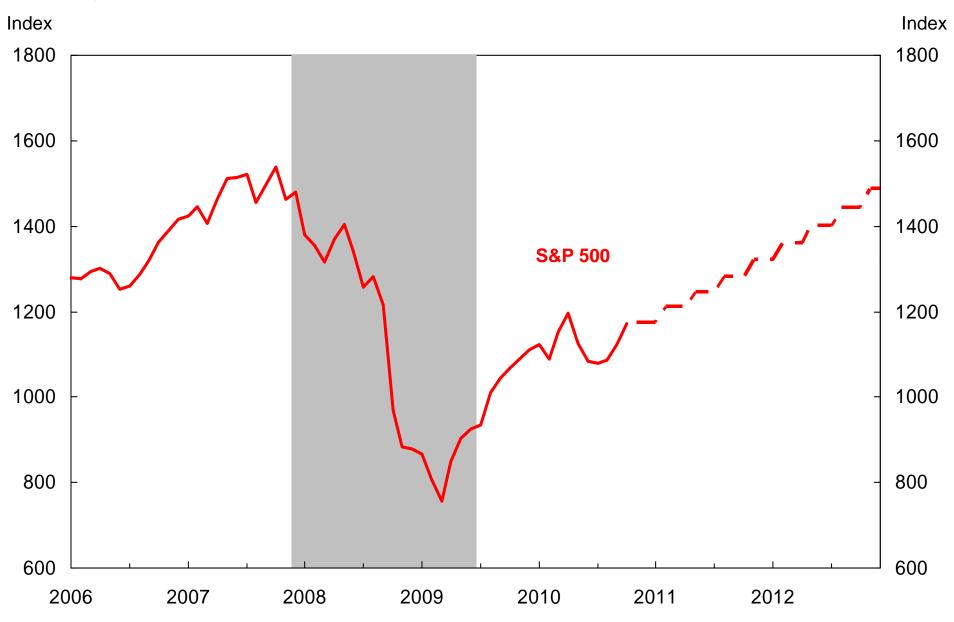
Personal Saving Rate and Household Net Worth



Source: Bureau of Economic Analysis and Federal Reserve Board Note:

Note: Fitted line is from 1983Q1 to 2005Q4.

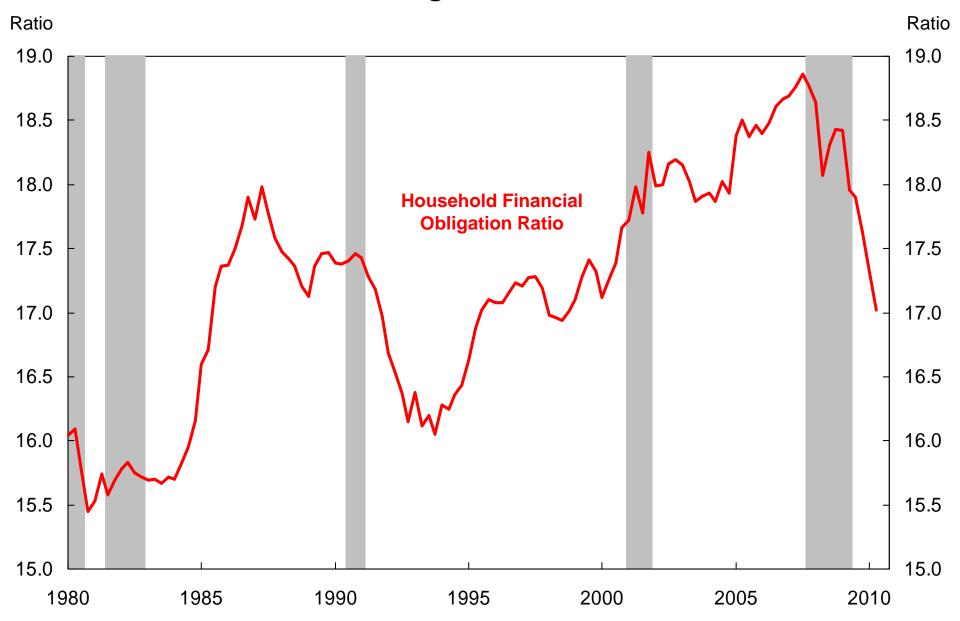
Equity Price Assumption



Note: Wall Street Journal and FRBNY

Note: Dashed line represents FRBNY assumption.

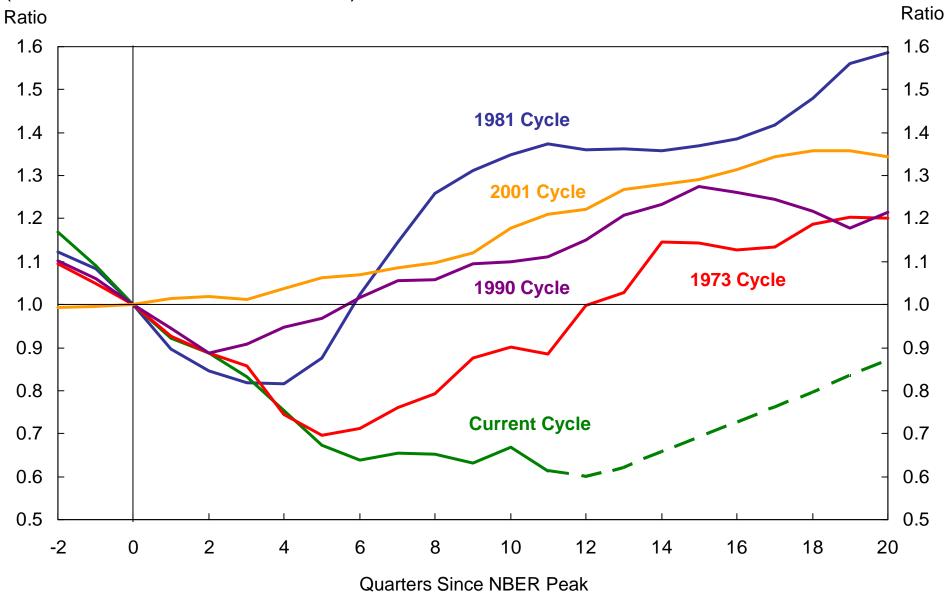
Household Financial Obligation Ratio



Source: Federal Reserve Board

Real Residential Investment

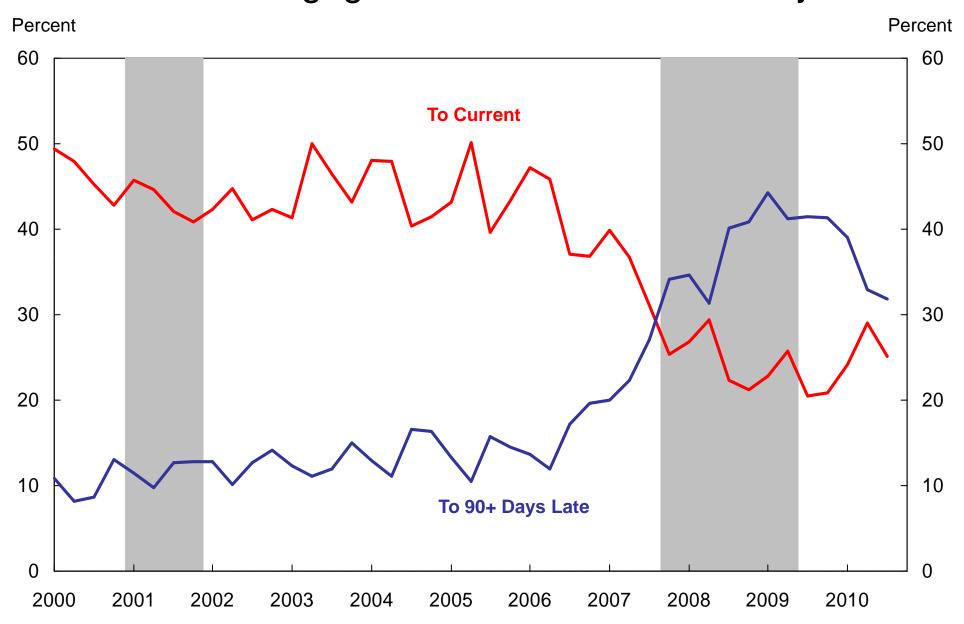
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Economic Analysis

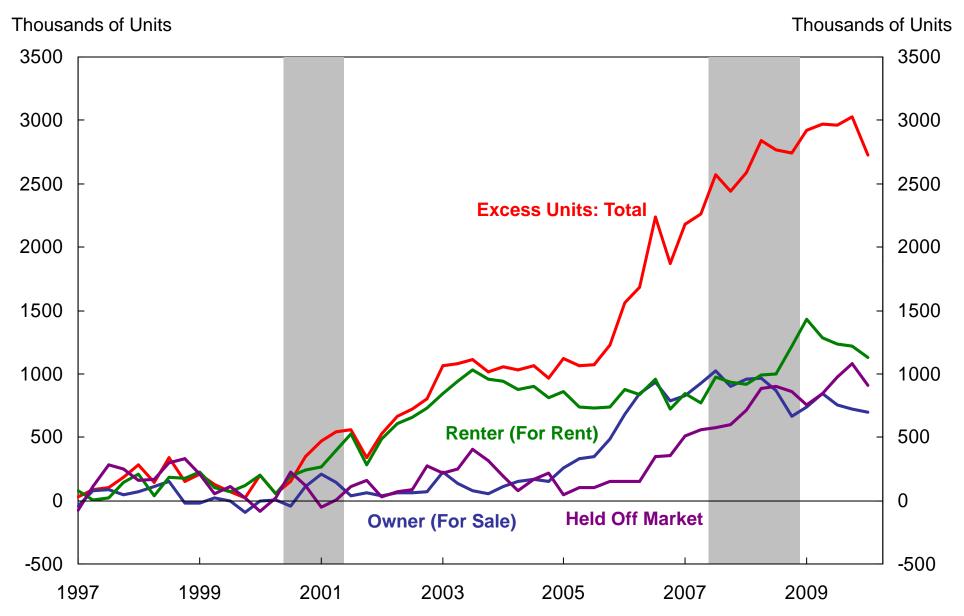
Note: Dashed line represents FRBNY forecast.

Transition of Mortgage Accounts from 30-60 Days Late



Source: FRBNY Equifax Panel Dataset

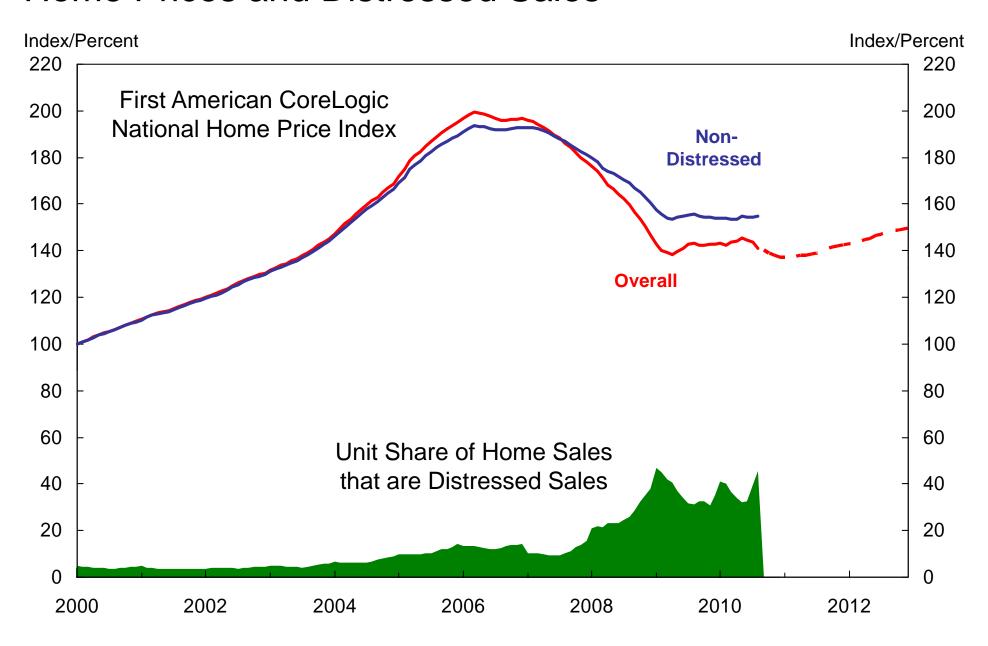
Excess Supply of Housing



Source: Federal Reserve Board

Note: Shading represents NBER recessions.

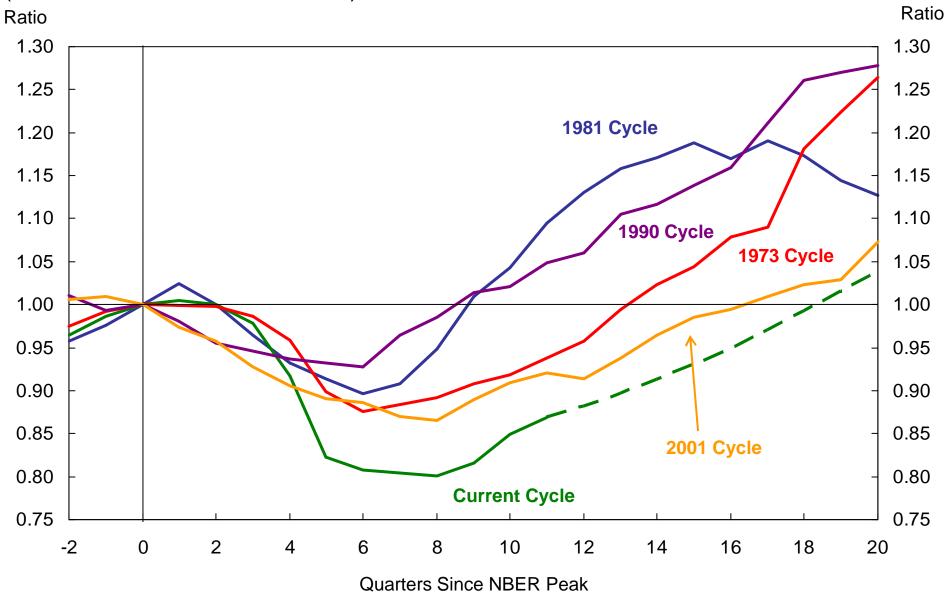
Home Prices and Distressed Sales



Source: First American CoreLogic

Real Business Fixed Investment

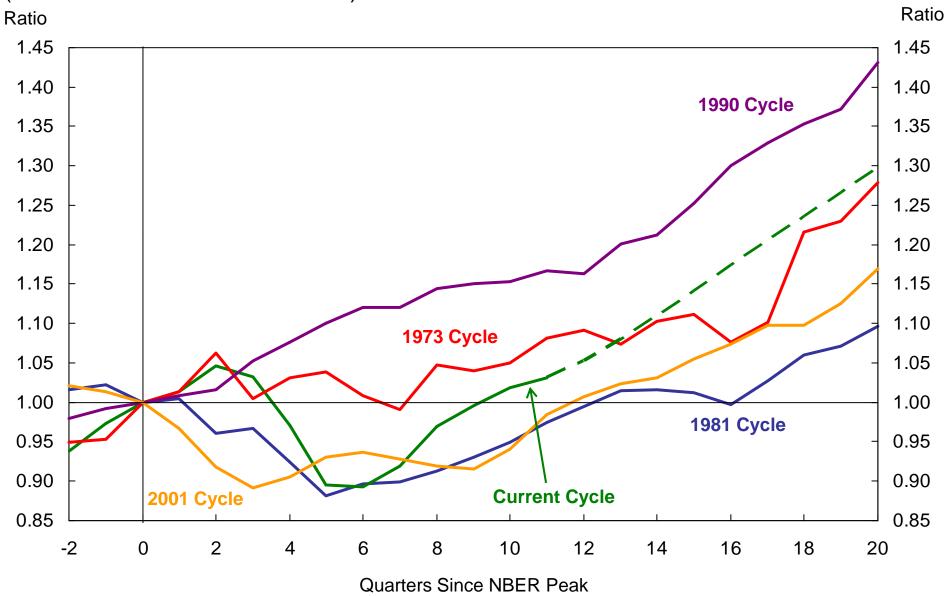
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Economic Analysis

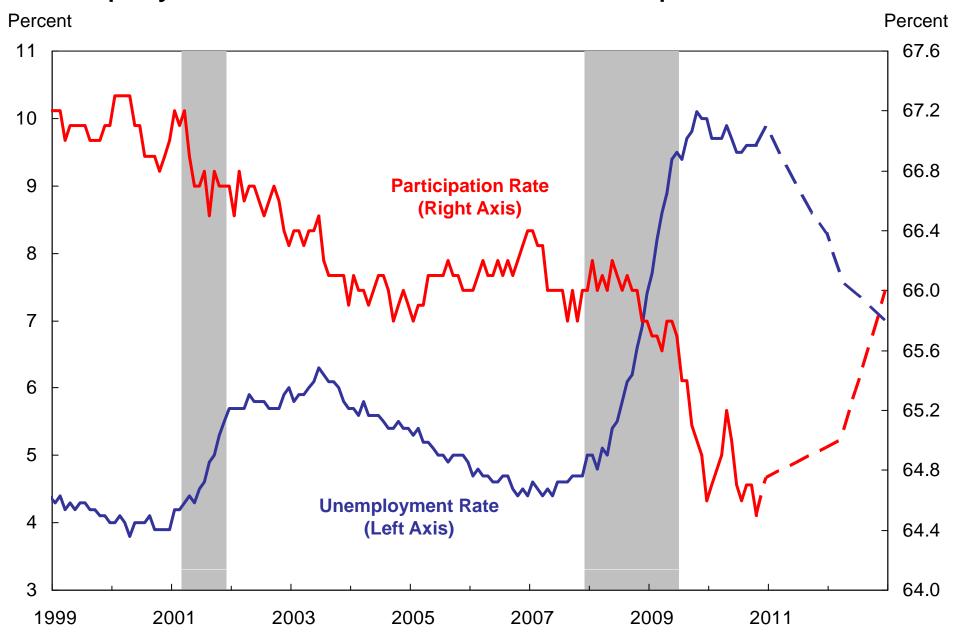
Real Exports

(Series Set to 1.0 at NBER Peak)



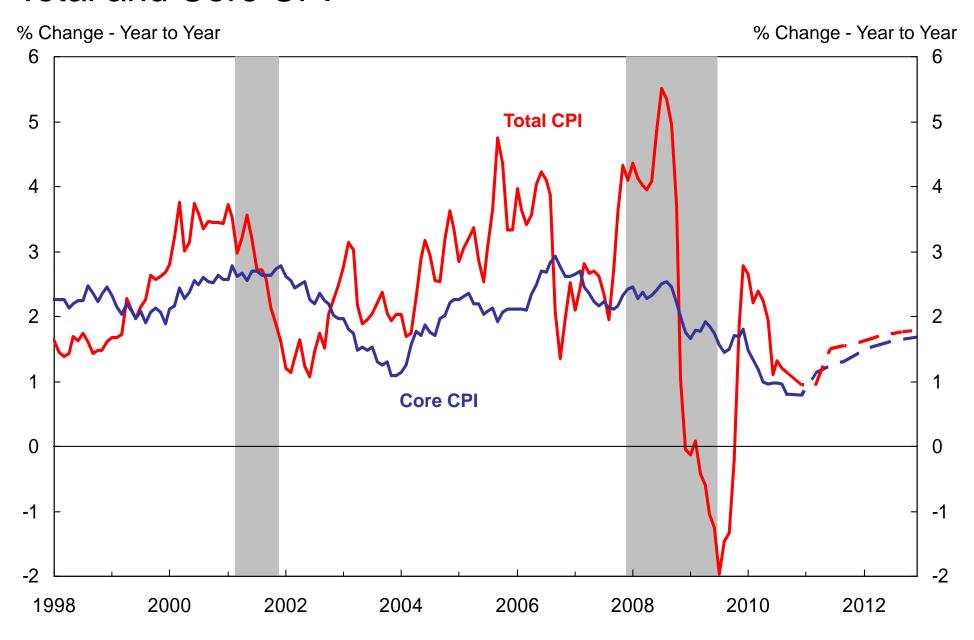
Source: Bureau of Economic Analysis

Unemployment and Labor Force Participation Rates



Source: Bureau of Labor Statistics

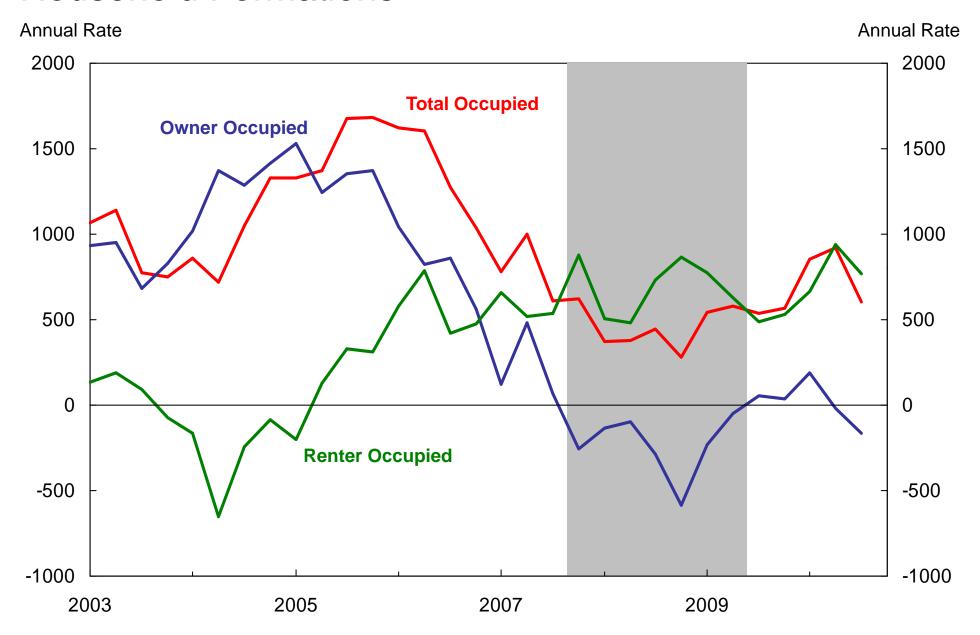
Total and Core CPI



Source: Bureau of Labor Statistics

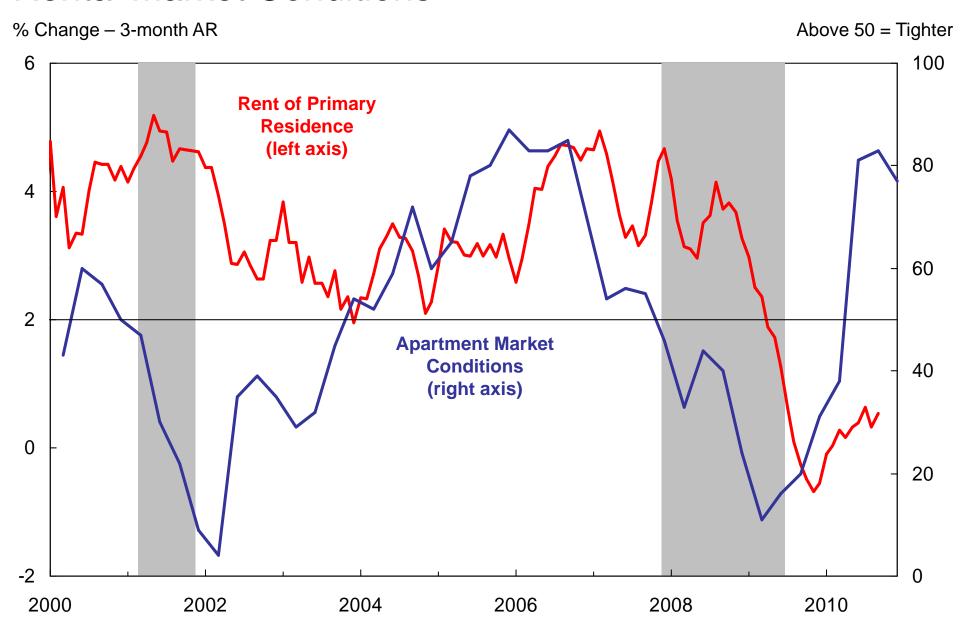
Note: Shading represents NBER recessions.

Household Formations



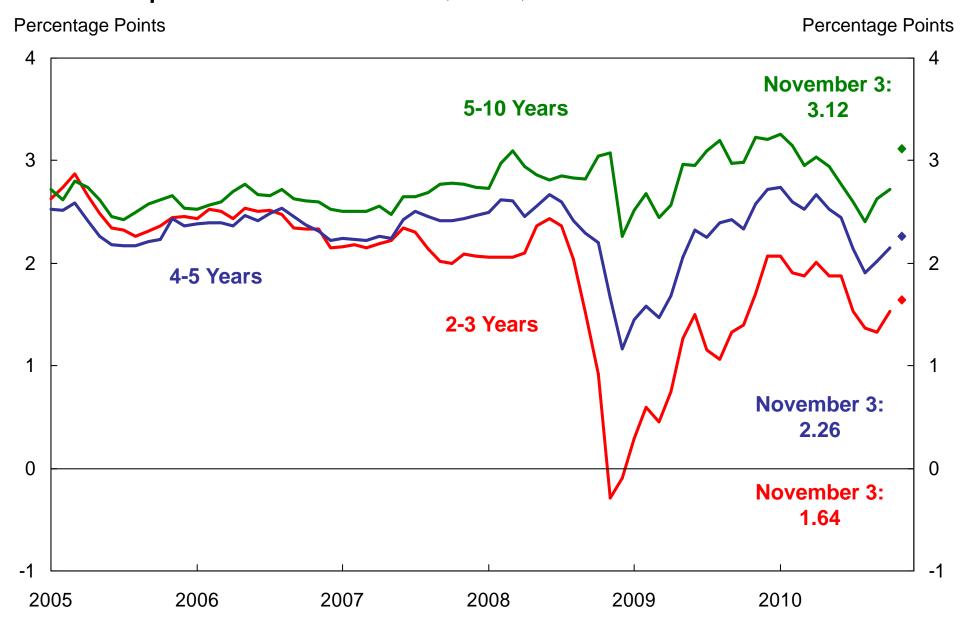
Source: Bureau of the Census

Rental Market Conditions



Source: Bureau of Labor Statistics, NMHC

TIPS Implied Inflation: 2-3, 4-5, and 5-10 Year Horizons



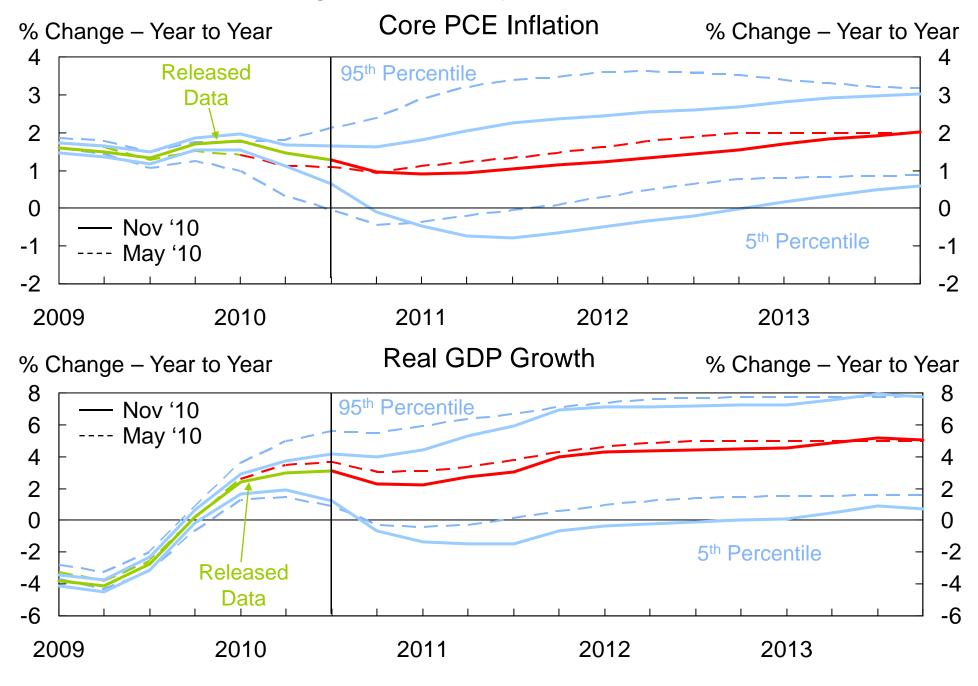
Source: Federal Reserve Board Note: Carry-adjusted.

Risks and Stance of Policy

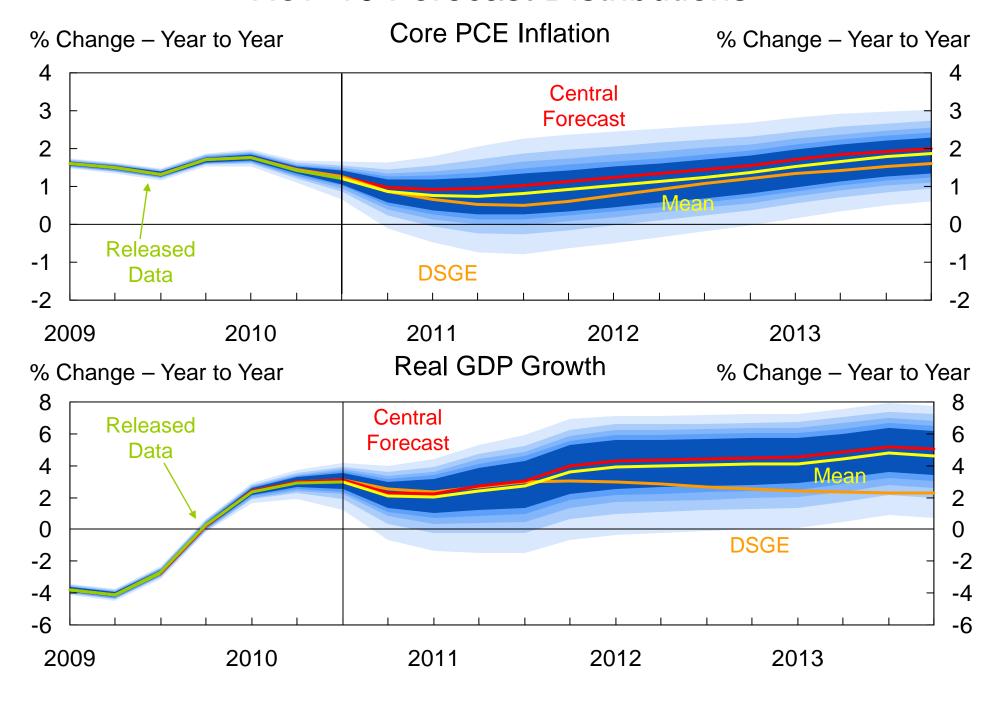
Simon Potter



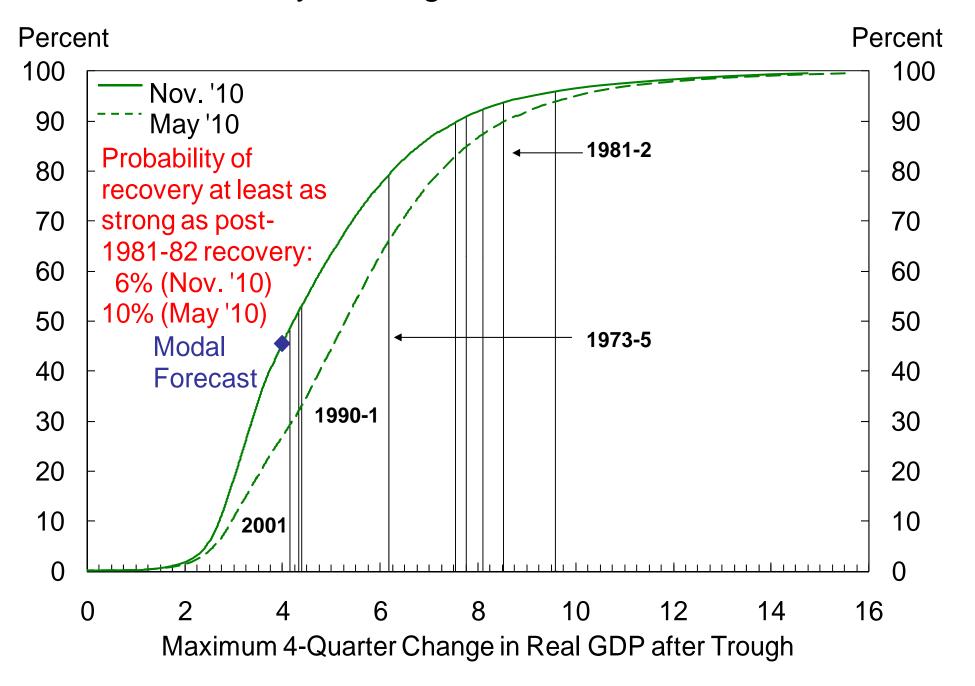
Change from May '10 to Nov '10



Nov '10 Forecast Distributions

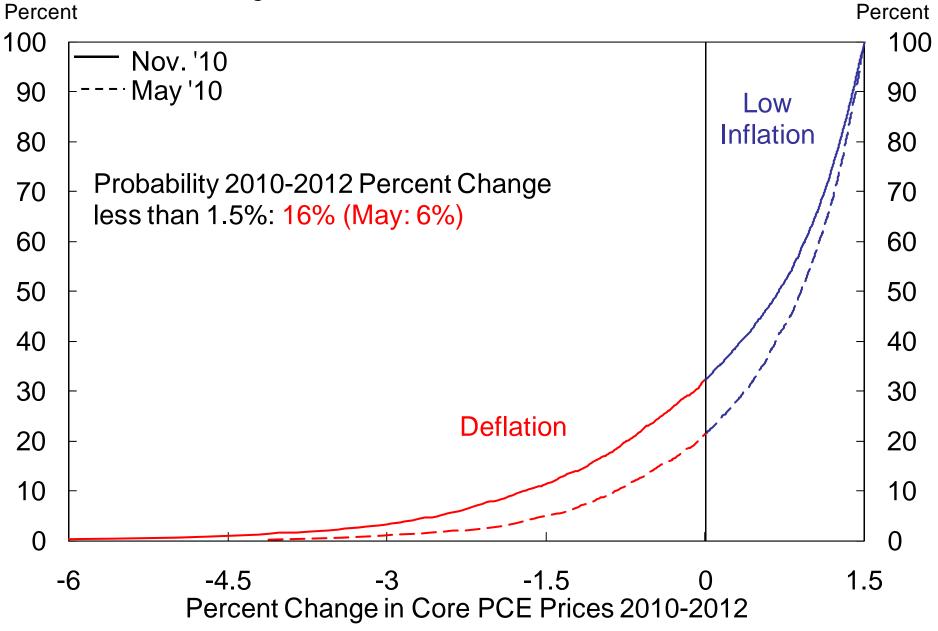


Scale of Recovery Through End of 2011



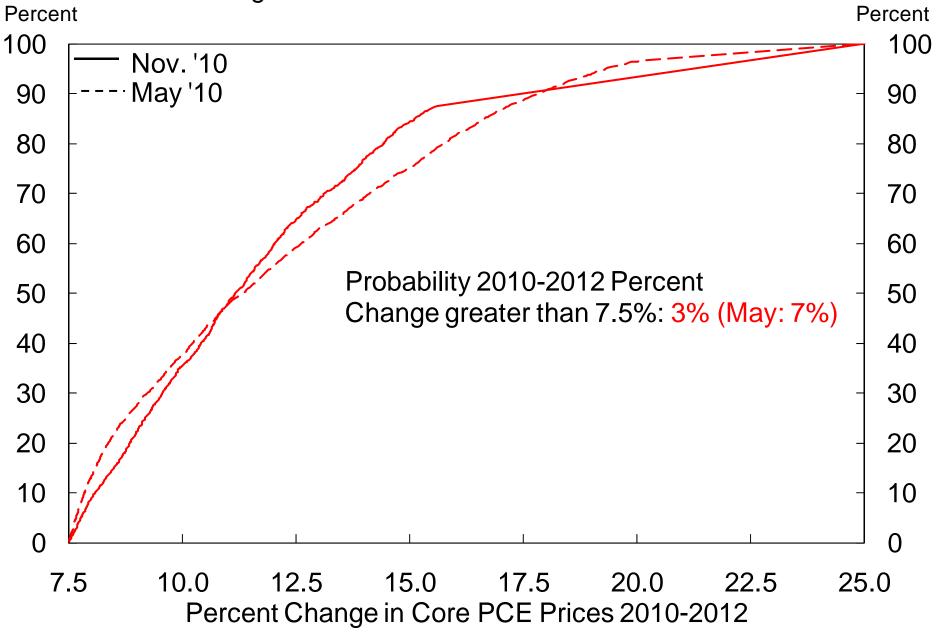
Large Downward Price Level Deviations

Conditional on Average Inflation Below 0.5%

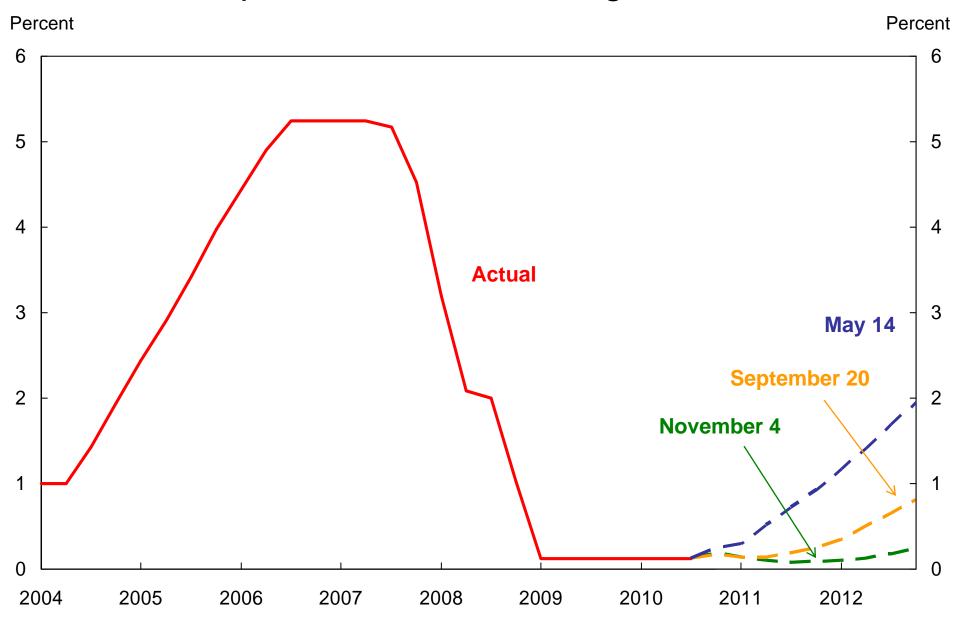


Large Upward Price Level Deviations

Conditional on Average Inflation Above 2.5%



Actual and Expected Fed Funds Target



Source: Federal Reserve Board

Current Stance of Policy

Policy Rule	Rate Prescription		
Taylor rule, Contemporaneous Feedback	-2.5 to 0		
Taylor rule, Forecast-Based	-2.0 to 0.5		
Taylor rule, Forecast-Based with Risks	-2.2 to 0.2		
Contemporaneous Difference Rule	0.1 decrease		
Forecast-Based Difference Rule	0.2 decrease		
Counterfactual with DSGE-VAR	0 to 0.25		
Counterfactual with DSGE	0 to 0.5		
Optimal Rate in DSGE with credit frictions	0		

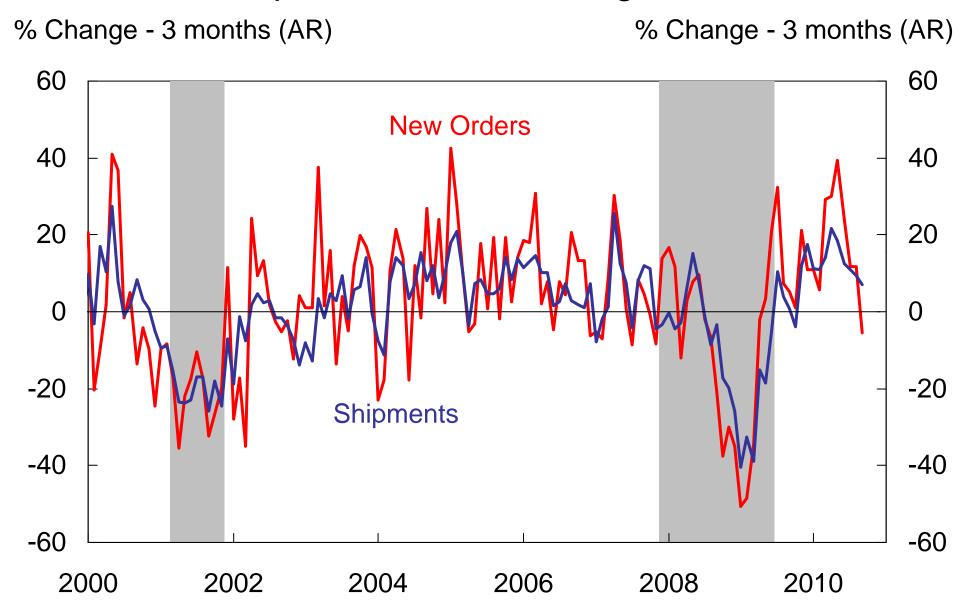
Consequences of New LSAP Program

Intended Consequences	Channels	Real Economy Effect	
Faster Recovery	Lower privately Lower real rate held duration risk Lower real rate Wealth effect	Point estimate: 0.2 to 0.3 on GDP growth	
Insurance	Confidence	Potentially very large given risks of a liquidity trap	
Possible Unintended Consequences	Channels	Mitigants	
Instability in Asset Valuations	Over-exuberant investors searching for yield	Intensive monitoring of valuations, leverage, and new products	
Destabilizing Capital Flows	Exchange rate interventions	Reforms to international financial system	
(Geo-) Political Risk	Appearance of monetization of debt	Robust exit procedures; clarification of framework	

Reference

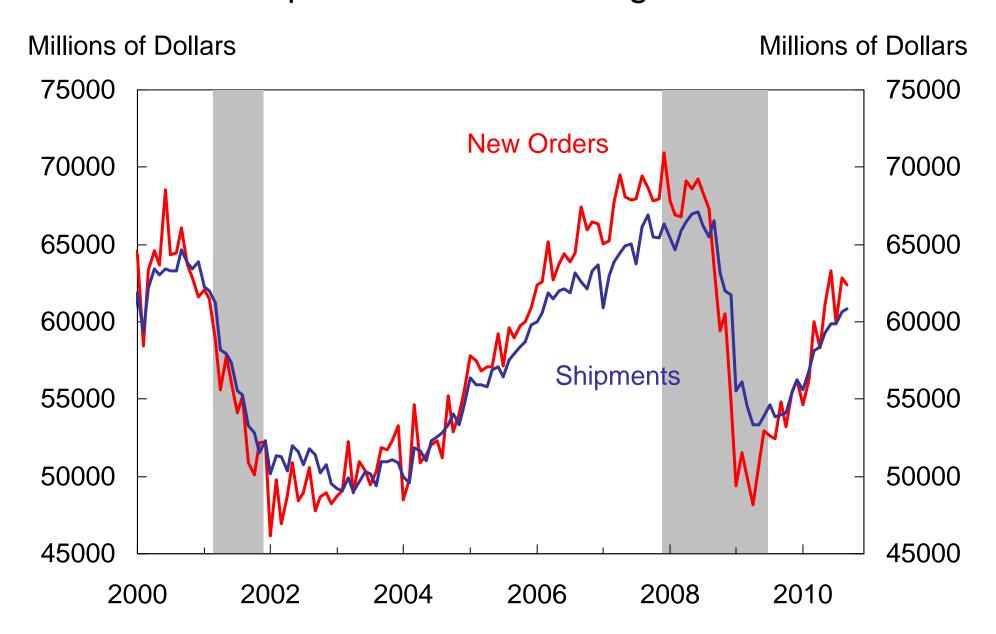


Nondefense Capital Goods Excluding Aircraft



Source: Census Bureau

Nondefense Capital Goods Excluding Aircraft



Source: Census Bureau

Manufacturers' New Orders

(current dollars)
(percent change at annual rate)

	24 Month	12 Month	6 Month	3 Month	1 Month
Total	-5.7	9.8	1.0	-1.5	-3.4
Durable Goods	-4.7	12.2	4.8	0.5	-10.8
Primary Metals	-7.4	28.4	5.1	-3.3	-19.0
Fabricated Metals	-4.3	8.5	2.6	6.3	16.8
Machinery	-6.0	26.0	29.0	-4.3	85.0
Computers and Electronic Products	3.1	14.8	21.6	9.8	53.0
Computers	3.1	14.8	21.6	9.8	53.0
Nondefense Communications	-2.5	4.5	36.6	231.7	305.3
Electrical Equipment	-4.9	12.4	17.7	9.8	47.7
Transportation Equipment	-7.1	8.1	-11.2	2.8	-66.7
Motor Vehicle Bodies, Parts, and Trailers	5.3	11.1	26.8	2.5	-35.6
Nondefense Aircrafts and Parts	-7.5	51.6	-68.3	-38.7	-98.6
Furniture	-9.9	3.9	1.1	-4.9	196.4
Nondurable Goods	-6.6	7.8	-2.3	-3.2	3.8
Topical Series					
Construction Materials and Supplies	-6.7	1.6	-1.4	-13.4	-5.4
Information Technology Equipment	2.2	14.2	22.8	13.4	77.2
Capital Goods	-3.7	19.2	-0.9	0.5	8.6
Nondefense Capital Goods	-4.2	23.5	3.8	6.0	12.9
Nondefense Capital Goods Ex. Aircraft	-3.4	19.8	24.8	11.7	74.9
Defense Capital Goods	-0.1	-4.2	-26.7	-29.7	-17.4
Consumer Goods	-7.2	7.2	-2.6	-1.6	-3.2
Durable Consumer Goods	-8.0	4.3	8.8	14.0	-34.9
Nondurable Consumer Goods	-7.1	7.8	-4.4	-4.0	3.7

Source: Census Bureau Note: Data through August 2010.

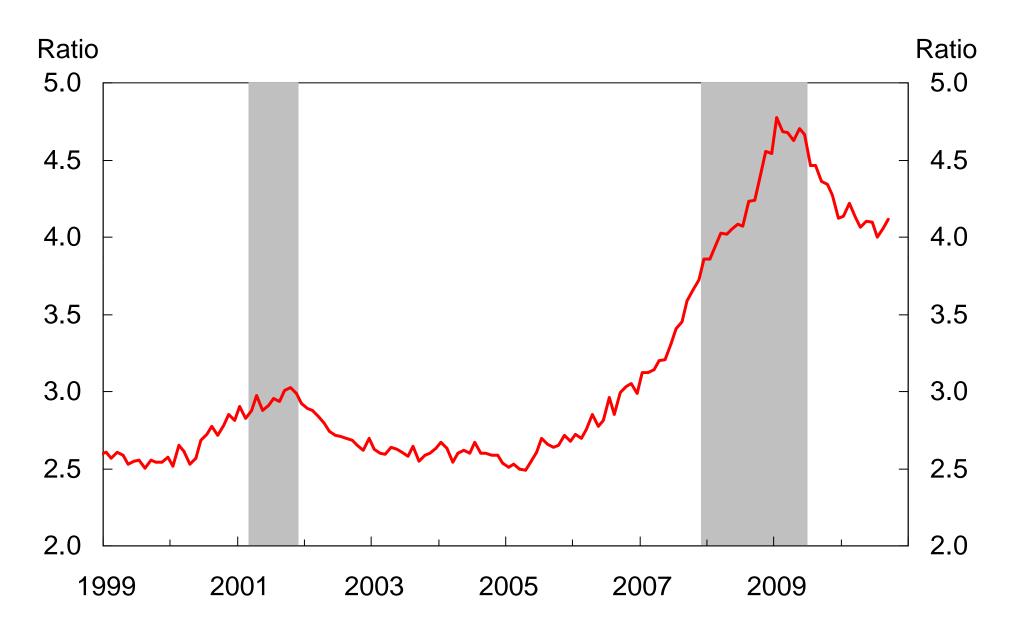
Manufacturers' Shipments

(current dollars)
(percent change at annual rate)

	24 Month	12 Month	6 Month	3 Month	1 Month
Total	-5.7	8.2	3.2	0.7	-6.0
Durable Goods	-4.6	8.8	9.7	5.2	-15.5
Primary Metals	-11.1	31.9	11.1	-3.8	7.5
Fabricated Metals	-4.9	6.2	4.6	-4.9	11.9
Machinery	-8.0	14.3	15.7	5.7	48.6
Computers and Electronic Products	3.0	10.8	17.4	19.8	-7.1
Computers	7.5	32.9	47.8	61.4	127.2
Nondefense Communications	-10.3	-9.5	-11.7	-21.8	-5.9
Electrical Equipment	-7.2	9.9	11.0	8.4	5.0
Transportation Equipment	-3.7	3.4	9.5	16.9	-55.3
Automobiles	-5.3	17.1	36.4	31.0	-40.9
Light Trucks	-15.2	0.7	27.9	48.2	-61.2
Heavy Trucks	7.0	15.9	-1.8	40.3	-6.4
Nondefense Aircrafts and Parts	-5.7	6.0	24.8	109.9	-82.4
Furniture	-9.4	2.0	3.7	-3.8	-7.3
Nondurable Goods	-6.6	7.8	-2.3	-3.2	3.8
Topical Series					
Construction Materials and Supplies	-7.0	1.2	-0.3	-16.7	-10.4
Information Technology Equipment	8.0	7.3	7.5	3.8	1.8
Capital Goods	-3.7	7.5	6.8	10.1	-13.4
Nondefense Capital Goods	-4.0	12.1	15.2	17.0	-8.6
Nondef. Capital Goods Ex. Aircrafts	-3.8	12.6	13.8	9.3	16.3
Defense Capital Goods	-1.0	-17.1	-33.2	-26.6	-40.1
Consumer Goods	-7.3	7.5	-2.1	-1.5	-2.5
Durable Consumer Goods	-8.2	5.7	12.9	15.4	-31.3
Nondurable Consumer Goods	-7.1	7.8	-4.4	-4.0	3.7

Source: Census Bureau Note: Data through August 2010.

Unfilled Orders/Shipments: Durable Goods



Auto Sales

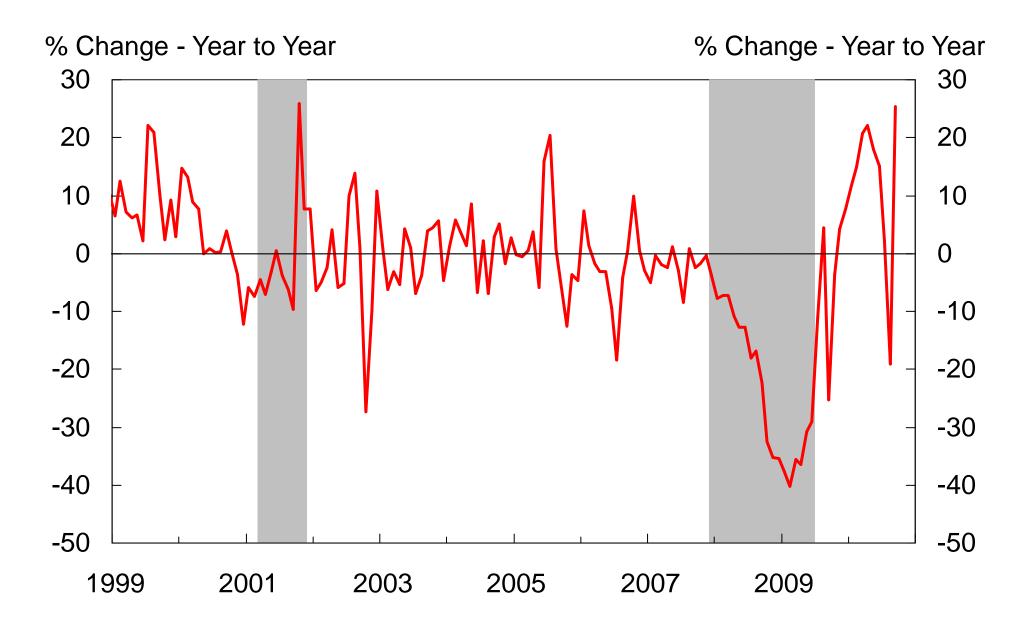
Light-Weight Vehicle Sales, Production, and Inventories (millions of units, SAAR)

	2009Q3	2009Q4	2010Q1	2010Q2	2010Q3
Sales					(to-date)
Total	11.6	10.8	11.0	11.4	11.6
Retail Auto	6.4	5.7	5.8	5.6	5.7
Domestic	4.2	3.8	3.9	3.8	3.6
Imported	2.2	1.9	1.9	1.9	2.1
Light Truck	5.2	5.1	5.2	5.7	5.9
Domestic	4.1	4.2	4.3	4.8	4.9
Imported	1.1	0.9	1.0	0.9	1.0
Total Domestic	8.4	8.1	8.2	8.6	8.5
Domestic Auto Inventories (units)*	734.0	747.9	769.1	838.1	875.9
Domestic Auto I-S Ratio (level)*	2.2	2.4	2.3	2.5	2.8
IP: Autos and Light Trucks (Index, 2002=100)*	62.6	68.9	71.5	72.5	81.2
Domestic Light Vehicle Production (units)*	6.4	7.1	7.4	7.5	8.0
North American Light Vehicle Production (units)*	9.7	10.8	11.7	12.3	12.6

Source: Bureau of Economic Analysis, Autodata Corporation

^{*} Based on data through August 2010.

Auto Sales



Source: Autodata Corporation

Consumer Price Index

(current dollars) (percent change at annual rate)

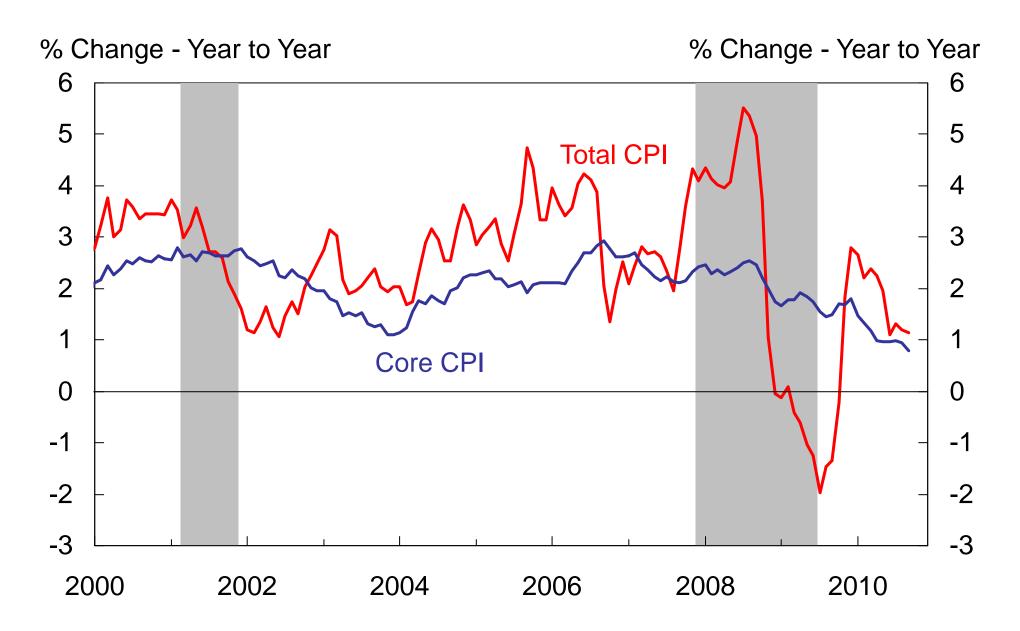
Consumer Price Data (percent change at an annual rate)

		December 2009)		24 Month 12 Month		3 Month	1 Month
Consumer Price Index	100.00		-0.1	1.1	0.6	2.7	1.2
Energy	8.55		-9.9	3.9	-3.8	24.5	8.2
All Items Ex. Energy	91.447		1.1	0.9	1.0	0.9	0.6
Food & Beverages	14.80		0.7	1.4	1.2	1.7	3.8
Food	13.74		0.6	1.4	1.1	1.6	3.9
Food at Home	7.80		-0.6	1.4	0.6	1.2	4.2
Food away from Home (NSA)	5.94		2.0	1.4	1.9	2.3	3.5
Alcoholic Beverages	1.06		1.8	1.2	2.1	3.0	2.5
All Items Ex. Food and Energy	77.709	100.00	1.1	0.8	1.0	0.7	0.0
Core Chain-Weight CPI (NSA)			0.8	0.5	0.5	0.8	1.8
Core Goods	21.28	27.38	1.1	0.7	0.1	0.3	-2.9
Apparel	3.70	4.75	-0.1	-1.2	0.2	-0.9	-7.3
Medical Care Commodities	1.61	2.07	3.4	2.6	1.1	1.2	3.6
Durable Goods	9.98	12.84	0.5	1.6	0.3	0.7	-3.3
New Vehicles	3.57	4.60	1.9	2.1	1.3	2.2	1.5
Used Vehicles	2.01	2.59	4.9	12.9	4.9	3.3	-7.6
Tobacco and Smoking Prods.	0.87	1.12	17.4	6.8	9.5	9.0	1.6
Core Services	56.43	72.62	1.1	0.8	1.4	0.9	1.1
Rent of Primary Residence	5.97	7.68	0.9	0.2	0.5	0.5	1.6
Owners' Equivalent Rent	25.21	32.44	0.6	-0.1	0.4	0.5	0.4
Lodging Away from Home	0.77	0.99	-2.9	1.4	8.1	-5.1	-2.4
Medical Care Services	4.90	6.31	3.5	3.7	3.3	3.9	9.4
Transportation Services	6.06	7.80	2.5	3.0	2.3	1.3	3.4
Other Services	11.35	14.60	2.0	1.5	1.8	0.5	-2.1

Source: Bureau of Labor Statistics

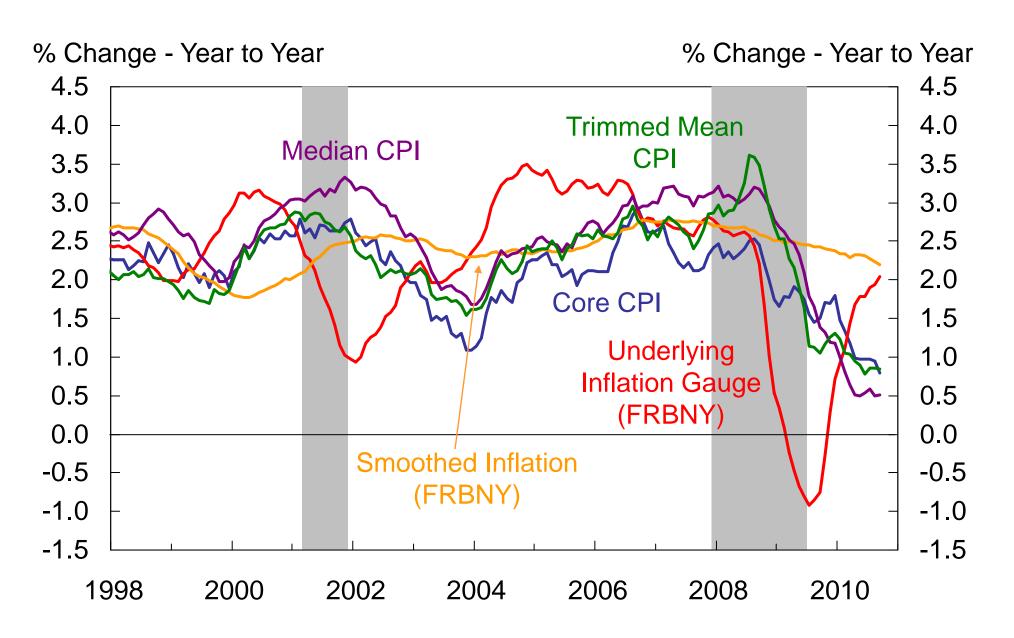
Note: Data through September 2010.

Total and Core CPI Deflator



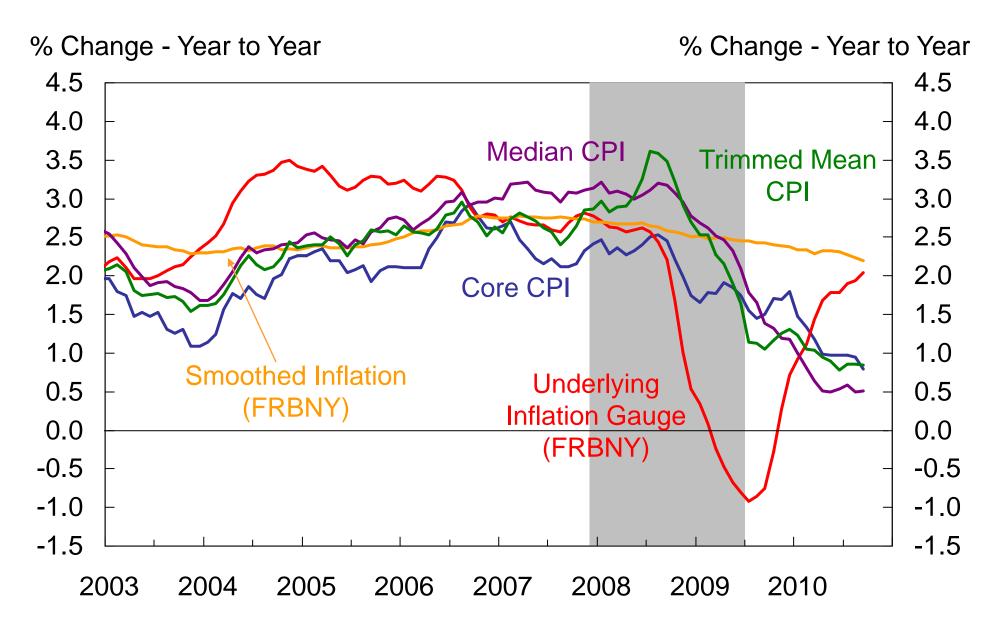
Source: Bureau of Labor Statistics

Measures of CPI Inflation since 1998



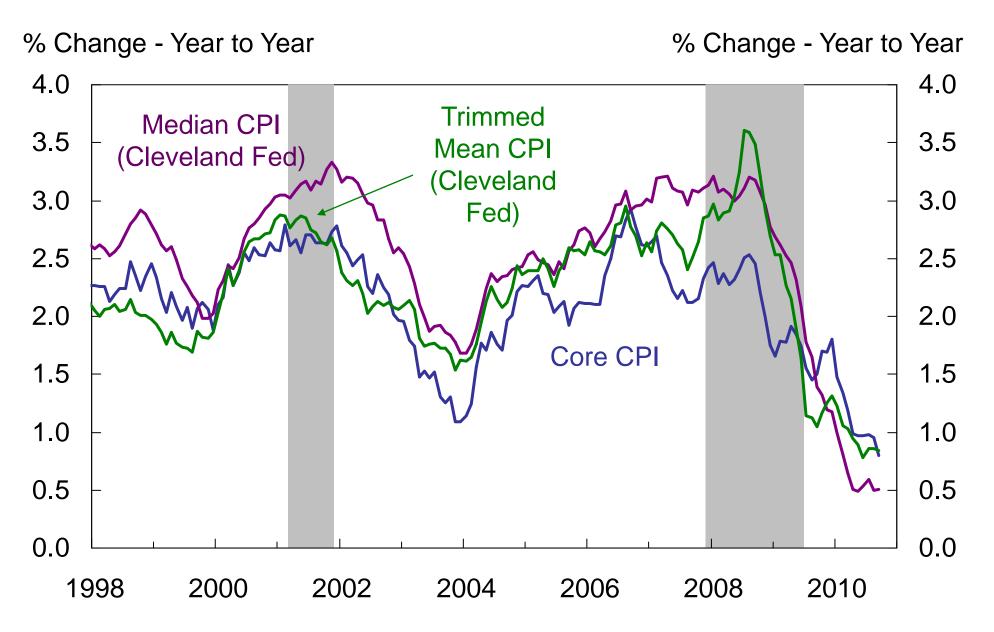
Source: Bureau of Labor Statistics and FRBNY

Measures of CPI Inflation since 2003



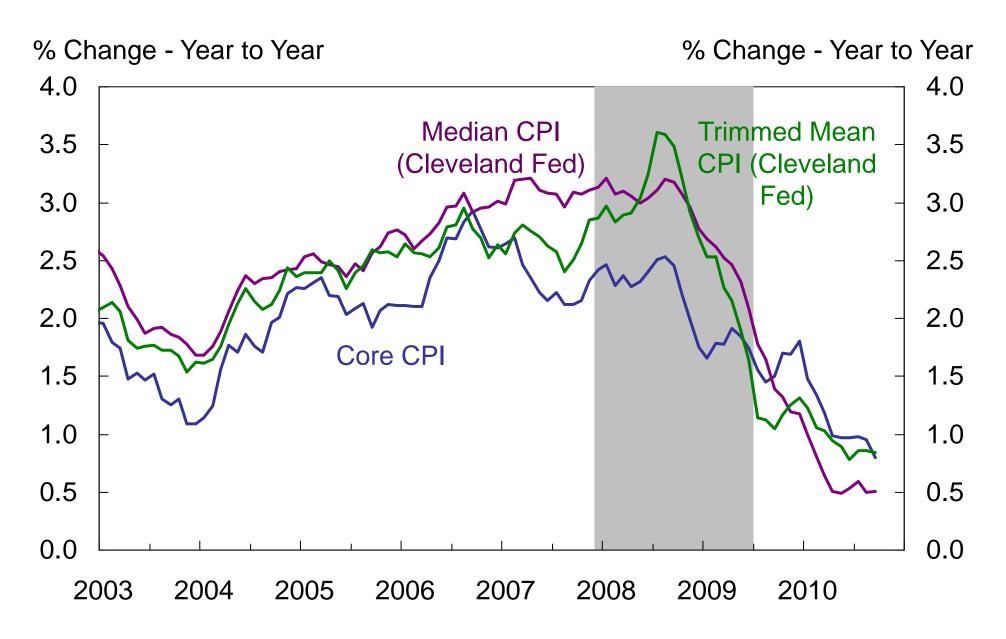
Source: Bureau of Labor Statistics and FRBNY

Measures of CPI Inflation Since 1998



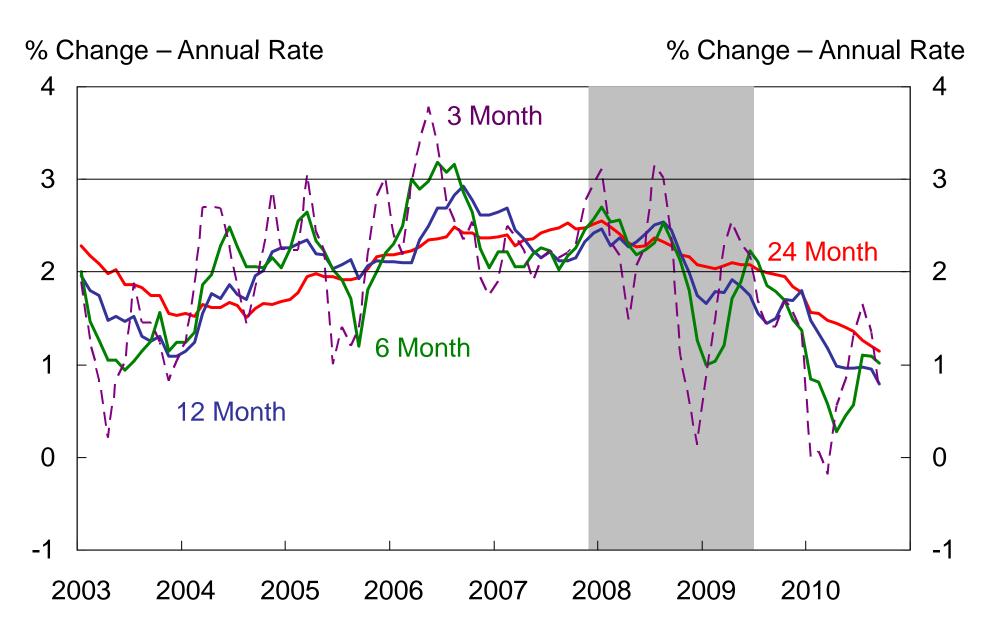
Source: Bureau of Labor Statistics and Cleveland Fed

Measures of CPI Inflation Since 2003



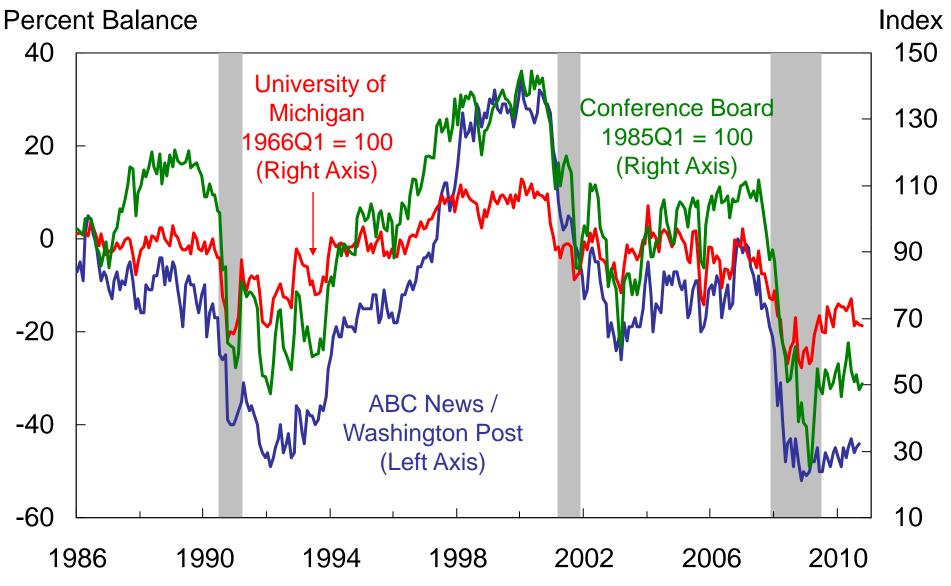
Source: Bureau of Labor Statistics and Cleveland Fed

Core CPI Inflation over Various Horizons



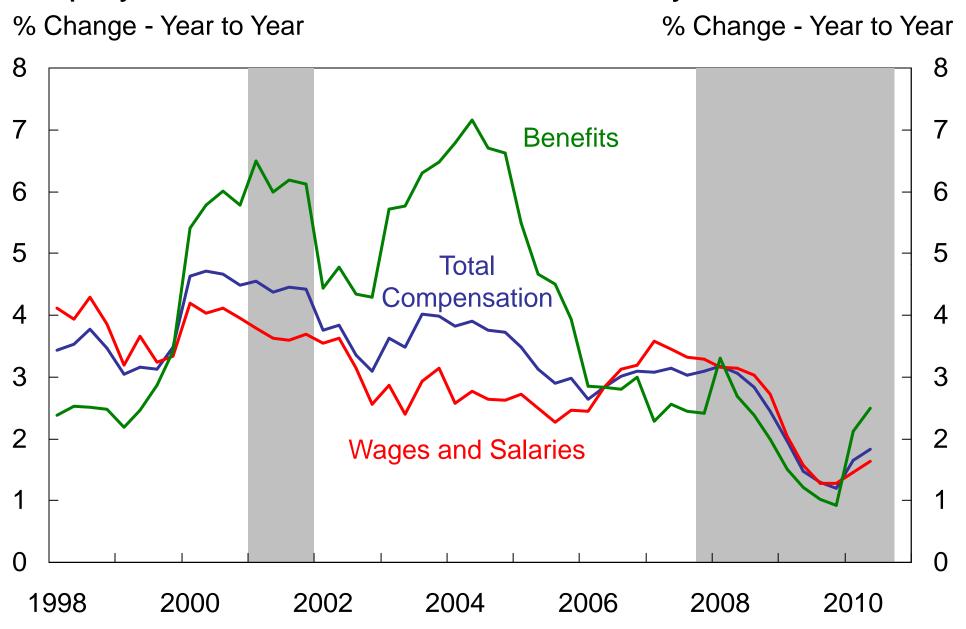
Source: Bureau of Labor Statistics

Consumer Confidence/Sentiment Indices



Source: University of Michigan, ABC News, Washington Post, and the Conference Board

Employment Cost Index: Private Industry Workers

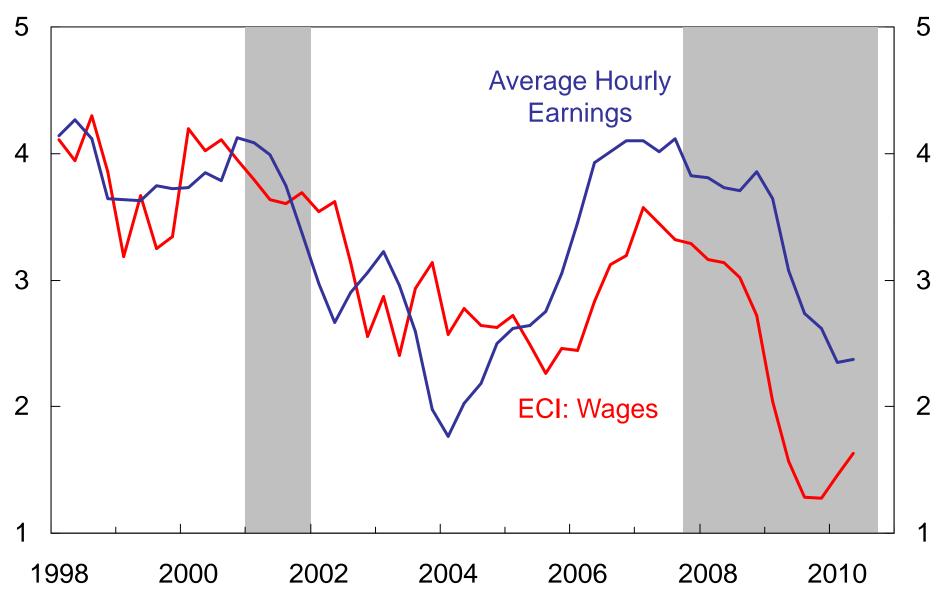


Source: Bureau of Labor Statistics

Wages and Earnings: Total Private Industries

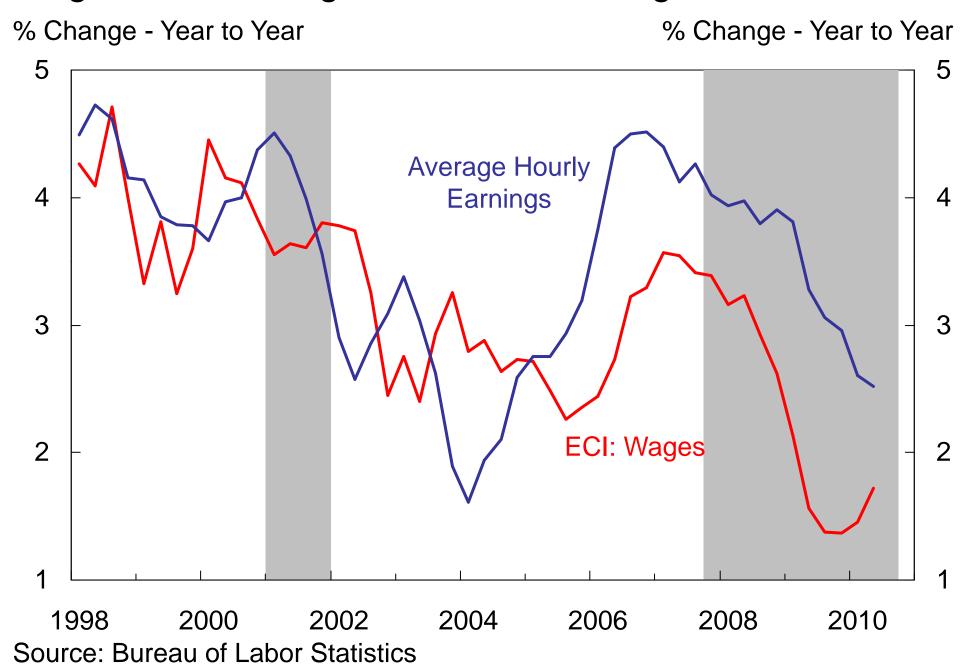
% Change - Year to Year

% Change - Year to Year

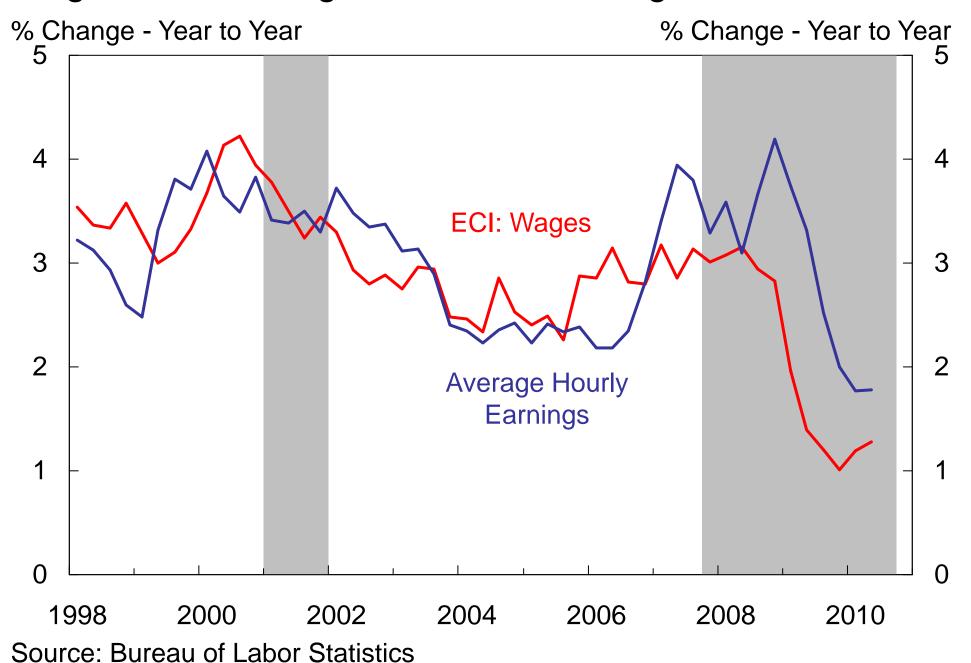


Source: Bureau of Labor Statistics

Wages and Earnings: Service-Providing Industries



Wages and Earnings: Goods-Producing Industries



Nonfarm Payroll Employment

Annualized Growth of Nonfarm Payroll Employment (percent change at an annual rate)

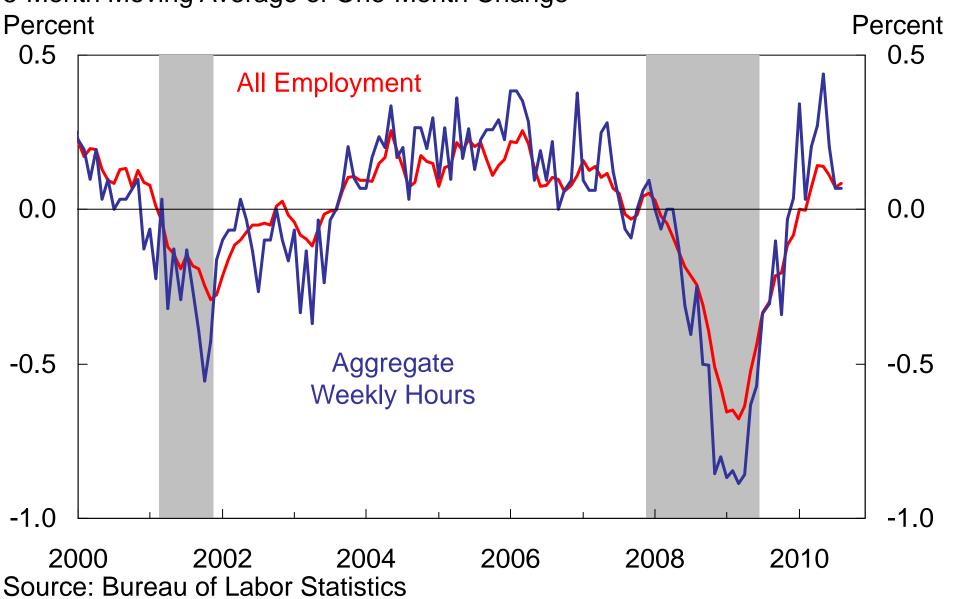
	24 Month	12 Month	6 Month	3 Month	1 Month
Total	-2.3	0.3	0.5	-0.7	-0.9
Private	-2.6	0.6	1.2	1.0	0.7
Goods-Producing	-7.6	-0.6	1.3	0.6	-1.5
Construction	-10.8	-3.6	-0.3	0.6	-4.4
Manufacturing	-6.2	0.3	1.4	-0.1	-0.6
Durables	-7.4	0.9	2.3	0.6	0.0
Nondurables	-4.3	-0.6	-0.1	-1.1	-1.6
Private Service Providing	-1.5	0.8	1.2	1.1	1.2
Wholesale Trade	-2.8	0.2	0.6	0.6	0.5
Retail Trade	-2.4	0.1	0.1	0.4	0.5
Transportation and Warehousing	-3.2	0.4	2.6	2.4	2.8
Utilities	-0.8	-1.8	-2.6	-3.1	-4.3
Information	-4.4	-2.4	-1.2	0.0	-2.2
Financial Activities	-3.3	-1.4	-0.8	-0.7	-0.2
Professional and Business Services	-2.5	2.4	2.0	0.9	1.0
Temporary Help Services	-3.2	23.4	10.1	5.4	10.0
Education and Health Services	1.7	1.9	1.7	1.6	1.0
Leisure and Hospitality	-0.8	0.5	1.8	2.1	3.5
Food and Drinking Places	-0.5	0.7	1.0	1.9	4.4
Other Services	-1.3	0.4	1.6	2.6	1.6
Government	-0.7	-1.1	-2.4	-8.4	-8.2
Federal Government	1.3	0.9	-4.6	-35.5	-27.1
State Government	-0.5	-0.6	-1.3	-1.5	-1.6
Local Government	-1.2	-1.7	-2.4	-3.9	-6.2

Source: Bureau of Labor Statistics

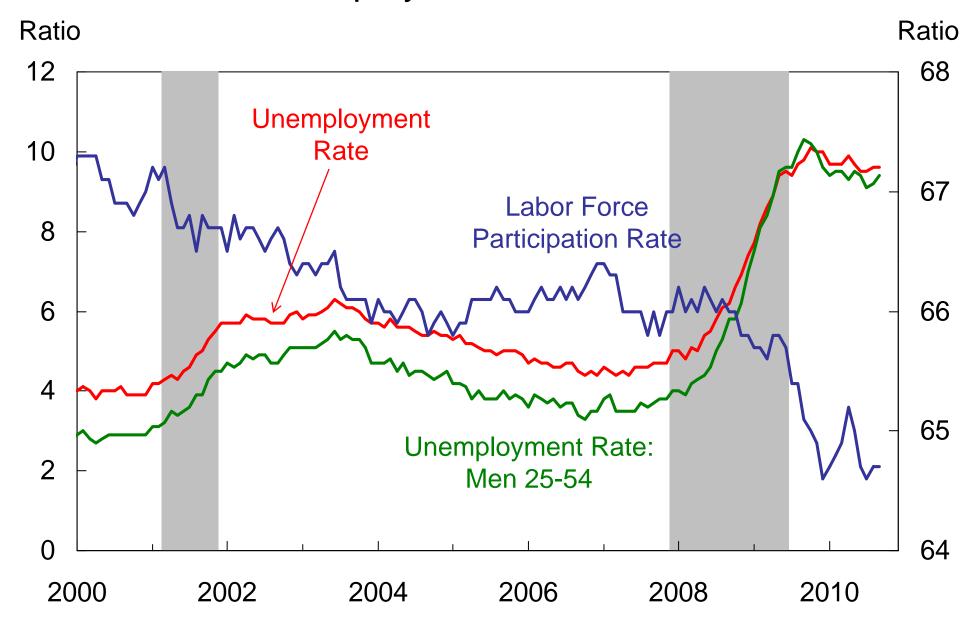
Note: Data through September 2010.

Private Nonfarm Payroll Employment and Total Hours Worked

3-Month Moving Average of One-Month Change

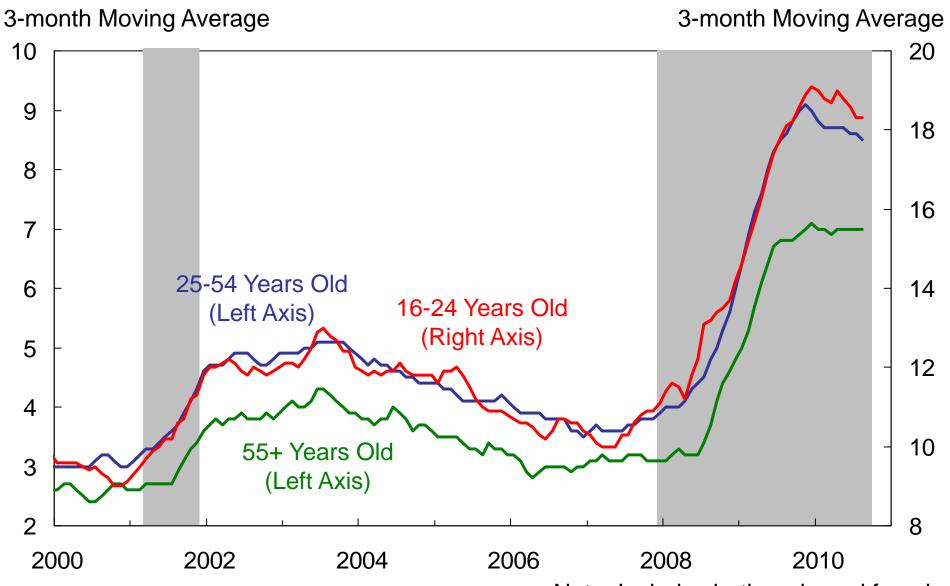


Measures of the Employment Situation



Source: Bureau of Labor Statistics

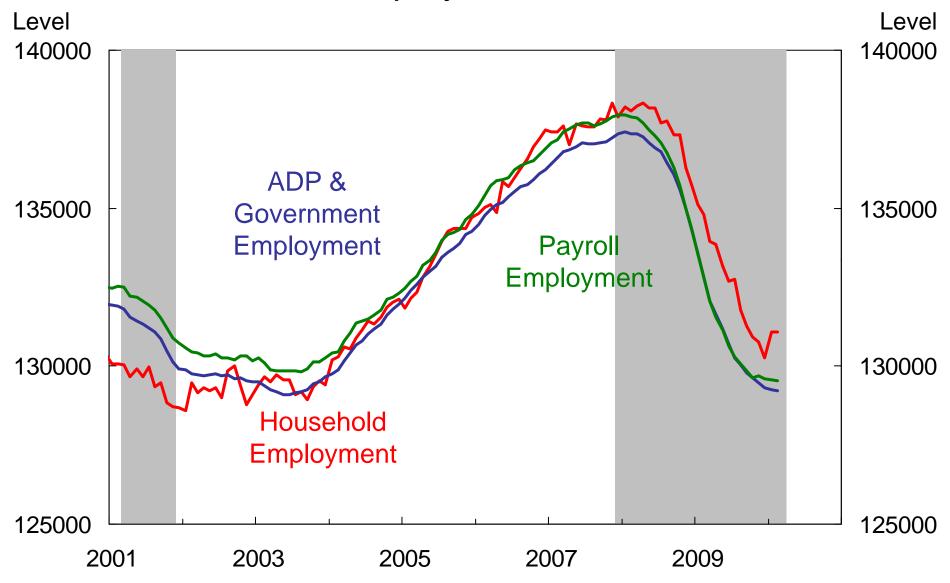
Total Unemployment Rate by Age Group



Source: Bureau of Labor Statistics

Note: Includes both male and female labor force participants.

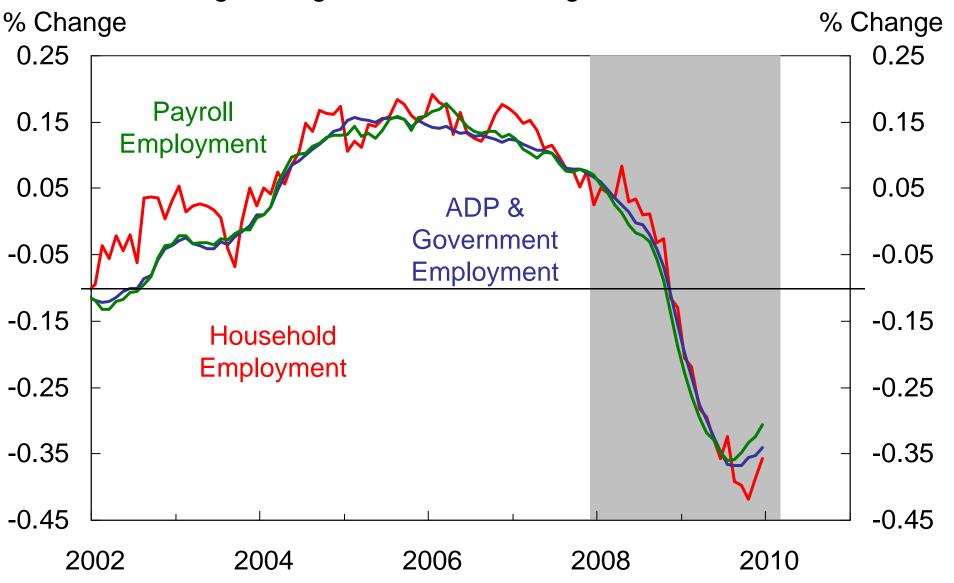
Three Measures of Employment



Source: ADP and Bureau of Labor Statistics

Three Measures of Employment

12-month moving average of 1-month changes

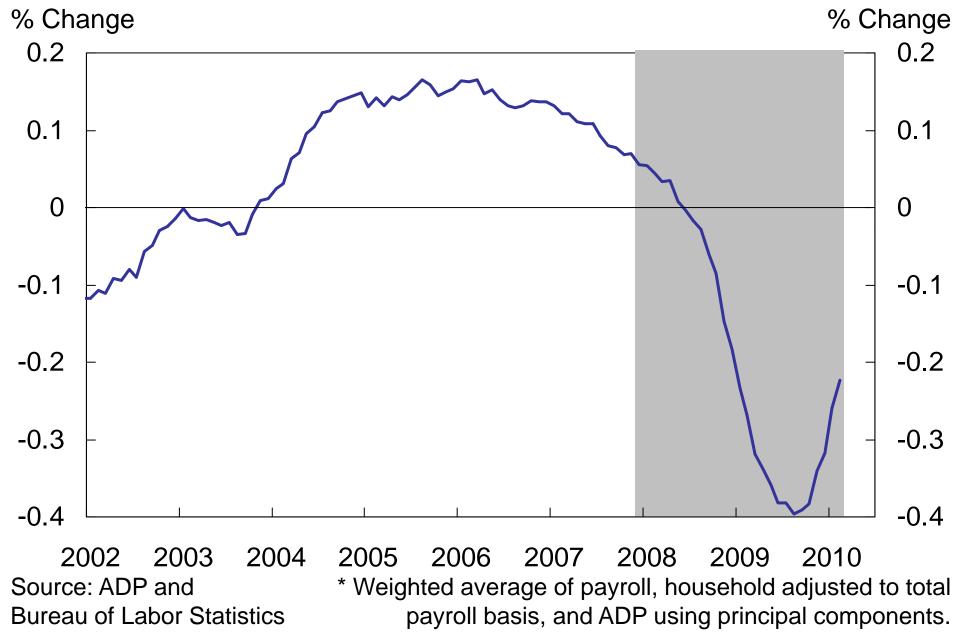


Source: ADP and Bureau of Labor Statistics

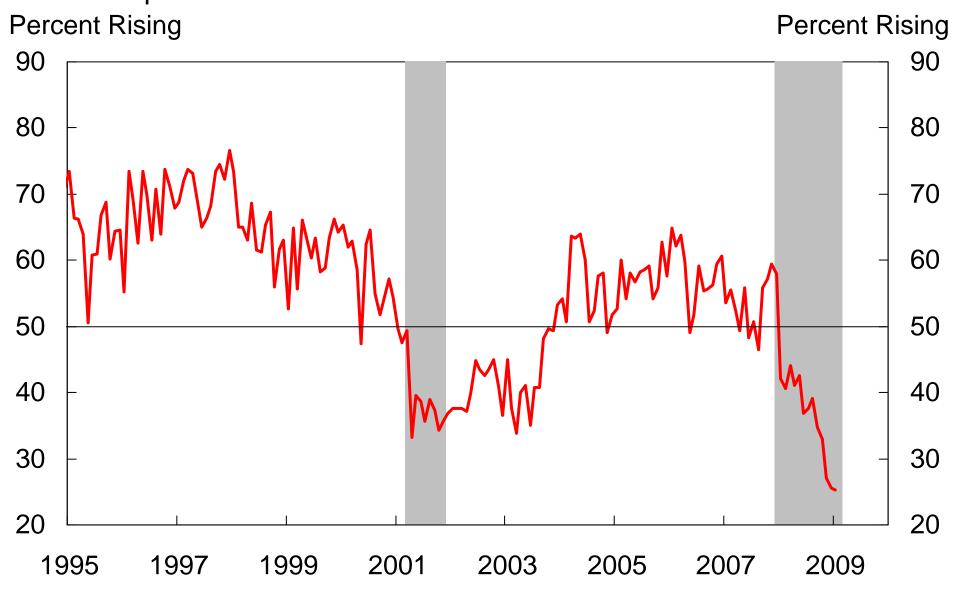


An Alternative Measure of Employment Changes

12-month moving average of 1-month changes

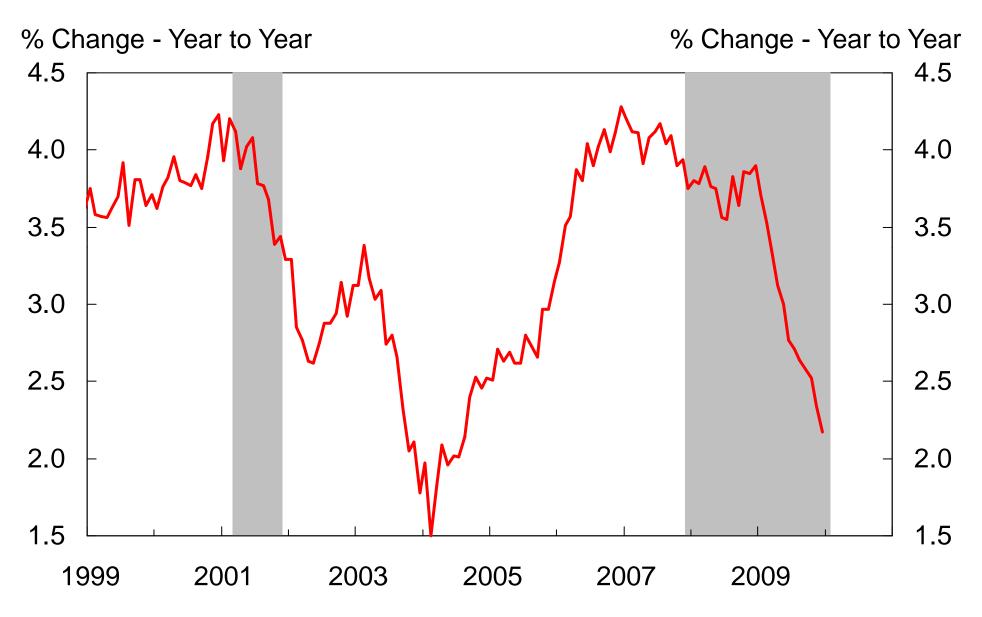


Diffusion Index of Employees on Private Nonagricultural Payrolls 1-Month Span



Source: Bureau of Labor Statistics

Total Private Average Hourly Earnings



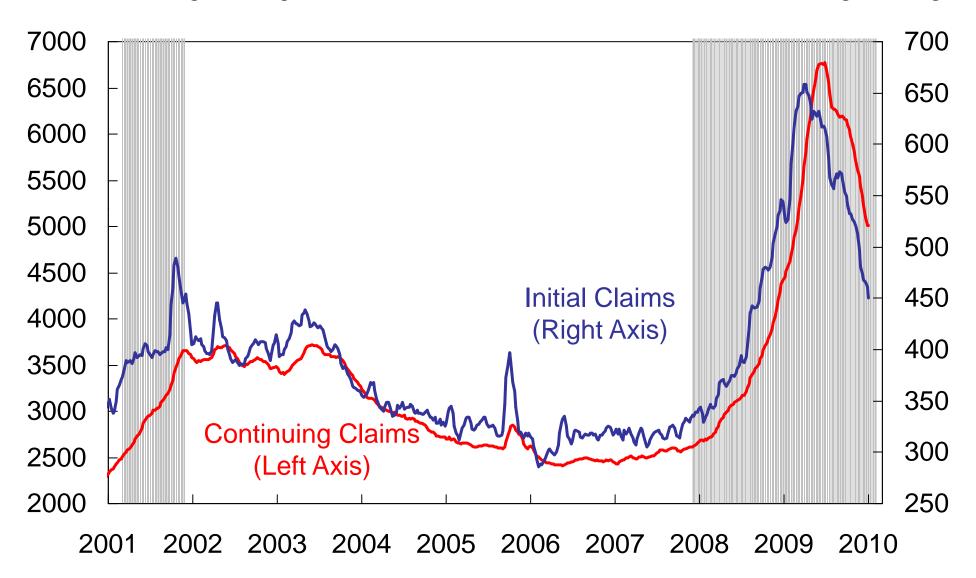
Source: Bureau of Labor Statistics



Unemployment Insurance

4-Week Moving Average

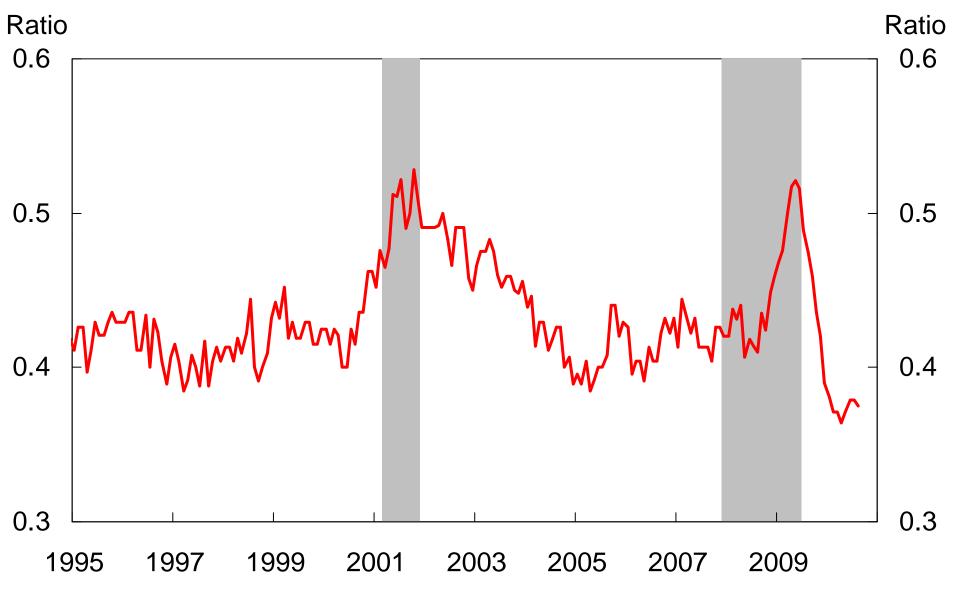
4-Week Moving Average



Source: Department of Labor

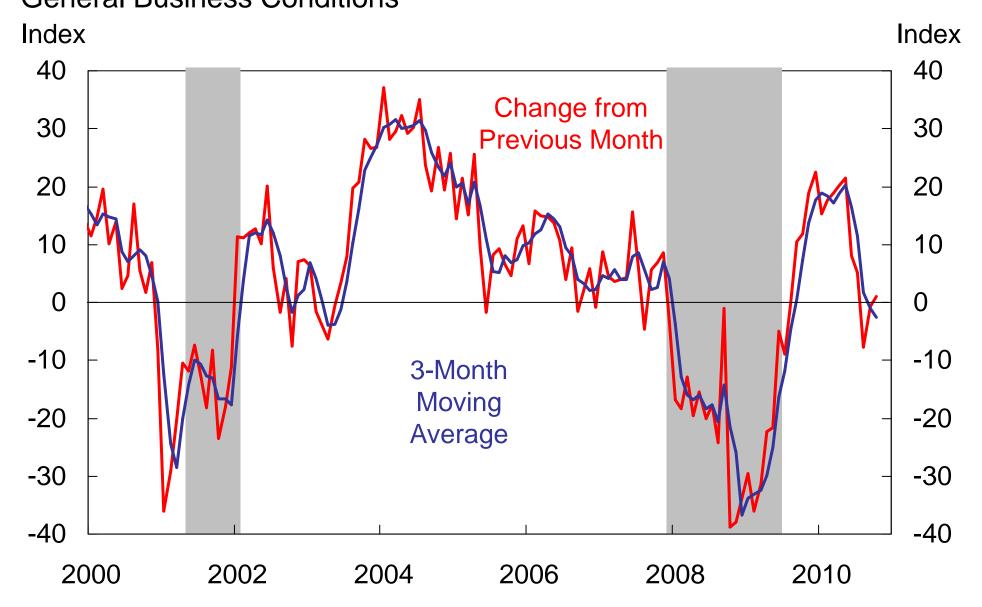
Unemployment Rate (SA)

Insured/Total



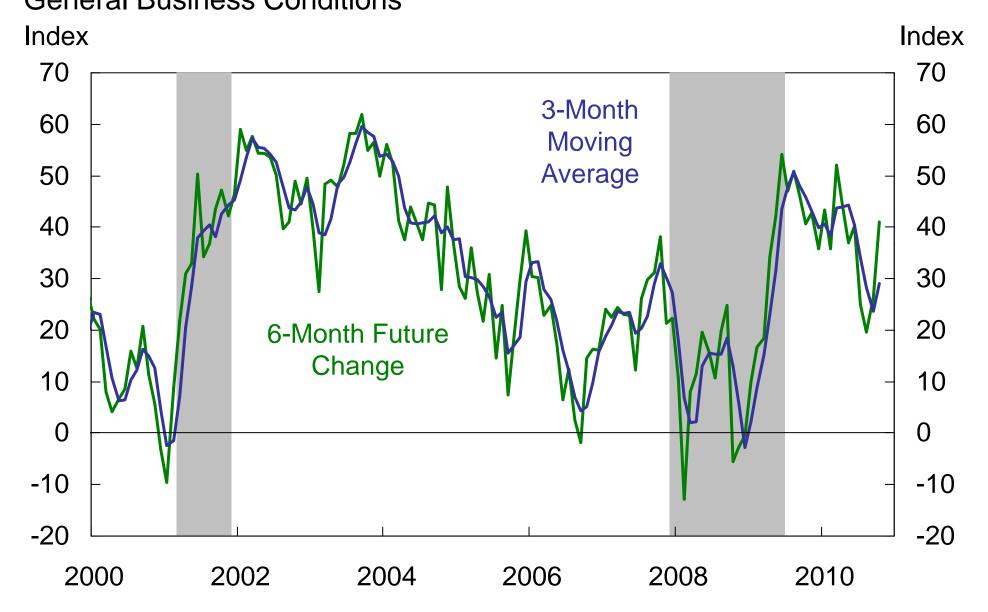
Source: Bureau of Labor Statistics/Department of Labor

Philadelphia Fed Survey General Business Conditions



Source: Philadelphia Fed

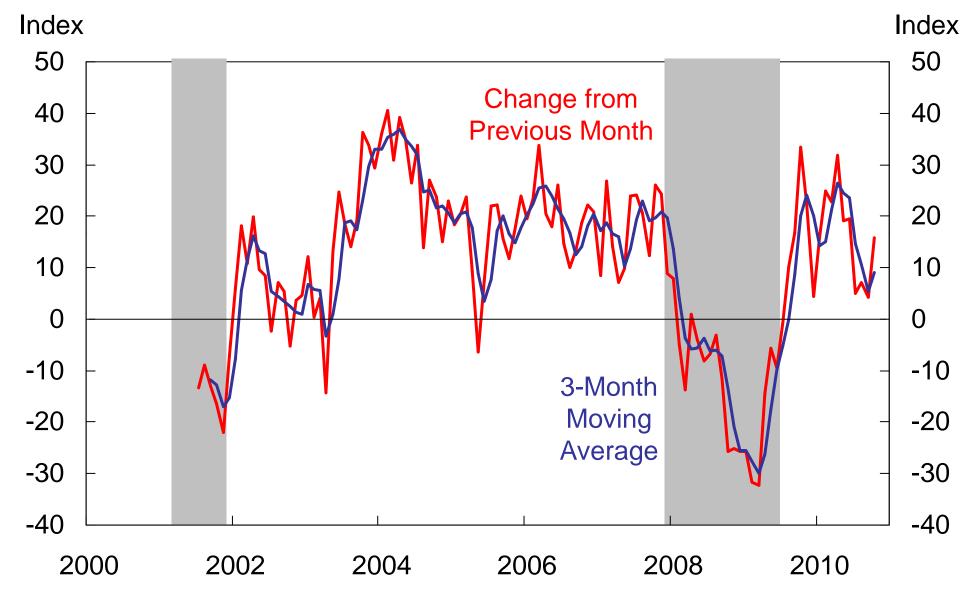
Philadelphia Fed Survey General Business Conditions



Source: Philadelphia Fed

Empire State Manufacturing Survey

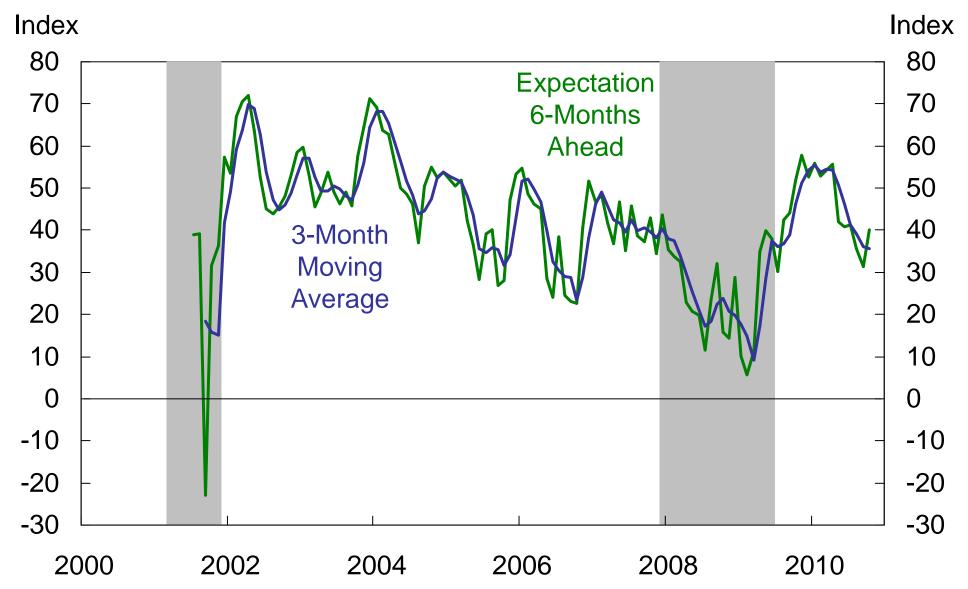
General Business Conditions



Source: FRBNY

Empire State Manufacturing Survey

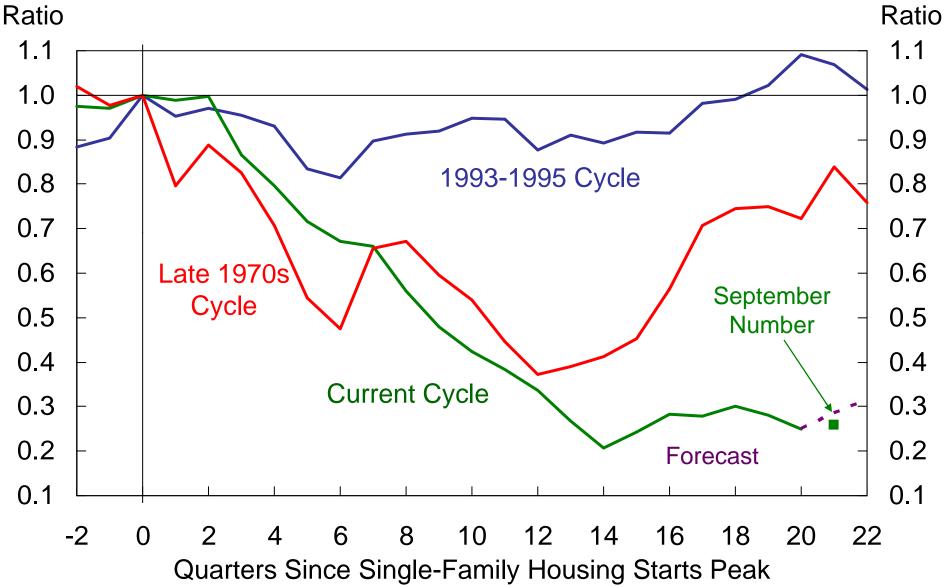
General Business Conditions



Source: FRBNY

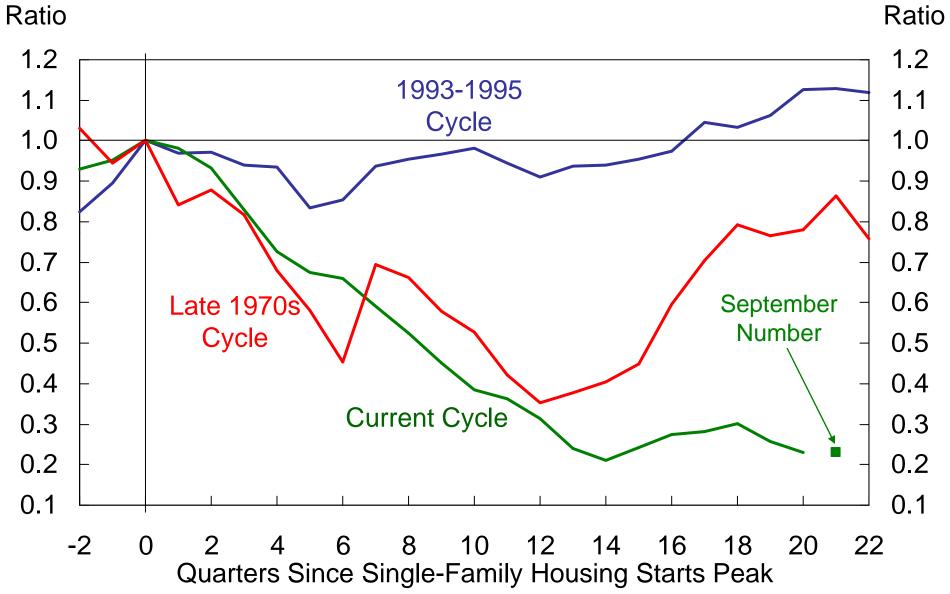
Single-Family Housing Starts

(Series Set to 1.0 at Housing Start Peak)



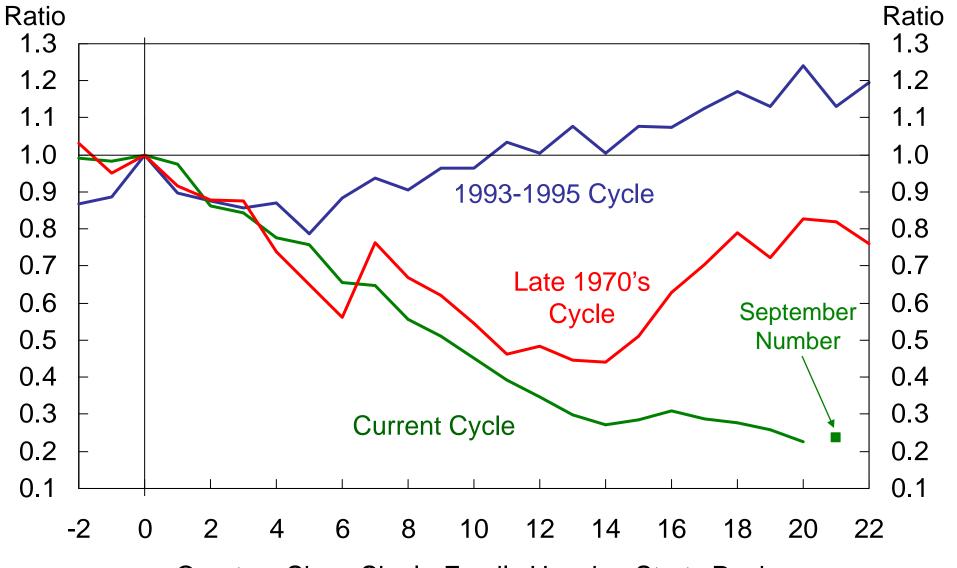
Single-Family Housing Permits

(Series Set to 1.0 at Housing Start Peak)



Single-Family New Home Sales

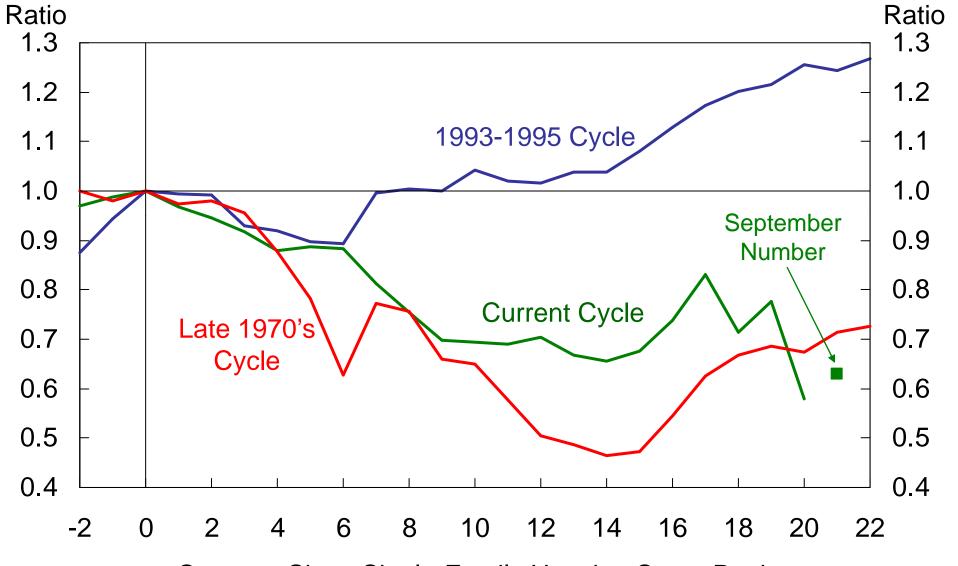
(Series Set to 1.0 at Housing Start Peak)



Quarters Since Single-Family Housing Starts Peak

Single-Family Existing Home Sales

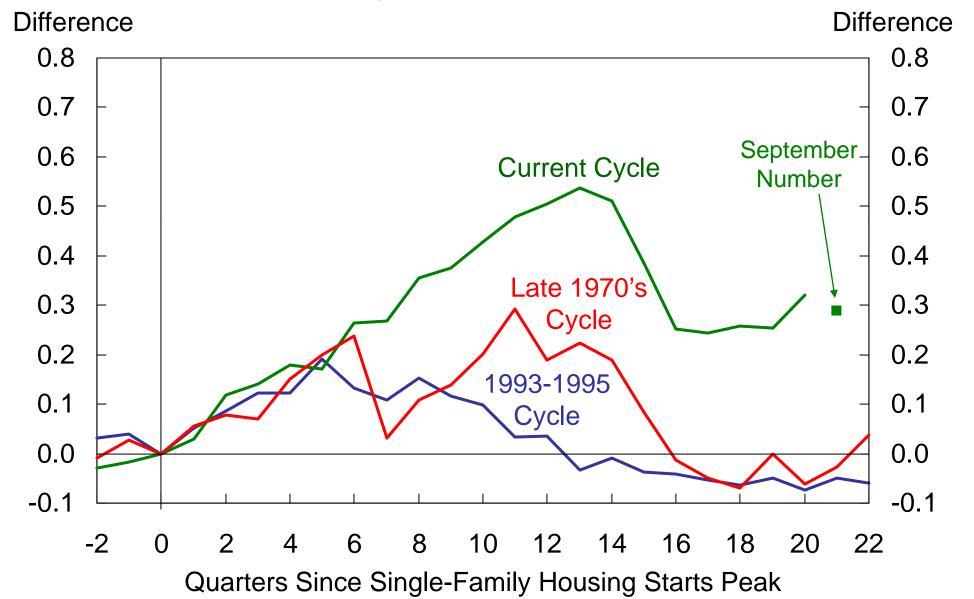
(Series Set to 1.0 at Housing Start Peak)



Quarters Since Single-Family Housing Starts Peak

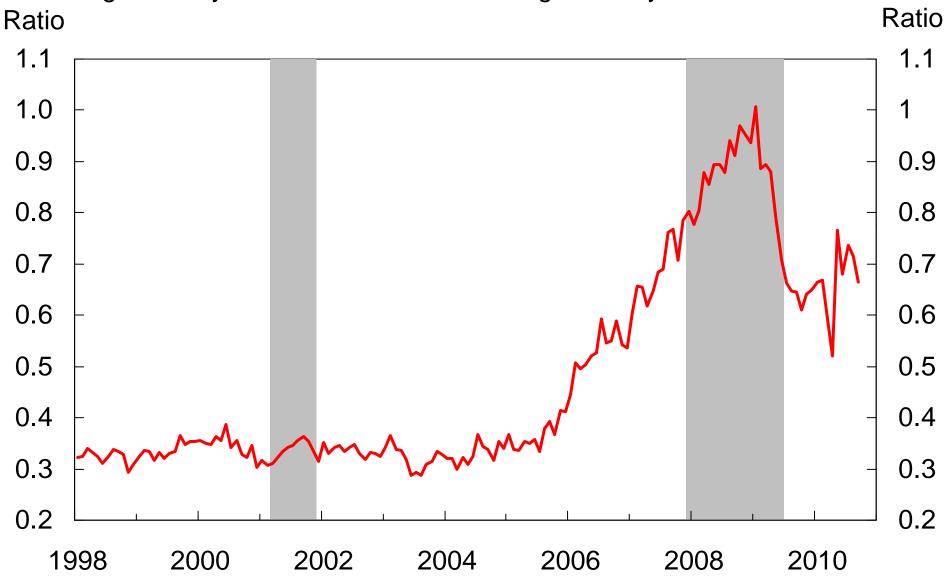
New Home Inventory / Sales Ratio

(Series Set to 0.0 at Housing Start Peak)

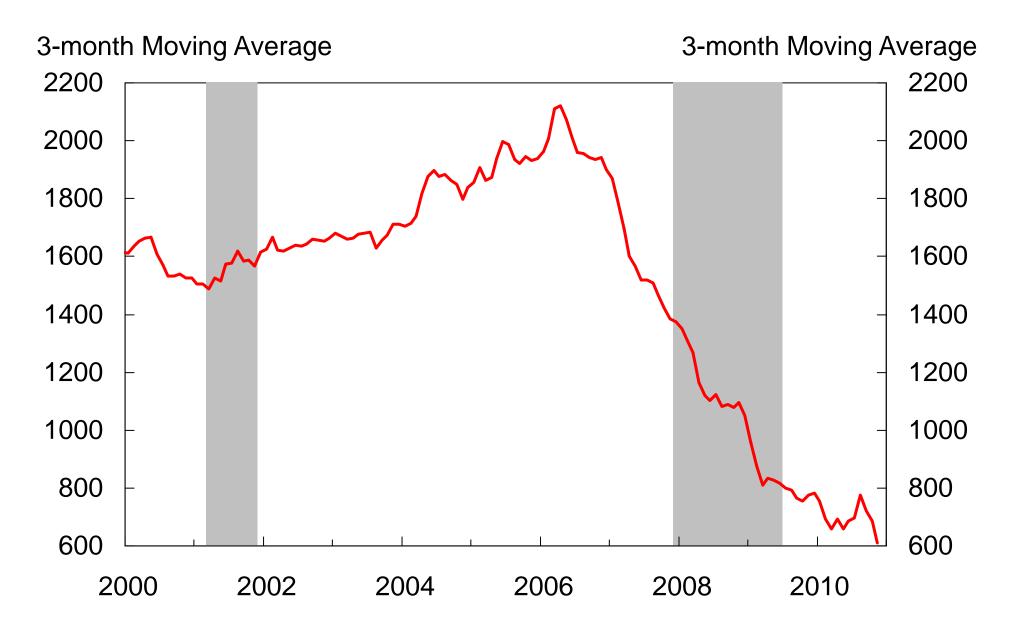


Housing Inventory/Sales Ratio

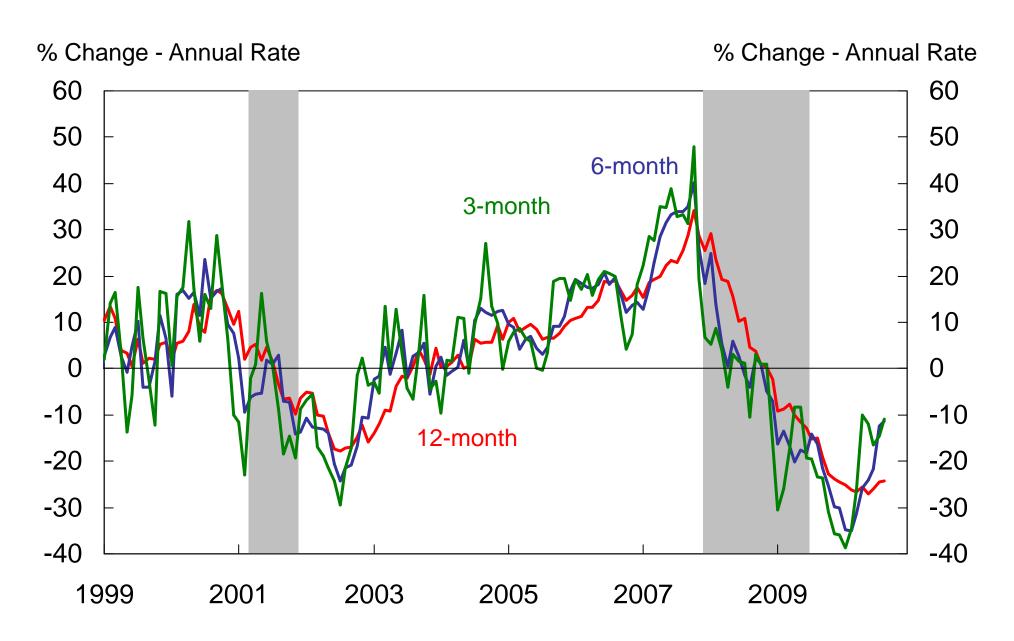
New Single-Family Houses For Sale/New Single-Family Houses Sold



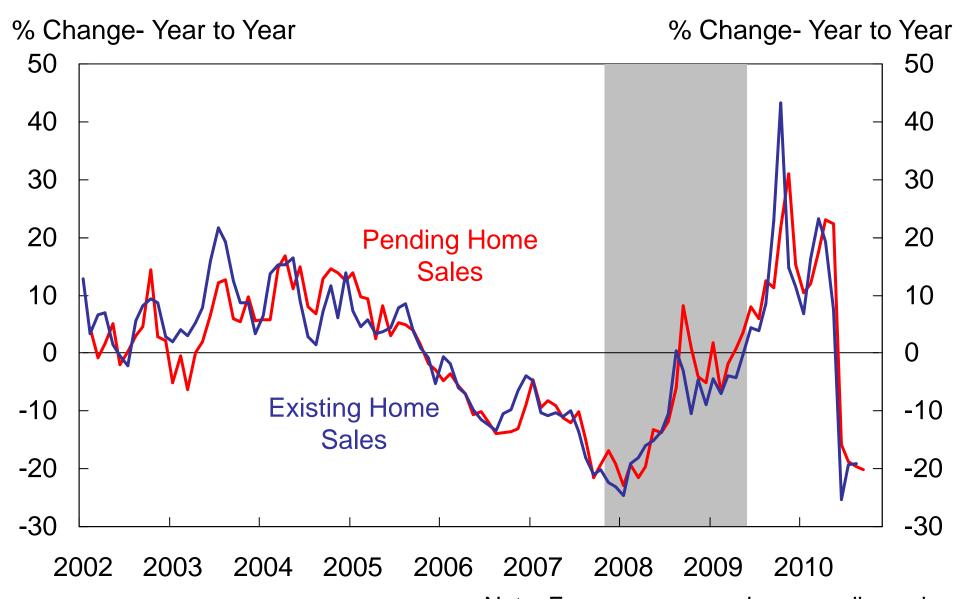
Housing Completions



Private Nonresidential Construction over Various Horizons



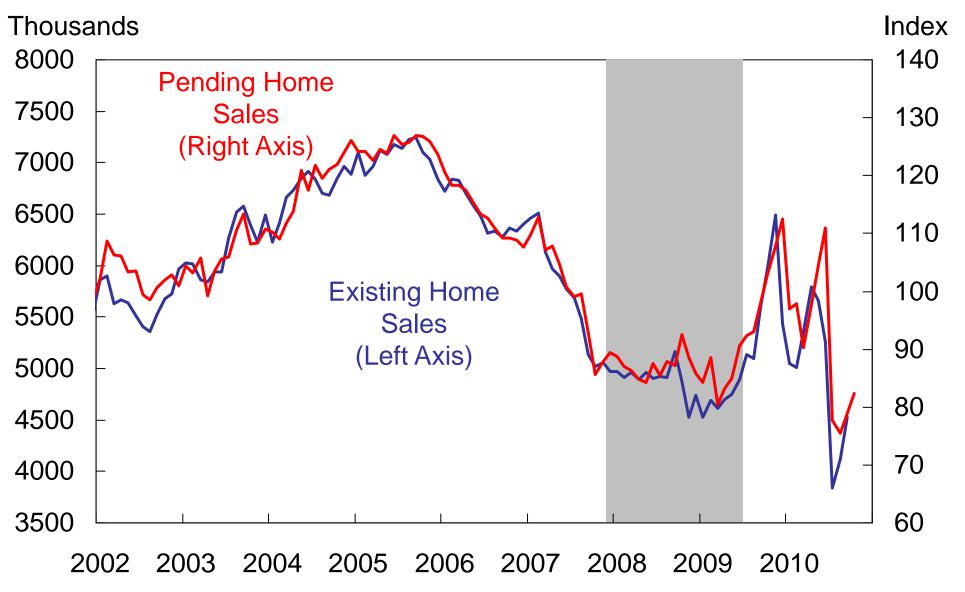
Pending and Existing Home Sales



Source: National Association of Realtors

Note: For proper comparison, pending sales data leads existing sales by two months

Pending and Existing Home Sales

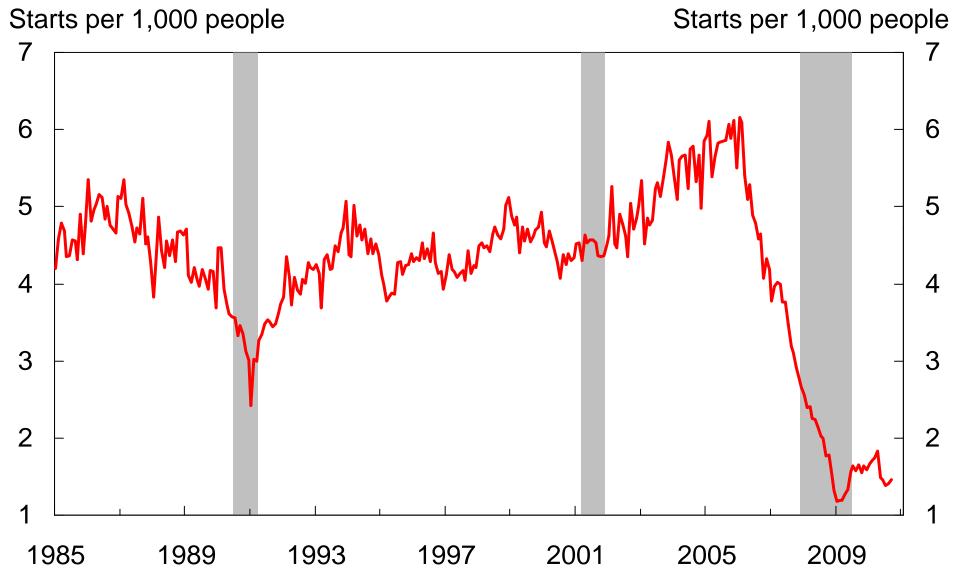


Source: National Association of Realtors

Note: For proper comparison, pending sales data leads existing sales by two months

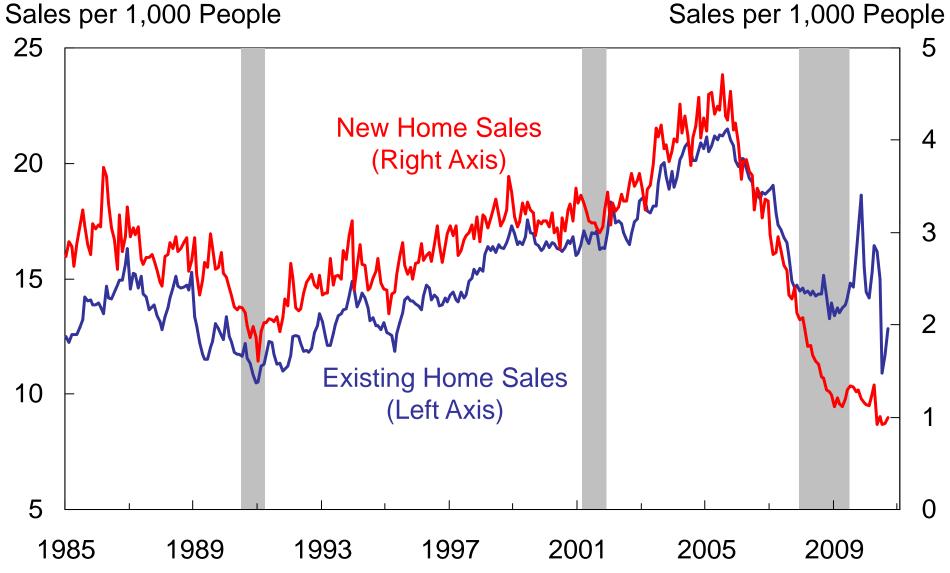
Ratio of Housing Starts to Population

Single-Family Homes



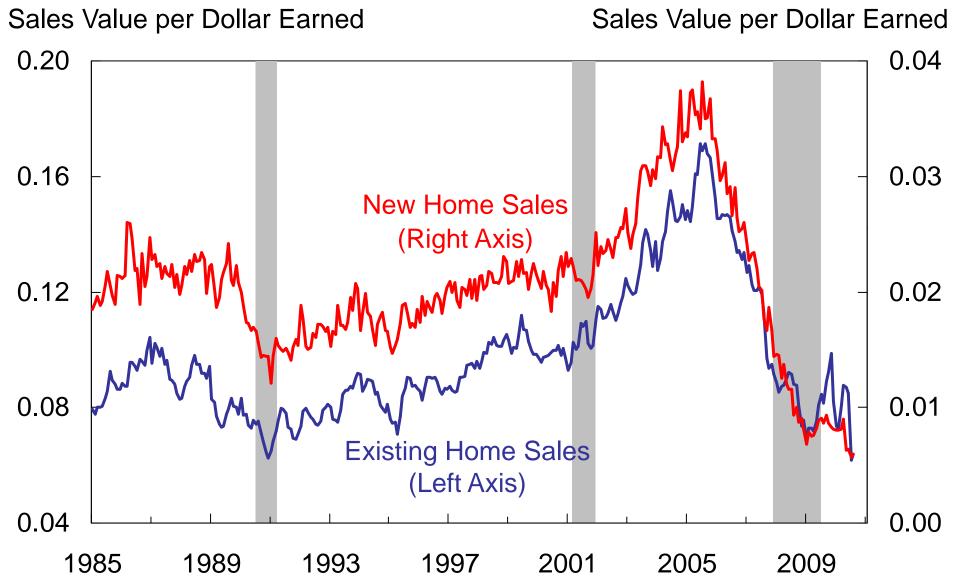
Ratio of Sales to Population

Single-Family Homes



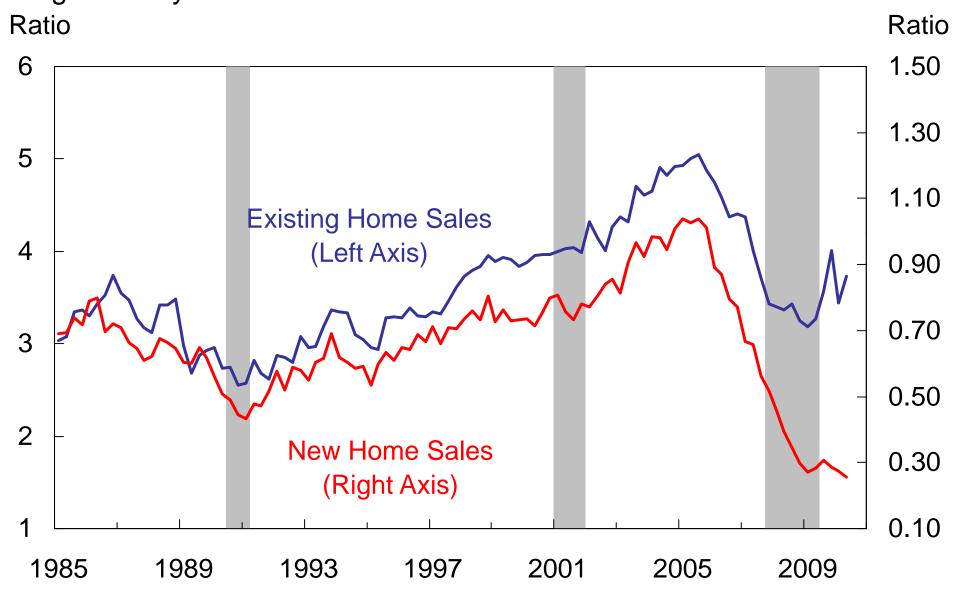
Ratio of Sales Value to Personal Income

Single-Family Homes

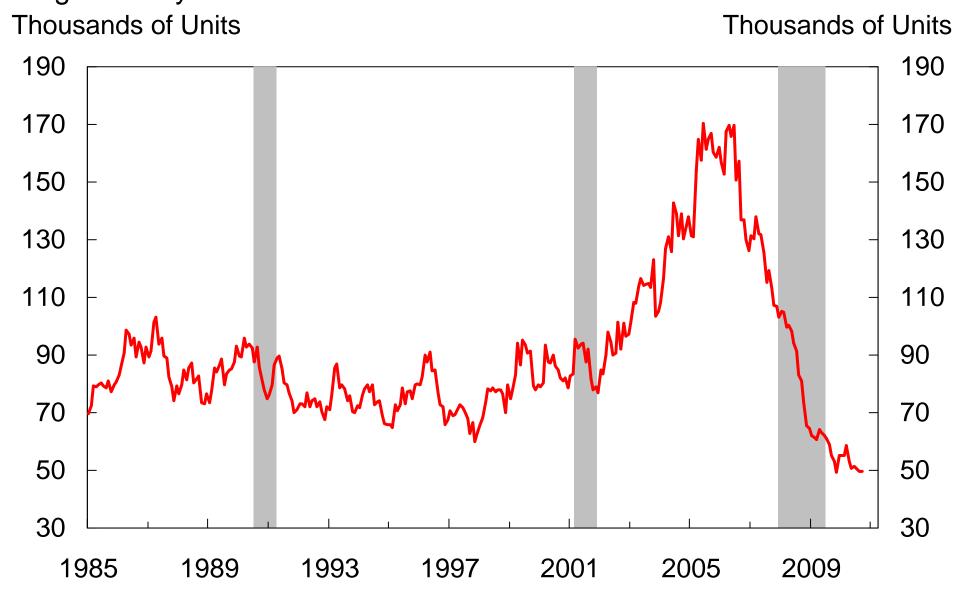


Source: Census Bureau and Bureau of Economic Analysis

Ratio of Sales to Housing Stock Single-Family Homes



Housing Units Authorized but Not Started Single-Family Homes



Cities

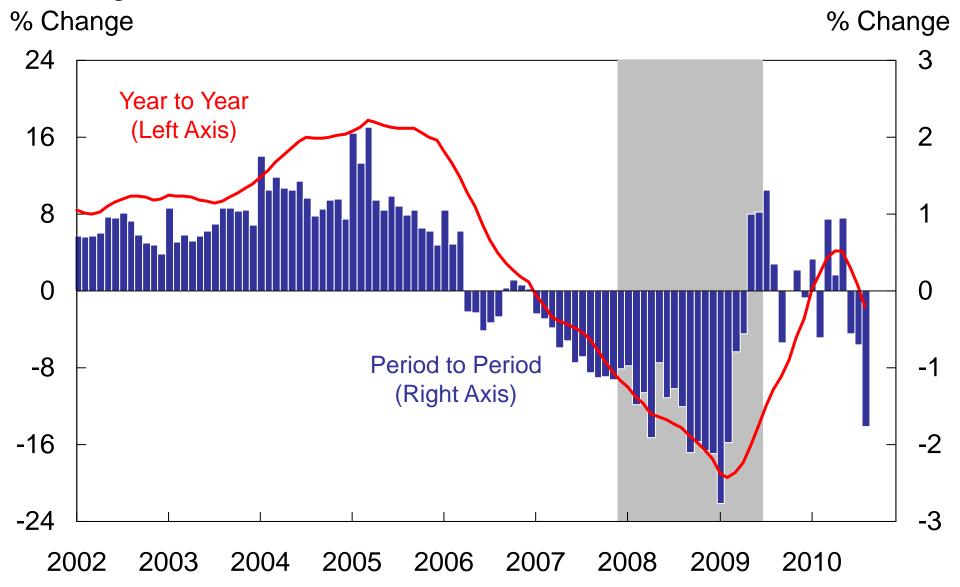
- Boston
- Chicago
- Denver
- Las Vegas
- Los Angeles
- Miami
- New York City
- San Diego
- San Francisco
- Washington, DC
- Atlanta
- Charlotte

- Cleveland
- Dallas
- Detroit
- Minneapolis
- Phoenix
- Portland
- Seattle
- Tampa



CoreLogic National Home Price Index

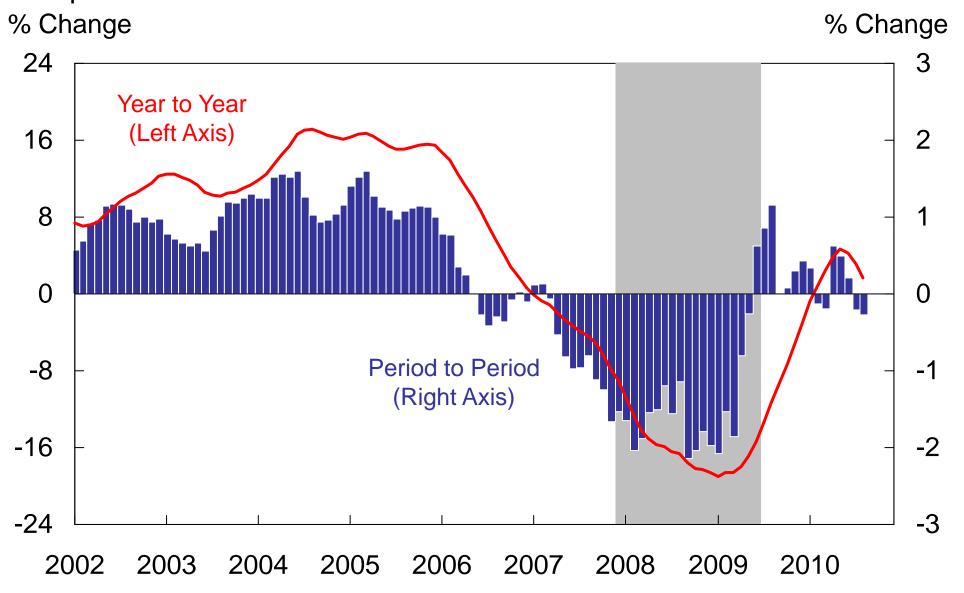
Including Distressed-SA



Source: CoreLogic/Haver Analytics

Note: Monthly Data

Case-Shiller Home Price Index Composite 20-SA

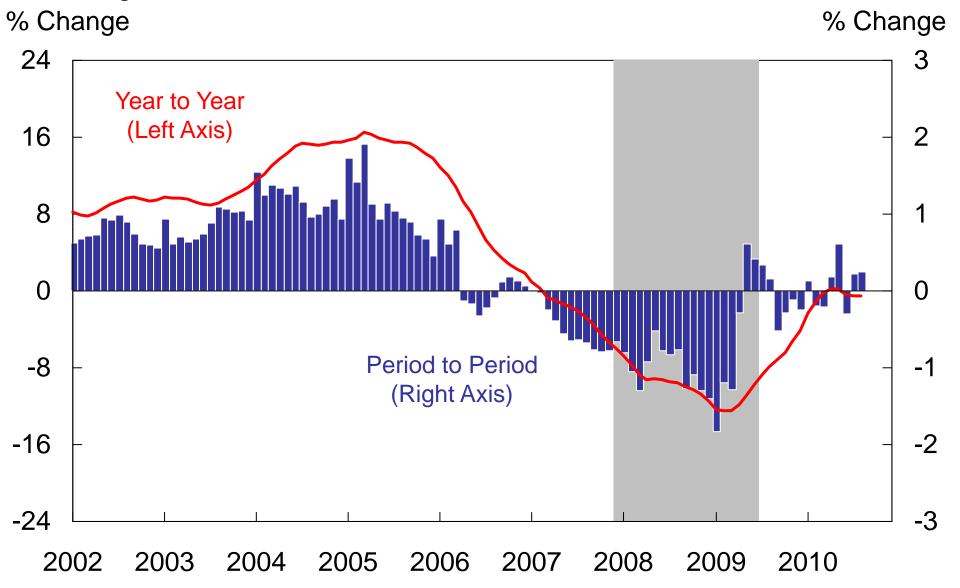


Note: Monthly Data

Source: S&P, Fiserv, and MacroMarkets LLC

CoreLogic National Home Price Index

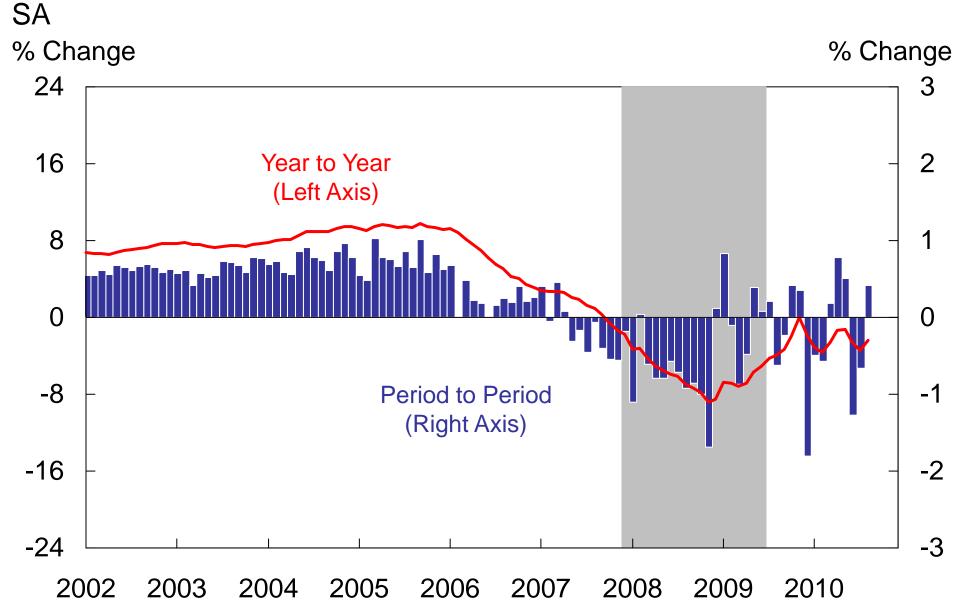
Excluding Distressed-SA



Source: CoreLogic/Haver Analytics

Note: Monthly Data

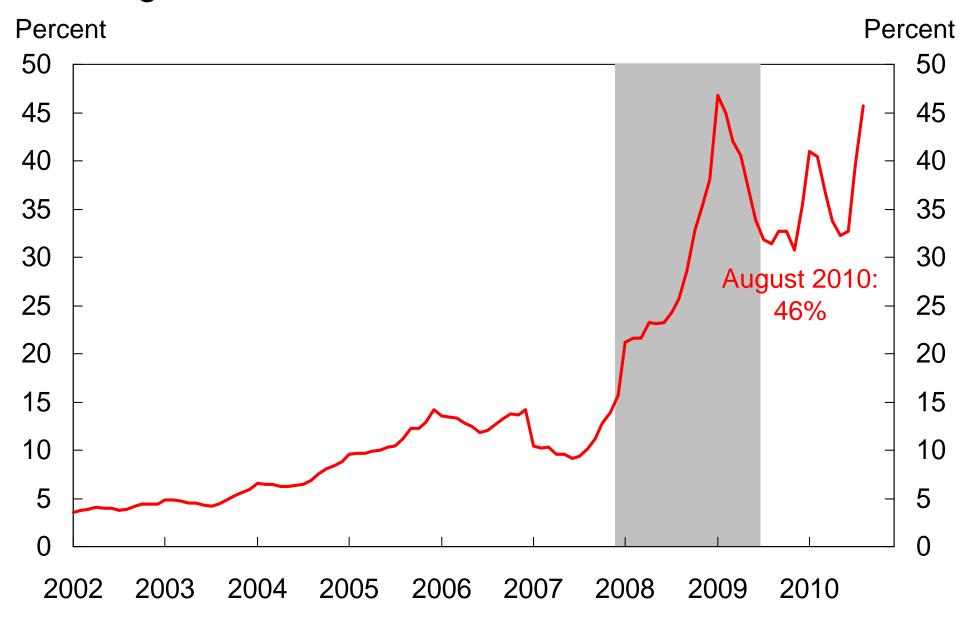
FHFA Home Price Index



Source: Federal Housing Finance Administration

Note: Monthly Data

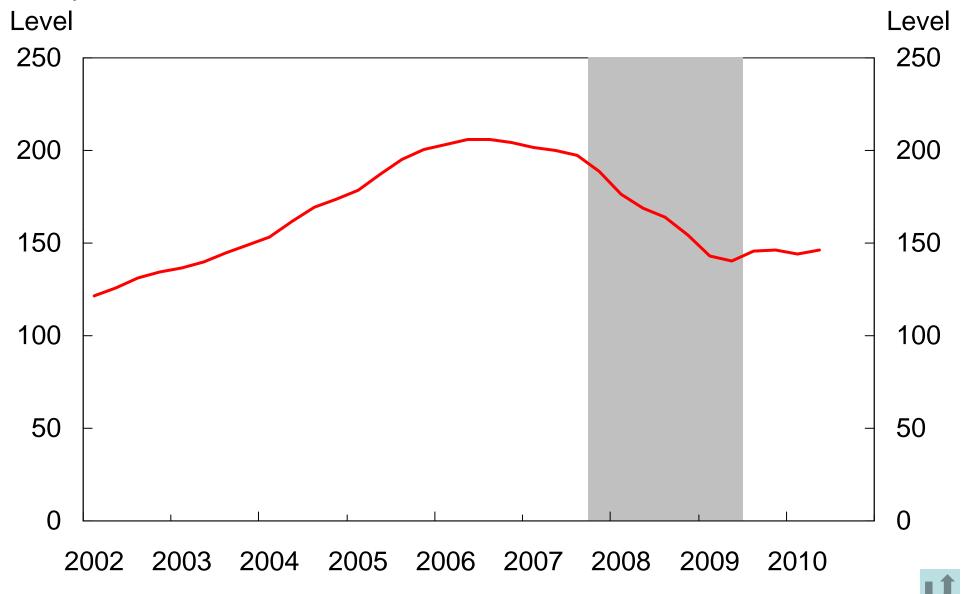
CoreLogic: Distressed Sales as Share of Total Sales



Source: CoreLogic/FRBNY Calculations

Case-Shiller Home Price Index

Composite 20



Source: S&P, Fiserv, and MacroMarkets LLC

Note: Quarterly Data

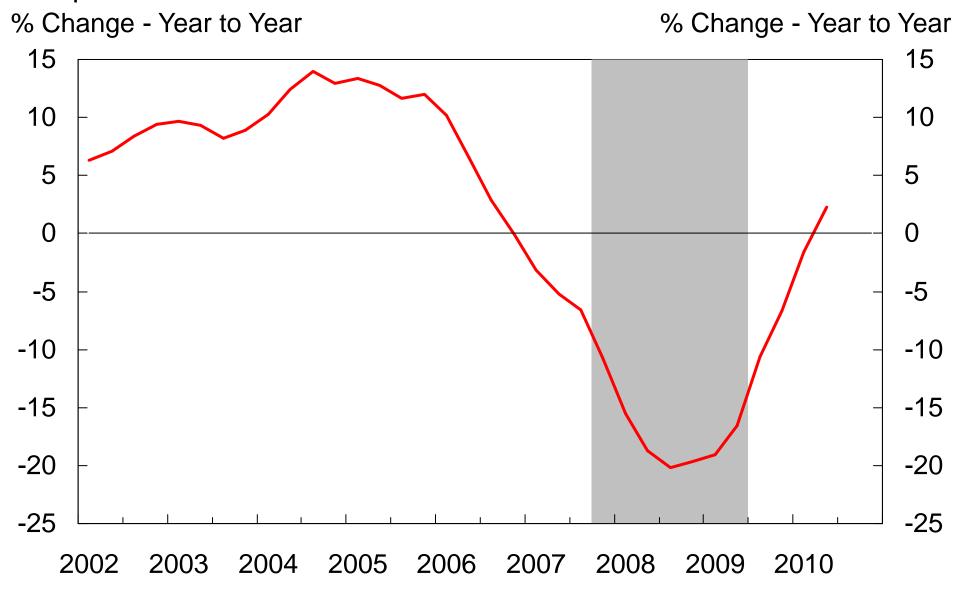
Case-Shiller Home Price Index Composite 20

% Change - Year to Year % Change - Year to Year 20 20 15 15 10 10 5 5 0 0 -5 -5 -10 -10 -15 -15 -20 -20 2002 2003 2004 2005 2006 2007 2008 2009

Source: S&P, Fiserv, and MacroMarkets LLC

Note: Monthly Data

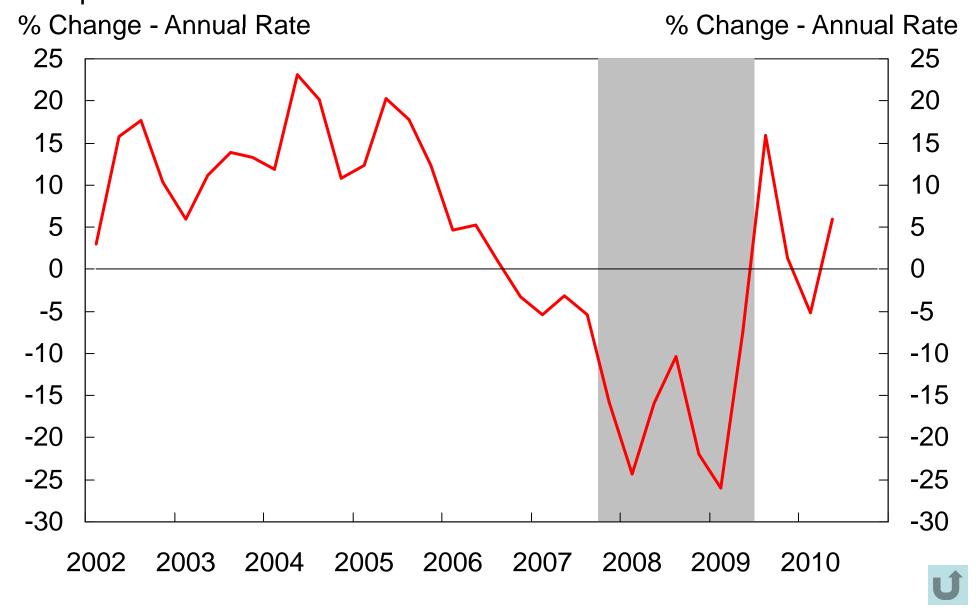
Case-Shiller Home Price Index/PCE Deflator Composite 20



Source: S&P, Fiserv, MacroMarkets LLC, and Bureau of Economic Analysis



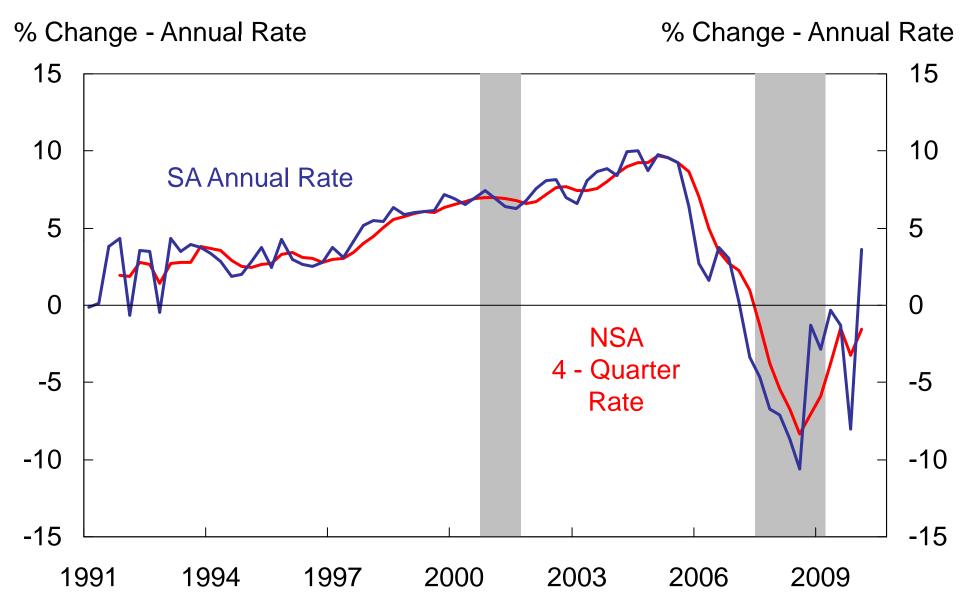
Case-Shiller Home Price Index Composite 20



Source: S&P, Fiserv, and MacroMarkets LLC

Note: Quarterly Data

FHFA Purchases Only Index



Source: Federal Housing Finance Administration



Industrial Production: Manufacturing Output

(percent change at an annual rate)

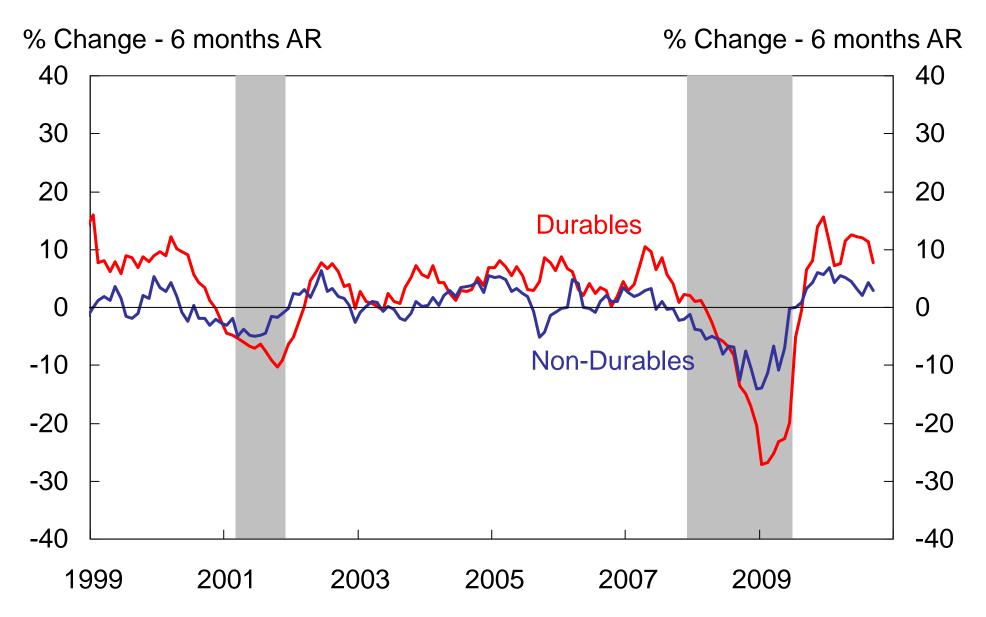
	24 Month	12 Month	6 Month	3 Month	1 Month
Total	-1.0	5.5	4.8	2.7	-1.3
Durable Goods	-2.0	7.7	7.8	2.3	-2.6
Wood Products	-9.8	-1.3	-1.7	-10.4	-1.7
Nonmetalic Mineral Products	-5.8	2.0	12.3	4.9	0.0
Primary Metals	-8.1	12.7	-6.3	-21.5	-1.5
Fabricated Metals	-2.7	10.9	15.3	9.8	-5.2
Machinery	-6.6	15.5	13.9	-4.2	-8.2
Computers and Electronic Equipment	2.6	11.9	10.4	5.0	-5.0
Electrical Equipment, Appliances, and Components	-3.2	6.8	5.3	2.7	-7.7
Motor Vehicles and Parts	1.8	10.4	12.7	13.4	6.4
Aerospace and Misc. Transportation Equipment	4.4	-5.0	-2.6	3.1	-3.8
Furniture and Related Products	-9.8	1.3	0.0	-7.4	-6.4
Miscellaneous	-1.9	2.5	3.3	1.6	5.0
Nondurable Goods	1.1	4.1	2.8	4.4	1.3
Food, Beverages, and Tobacco	2.8	7.5	8.6	12.3	8.6
Textile Mill Products	-3.7	10.6	6.6	6.8	-1.5
Apparel Products	-7.0	7.3	3.8	8.3	7.0
Paper	-2.5	3.4	-0.9	-1.3	1.4
Printing and Related Activities	-8.9	-1.4	3.7	-2.1	-15.7
Chemicals	2.5	0.7	-2.7	1.3	1.3
Petroleum and Coal	7.2	1.8	4.2	-0.4	-2.4
Plastics and Rubber	-4.1	8.9	5.1	1.0	-9.7
Memo Item: Special Aggregates					
IT Equipment	1.6	12.5	11.3	5.2	4.1
Motor Vehicles and Parts	1.8	10.4	12.7	13.4	6.4
Nonenergy, Non IT, Non Auto	-1.4	4.8	4.1	1.8	-2.6

Source: Federal Reserve Board



Note: Data through September 2010.

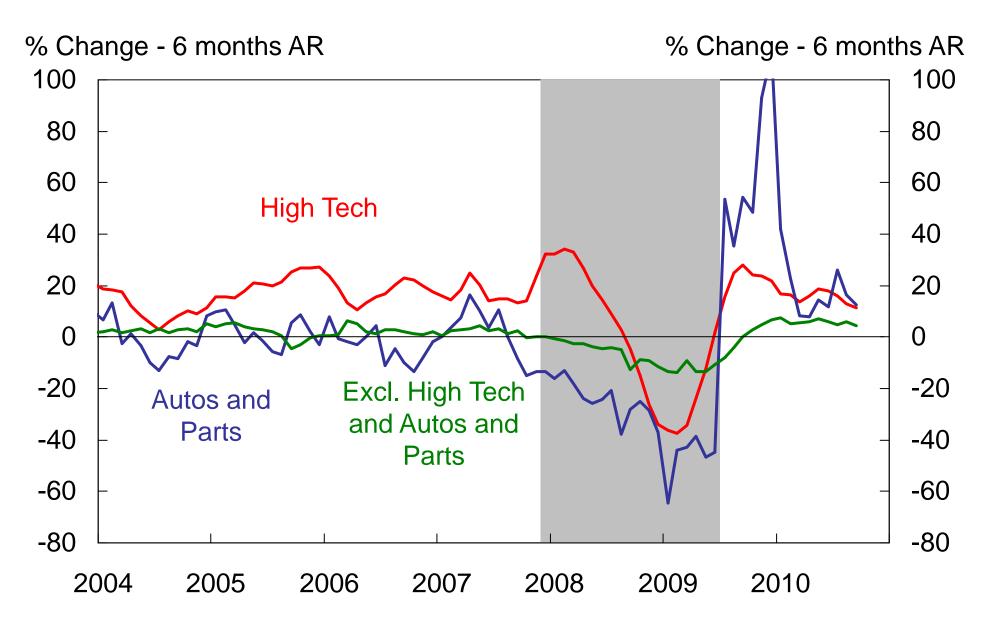
Industrial Production



Source: Federal Reserve Board



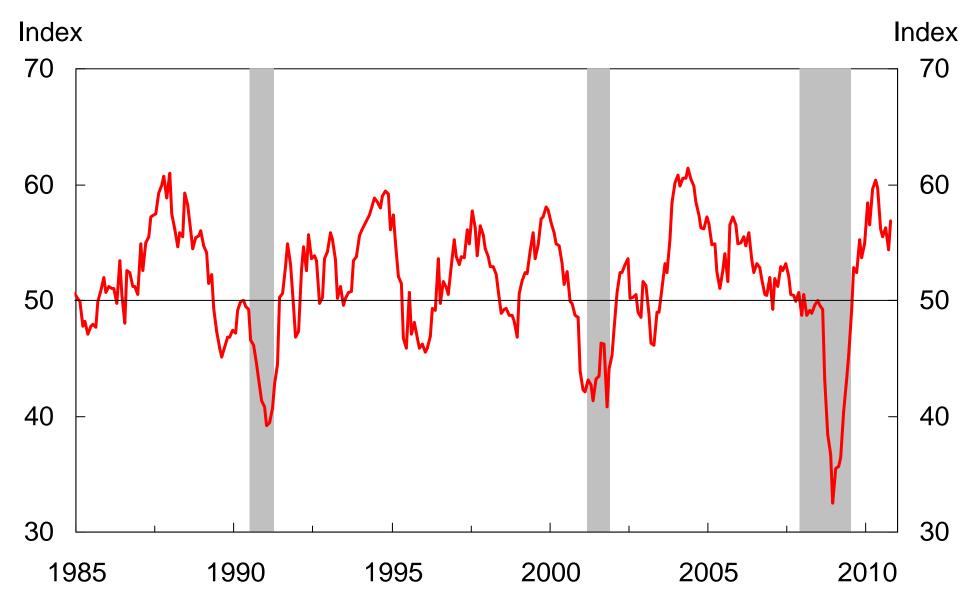
Industrial Production



Source: Federal Reserve Board

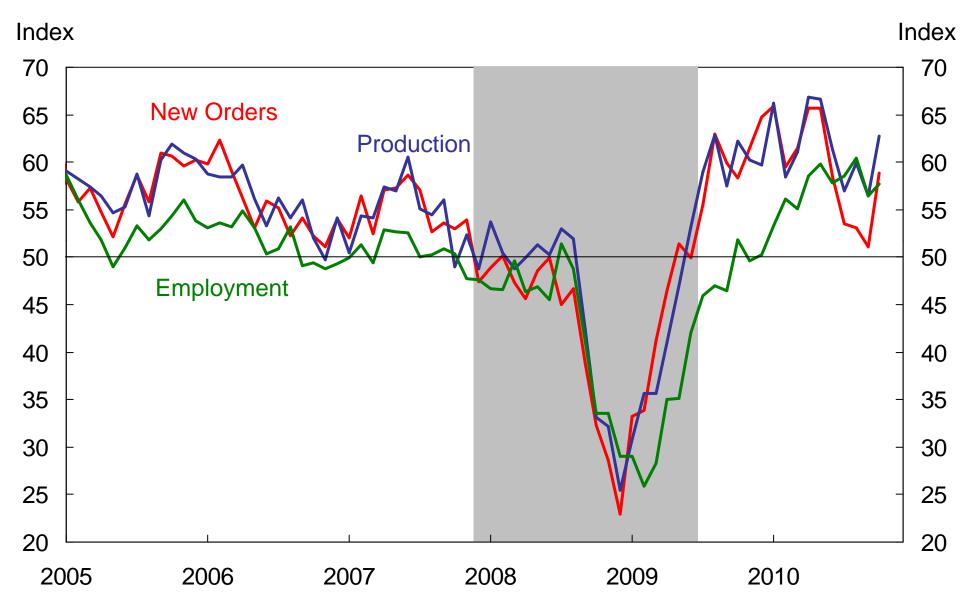


ISM Manufacturing Index



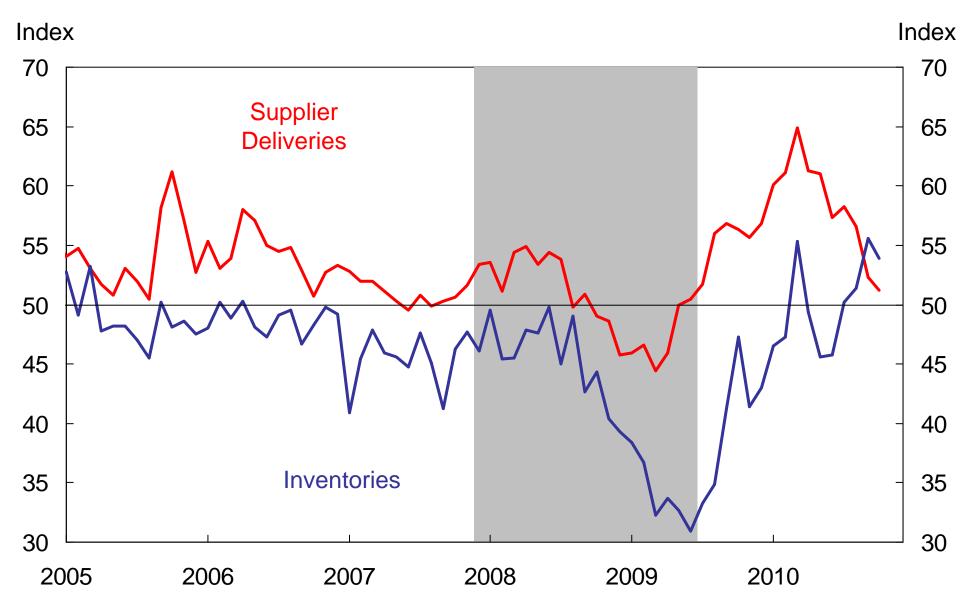


Components of ISM Manufacturing Index



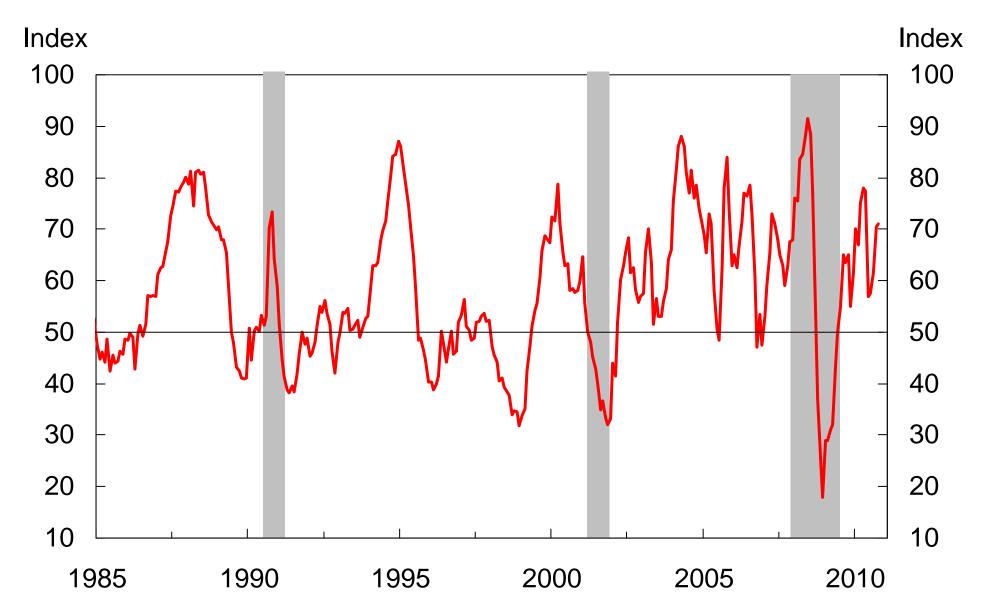


Components of ISM Manufacturing Index



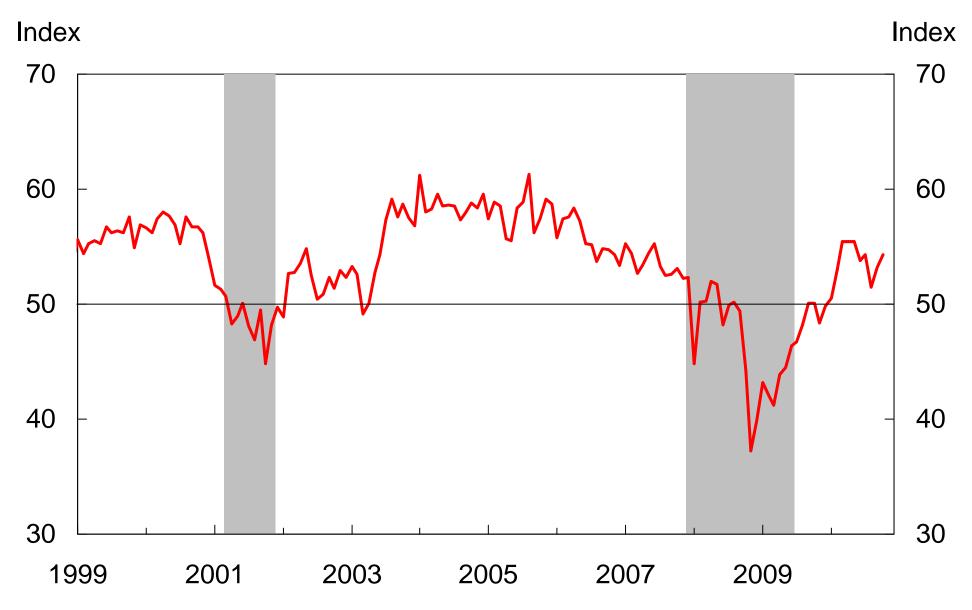


ISM Manufacturing Price Index



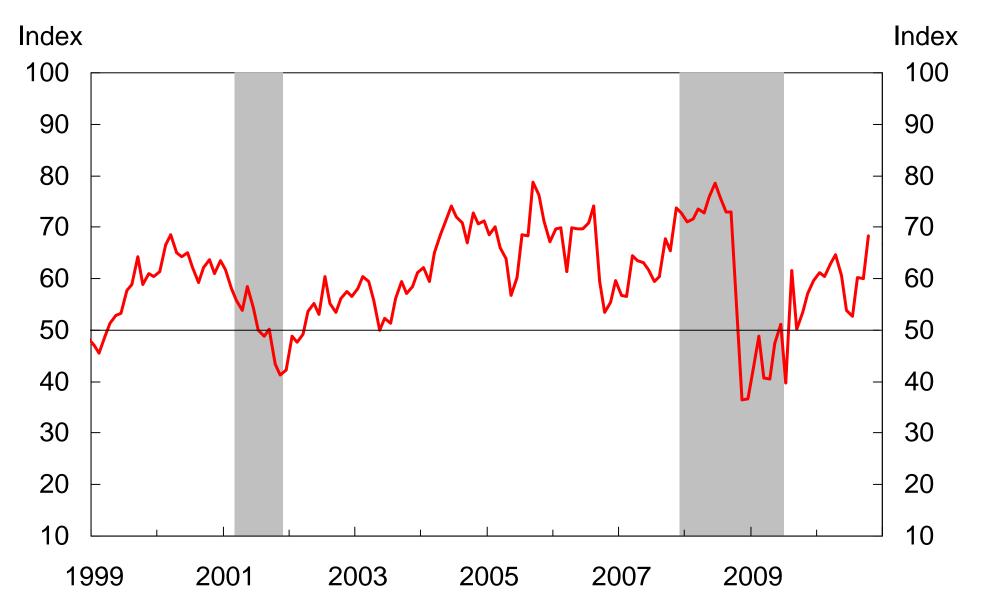


ISM Non-Manufacturing Index



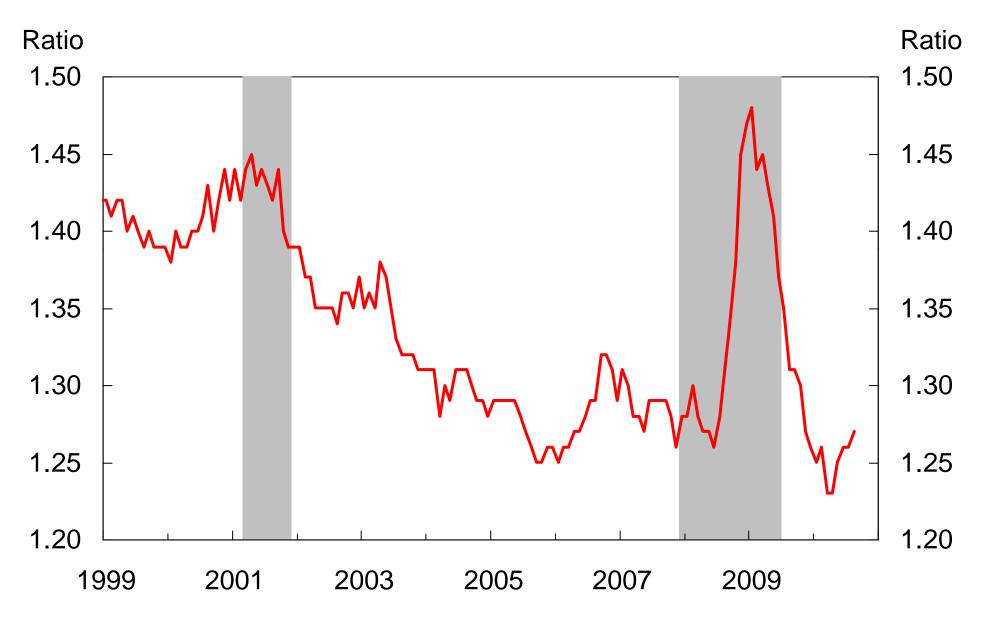


ISM Non-Manufacturing Price Index



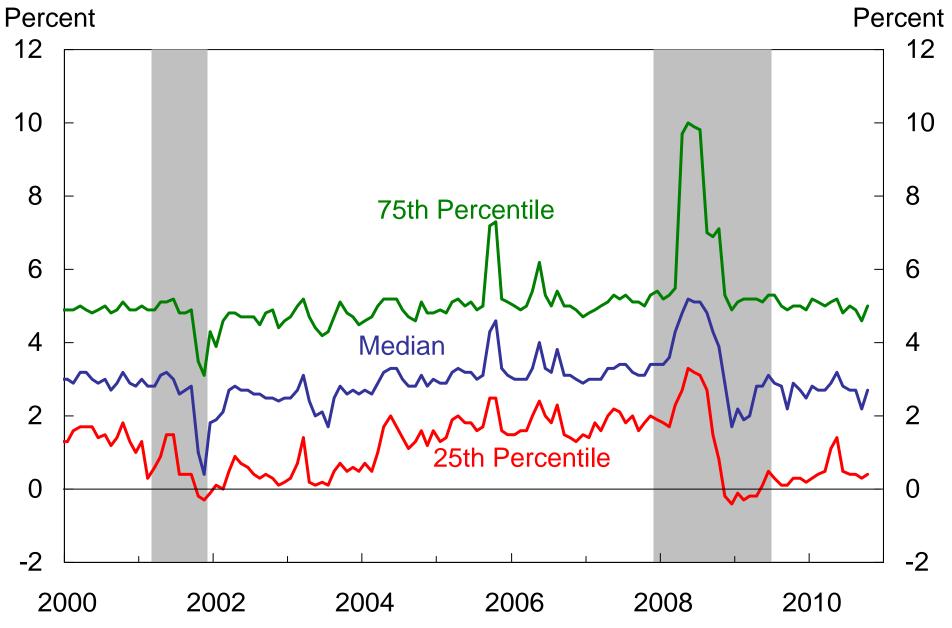


Inventory / Sales: Total Business





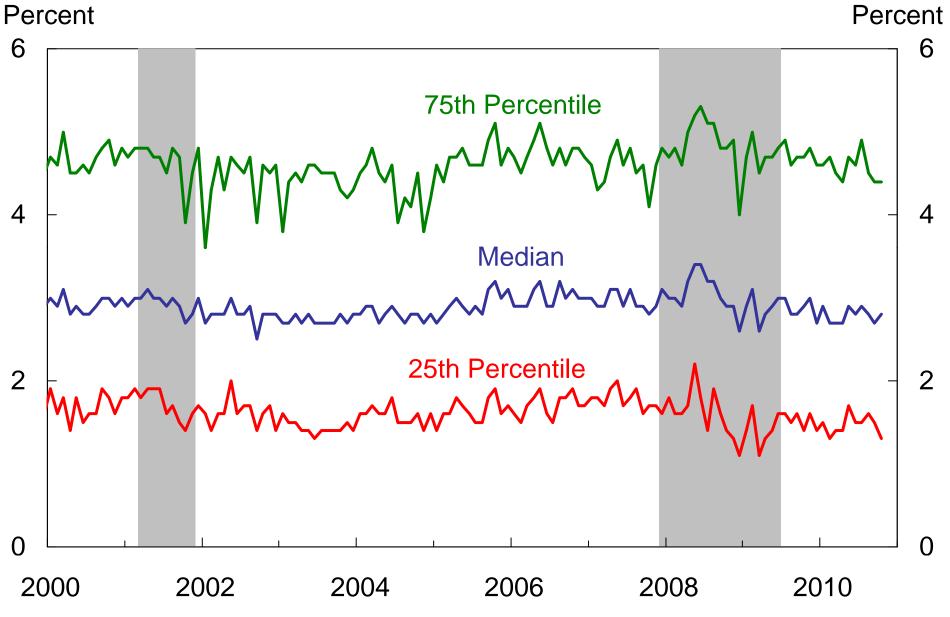
Michigan Survey Inflation Expectations: 1 Year Ahead



Source: University of Michigan



Michigan Survey Inflation Expectations: 5-10 Years Ahead



Source: University of Michigan



PCE Deflator

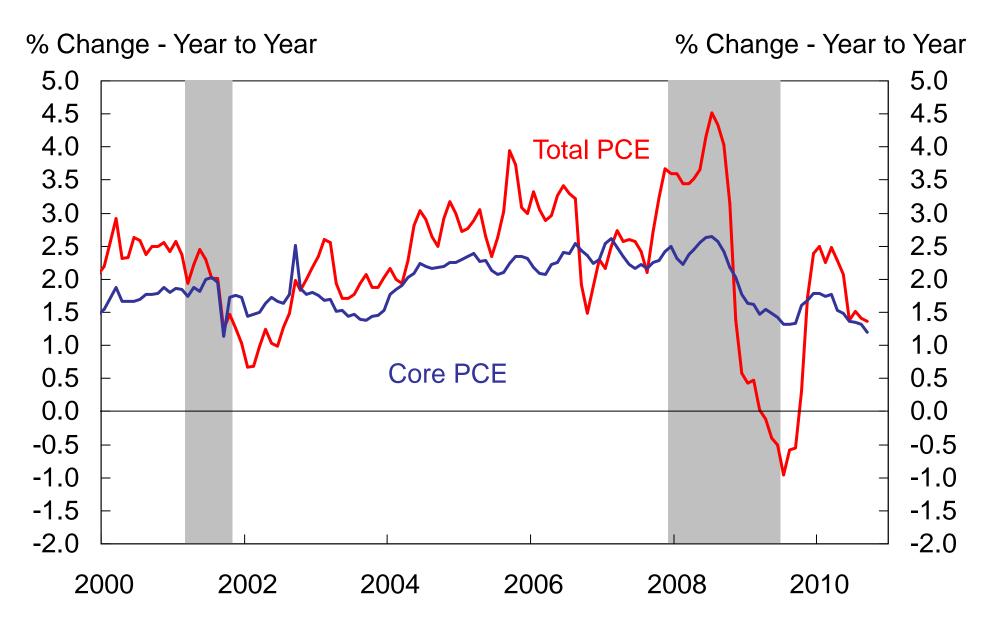
(percent change at annual rate)

	24 Month	12 Month	6 Month	3 Month	1 Month
PCE Deflator	0.4	1.4	0.5	1.9	1.0
Market-Based	0.3	1.2	0.6	2.2	0.9
Durable Goods	-1.6	-1.4	-2.0	-1.3	-1.1
Motor Vehicles and Parts	2.7	4.0	2.0	1.5	-0.8
Nondurable Goods	-1.6	1.4	-0.2	6.3	3.0
Clothing and Shoes	-0.3	-1.6	-0.3	-1.7	-9.2
Services	1.4	1.8	1.1	1.0	0.7
Housing	0.7	-0.1	0.4	0.5	0.6
Transportation	1.5	1.2	-0.5	-2.5	-3.8
Medical Care	2.6	2.5	2.3	2.1	2.7
Recreation Services	0.7	0.7	1.8	0.1	-3.2
Other Services	2.3	2.5	1.4	0.9	1.3
PCE Deflator Excluding Food and Energy	1.3	1.2	0.7	0.7	0.3
Market-Based	1.3	0.9	1.0	0.7	0.1

Source: Bureau of Economic Analysis Note: Data through September 2010.



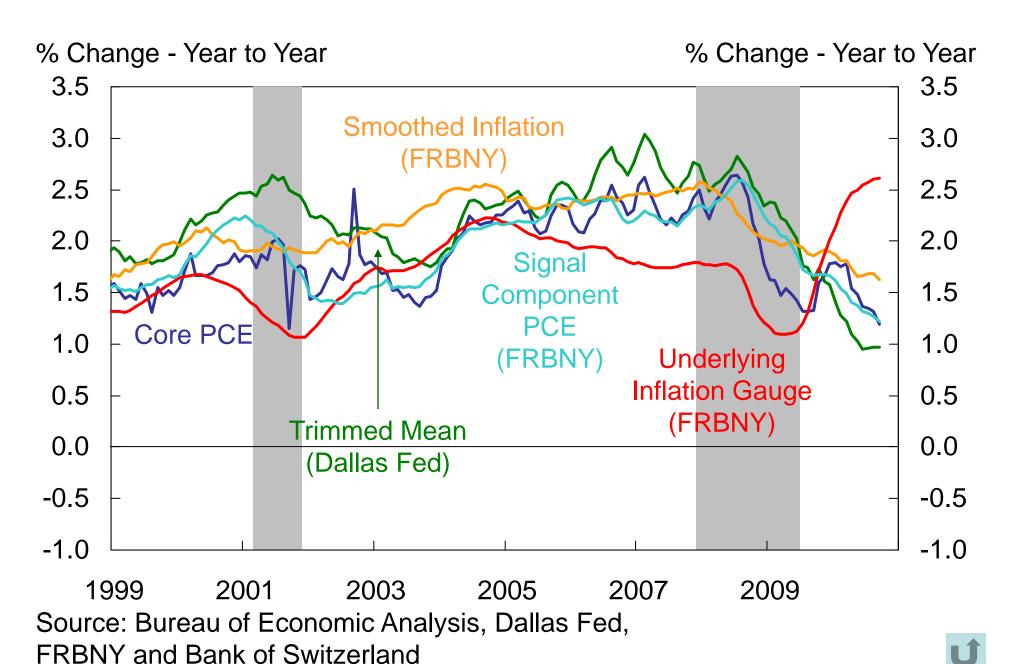
Total and Core PCE Deflator



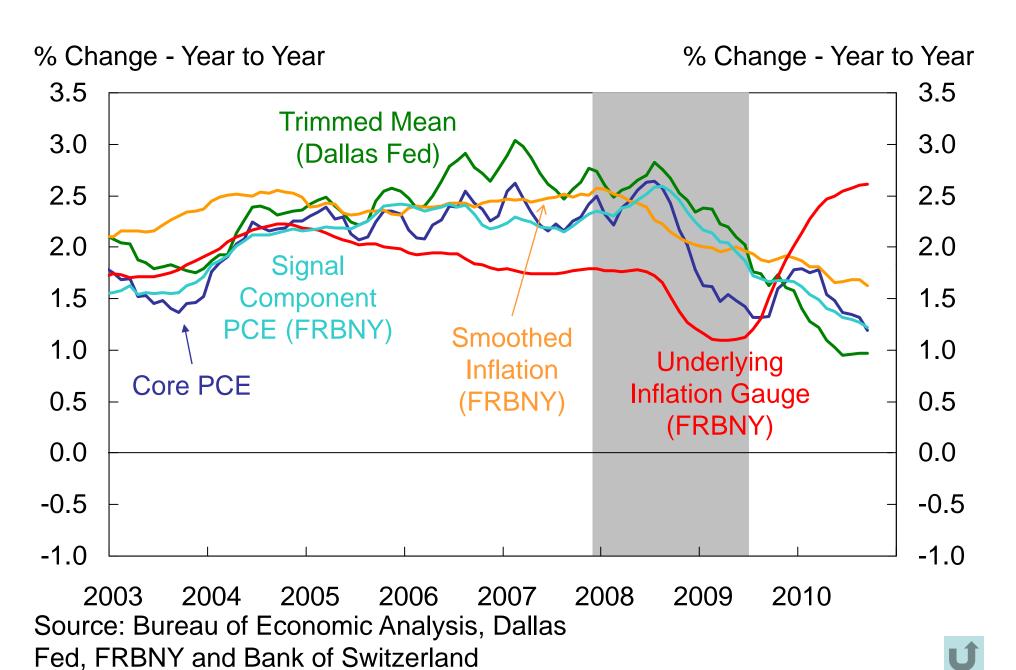
Source: Bureau of Economic Analysis



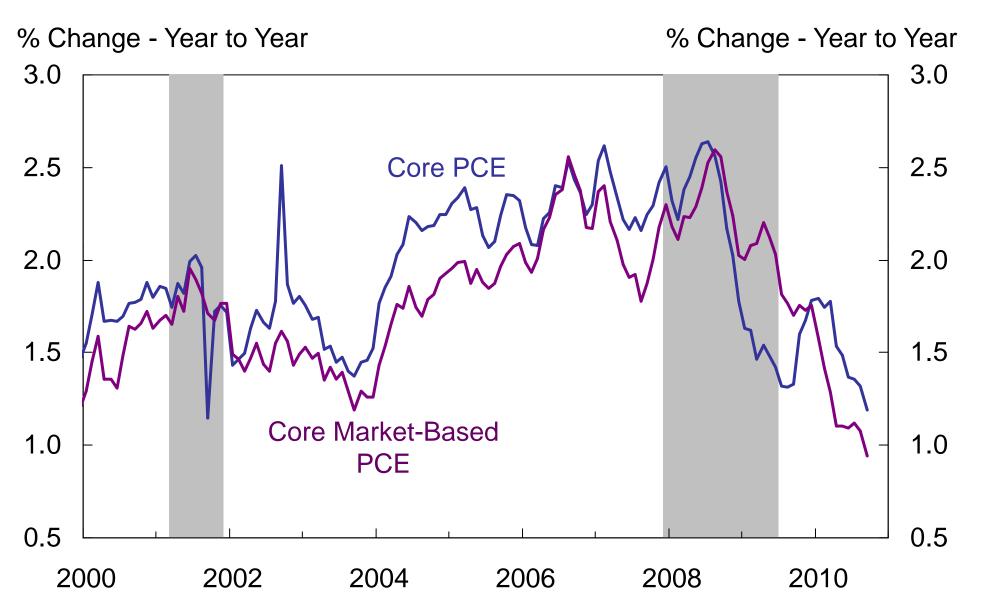
Measures of PCE Inflation Since 1999



Measures of PCE Inflation Since 2003

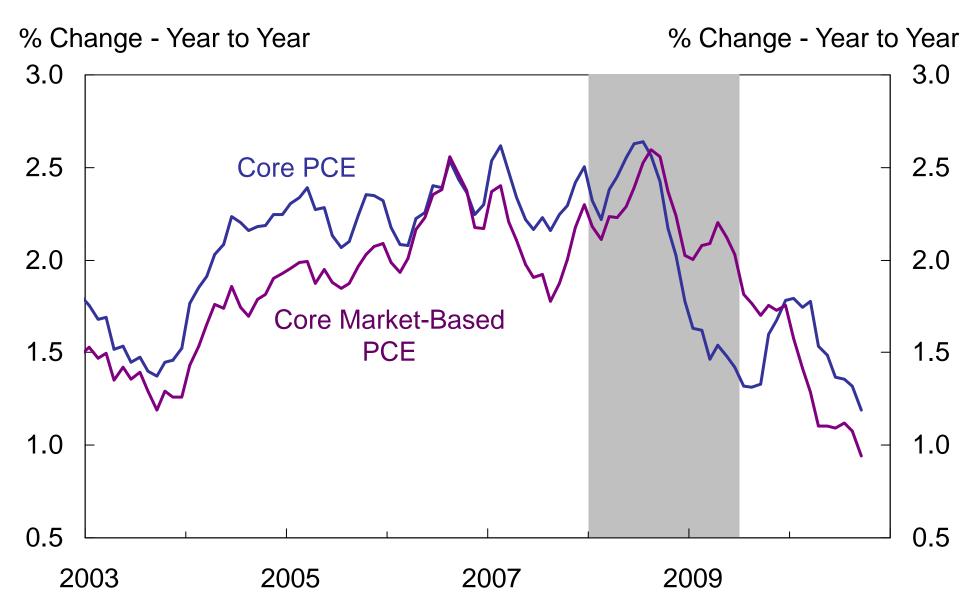


Core PCE and Core Market-Based PCE Since 1999



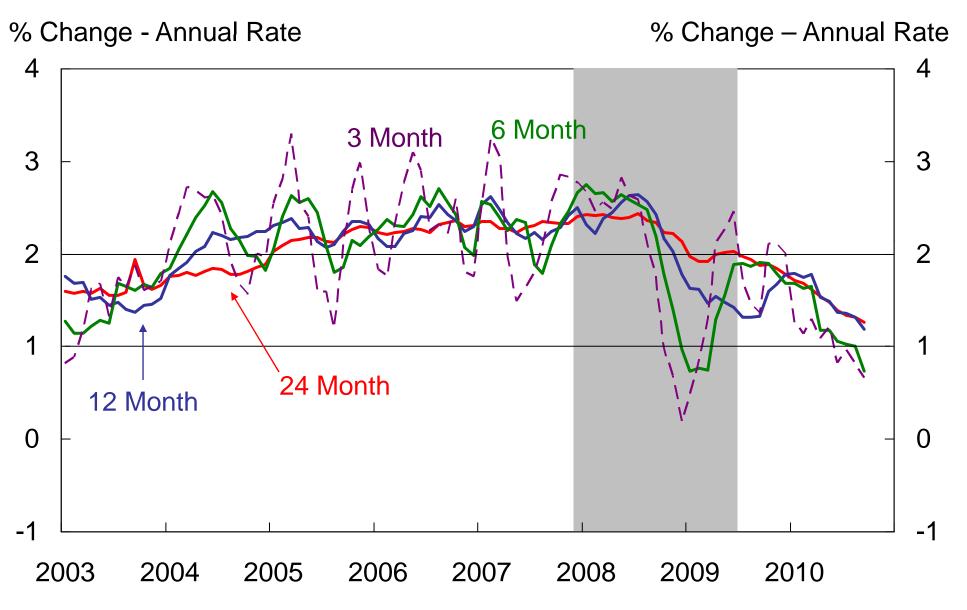


Core PCE and Core Market-Based PCE Since 2003





Core PCE Inflation over Various Horizons





Producer Price Index

(percent change at annual rate)

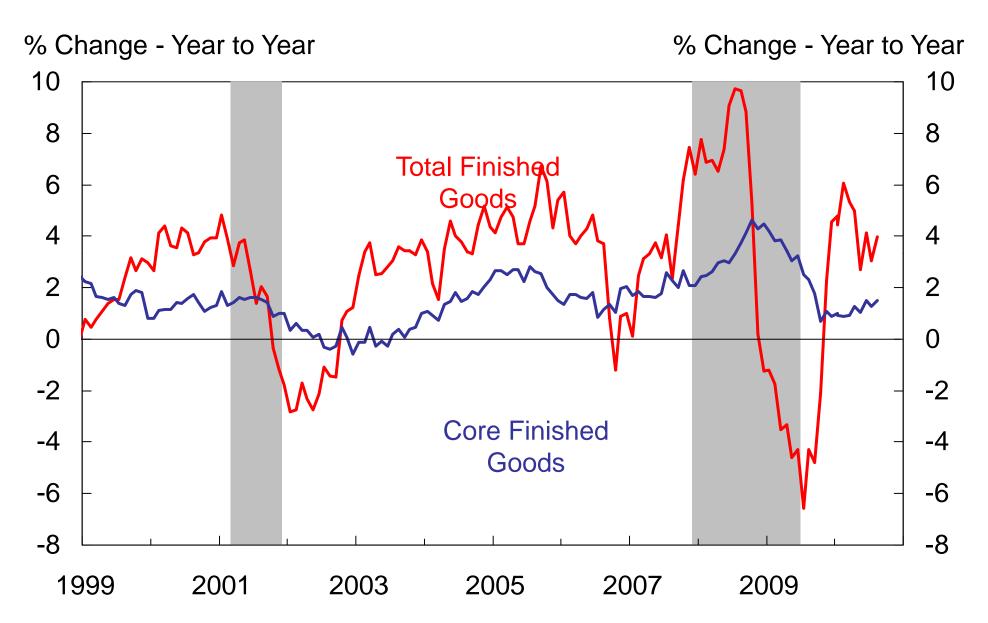
	24 Month	12 Month	6 Month	3 Month	1 Month
Finished Goods	-0.5	4.0	0.3	4.1	5.5
Finished Consumer Goods	-0.8	5.2	0.0	5.0	6.6
Finished Consumer Goods Ex. Food	-1.5	5.2	0.8	4.3	3.9
Nondurables Ex. Food	-2.6	6.9	0.6	4.9	4.1
Durables	1.4	0.9	1.7	2.8	2.5
Capital Equipment	1.0	0.7	1.4	1.5	0.8
Electronic Computers (NSA)	-13.7	-9.8	-12.3	-11.4	-18.3
Communication and Related Equipment (NSA)	0.3	-0.1	-0.8	-0.4	-1.1
Finished Goods Ex. Food & Energy	1.6	1.5	2.0	2.1	1.4
Finished Consumer Goods Ex. Food & Energy	2.2	2.2	2.5	2.4	2.0
Intermediate Materials	-3.6	5.5	1.1	1.5	6.1
Intermediate Materials Ex. Food & Energy	-2.1	3.9	1.5	-0.7	2.7
Crude Materials	-9.4	20.2	-3.1	19.5	-5.6
Crude Materials Ex. Food & Energy	-0.1	25.3	9.7	37.3	91.1

Source: Bureau of Labor Statistics

Note: Data through September 2010.



Producer Price Index





Productivity and Costs

Estimate of Growth Of Productivity and Unit Labor Costs in the Nonfarm Business Sector (quarterly percent change at annual rate)

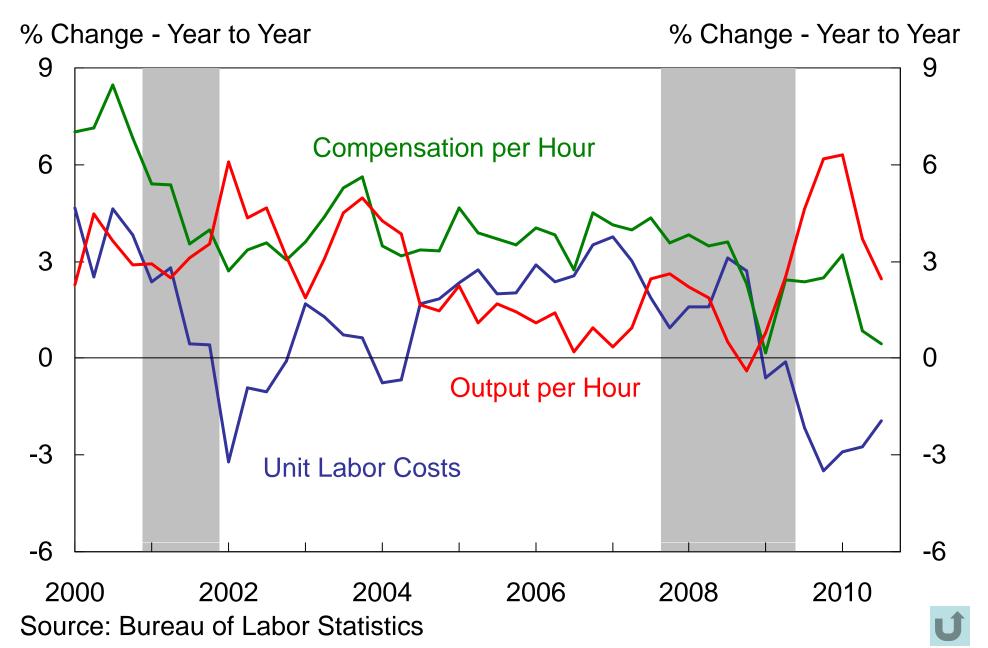
	2008Q3	2008Q4	2009Q1	2009Q2	2009Q3	2009Q4	2010Q1	2010Q2	2010Q3
Output	-6.2	-9.5	-6.4	-0.2	1.4	6.7	5.0	1.6	3.0
Hours Worked	-4.9	-9.5	-9.5	-7.9	-5.2	0.7	1.1	3.5	1.1
Productivity	-1.3	-0.1	3.4	8.4	7.0	6.0	3.9	-1.8	1.9
Compensation/Hour	3.7	1.1	-3.7	9.1	3.4	1.5	-0.9	-0.6	1.8
Unit Labor Costs	5.0	1.2	-6.9	0.6	-3.3	-4.2	-4.6	1.3	-0.1
Memo Items:									
Total Labor Compensation	0.3	-4.0	-9.8	1.1	-1.0	1.7	1.4	3.2	0.0
Less Hours Worked	5.2	5.5	-0.3	9.0	4.2	1.0	0.3	-0.3	-1.1
Private Wages and Salaries	-1.5	-7.1	-14.6	-0.1	-1.8	1.7	-0.3	3.5	0.0
Less Hours Worked	3.5	2.3	-5.1	7.9	3.4	1.0	-1.4	0.0	-1.1
Nonfarm Proprietors Income	-0.9	-10.0	-16.1	-6.5	2.4	3.1	3.3	6.9	0.0

Source: Bureau of Labor Statistics and FRBNY



Productivity, Compensation, and Unit Labor Costs

Nonfarm Business Sector



Real Personal Consumption Expenditures

(percent change at an annual rate)

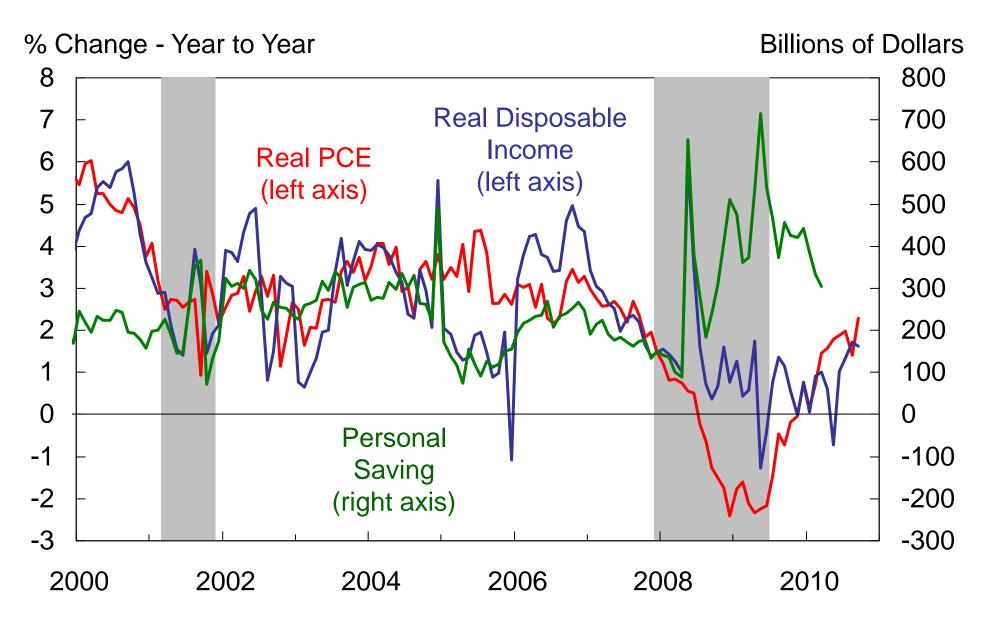
	2010Q3					
	Nominal					
	Share	24 Months	12 Months	6 Months	3 Months	1 Month
Personal Consumption Expenditures	100.0	0.8	2.3	2.0	2.6	1.0
Durable Goods	10.4	3.1	9.6	2.2	9.1	10.5
Motor vehicles and parts	3.3	-1.4	10.1	-5.6	8.5	13.1
Furnishings and durable household equipment	2.5	2.8	9.6	4.6	10.6	9.0
Other durable goods	1.4	2.6	4.1	-1.8	2.2	-4.2
Nondurable goods	22.4	1.5	2.3	0.9	1.6	-2.2
Food and beverages purchased for off-premises consumption	7.7	1.7	2.1	1.4	6.2	1.6
Clothing and shoes	3.3	2.1	6.3	-0.1	4.8	11.1
Gasoline, fuel oil, and other energy goods	3.3	0.6	-3.2	-5.3	-13.5	-30.9
Other nondurable goods	8.1	1.2	3.3	3.2	2.9	3.4
Services	67.1	0.2	1.2	2.3	2.0	0.7
Housing services	15.3	0.8	0.6	0.7	0.6	0.6
Household utilities	3.1	4.3	2.3	16.4	-1.9	-12.7
Gas and electric	2.2	6.1	2.9	23.1	-2.6	-17.1
Transportation services	2.9	-1.9	3.8	4.2	5.1	12.4
Medical care services	16.4	2.1	1.8	3.1	2.1	1.6
Recreation services	3.7	-0.1	1.7	4.0	8.2	10.2
Food services and accomodations	6.1	0.0	4.0	1.7	5.4	3.6
Other	9.1	-0.9	0.0	0.8	0.7	-3.8
Energy goods and services	5.5	2.8	-0.8	4.8	-9.3	-25.7
PCE less food and energy	86.7	0.5	2.5	1.8	3.1	3.0
PCE less autos and household utilities	93.7	0.8	2.0	1.9	2.6	1.0

Source: Bureau of Economic Analysis

Note: Data through September 2010.

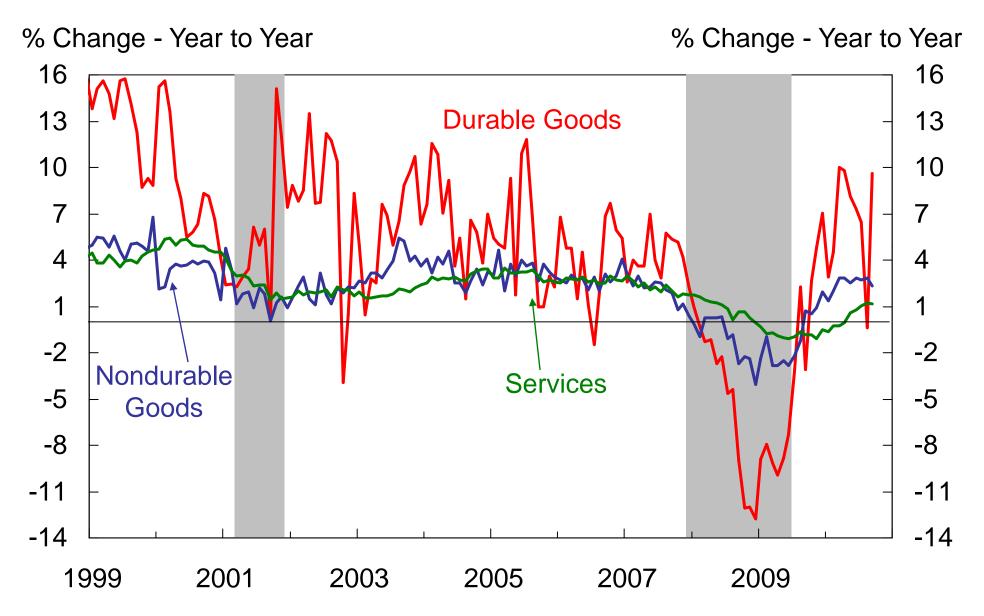


Real PCE, Disposable Income and Personal Savings





Real PCE Components





Retail Sales

(percent change at an annual rate)

	24 Month	12 Month	6 Month	3 Month	1 Month
Retail Sales and Food Services	0.1	7.3	1.6	7.4	7.7
Excluding Motor Vehicles and Parts	-0.2	5.4	1.3	6.8	5.2
Retail Sales	-0.1	7.7	1.5	7.6	8.3
Excluding Motor Vehicles and Parts	-0.5	5.5	1.2	7.0	5.5
Motor Vehicles and Parts Dealers	1.5	17.9	2.7	10.3	20.6
Auto and Other Motor Vehicle Dealers	1.4	19.0	1.5	9.1	20.6
Furniture, Home Furnishings, Electronics, & Appliances	-1.9	4.4	-0.5	4.6	12.8
Furniture and Home Furnishings	-2.2	3.1	-5.2	7.3	6.1
Electronics and Appliances	-1.6	5.6	3.9	2.4	19.1
Building Materials, Garden Equipment, & Supply	-3.8	7.3	-2.1	5.0	7.2
Food and Beverages	1.4	2.7	1.7	7.4	4.5
Health and Personal Care	3.7	3.8	5.3	5.9	6.5
Gasoline Stations	-10.7	8.2	-3.0	15.1	5.2
Clothing and Accessories	1.6	3.2	-3.7	0.1	-2.4
Food Services and Drinking Places	1.7	4.5	2.2	5.4	3.1
BEA Control	0.2	5.3	1.9	7.3	5.4
BEA Control Excluding Gasoline Sales	2.1	4.9	2.6	6.2	5.4

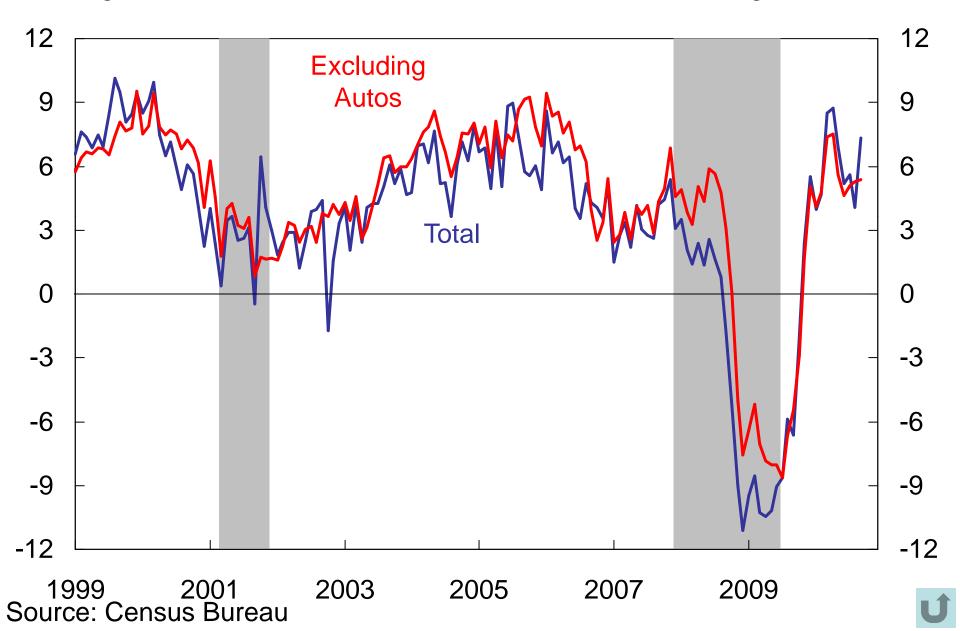
Source: Census Bureau Note: Data through September 2010.



Retail Sales

% Change - Year to Year

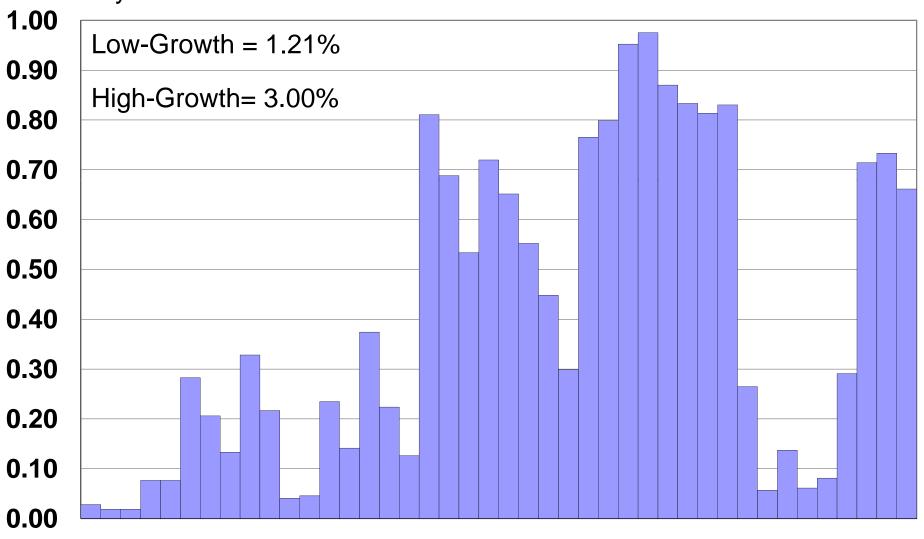
% Change - Year to Year



Low-Growth Regime Probabilities (Chart 1)

Real-Time Assessments for the Most Recent Quarter

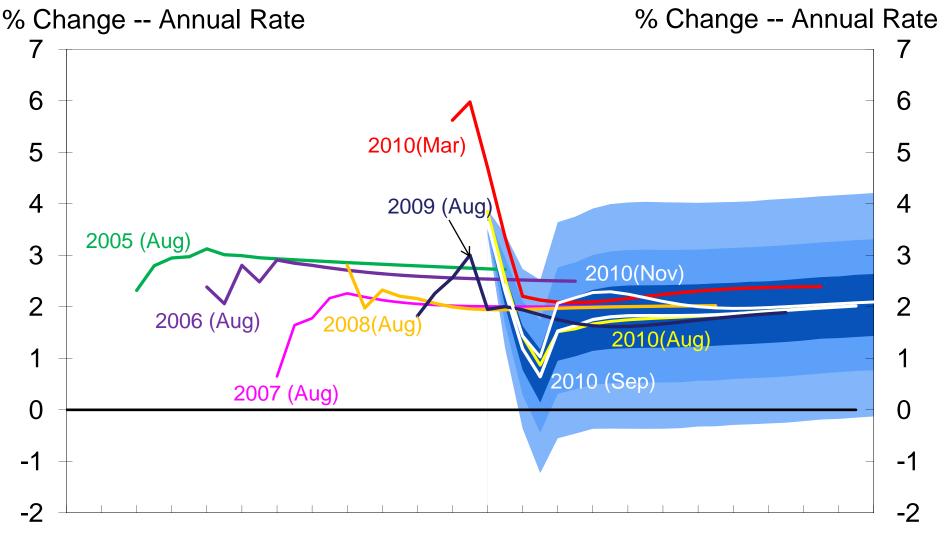
Probability



05M06 05M12 06M06 06M12 07M06 07M12 08M06 08M12 09M09 10M03 10M09

Five-Year Forecasts of Productivity Growth (Chart 2)

4Q moving average

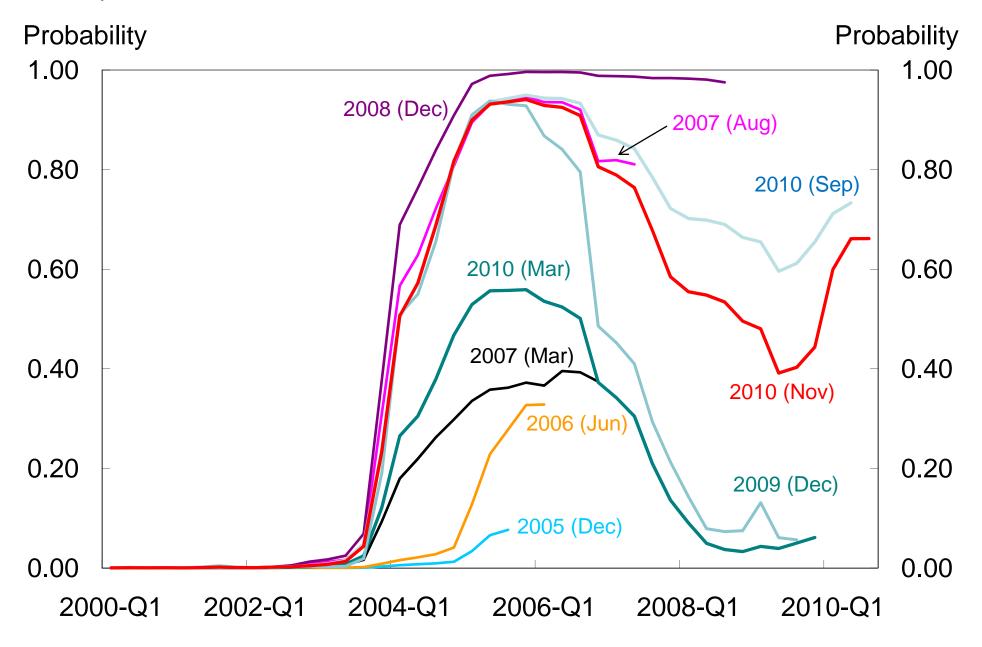


2004-Q2 2005-Q4 2007-Q2 2008-Q4 2010-Q2 2011-Q4 2013-Q2 2014-Q4

Note: The shading represents the 25,50, and 75% probability bands around the November 2010 forecast.

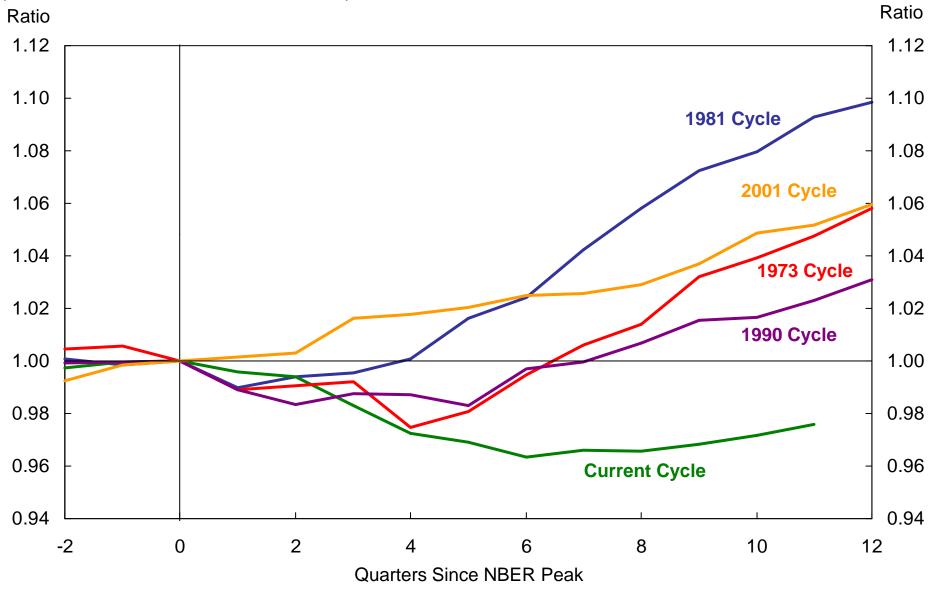
Low-Growth Regime Probabilities (Chart 3)

Retrospective Assessments in Real Time



Real PCE per capita

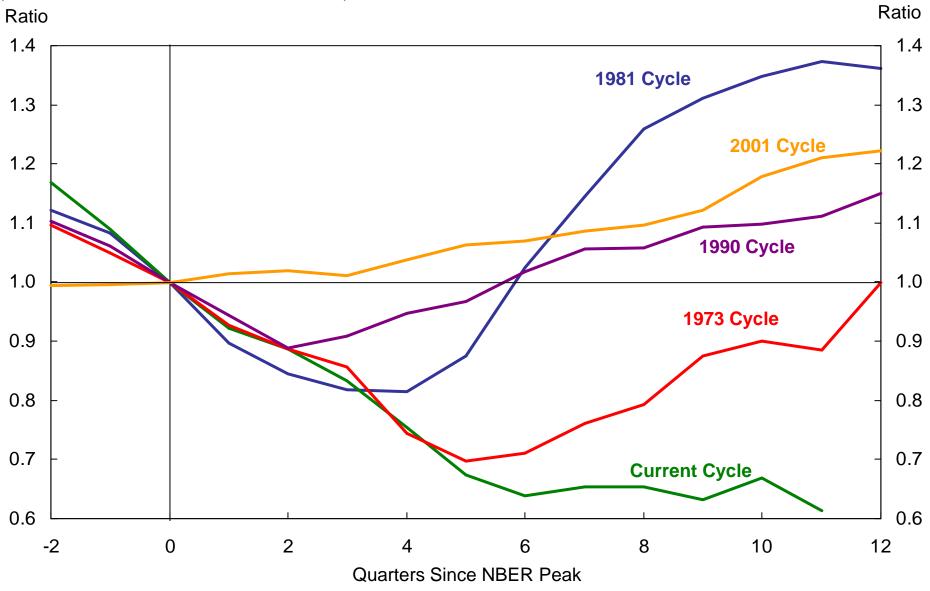
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Labor Statistics

Real Residential Investment

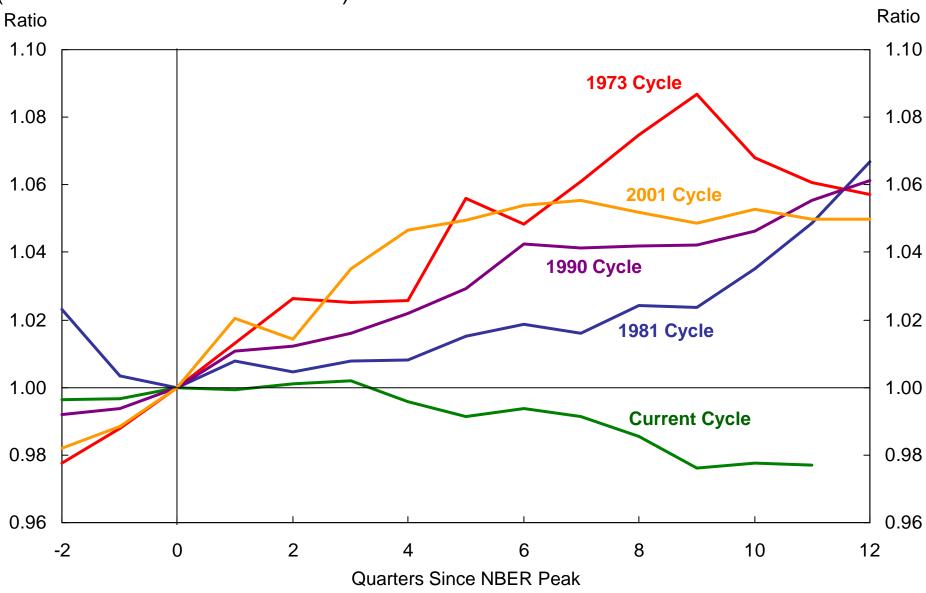
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Labor Statistics

Real State and Local Government

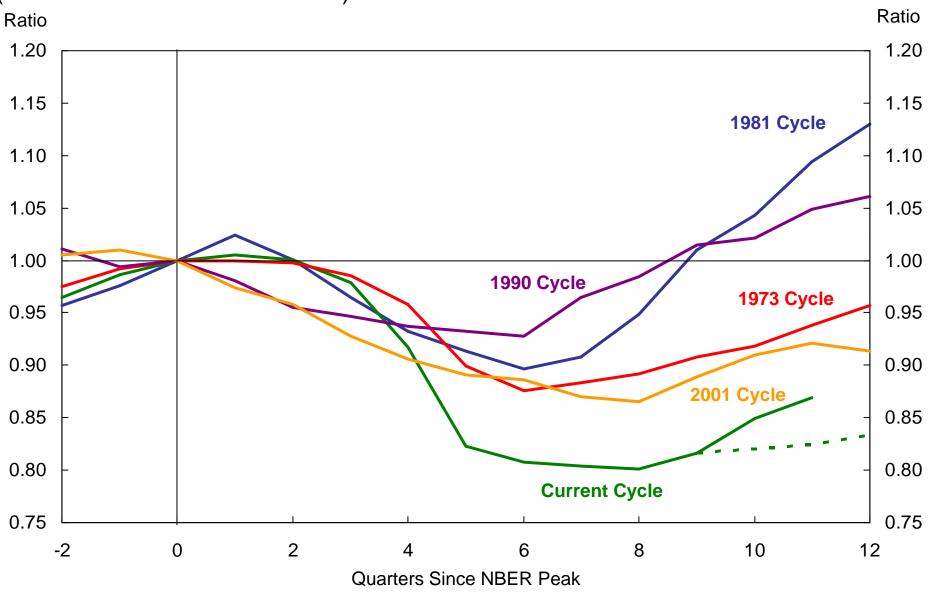
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Labor Statistics

Real Business Fixed Investment

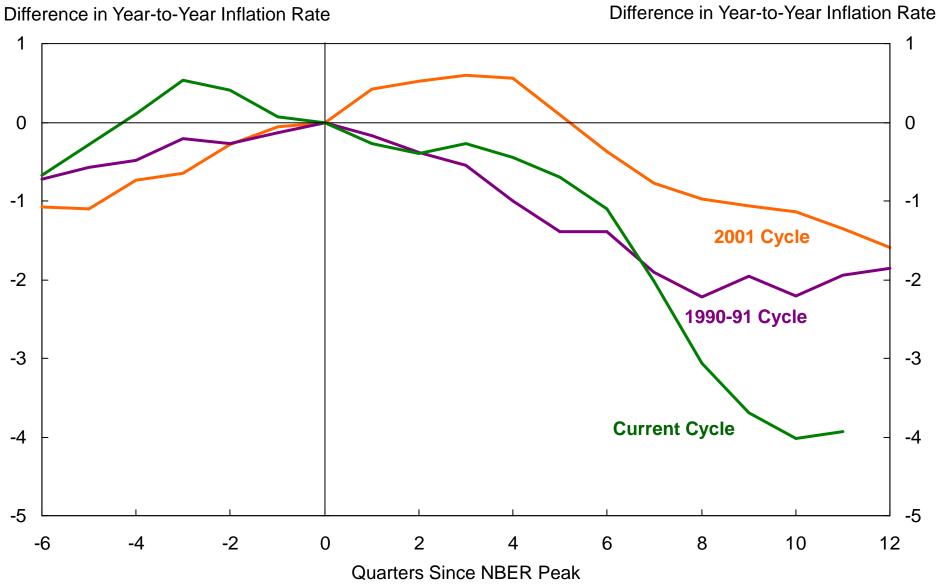
(Series Set to 1.0 at NBER Peak)



Source: Bureau of Labor Statistics

Rent of Primary Residence Inflation

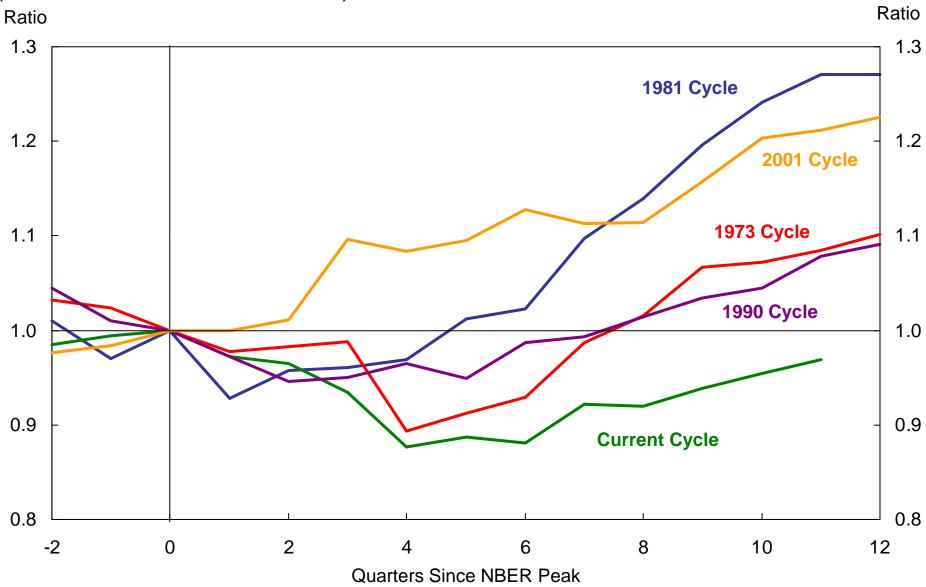
(Series Set to 0.0 at NBER Peak)



Source: Federal Reserve Board, Bureau of Economic Analysis, Census Bureau

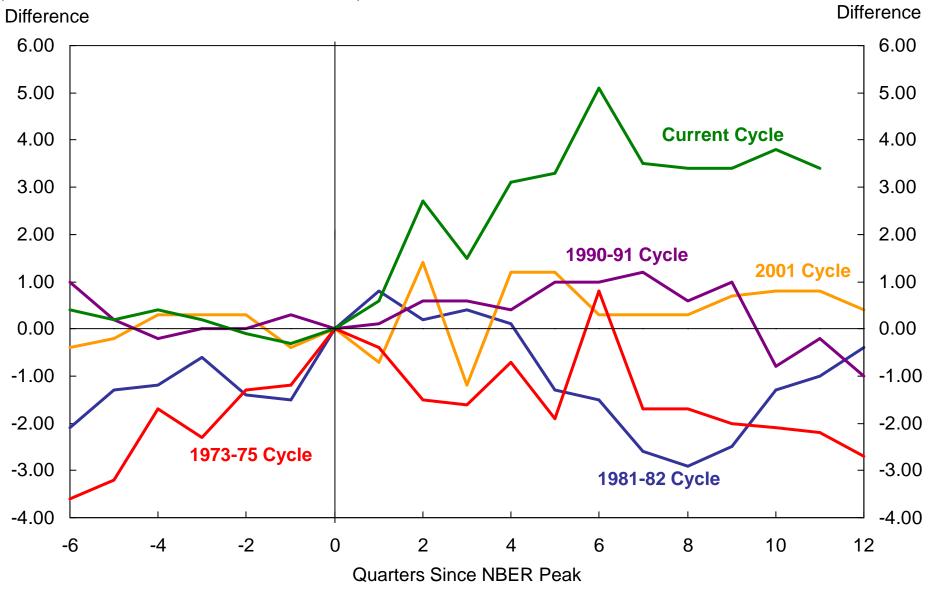
Real Durable PCE

(Series Set to 1.0 at NBER Peak)



Personal Saving Rate

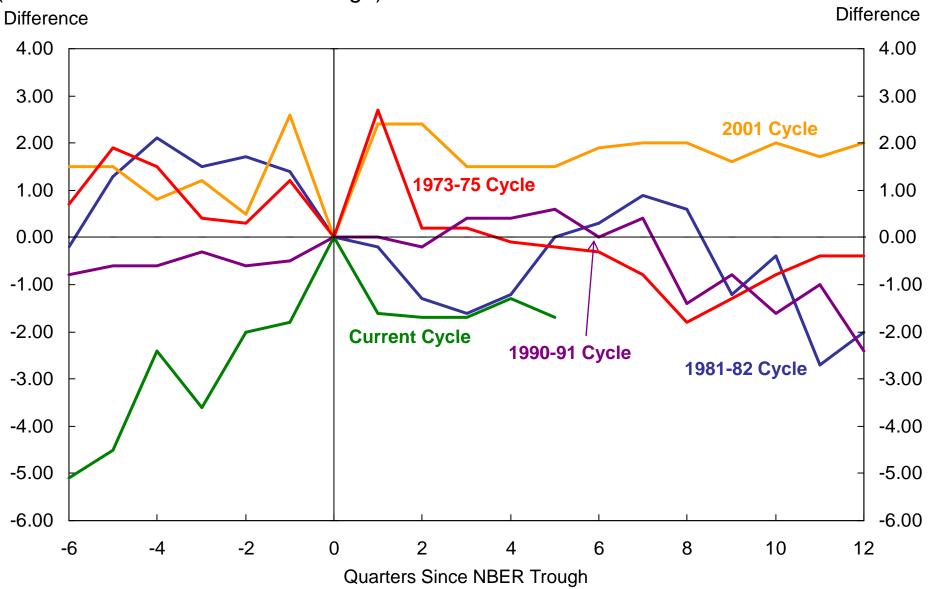
(Series Set to 1.00 at NBER Peak)



Source: Bureau of Economic Analysis

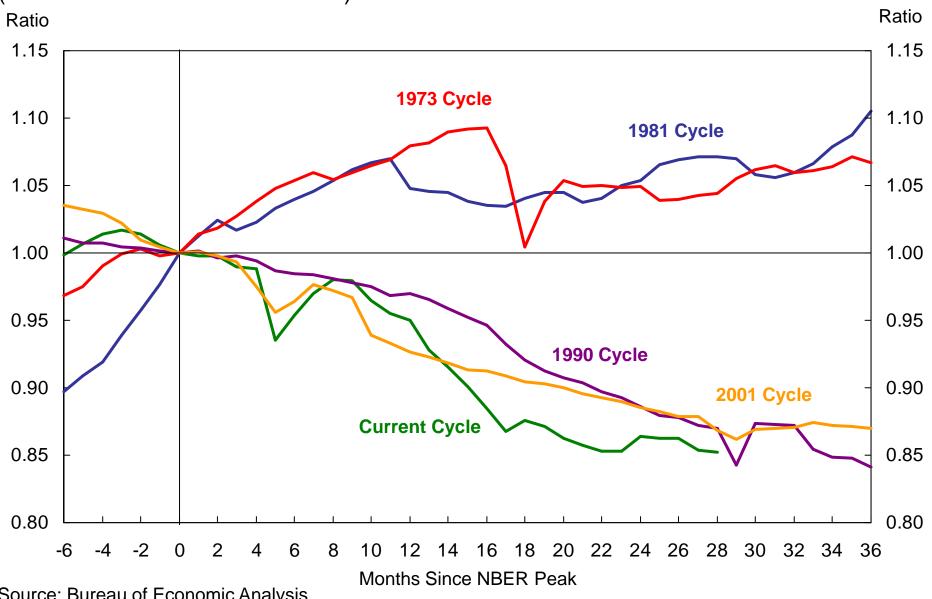
Personal Saving Rate

(Series Set to 1.00 at NBER Trough)



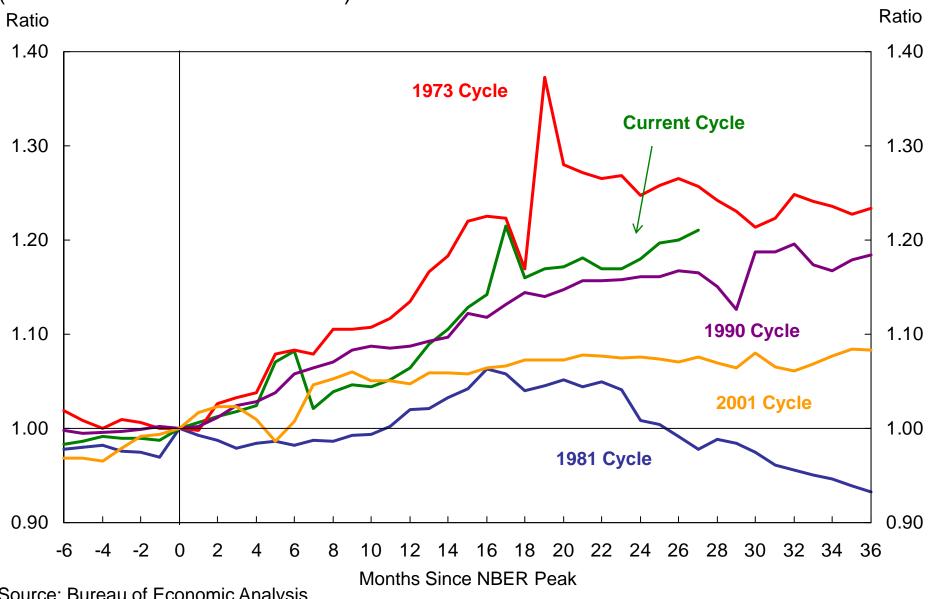
Asset Income as a Percent of Disposable Income

(Series Set to 1.0 at NBER Peak)



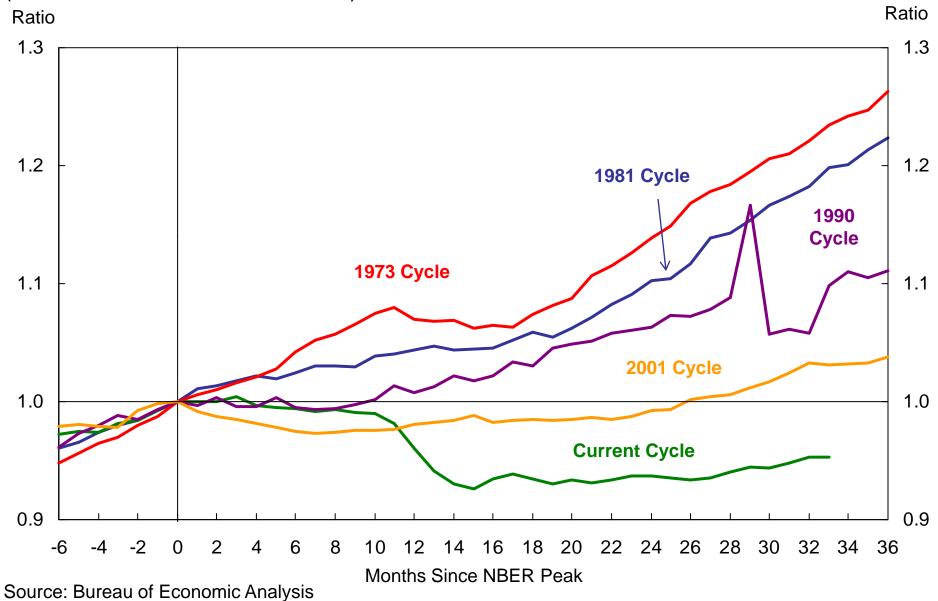
Government Transfers as a Percent of Disposable Income

(Series Set to 1.0 at NBER Peak)



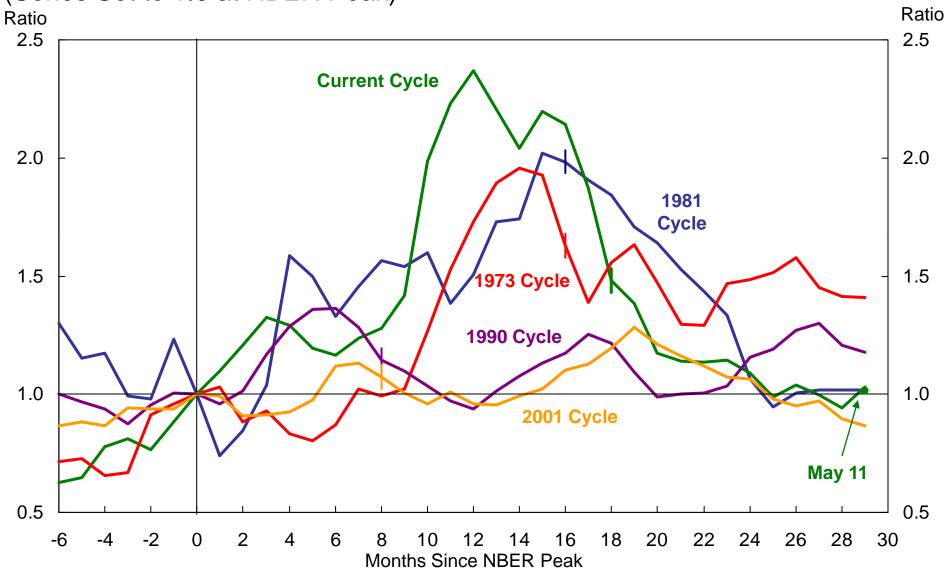
Private Nominal Wage and Salary Disbursements

(Series Set to 1.0 at NBER Peak)



BAA Spread

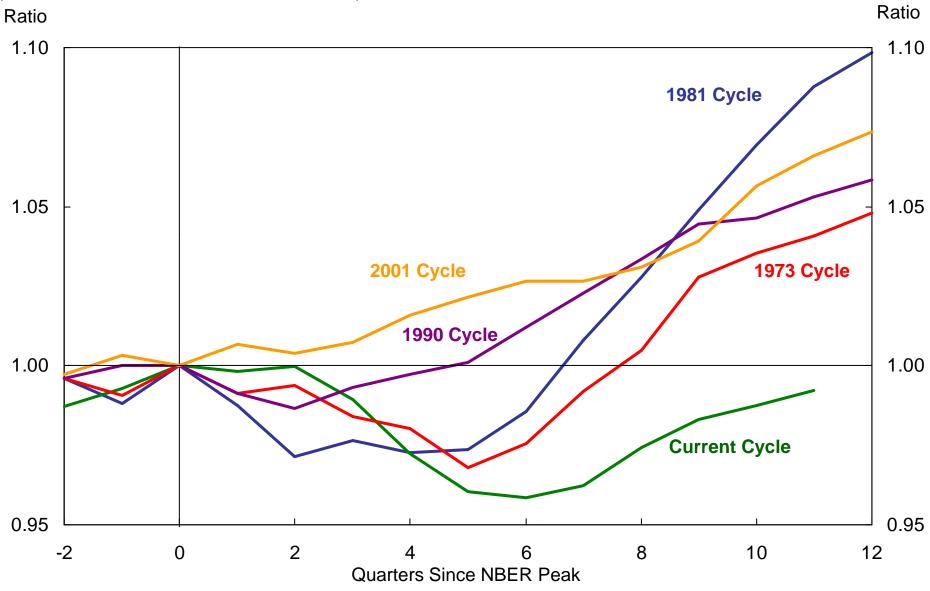
(Series Set to 1.0 at NBER Peak)



Note: Vertical lines represent end of NBER recessions. Current recession assumed to end in 2009Q2.

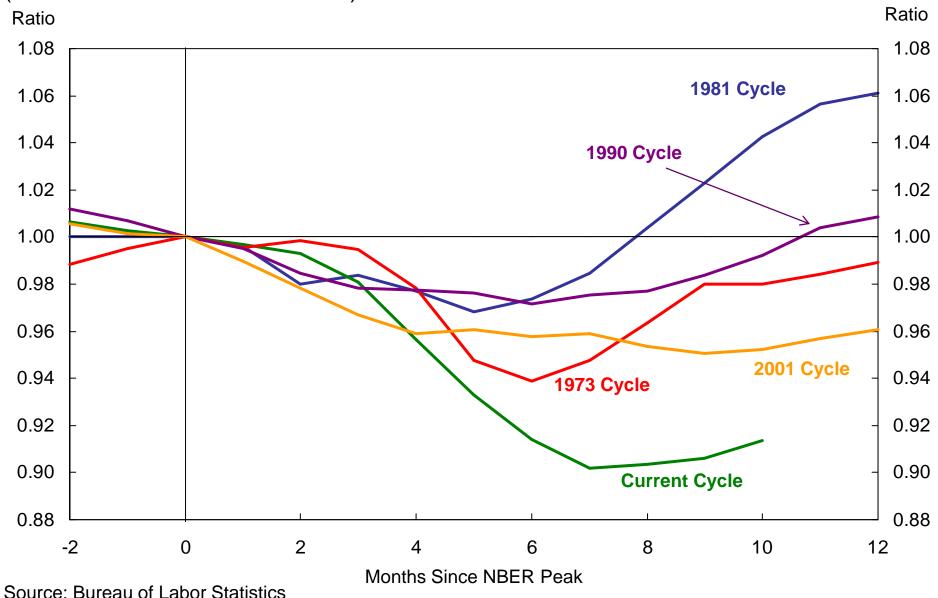
Level of Real GDP

(Series Set to 1.00 at NBER Peak)



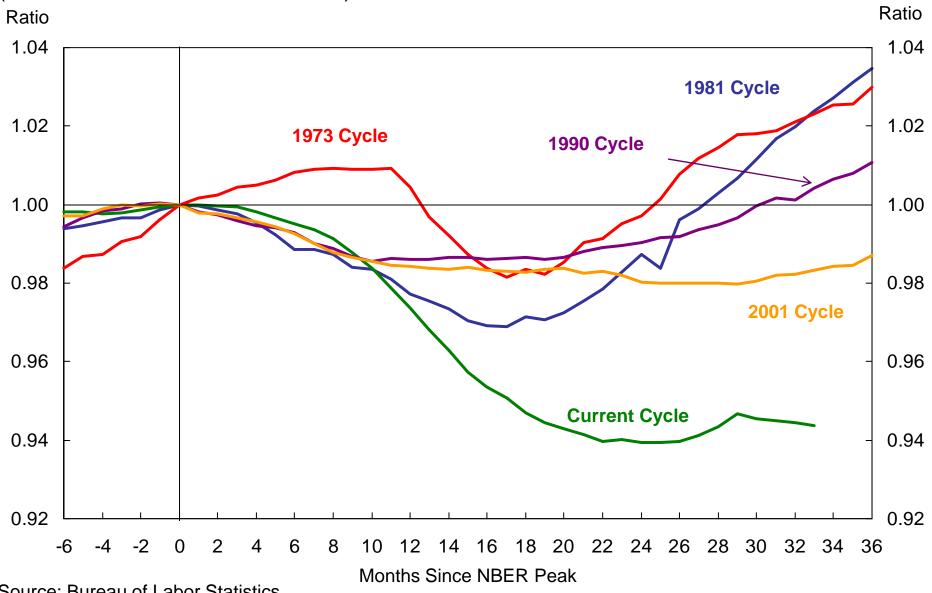
Total Hours of All Persons: Nonfarm Business Sector

(Series Set to 1.0 at NBER Peak)



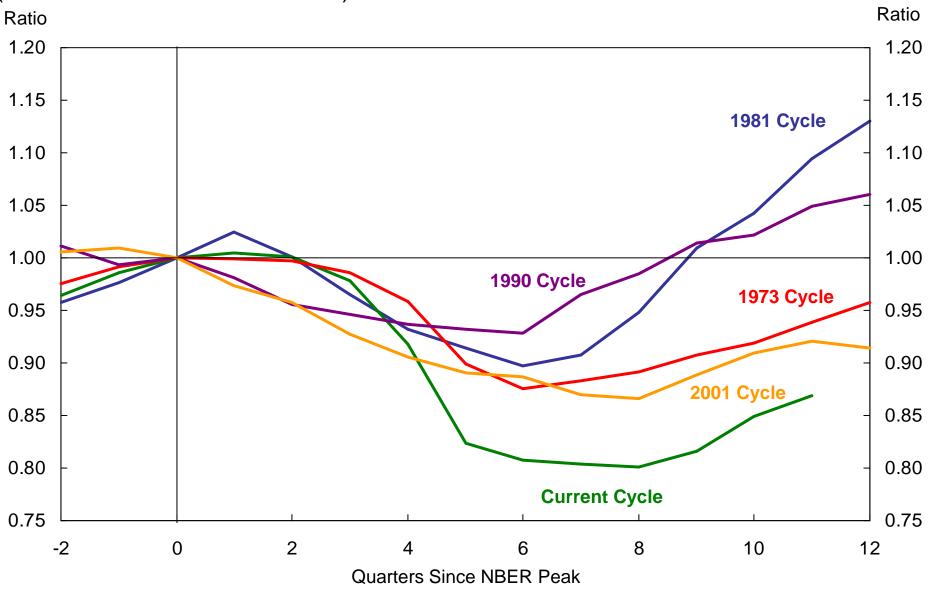
Nonfarm Payroll Employment

(Series Set to 1.0 at NBER Peak)



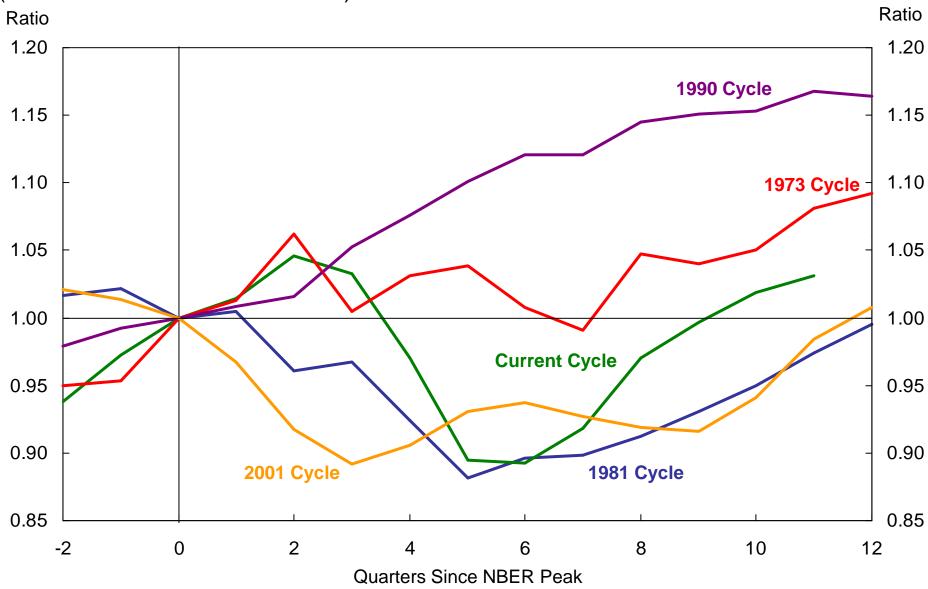
Real Business Fixed Investment

(Series Set to 1.0 at NBER Peak)

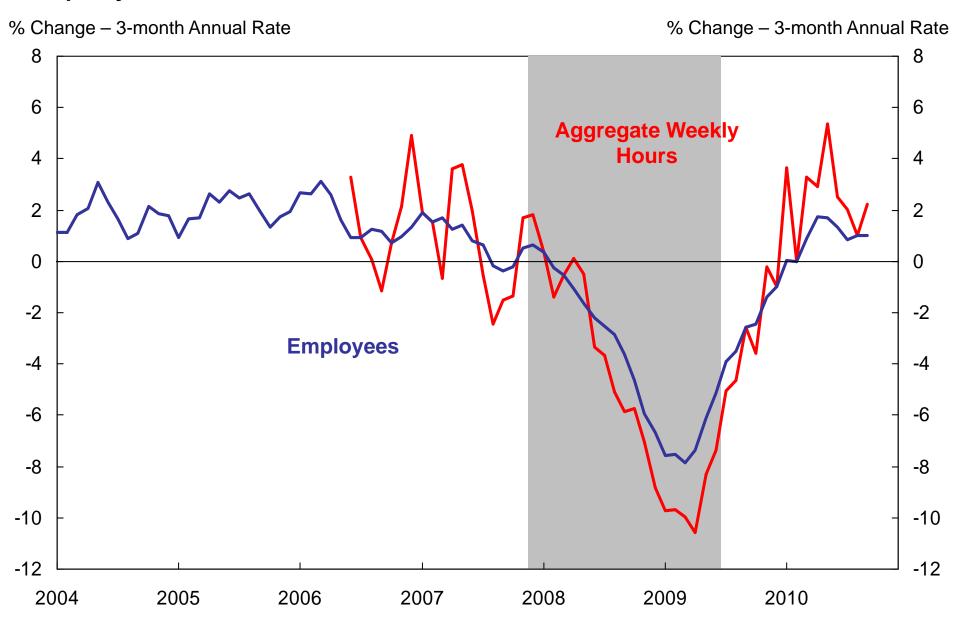


Real Exports

(Series Set to 1.0 at NBER Peak)



Employment

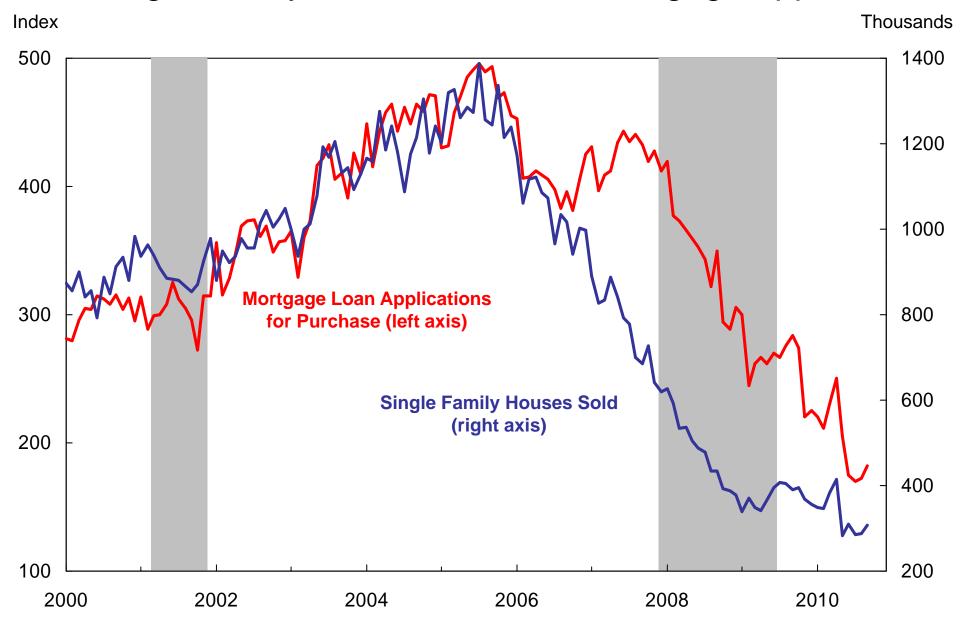


Source: Bureau of Labor Statistics Note: Both ser

Note: Both series are private industries only.

142

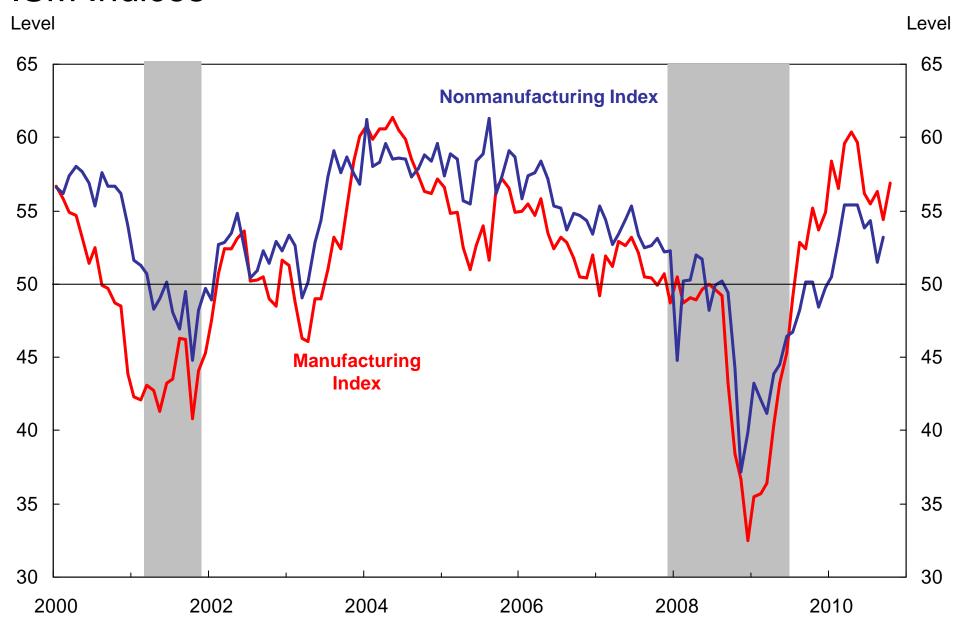
New Single Family Houses Sold and Mortgage Applications



Source: Census Bureau and MBA

Note: March 1990 = 100 for MBA index.

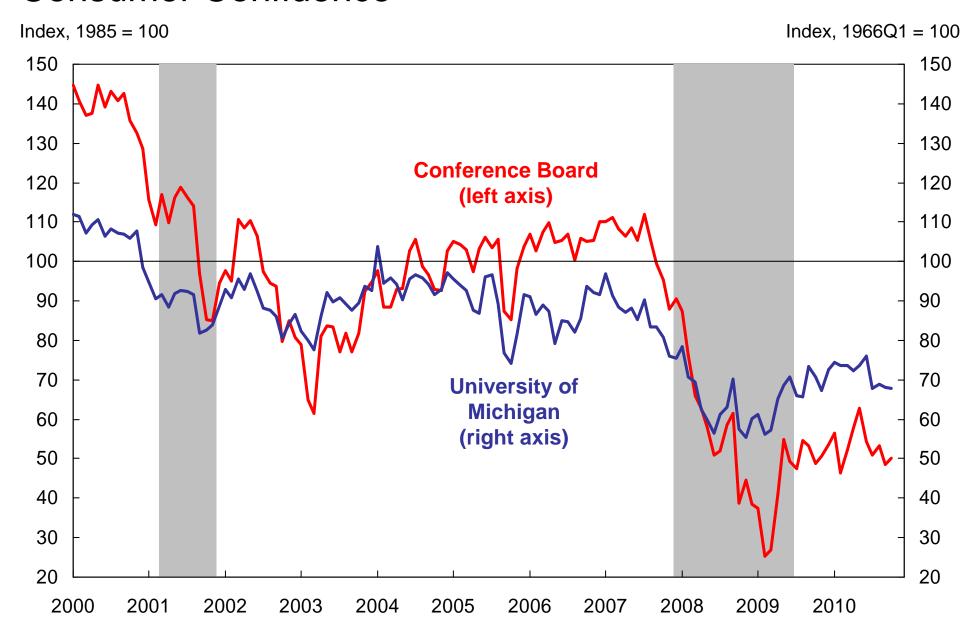
ISM Indices



Source: Institute of Supply Management

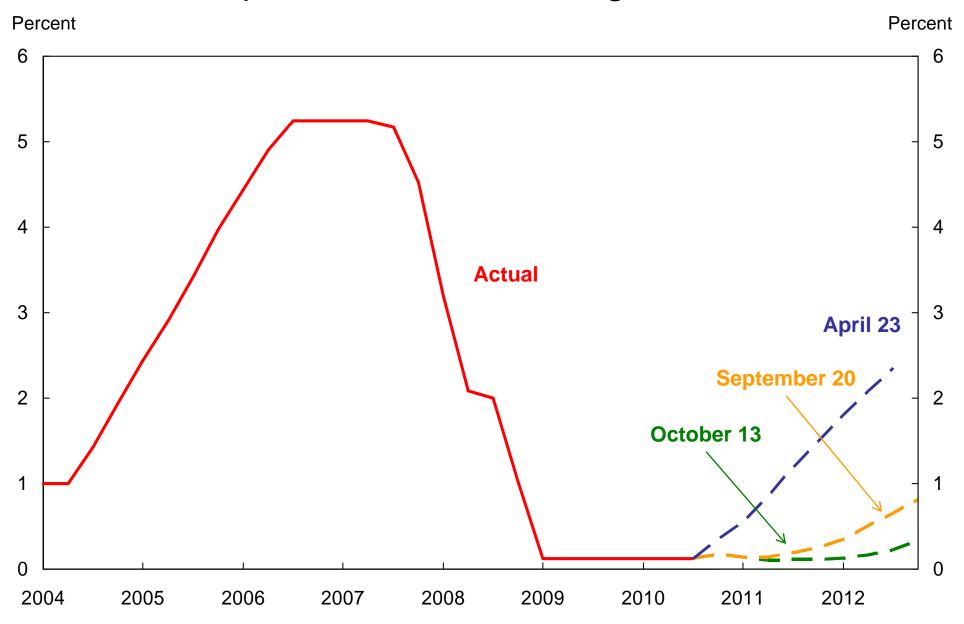
Note: Above 50 = Increasing

Consumer Confidence



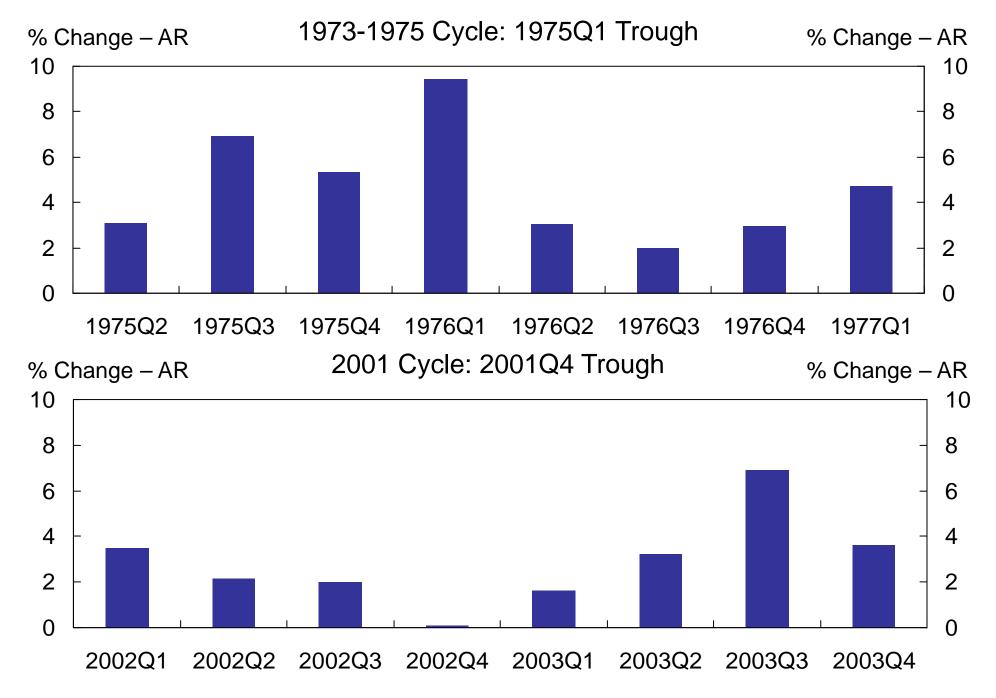
Source: Conference Board and University of Michigan

Actual and Expected Fed Funds Target



Source: Federal Reserve Board

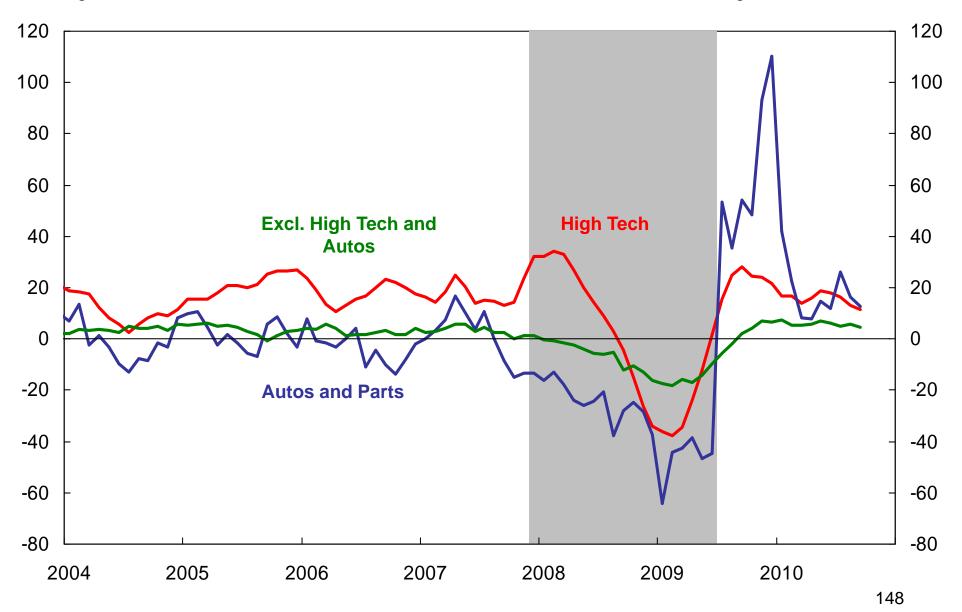
Post-Recession Growth Rates



Industrial Production

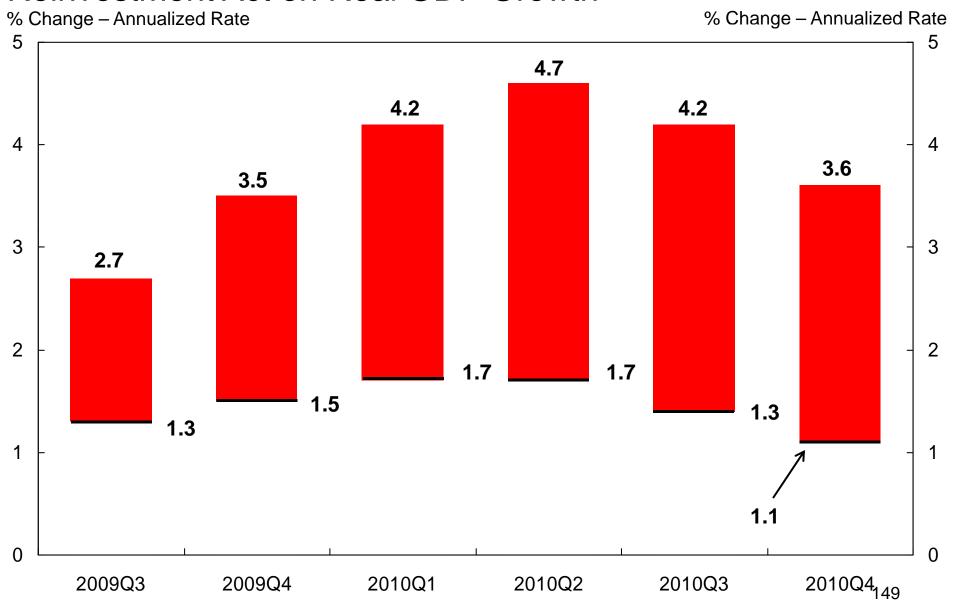
% Change – 6-month Annual Rate

% Change – 6-month Annual Rate



Source: Federal Reserve Board

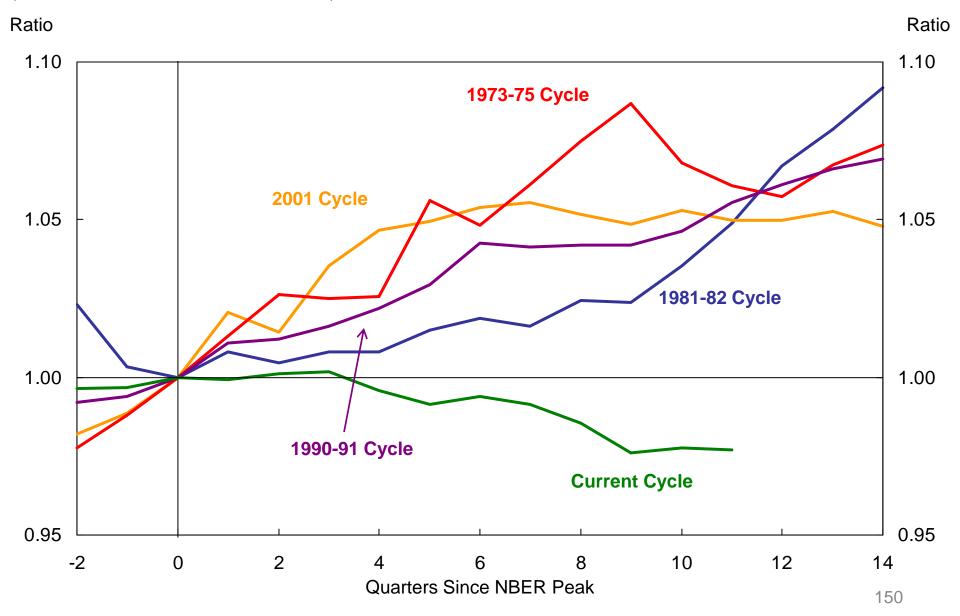
Range of Estimated Effects of the American Recovery and Reinvestment Act on Real GDP Growth



Source: Congressional Budget Office

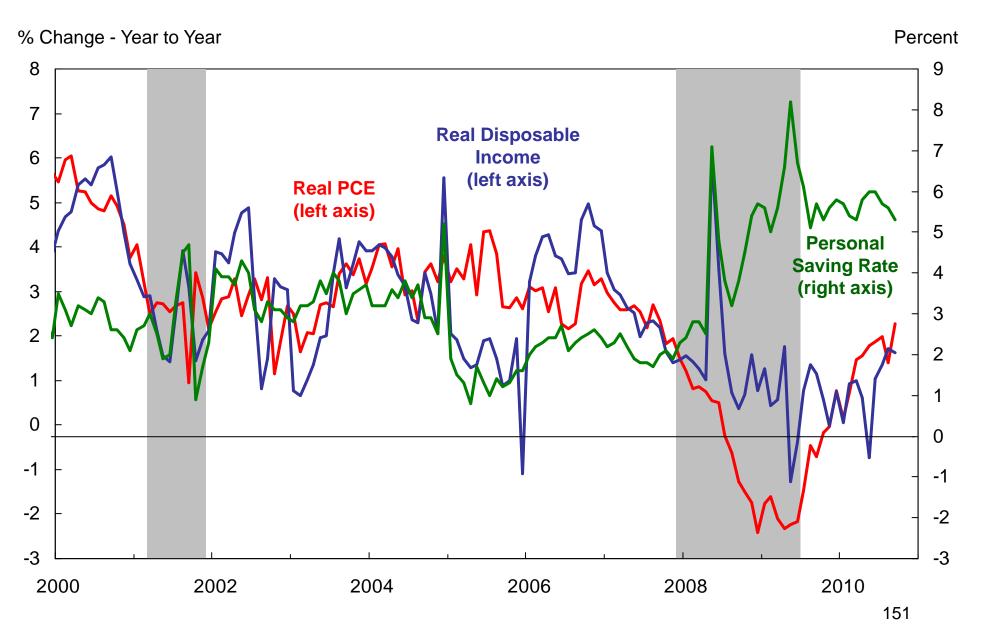
Real State and Local Government

(Series Set to 1.00 at NBER Peak)



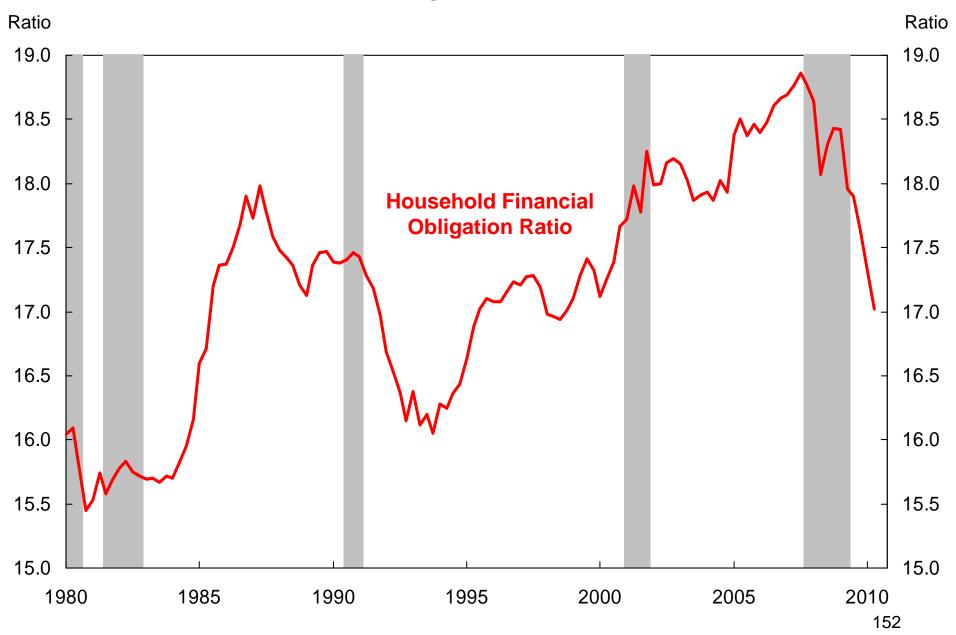
Source: Bureau of Economic Analysis

Real PCE, Disposable Income and Personal Saving Rate



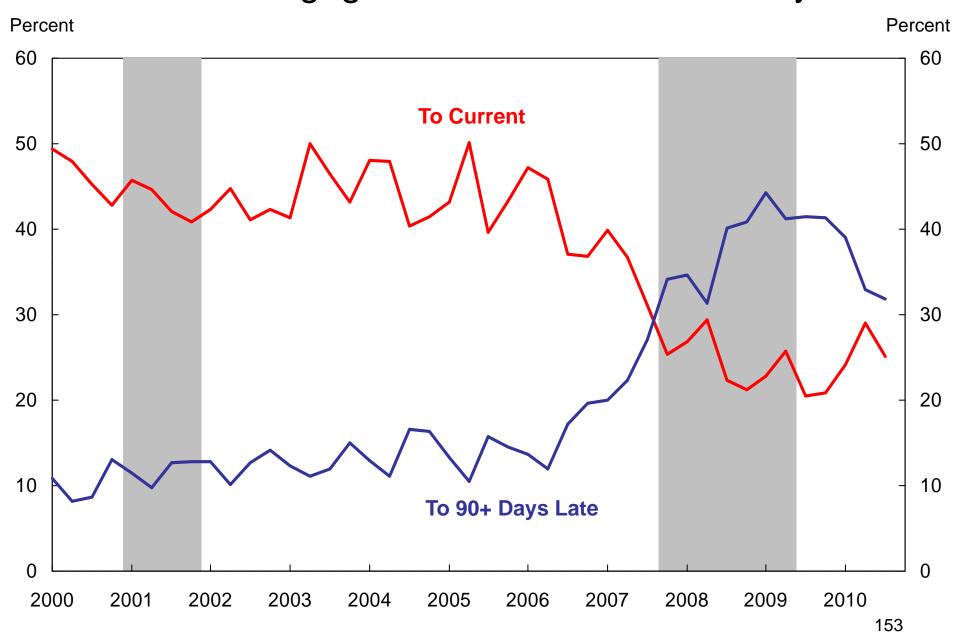
Source: Bureau of Economic Analysis

Household Financial Obligation Ratio



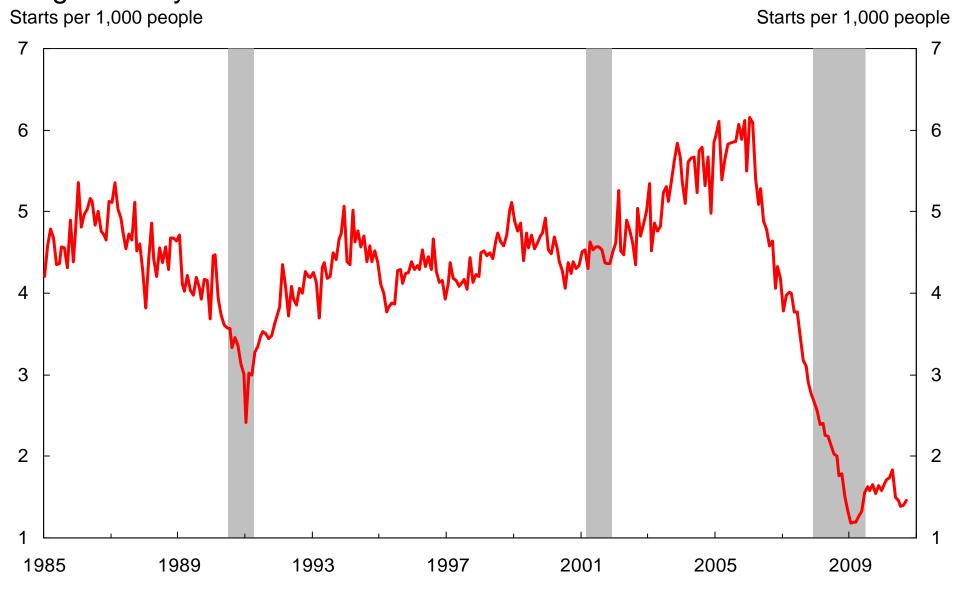
Source: Federal Reserve Board

Transition of Mortgage Accounts from 30-60 Days Late



Source: FRBNY Equifax Panel Dataset

Ratio of Housing Starts to Population Single-Family Homes

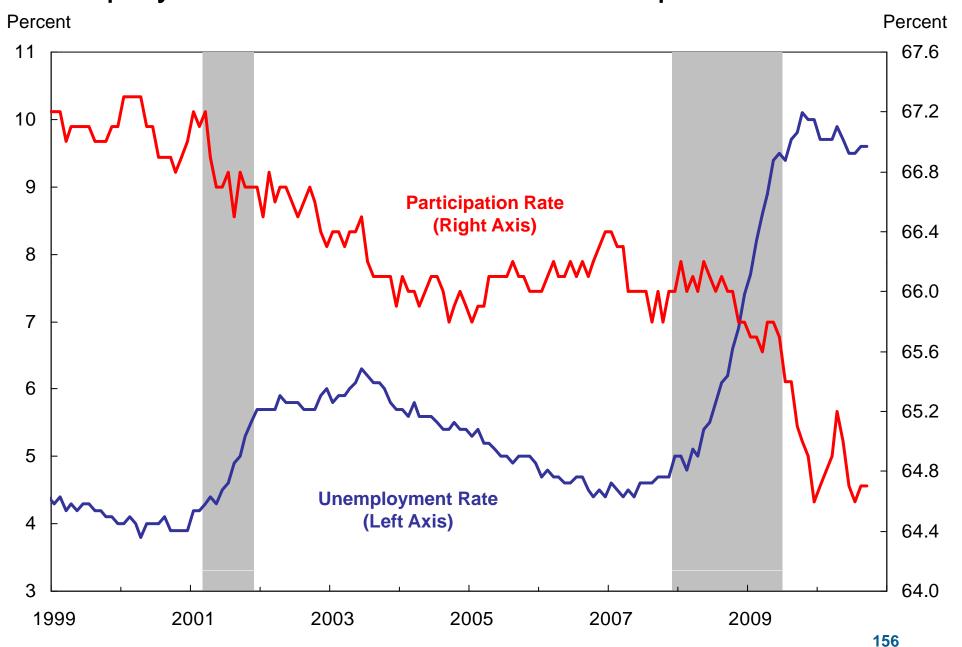


Source: Census Bureau

FOMC Statement: September 21, 2010

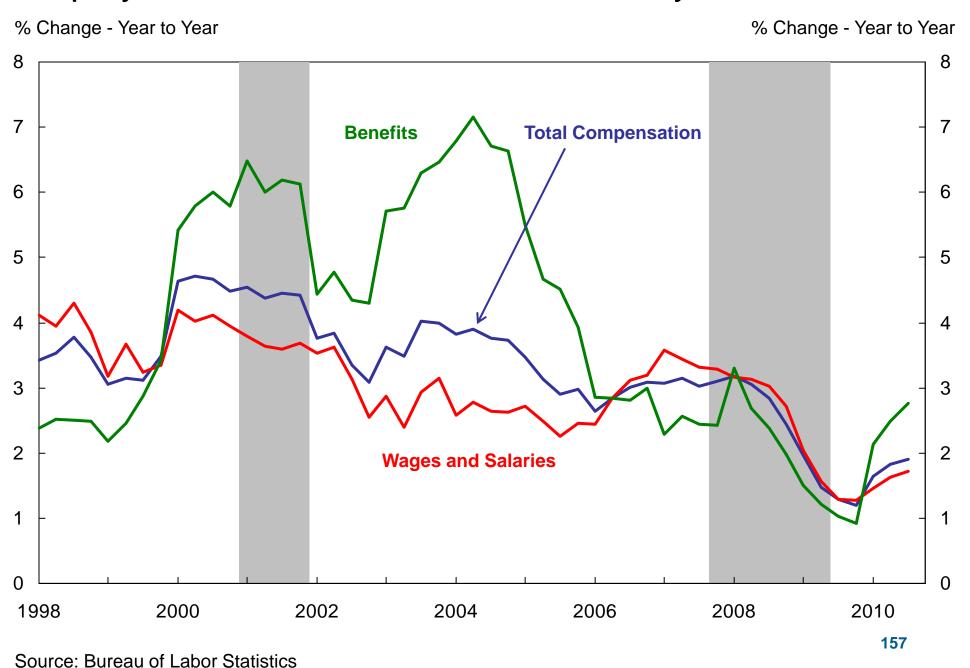
- "Information received since ... August indicates that the pace of recovery in output and employment has slowed in recent months."
- "... the pace of economic recovery is likely to be modest in the near term."
- "Measures of underlying inflation are currently at levels somewhat below those the Committee judges most consistent, over the longer run, with its mandate to promote maximum employment and price stability."
- With substantial resource slack...inflation is likely to remain subdued for some time..."
- "The Committee...continues to anticipate that economic conditions...are likely to warrant exceptionally low levels for the federal funds rate for an extended period."

Unemployment and Labor Force Participation Rates

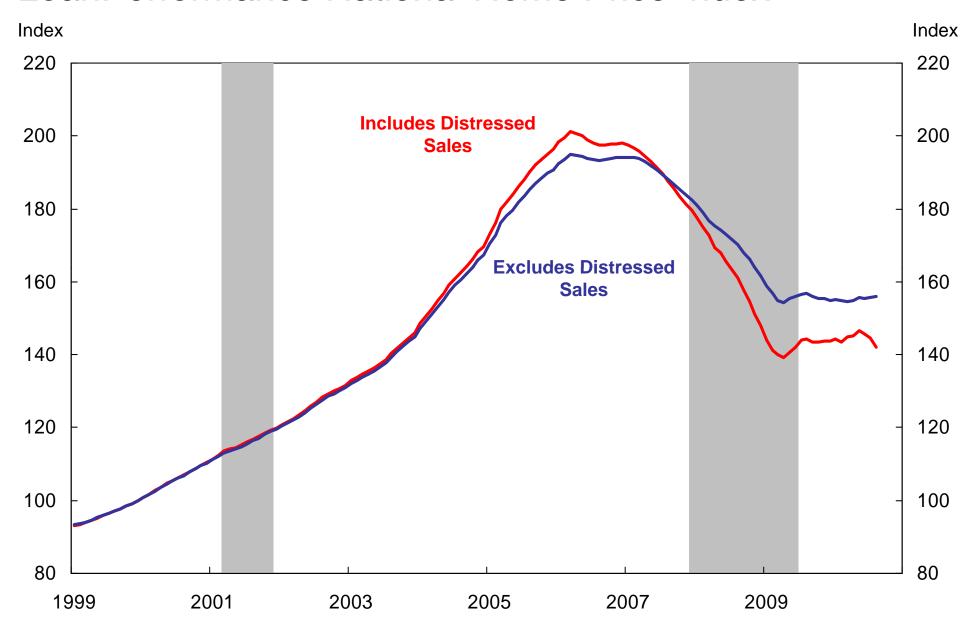


Source: Bureau of Labor Statistics

Employment Cost Index: Private Industry Workers



LoanPerformance National Home Price Index



Source: LoanPerformance/Haver Analytics

Total Debt by Payment Status, Billions of Dollars

Total Debt by Payment Status Billions of Dollars

	2005-Q1		<u>2008-Q3</u>			<u>2010-Q3</u>		
	Amount of Total Debt by		Amount of Total Debt by		Percent Change from	Amount of Total Debt by		Percent Change from
Status	Payment Status	Percent of Total Debt	Payment Status	Percent of Total Debt	Previous Period	Payment Status	Percent of Total Debt	Previous Period
Current	8700.0	95.9%	11400.0	91.4%	31.0%	10270.0	88.9%	-9.9%
30 Days Late	136.0	1.5%	289.0	2.3%	112.5%	239.1	2.1%	-17.3%
60 Days Late	37.4	0.4%	138.0	1.1%	269.0%	115.0	1.0%	-16.7%
90+ Days Late	197.9	2.2%	641.5	5.1%	224.2%	927.9	8.0%	44.6%
Total	9071.3	100.0%	12468.5	100.0%	37.4%	11552.0	100.0%	-7.4%

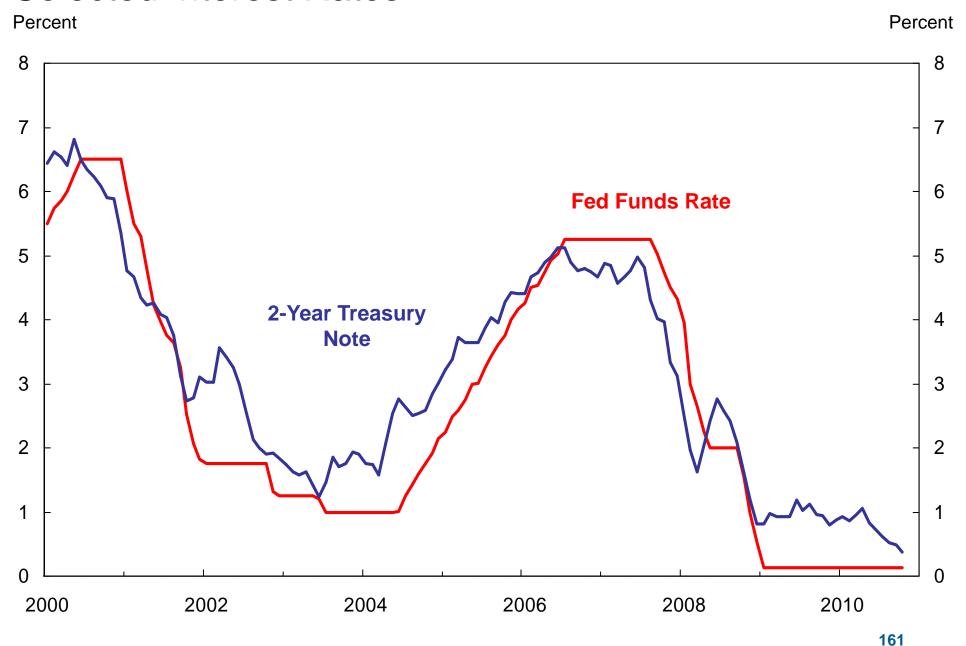
Source: FRBNY Equifax Panel Dataset

FOREIGN GROWTH OUTLOOK

	2010 Nov (Jan)	2011 Nov (Jan)
Euro Area	2.1 (2.0)	1.8 (2.5)
Japan	1.7 (1.8)	1.2 (1.0)
U.K.	3.1 (2.4)	2.2 (3.0)
Canada	2.9 (2.6)	2.4 (3.0)
China	9.1 (8.7)	8.5 (8.5)
Asia-4 NIEs	6.2 (4.1)	5.7 (4.2)
Mexico	3.2 (3.0)	3.5 (3.6)
Foreign Economies	3.6 (3.1)	3.2 (3.3)



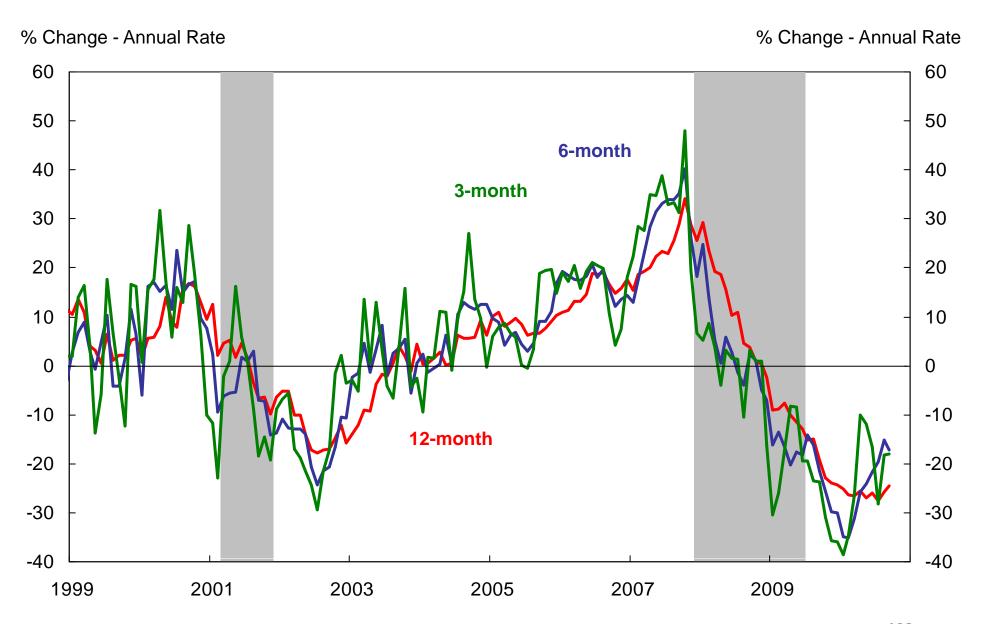
Selected Interest Rates



Source: Federal Reserve Board

Note: 2-Year Treasury Note Yield at Constant Maturity.

Private Nonresidential Construction over Various Horizons



Source: Census Bureau