

## Income Mobility

Every year the U.S. Census Bureau ranks all households by annual household income and divides this distribution into quintiles.<sup>1</sup> Income quintiles from different years are often compared to demonstrate the growing income inequality over time between, say, the poorest 20 percent of households and the wealthiest 5 percent of households. For example, in 1970 the income of the wealthiest 5 percent of households was 6.3 times greater than the income of the poorest 20 percent of households, whereas in 2007 the income of the wealthiest 5 percent of households was 8.8 times greater than the income of the poorest 20 percent of households.<sup>2</sup> When such comparisons are made, it is implicitly assumed that each quintile contains the same households over time.

For most people, income increases over time as they move from a usually low-paying first job to better-paying jobs later in life. Some others, however, may lose income over time due to business cycle contractions, demotions, career changes, retirement, and so on. Because incomes are not constant over time, the same households do not necessarily remain in the same income quintiles. Thus, comparing income quintiles from different years is a proverbial apples-to-oranges comparison because the households compared are at different stages in their earnings profile.

A recent study examined income mobility in the United States from 1996 to 2005.<sup>3</sup> Using data from individual tax returns, the study documented household movement along the distribution of real income over the 10-year period. As shown in the upper panel of the chart, nearly 58 percent of the households in the lowest income quintile (lowest 20 percent) in 1996 moved to a higher income quintile by 2005. Similarly, nearly 50 percent of the households in the second-lowest quintile in 1996 moved to a higher income quintile by 2005. Even a significant number of households in the third and fourth income quintiles in 1996 moved to a higher quintile by 2005.

The study also documented declines in household income. Of particular note are the findings regarding the wealthiest households. As shown in the lower panel of the chart, more than 57 percent of the wealthiest 1 percent of households in 1996 fell out of that category by 2005. Similarly, more than 45 percent of the wealthiest 5 percent of households in 1996 fell out of that category by 2005.

Over time a significant number of households move to higher or lower positions along the income distribution. As a result, public policies such as income taxation and income redistribution affect “classes” of people differently over each

person’s lifetime. In addition, income mobility muddies the picture of income inequality derived from a simple comparison of income quintiles from different years because such comparisons incorrectly implicitly assume that each income quintile contains the same households over time.

—Thomas A. Garrett

<sup>1</sup> Here the Census defines (gross) income as money received on a regular basis from wages, interest and dividends, and government transfer payments.

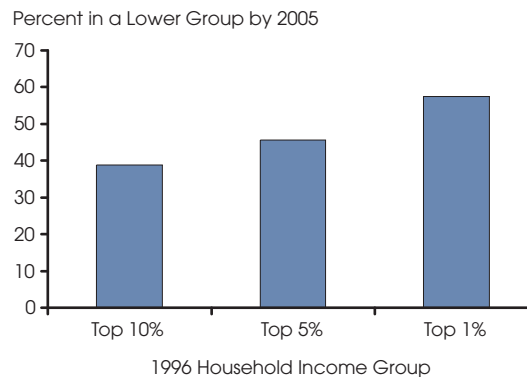
<sup>2</sup> See U.S. Census Bureau, Income Inequality; [www.census.gov/hhes/www/income/data/historical/inequality/index.html](http://www.census.gov/hhes/www/income/data/historical/inequality/index.html). All data referred to here are from Table H-1 for all races.

<sup>3</sup> Auten, Gerald and Gee, Geoffrey. “Income Mobility in the United States: New Evidence from Income Tax Data.” *National Tax Journal*, June 2009, 62(2), pp. 301-28.

### Movement to Higher Income Quintiles, 1996 to 2005



### Movement to Lower Income Groups, 1996 to 2005



Views expressed do not necessarily reflect official positions of the Federal Reserve System.

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## Conventions used in this publication:

1. Shaded areas indicate recessions, as determined by the National Bureau of Economic Research.
2. *Percent change* refers to simple percent changes. *Percent change from year ago* refers to the percent change from the same month or quarter during the previous year. *Compounded annual rate of change* shows what the growth rate would be over an entire year if the same simple percent change continued for four quarters or twelve months. The compounded annual rate of change of  $x$  between the previous quarter  $t-1$  and the current quarter  $t$  is:  $[(x_t/x_{t-1})^4 - 1] \times 100$ . For monthly data replace 4 with 12.
3. All data with significant seasonal patterns are adjusted accordingly, unless labeled NSA.

We welcome your comments addressed to:

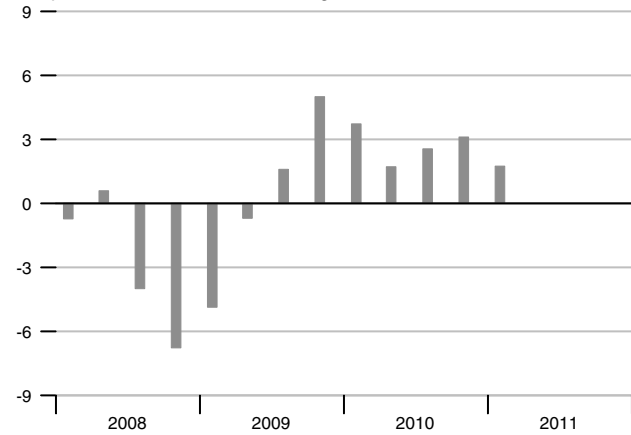
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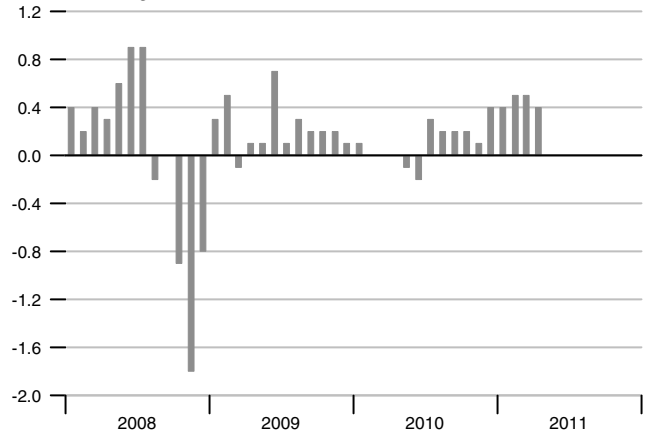
### Real GDP Growth

Compounded annual rates of change



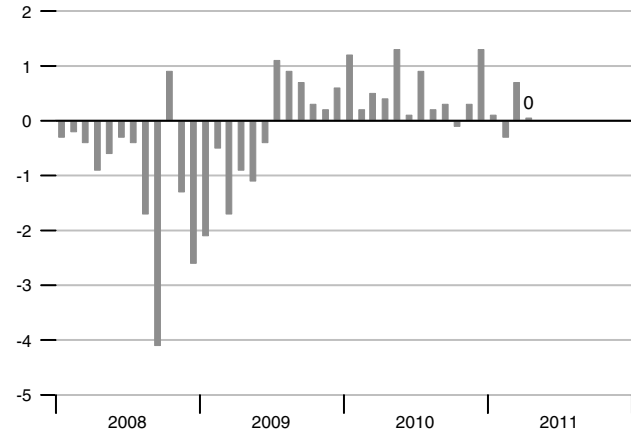
### Consumer Price Index

Percent change



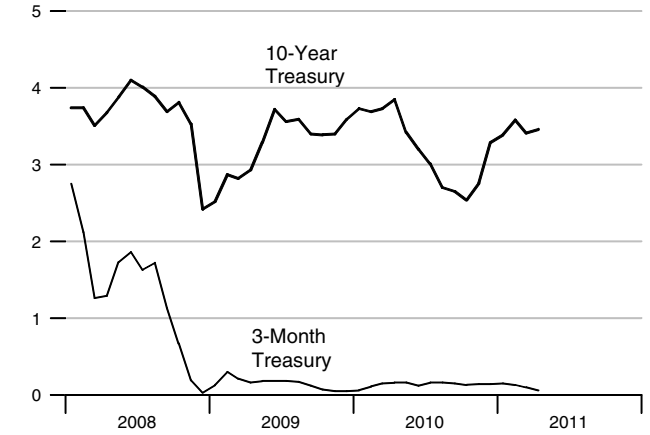
### Industrial Production

Percent change



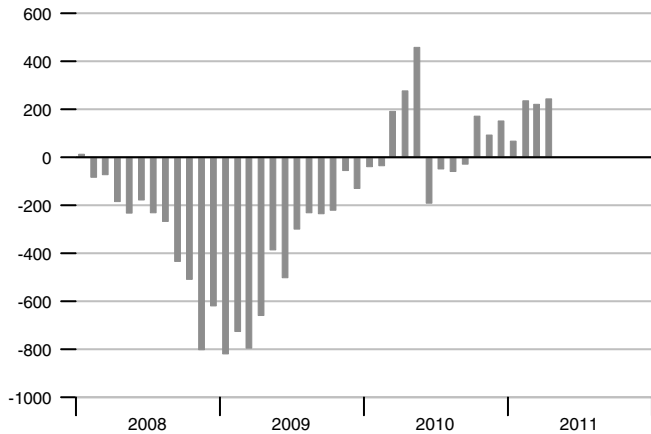
### Interest Rates

Percent



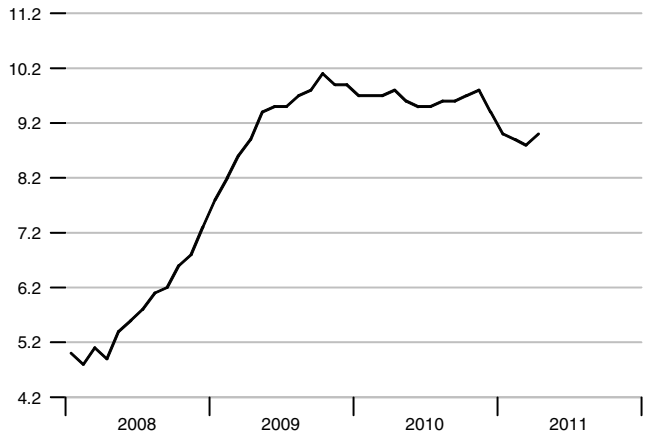
### Change in Nonfarm Payrolls

Thousands



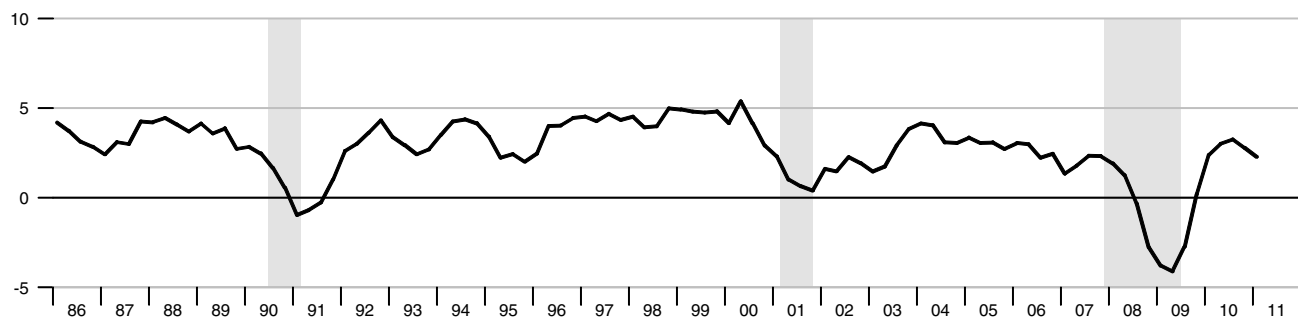
### Unemployment Rate

Percent of labor force



### Real Gross Domestic Product

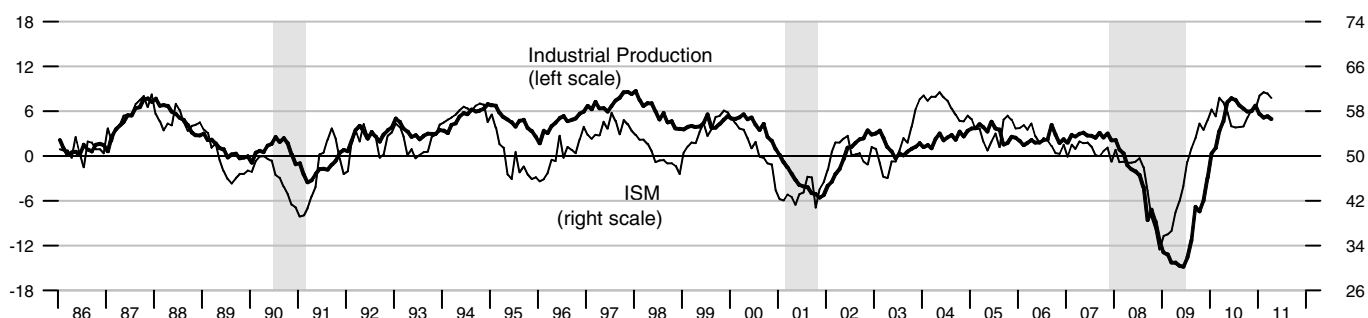
Percent change from year ago



### Industrial Production and Institute for Supply Management (ISM) Indexes

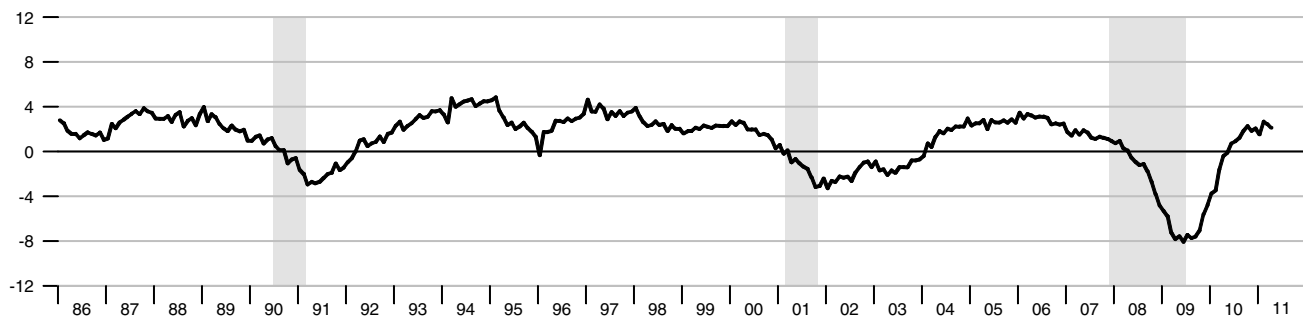
Percent change from year ago

Index



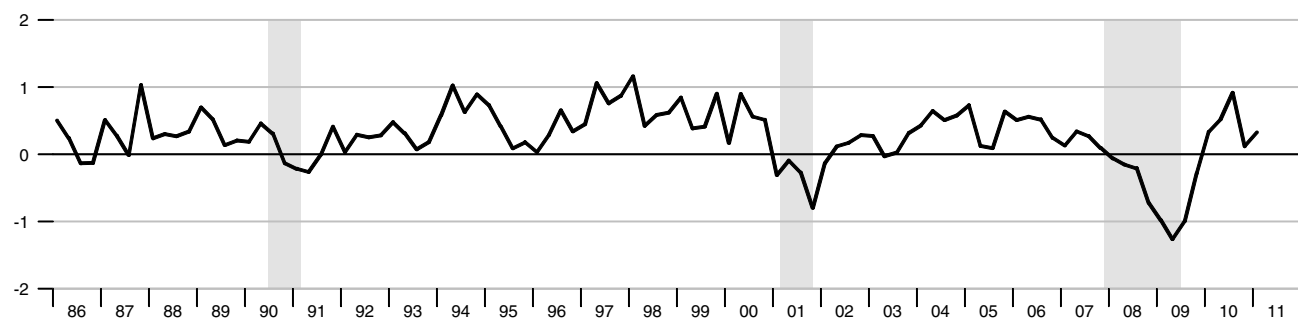
### Aggregate Private Nonfarm Hours

Percent change from year ago



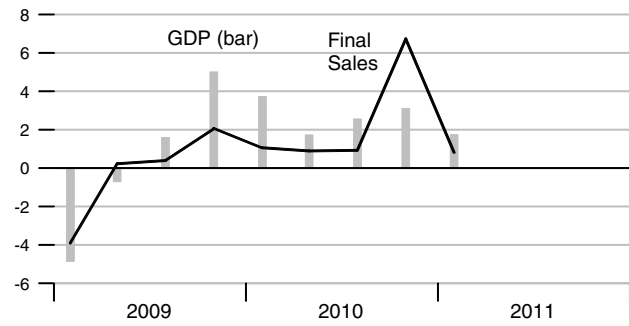
### Real Change in Private Inventories

Percent of GDP



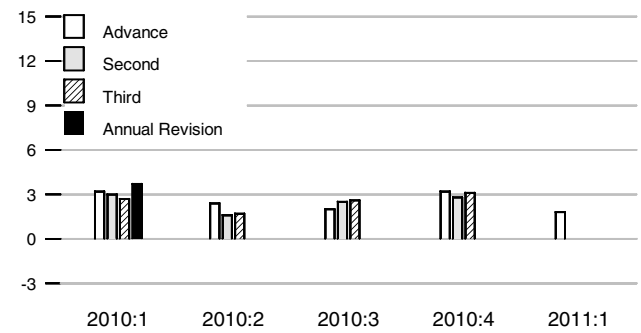
### Real Final Sales and GDP

Compounded annual rates of change



### Real GDP Revisions

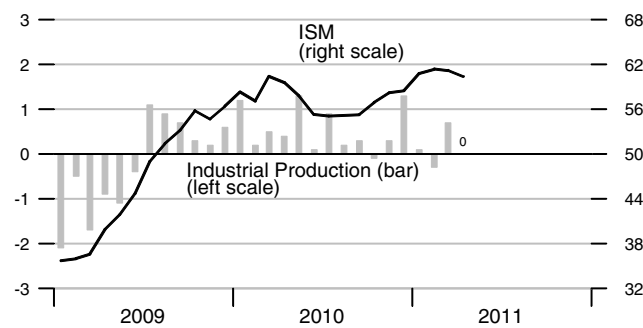
Compounded annual rates of change



### Industrial Production and ISM Index

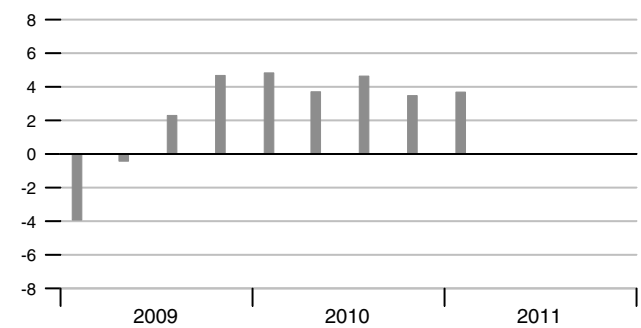
Percent change

Index



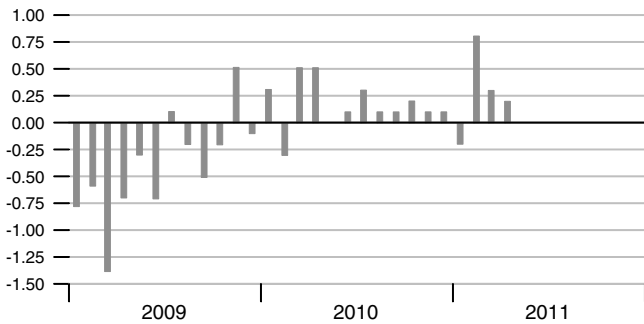
### Nominal Gross Domestic Product

Compounded annual rates of change



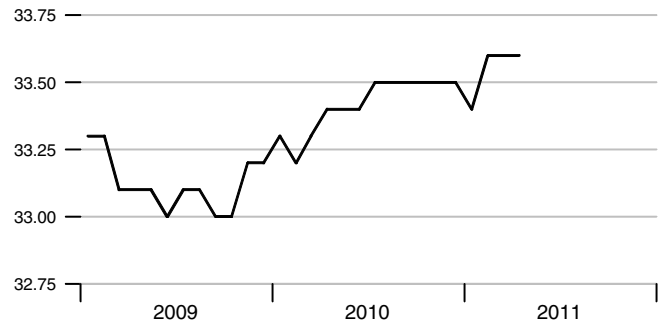
### Aggregate Private Nonfarm Hours

Percent change



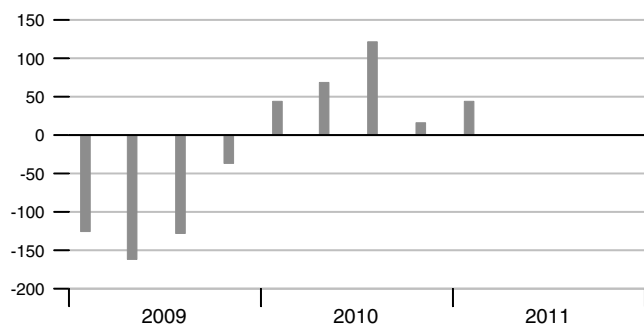
### Average Weekly Private Nonfarm Hours

Hours



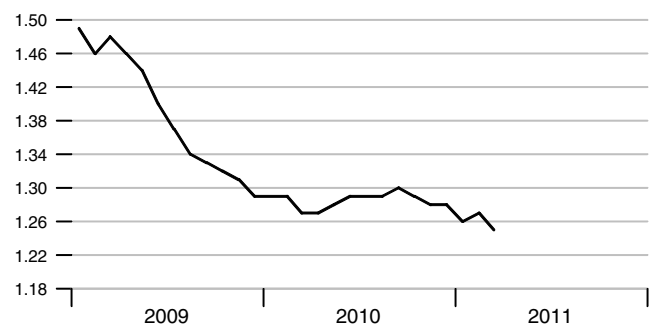
### Real Change in Private Inventories

Billions of 2005 dollars



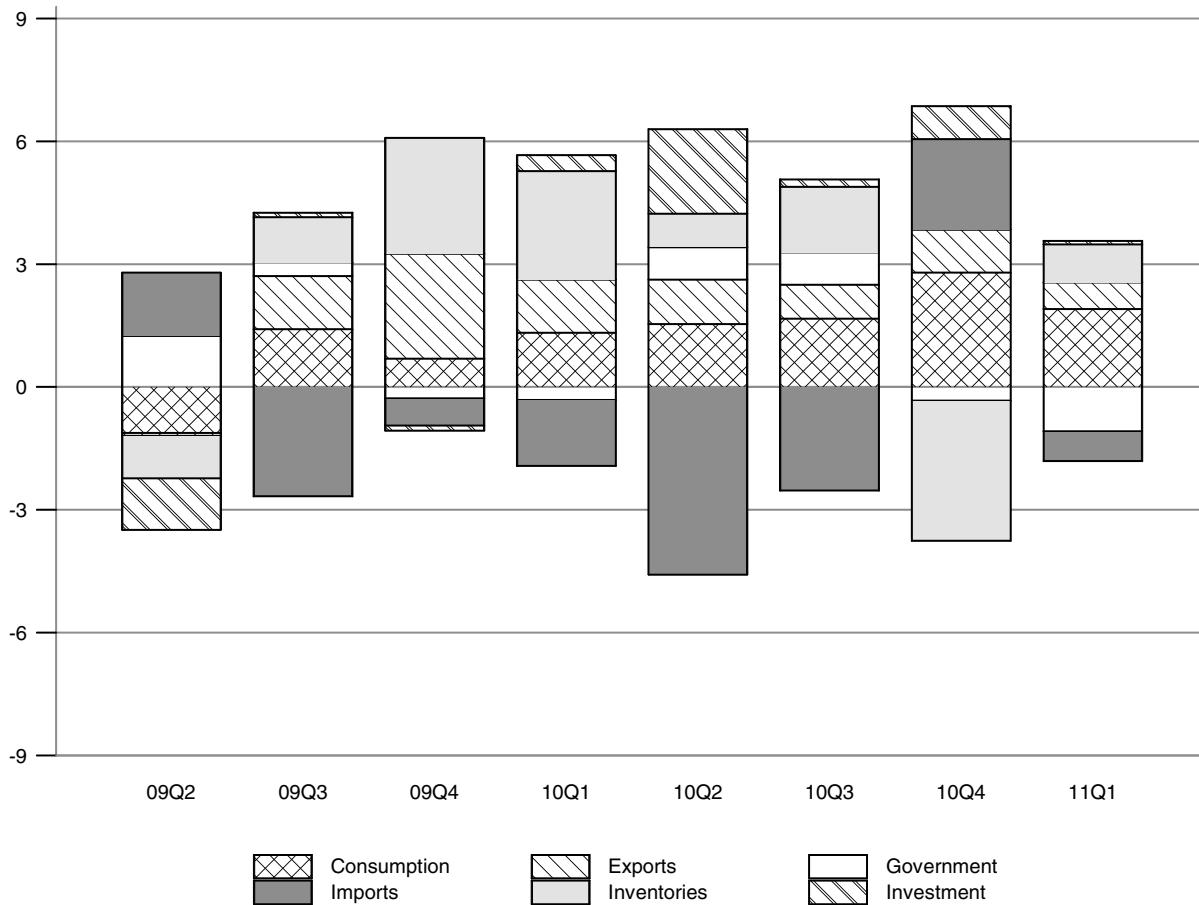
### Inventory-Sales Ratio

Manufacturing and trade



**Contribution of Components to Real GDP Growth**

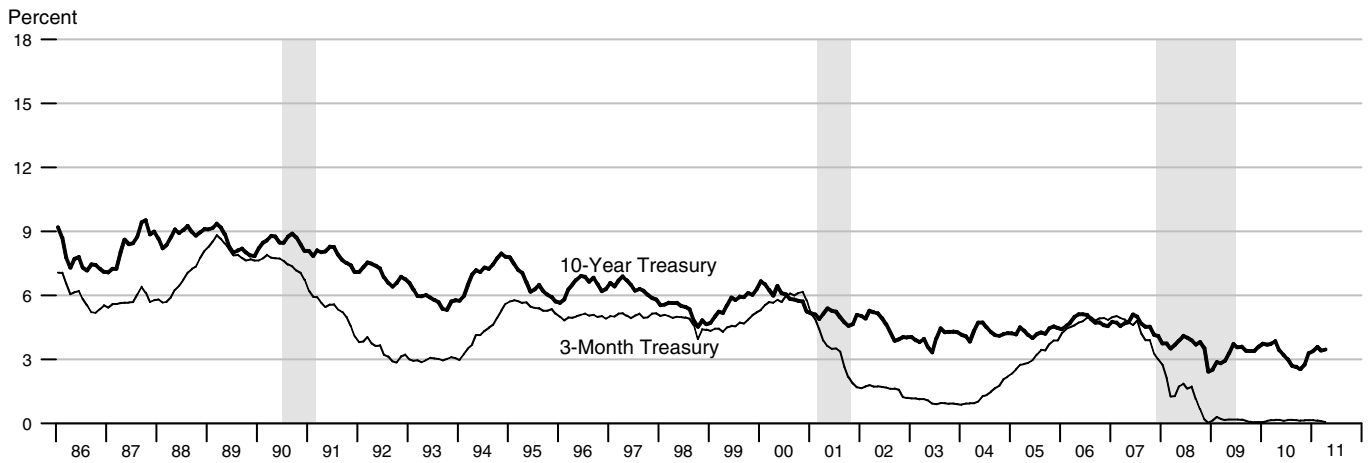
Percentage points at compounded annual rates



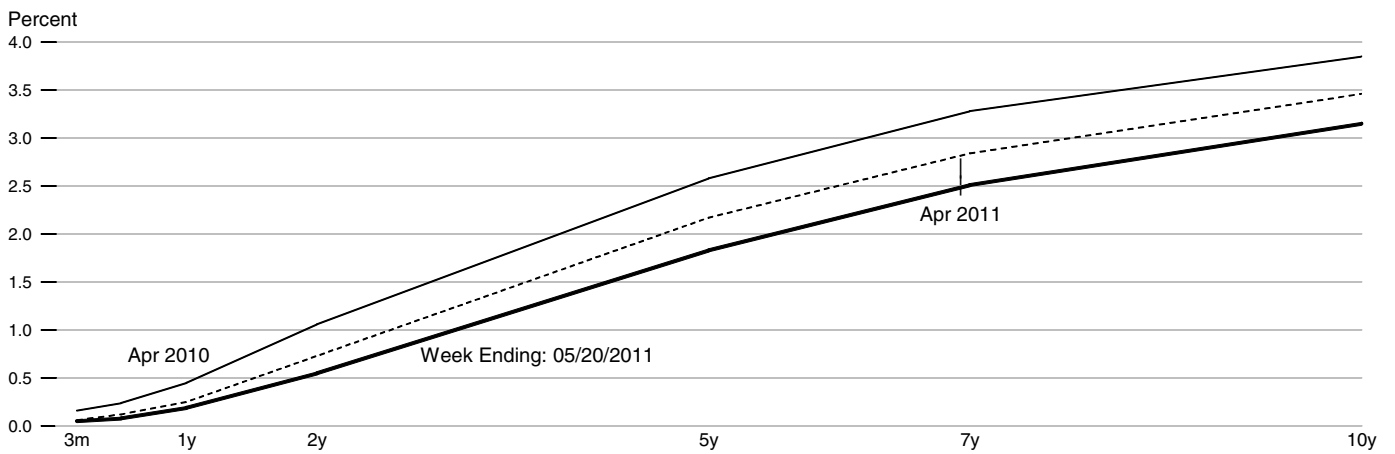
**Contributions to Real GDP Growth Rate**

	2009			2010				2011
	2nd	3rd	4th	1st	2nd	3rd	4th	1st
<b>Final Sales</b>	0.33	0.50	2.18	1.09	0.90	0.95	6.53	0.82
<b>Consumption</b>	-1.12	1.41	0.69	1.33	1.54	1.67	2.79	1.91
<b>Fixed Investment</b>	-1.26	0.12	-0.12	0.39	2.06	0.18	0.80	0.09
Nonresidential	-0.72	-0.13	-0.10	0.71	1.51	0.93	0.73	0.18
Residential	-0.54	0.25	-0.02	-0.32	0.55	-0.75	0.07	-0.09
<b>Government</b>	1.24	0.33	-0.28	-0.32	0.80	0.79	-0.34	-1.09
Federal	1.11	0.45	0.01	0.15	0.72	0.71	-0.02	-0.68
State and Local	0.13	-0.12	-0.29	-0.48	0.08	0.09	-0.31	-0.41
<b>Net Exports</b>	1.47	-1.37	1.90	-0.31	-3.50	-1.70	3.27	-0.08
Exports	-0.08	1.30	2.56	1.30	1.08	0.82	1.06	0.64
Imports	1.55	-2.67	-0.66	-1.61	-4.58	-2.53	2.21	-0.72
<b>Change in Inventory</b>	-1.03	1.10	2.83	2.64	0.82	1.61	-3.42	0.93
<b>Residual</b>	0.27	0.24	-0.04	0.03	-0.18	0.02	-0.30	0.03
<b>Real GDP Growth</b>	-0.70	1.60	5.01	3.73	1.72	2.56	3.11	1.75

### Interest Rates



### Treasury Yield Curve

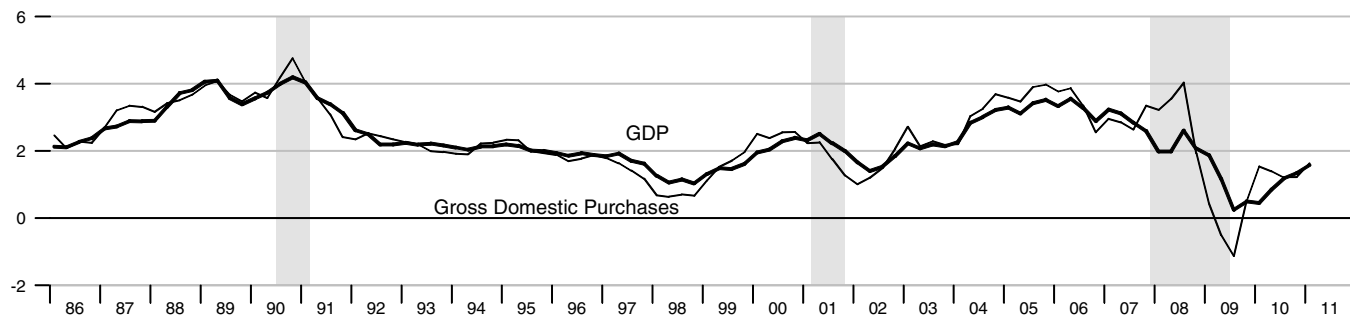


### Standard and Poor's 500 Index with Reinvested Dividends



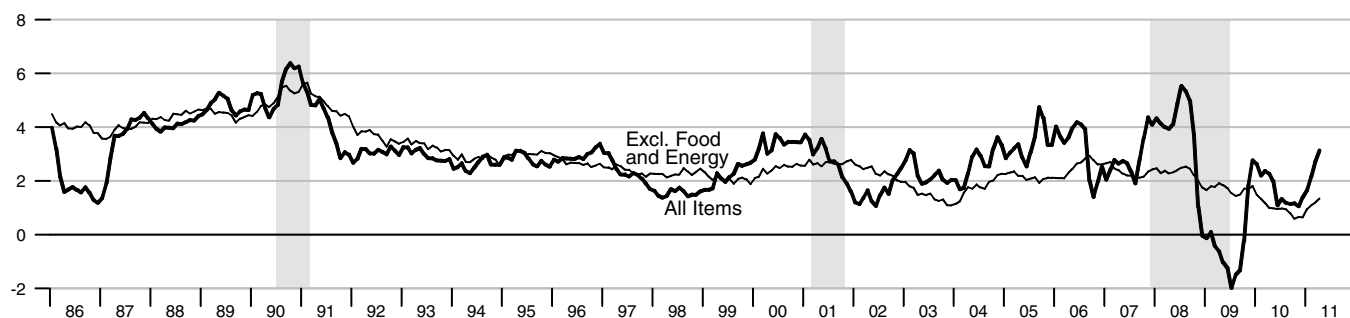
### NIPA Chain Price Indexes

Percent change from year ago



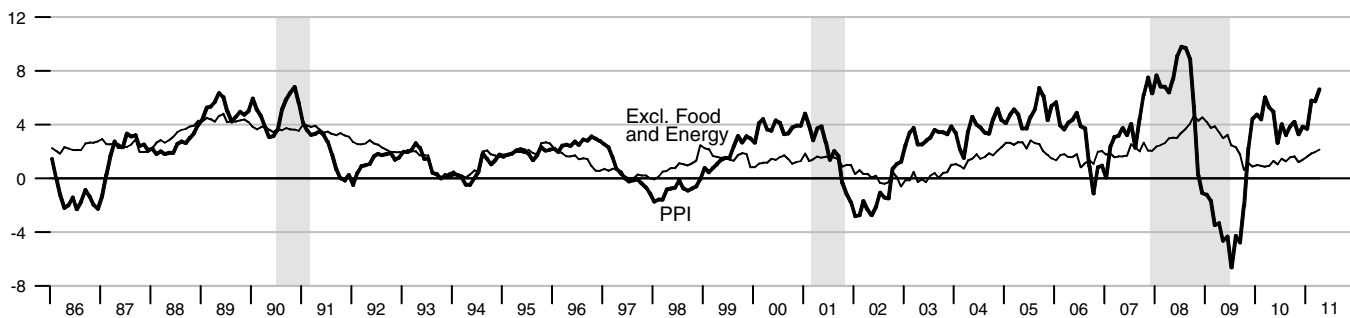
### Consumer Price Index

Percent change from year ago



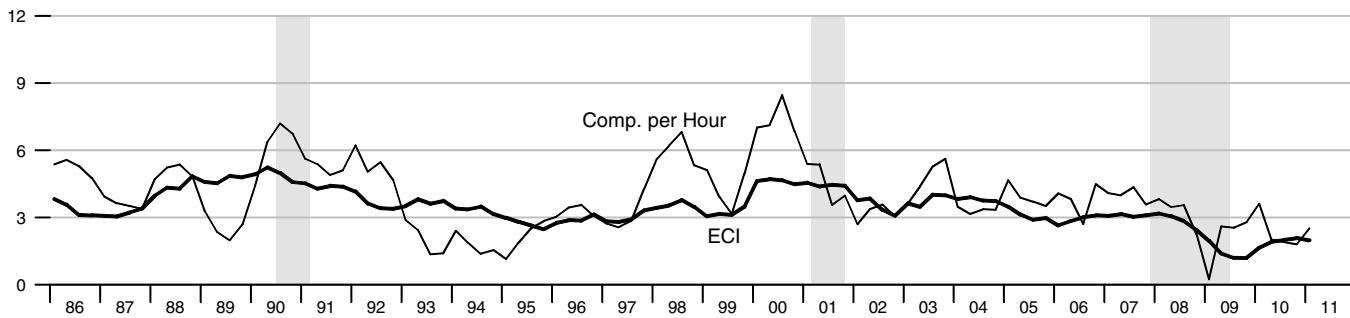
### Producer Price Index, Finished Goods

Percent change from year ago



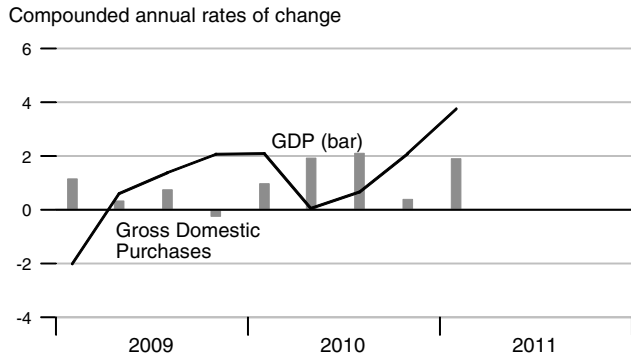
### Employment Cost Index and Compensation per Hour

Percent change from year ago

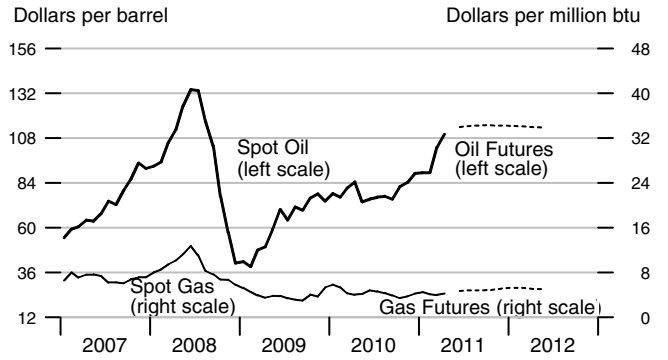




### NIPA Chain Price Indexes

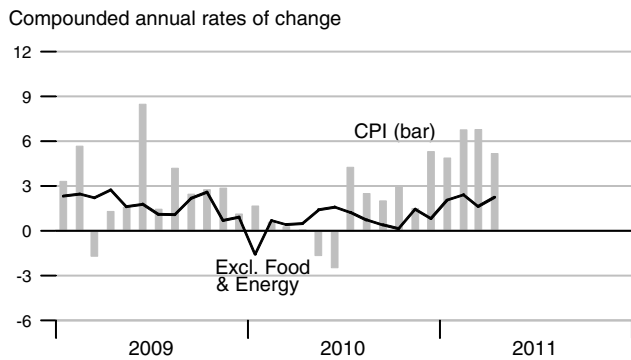


### Oil & Natural Gas Prices: Spot & Futures

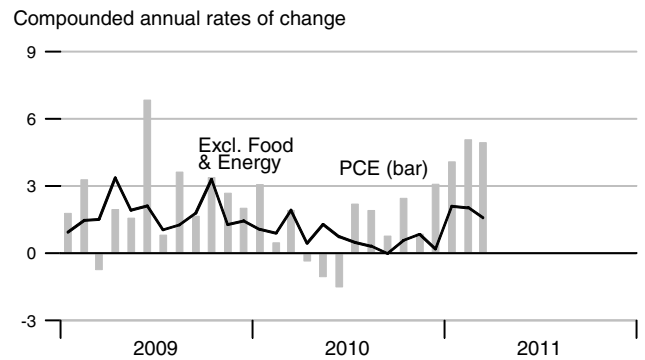


Note: Futures prices as of 4/29/2011.

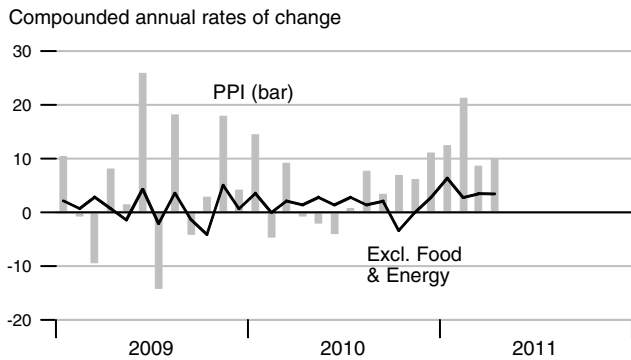
### Consumer Price Index



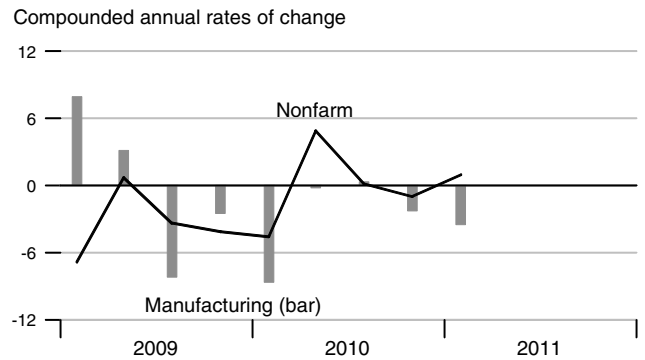
### Consumption Chain Price Index



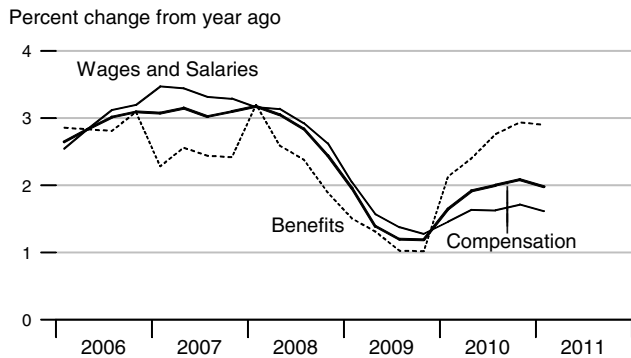
### Producer Price Index, Finished Goods



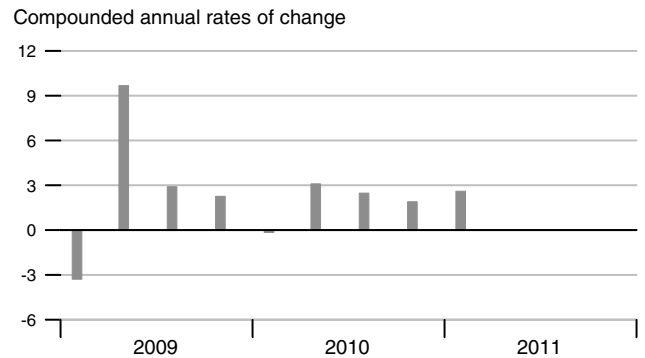
### Unit Labor Cost



### Employment Cost Index

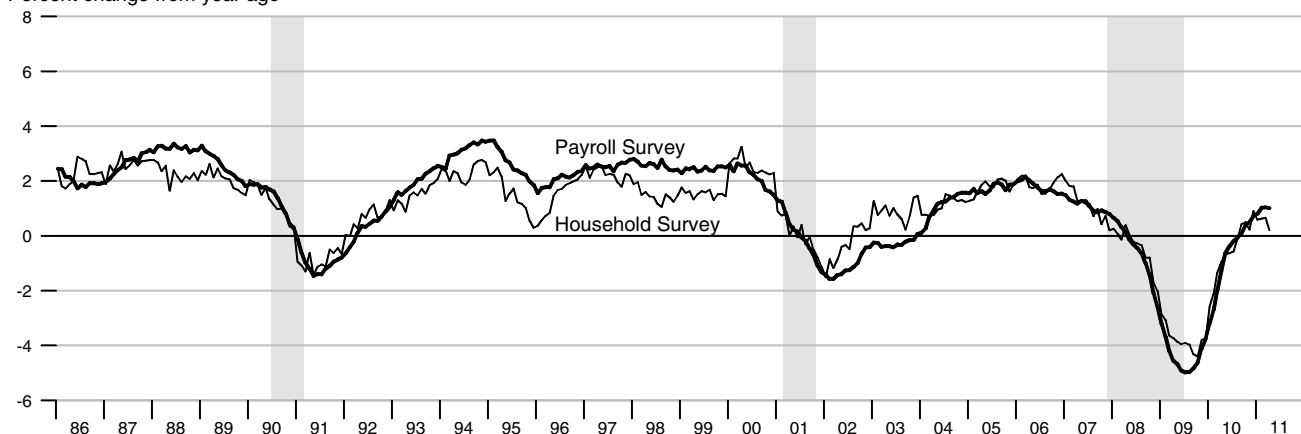


### Compensation per Hour



### Employment

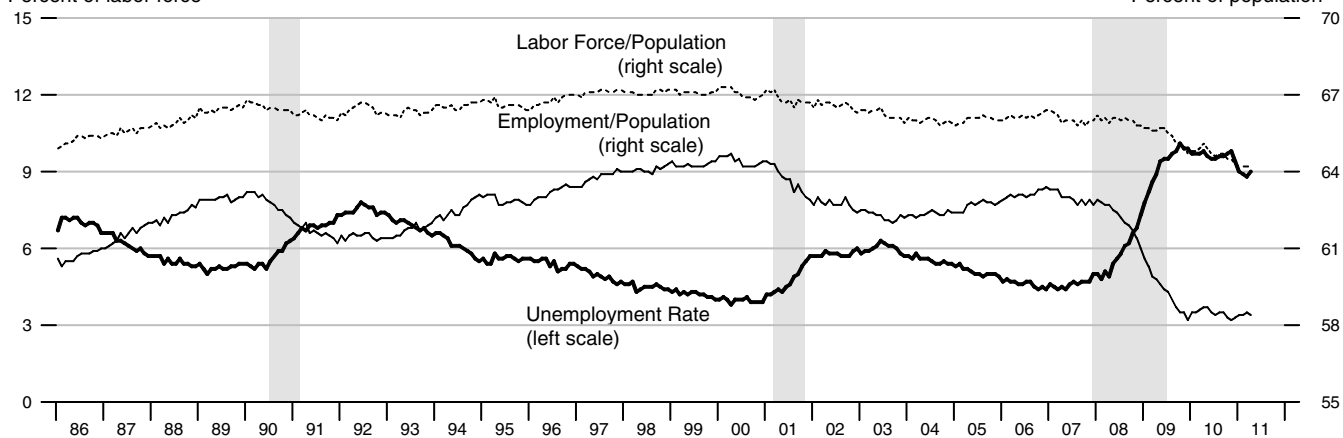
Percent change from year ago



### Unemployment, Labor Force Participation, and Employment Rates

Percent of labor force

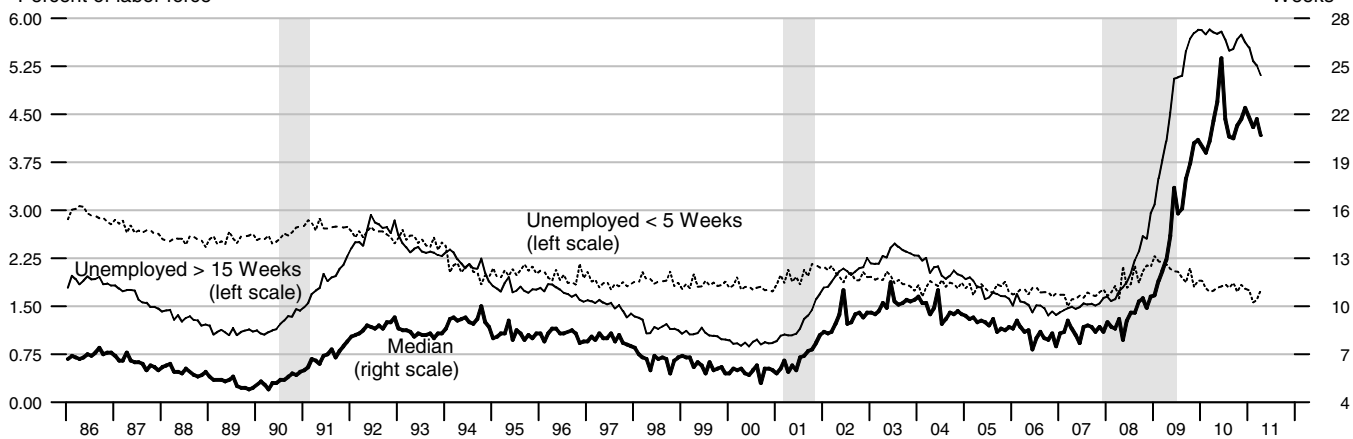
Percent of population



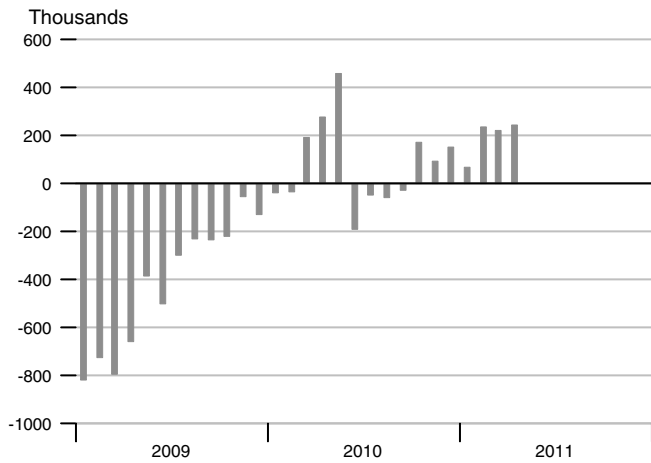
### Duration of Unemployment

Percent of labor force

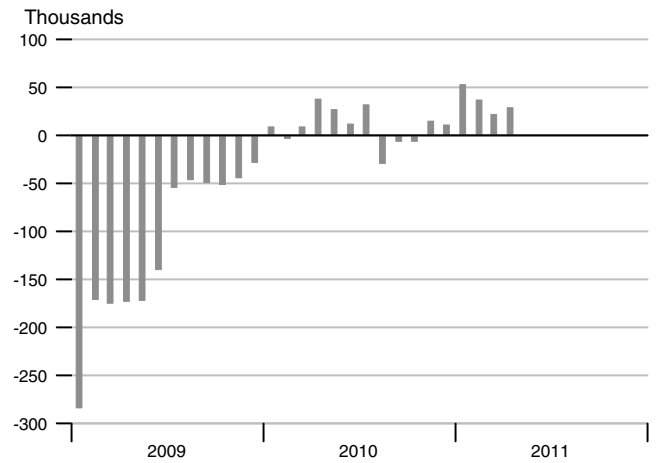
Weeks



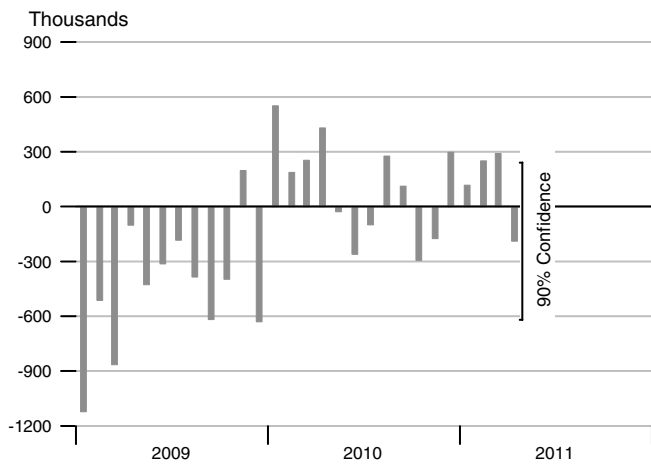
### Change in Nonfarm Payrolls



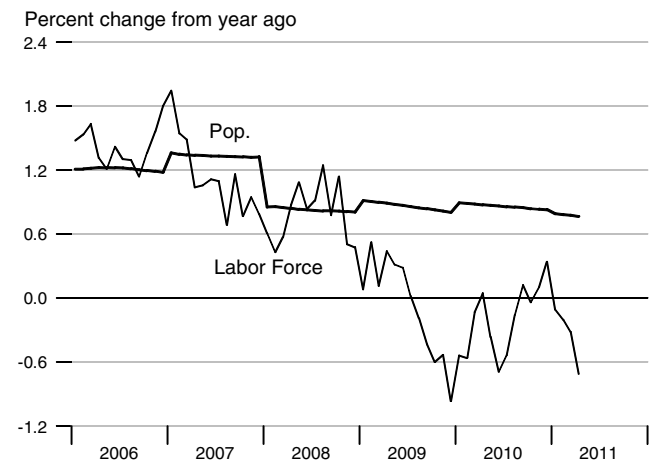
### Change in Manufacturing Payrolls



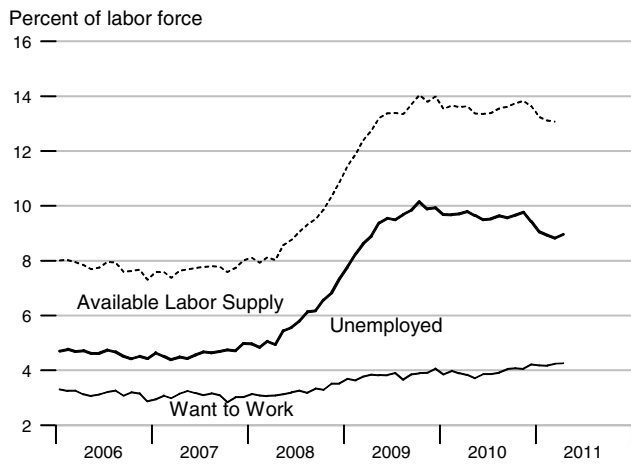
### Change in Household Employment



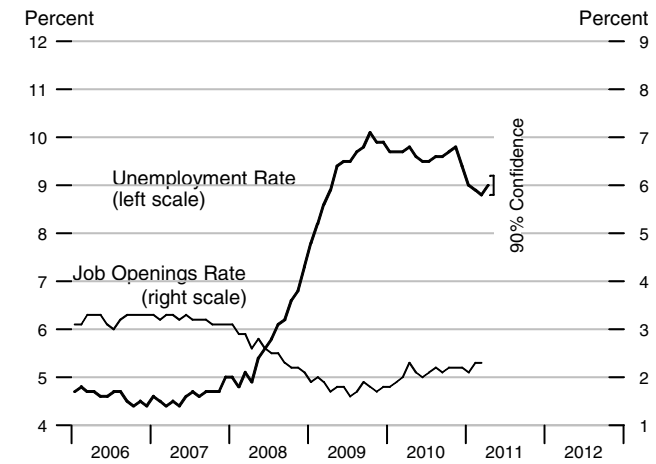
### Labor Force and Population



### Available Labor Supply and Components

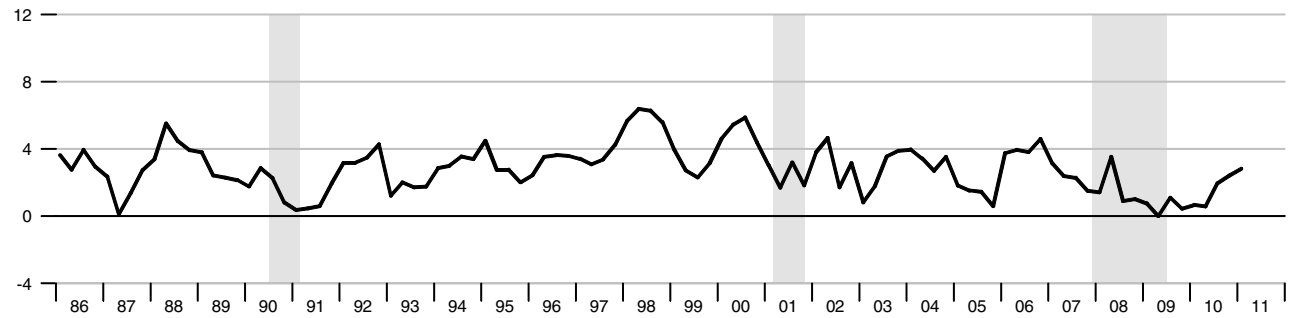


### Unemployment Rate & Job Openings Rate



### Real Disposable Personal Income

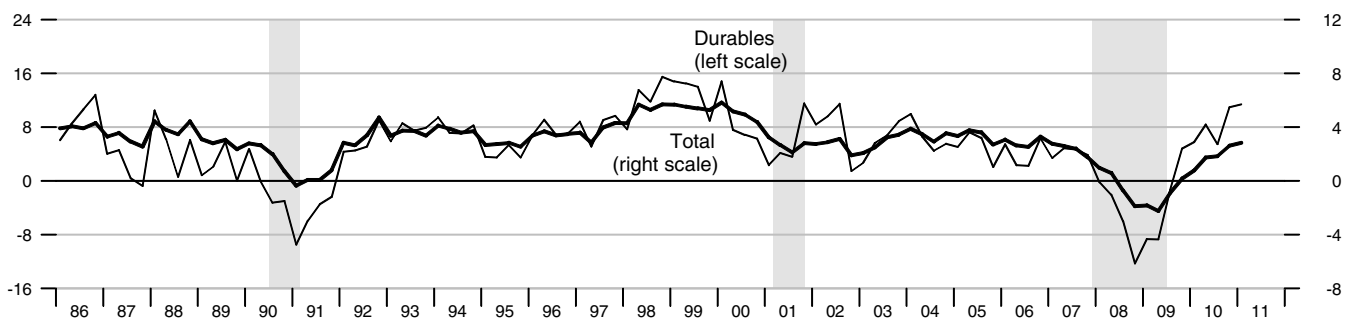
Percent change from year ago, quarterly data



### Real Consumption

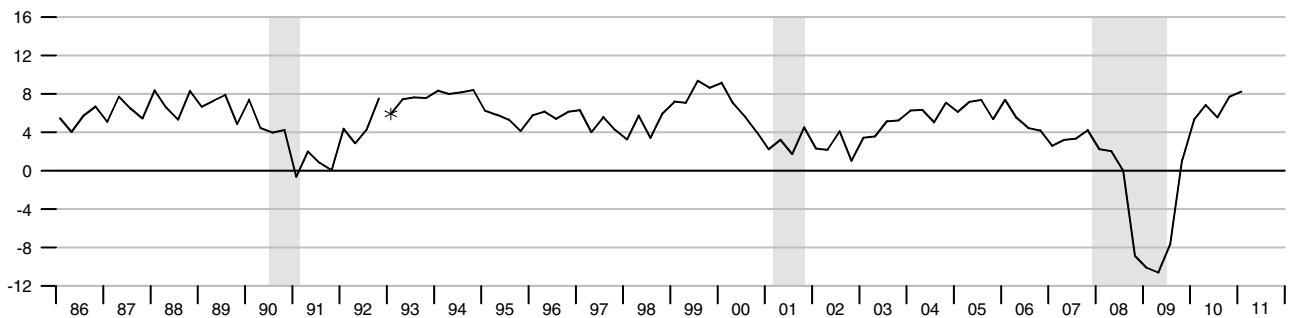
Percent change from year ago, quarterly data

Percent change from year ago, quarterly data



### Retail and Food Services Sales

Percent change from year ago, quarterly average

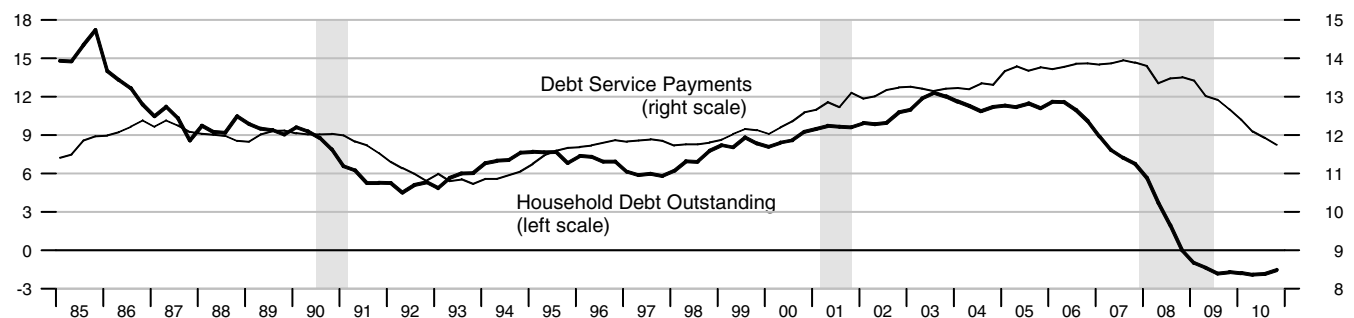


\*Data from Jan. 1992 to the present are on a NAICS basis; data prior to Jan. 1992 are on an SIC basis and are not strictly comparable (see End Note).

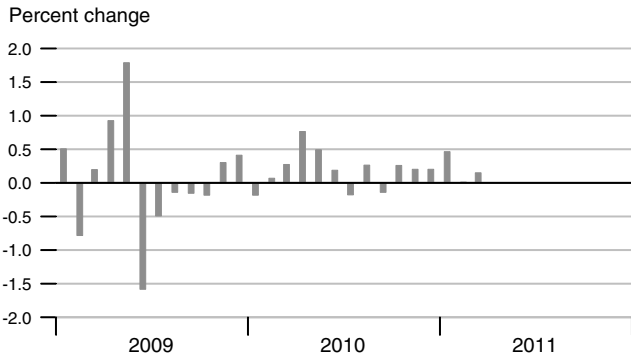
### Debt Service Payments and Household Debt Outstanding

Percent change from year ago, quarterly data

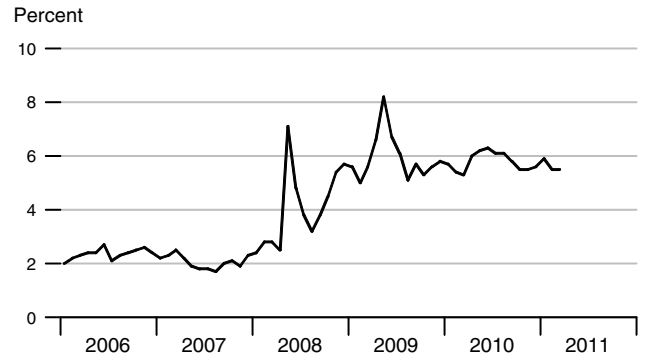
Percent of disposable personal income



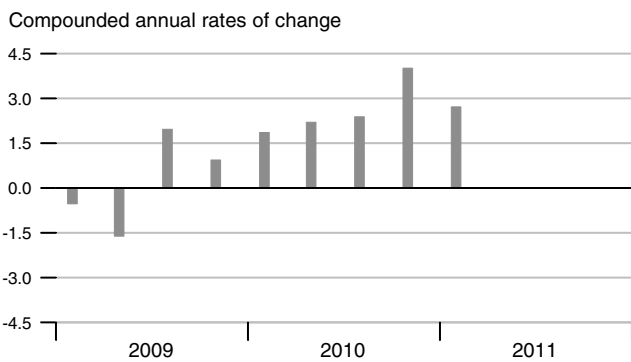
### Real Disposable Personal Income



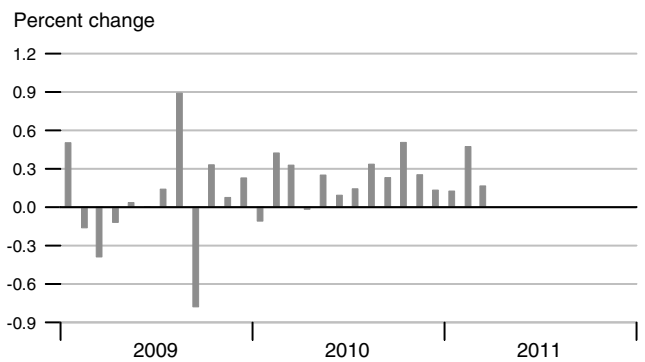
### Personal Saving Rate



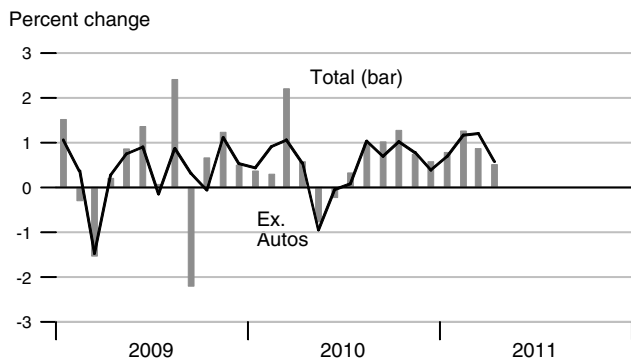
### Real Consumption



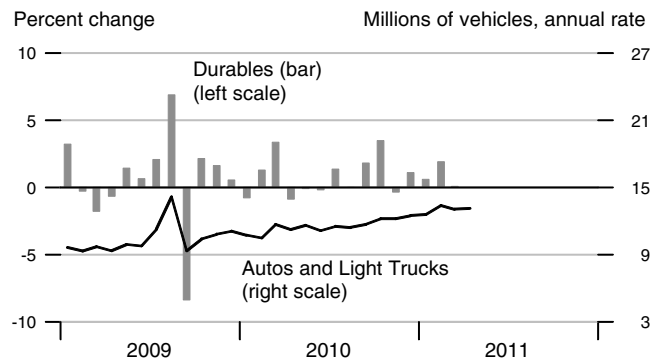
### Real Consumption



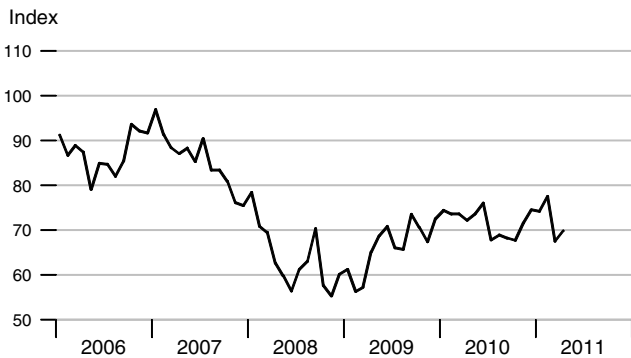
### Retail & Food Services



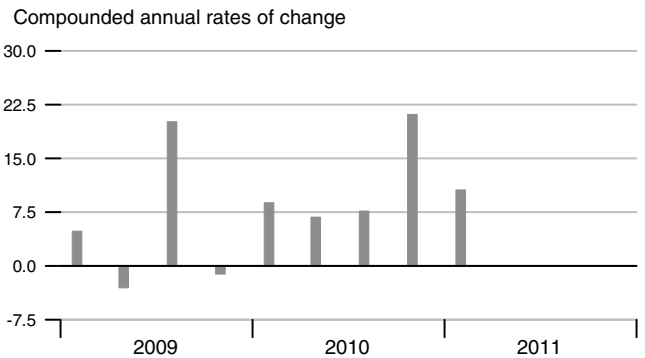
### Real Durables Consumption & Vehicle Sales



### Consumer Sentiment (U. of Michigan)

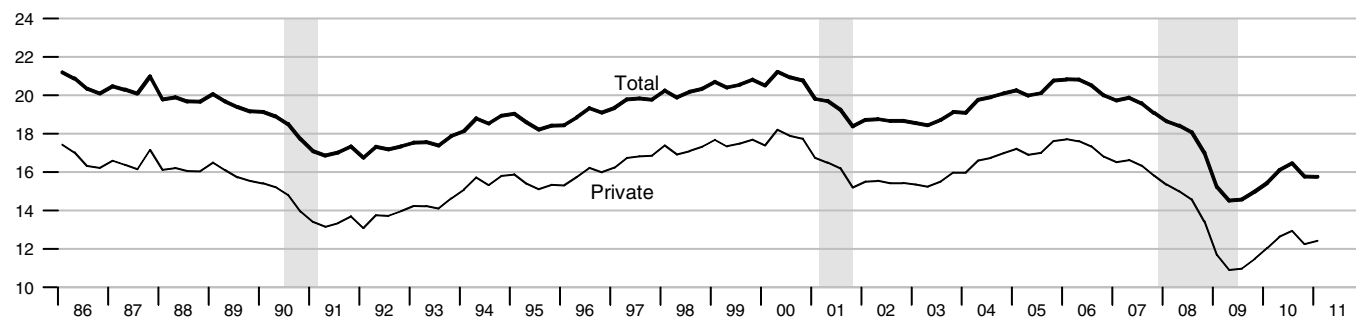


### Real Durables Consumption



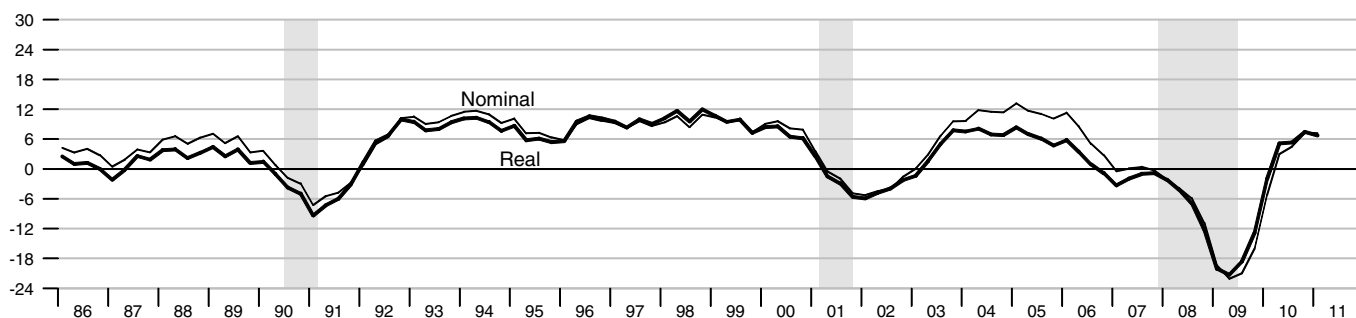
### Investment

Percent of nominal GDP



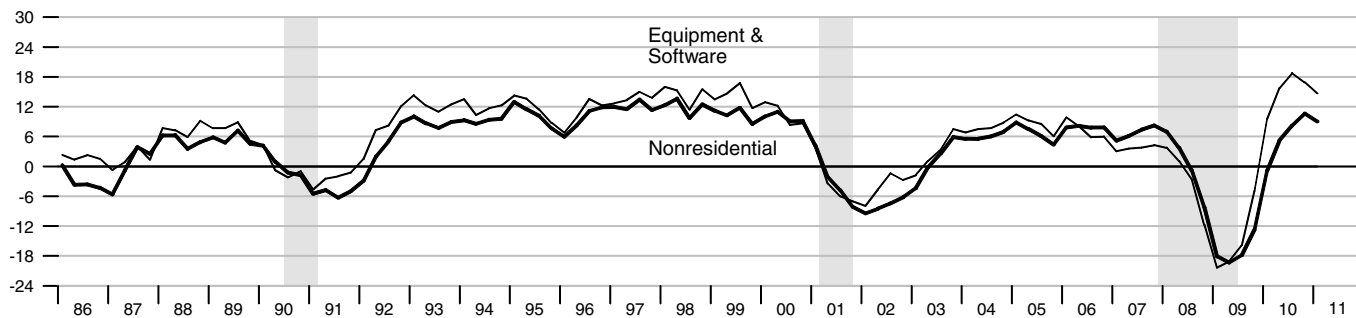
### Private Fixed Investment

Percent change from year ago



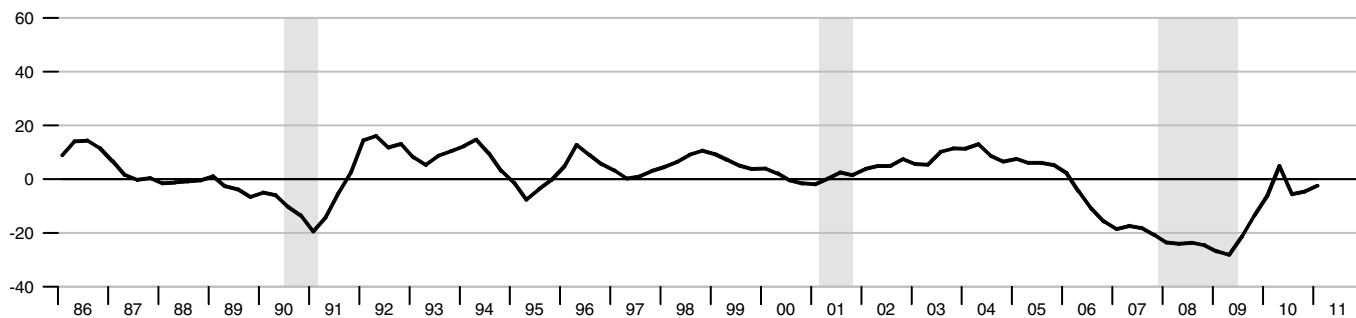
### Real Nonresidential Fixed and Equipment & Software Investment

Percent change from year ago

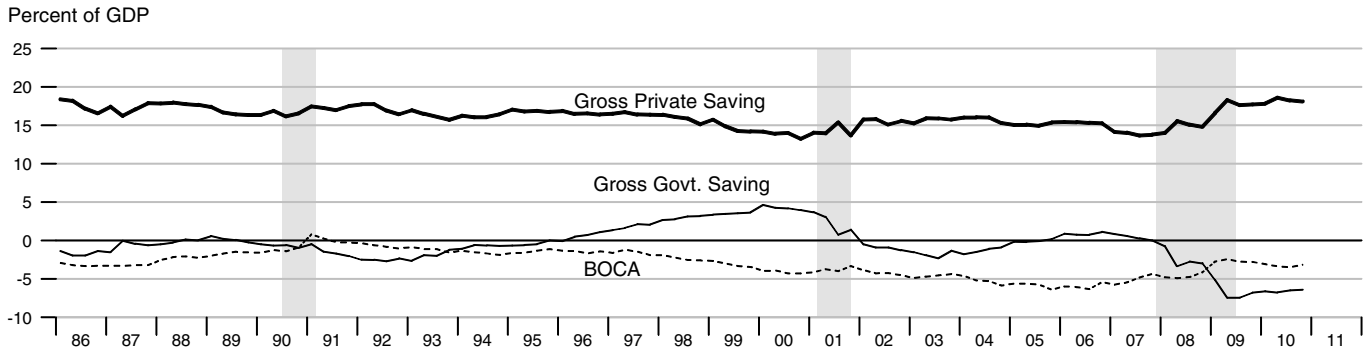


### Real Residential Fixed Investment

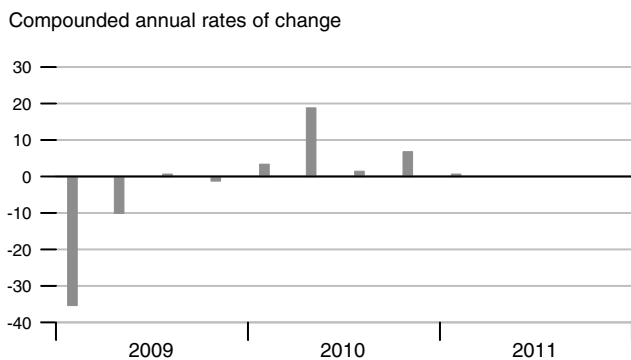
Percent change from year ago



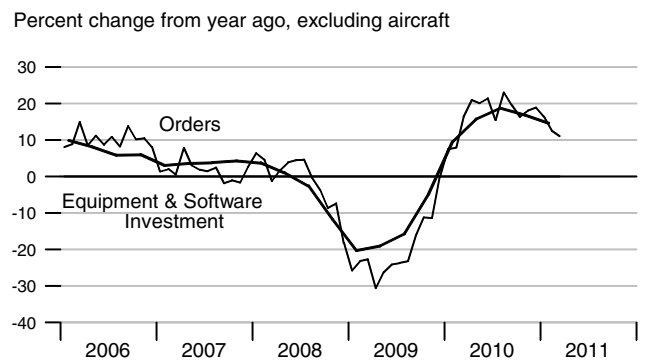
### Gross Saving Rates and Balance on Current Account (NIPA)



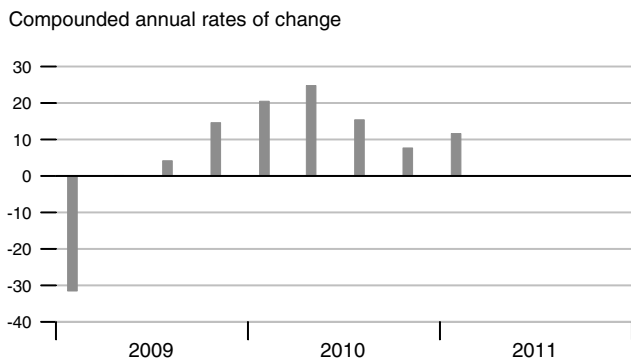
### Real Private Fixed Investment



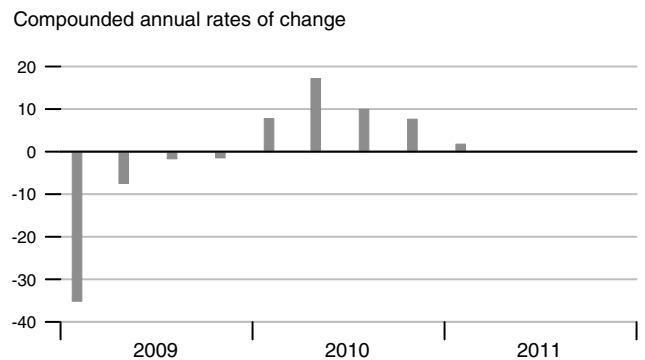
### Nondefense Capital Goods Orders



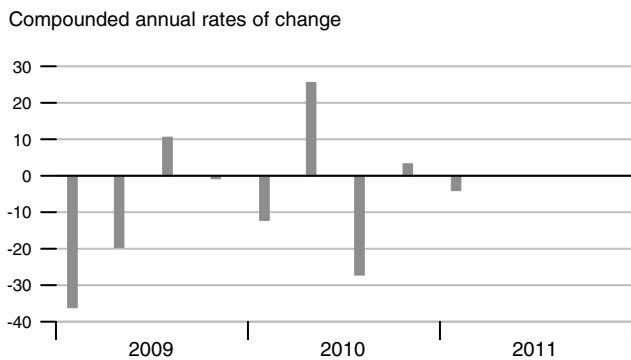
### Real Equipment & Software Investment



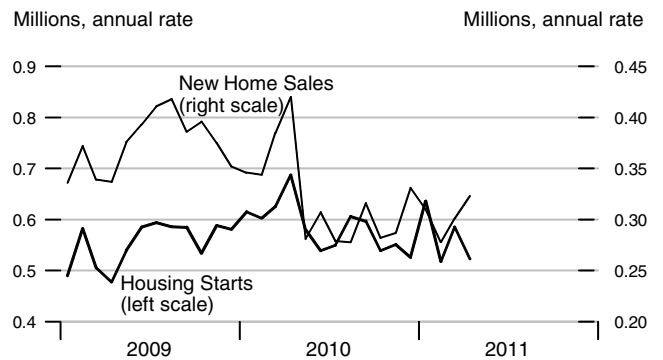
### Real Nonresidential Fixed Investment



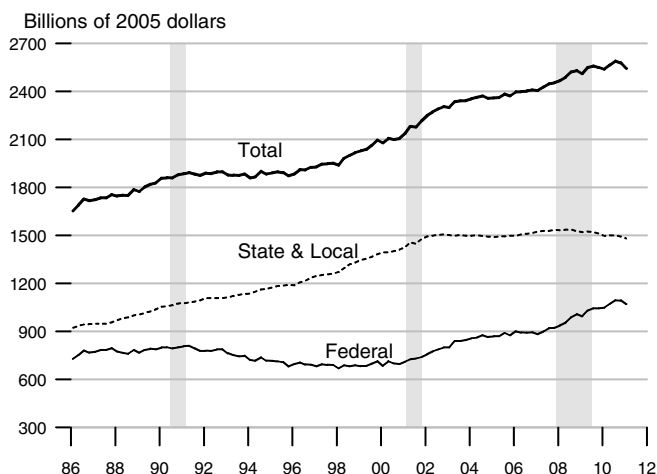
### Real Residential Fixed Investment



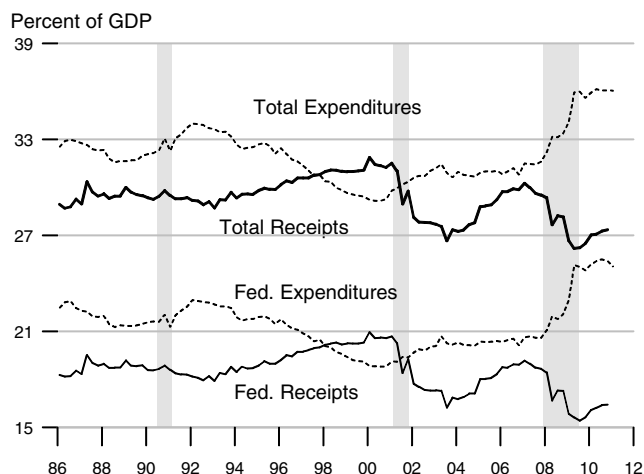
### Housing Starts and New Home Sales



**Govt. Consumption and Investment**



**Govt. Current Receipts and Expenditures**



**Government Budgets**

Billions of dollars

**National Income Accounts**

Calendar Years

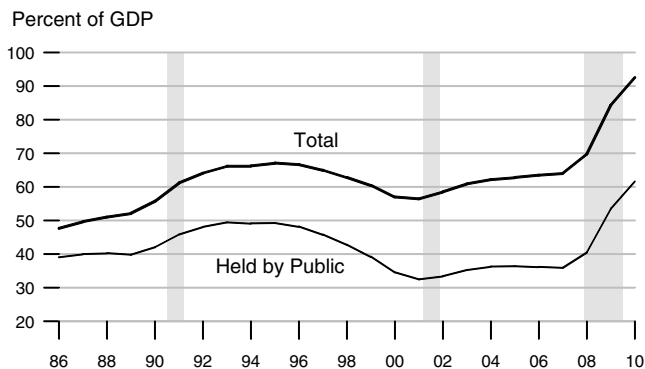
**Unified Budget**

Fiscal Years

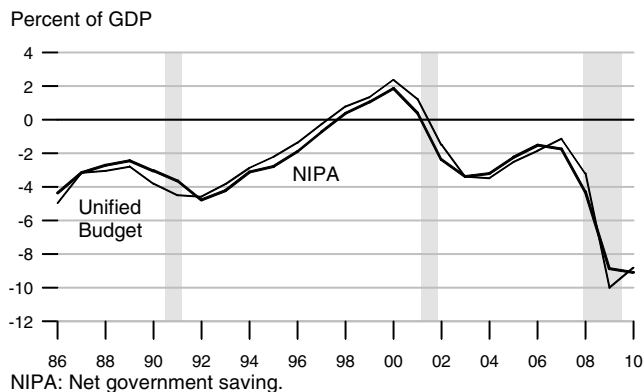
	State and Local			Federal			Federal		
	Receipts	Expenditures	Surplus or Deficit (-)	Receipts	Expenditures	Surplus or Deficit (-)	Receipts	Outlays	Surplus or Deficit (-)
1996	1045.1	1022.1	23.0	1526.4	1674.7	-148.3	1453.1	1560.5	-107.4
1997	1099.5	1063.2	36.3	1656.2	1716.3	-60.1	1579.2	1601.1	-21.9
1998	1164.5	1117.6	46.9	1777.9	1744.3	33.6	1721.7	1652.5	69.3
1999	1240.4	1198.6	41.8	1895.0	1796.2	98.8	1827.5	1701.8	125.6
2000	1322.6	1281.3	41.3	2057.1	1871.9	185.2	2025.2	1789.0	236.2
2001	1374.0	1389.9	-15.9	2020.3	1979.8	40.5	1991.1	1862.8	128.2
2002	1412.7	1466.8	-54.1	1859.3	2112.1	-252.8	1853.1	2010.9	-157.8
2003	1496.3	1535.1	-38.8	1885.1	2261.5	-376.4	1782.3	2159.9	-377.6
2004	1601.0	1609.3	-8.3	2013.9	2393.4	-379.5	1880.1	2292.8	-412.7
2005	1730.4	1704.5	25.9	2290.1	2573.1	-283.0	2153.6	2472.0	-318.3
2006	1829.7	1778.6	51.1	2524.5	2728.3	-203.8	2406.9	2655.1	-248.2
2007	1923.1	1910.8	12.3	2654.7	2900.0	-245.3	2568.0	2728.7	-160.7
2008	1967.2	2014.6	-47.4	2503.1	3119.3	-616.2	2524.0	2982.5	-458.6
2009	2005.8	2025.9	-20.1	2205.8	3457.5	-1252	2105.0	3517.7	-1413
2010	2128.1	2095.2	32.9	2386.6	3718.7	-1332	2162.7	3456.2	-1293
2009Q2	1986.6	2020.2	-33.6	2191.2	3527.9	-1337	598.8	903.7	-304.9
2009Q3	2017.2	2036.4	-19.2	2176.3	3532.9	-1357	515.9	845.3	-329.4
2009Q4	2054.4	2040.6	13.8	2231.7	3542.0	-1310	487.8	875.8	-388.1
2010Q1	2095.7	2067.2	28.5	2322.8	3637.1	-1314	466.1	795.0	-328.9
2010Q2	2108.1	2092.4	15.7	2364.7	3701.2	-1337	643.1	930.1	-287.0
2010Q3	2142.7	2095.0	47.7	2417.3	3760.7	-1343	564.8	854.9	-290.2
2010Q4	2165.9	2126.3	39.6	2441.4	3775.8	-1334	531.8	900.8	-369.0
2011Q1	.	2173.2	.	.	3757.6	.	488.1	948.5	-460.4



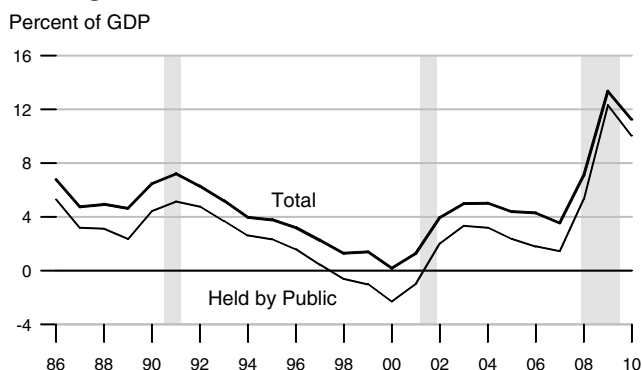
### Federal Debt



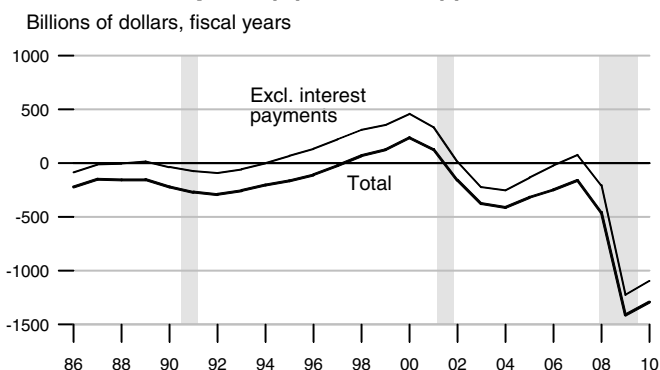
### Federal Surplus (+) / Deficit (-)



### Change in Federal Debt



### Federal Surplus (+) / Deficit (-), Unified Basis

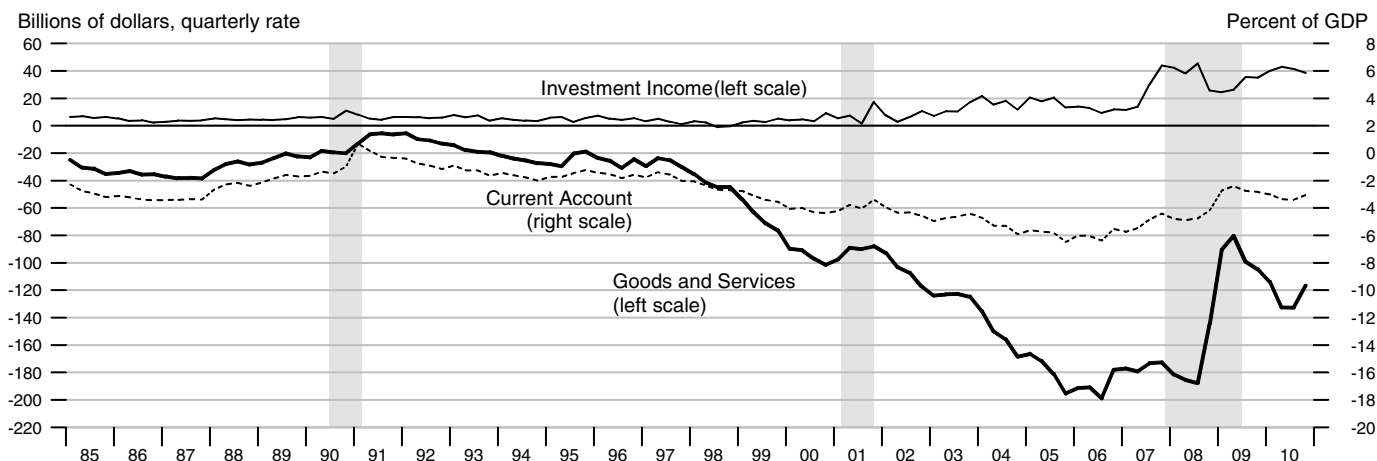


### Federal Government Debt

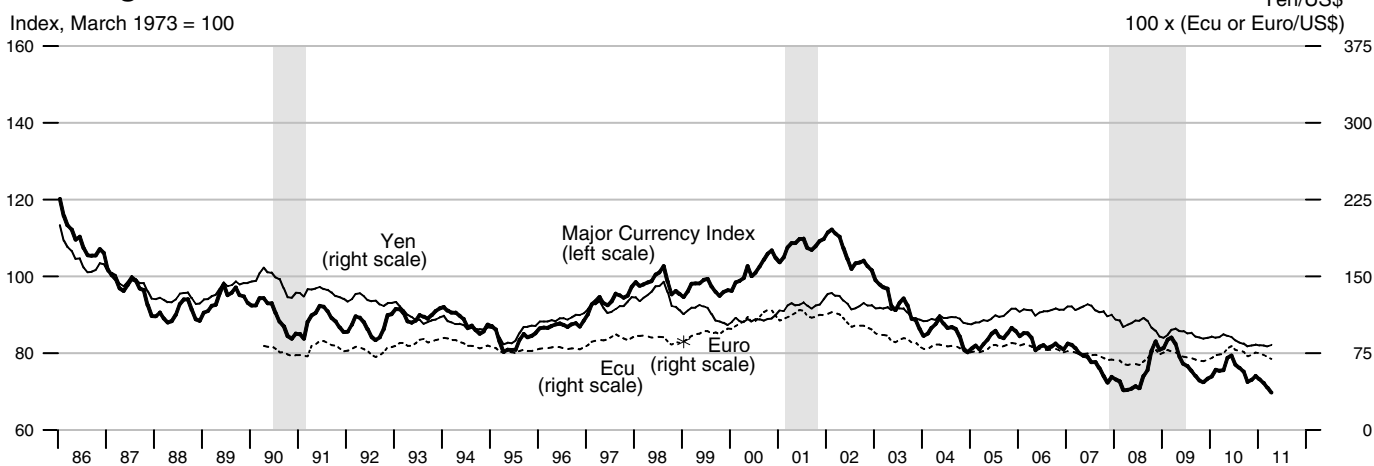
Billions of dollars, end of month or fiscal year  
Excludes Agency-issued debt

		Total Public Debt	Held by Agencies and Trusts	Held by Public		Held by Private Investors	
				Total	Federal Reserve Banks	Total	Foreign and International
2008		10024.7	4210.5	5814.2	476.6	5332.0	2802.4
2009		11909.8	4355.3	7554.5	769.2	6782.7	3570.6
2010		13561.6	4534.0	9027.6	811.7	8211.1	4257.1
2007	March	8849.7	3795.4	5054.3	780.9	4273.1	2194.8
	June	8867.7	3924.7	4943.0	790.5	4152.6	2192.0
	September	9007.7	3958.4	5049.2	779.6	4269.7	2235.3
	December	9229.2	4092.9	5136.3	740.6	4395.7	2353.2
2008	March	9437.6	4103.6	5334.0	591.2	4742.9	2506.3
	June	9492.0	4207.0	5285.0	478.8	4806.2	2587.4
	September	10024.7	4210.5	5814.2	476.6	5332.0	2802.4
	December	10699.8	4327.2	6372.7	475.9	5893.4	3077.2
2009	March	11126.9	4290.6	6836.3	492.3	6341.7	3265.7
	June	11545.3	4368.8	7176.5	656.5	6518.5	3460.8
	September	11909.8	4355.3	7554.5	769.2	6782.7	3570.6
	December	12311.4	4497.0	7814.4	776.6	7034.4	3685.1
2010	March	12773.1	4478.9	8294.3	776.7	7513.3	3877.8
	June	13201.8	4562.6	8639.2	777.0	7856.7	4002.9
	September	13561.6	4534.0	9027.6	811.7	8211.1	4257.1
	December	14025.2	4629.8	9395.4	1021.5	8368.9	4370.0

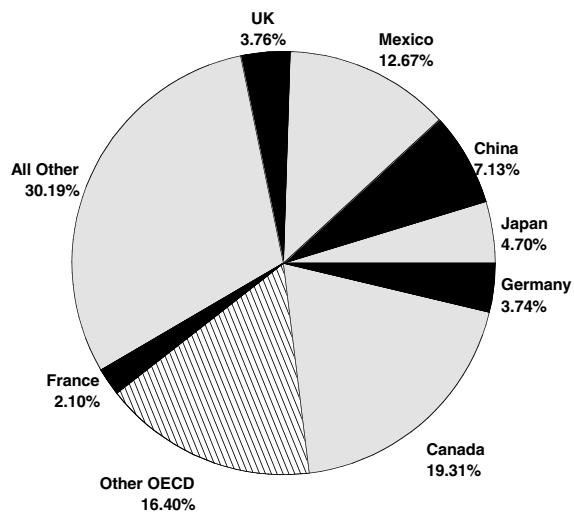
### Current Account, Trade and Investment Income Balances



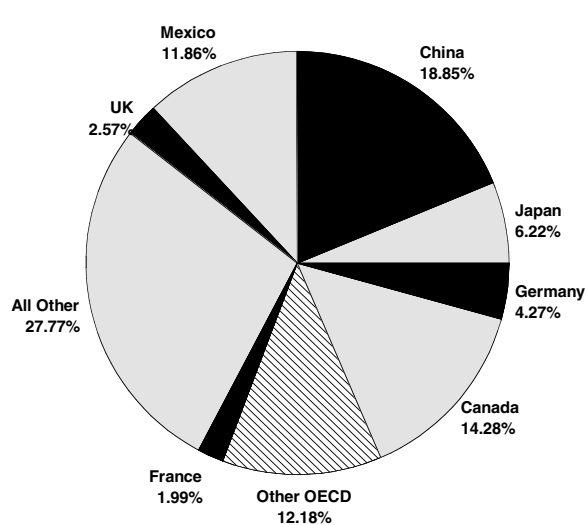
### Exchange Rates



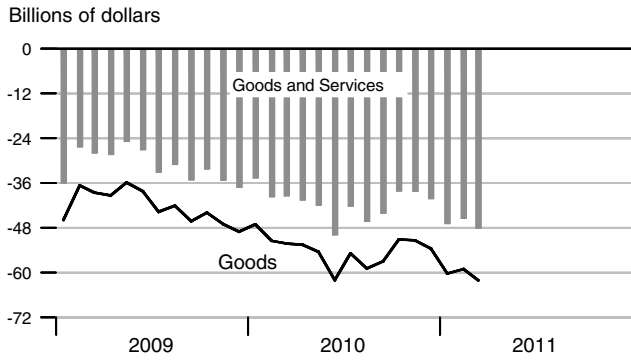
### Goods Export Shares, 2010



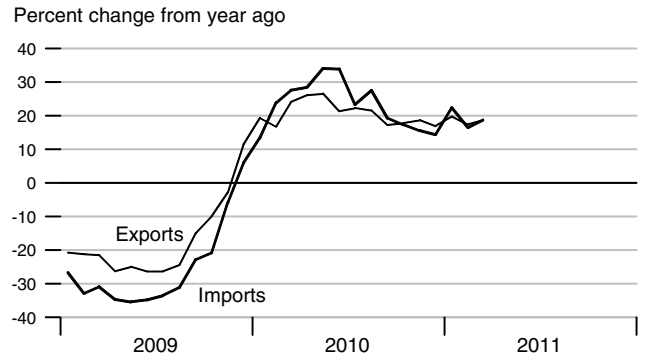
### Goods Import Shares, 2010



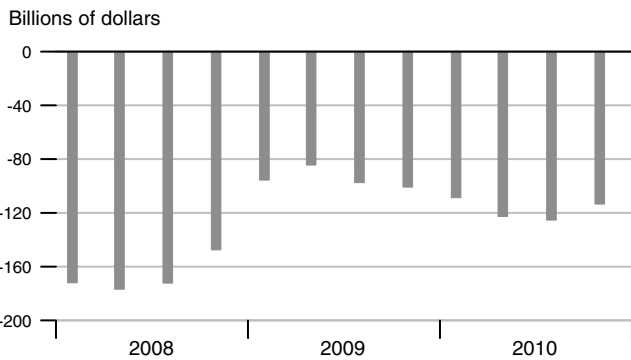
### Trade Balance



### Goods Trade



### Current Account Balance



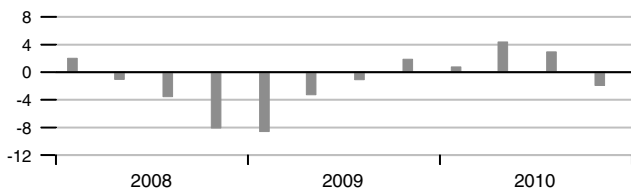
### Services Trade



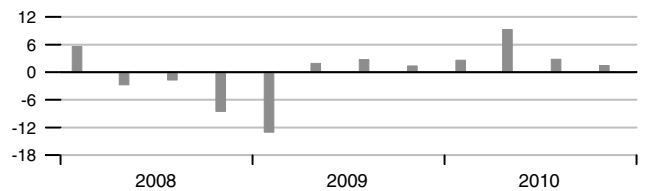
### Real GDP Growth of Major Trading Partners

Compounded annual rates of change

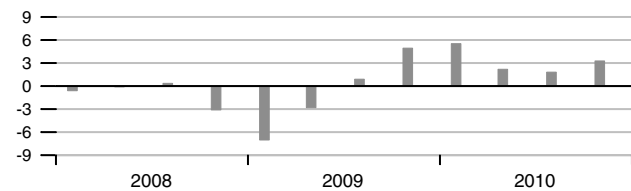
United Kingdom



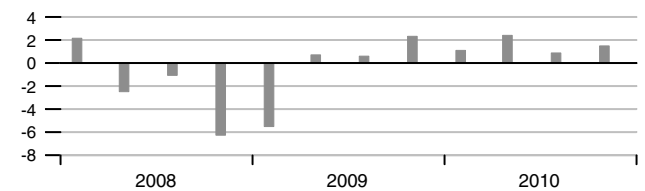
Germany



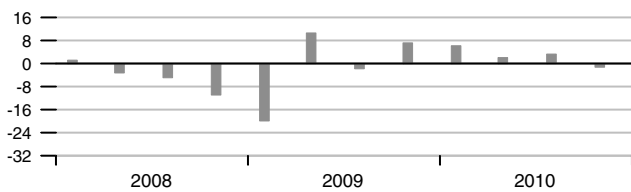
Canada



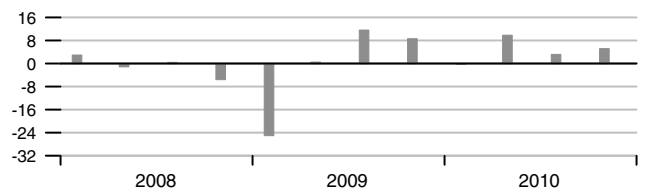
France



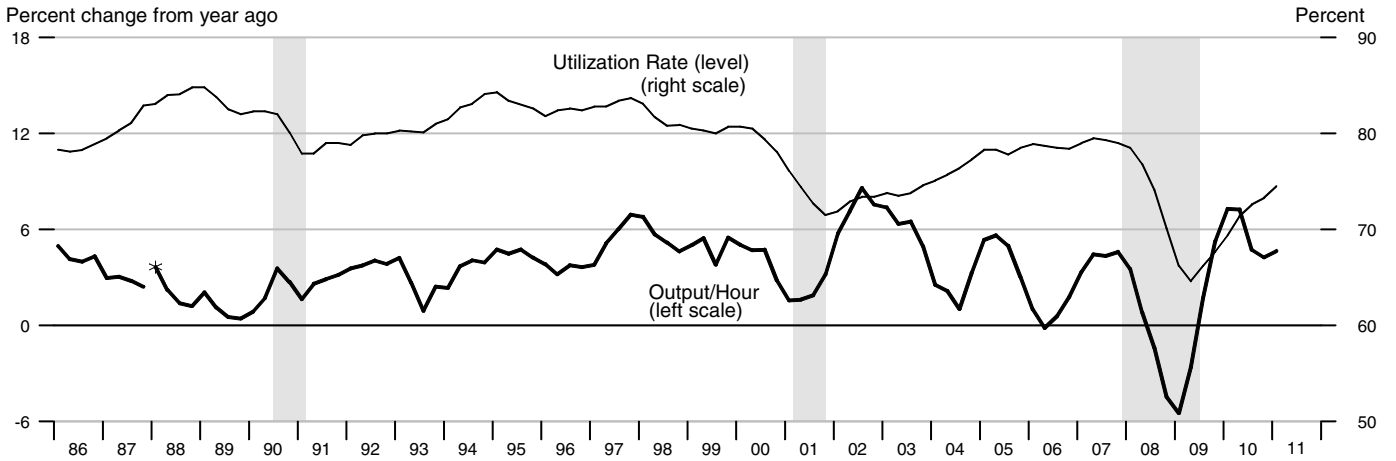
Japan



Mexico

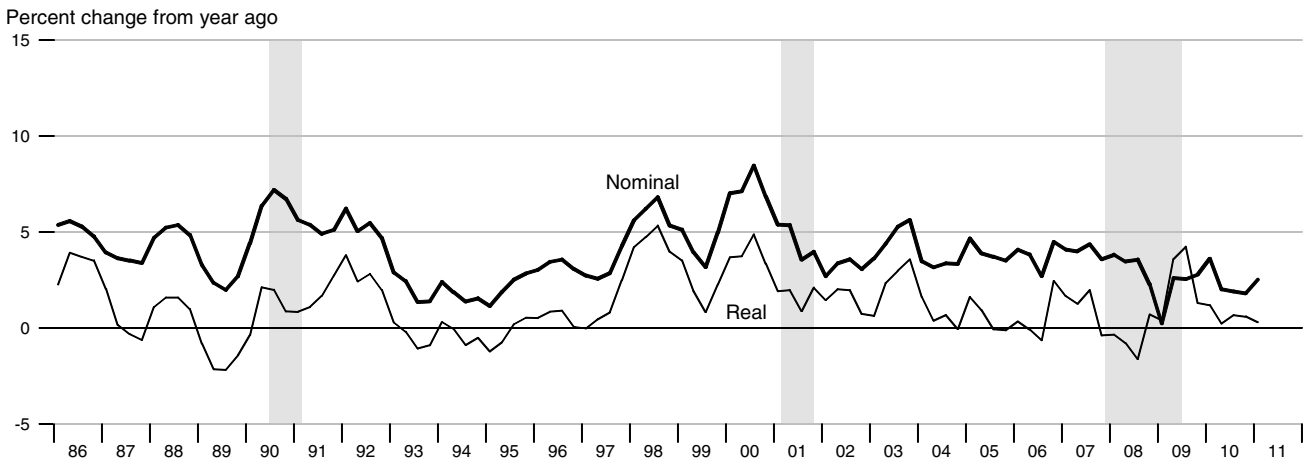


**Output per Hour and Capacity Utilization, Manufacturing**

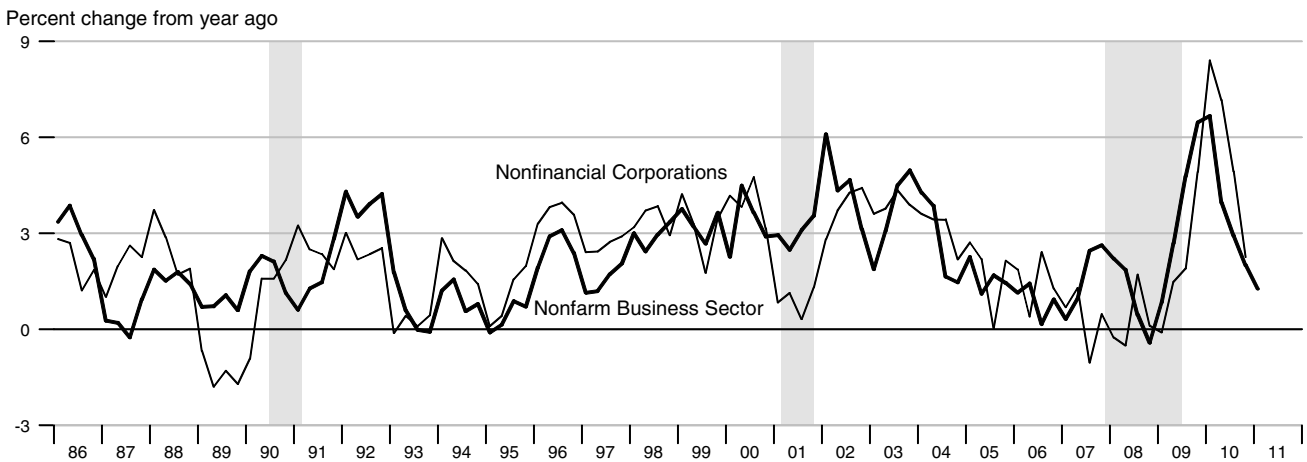


\*Data from 1987 to the present are on a NAICS basis; data prior to 1987 are on an SIC basis and are not strictly comparable (see End Note).

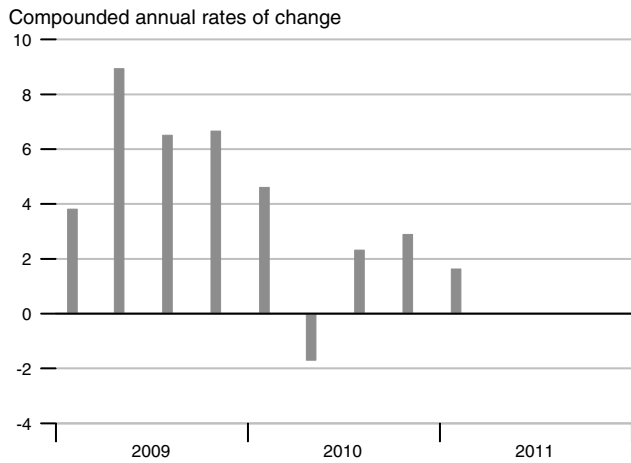
**Nonfarm Compensation per Hour**



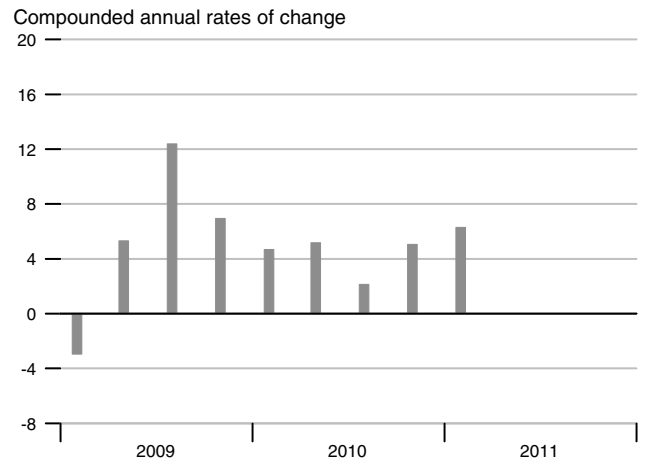
**Output per Hour, Nonfarm Business and Nonfinancial Corporations**



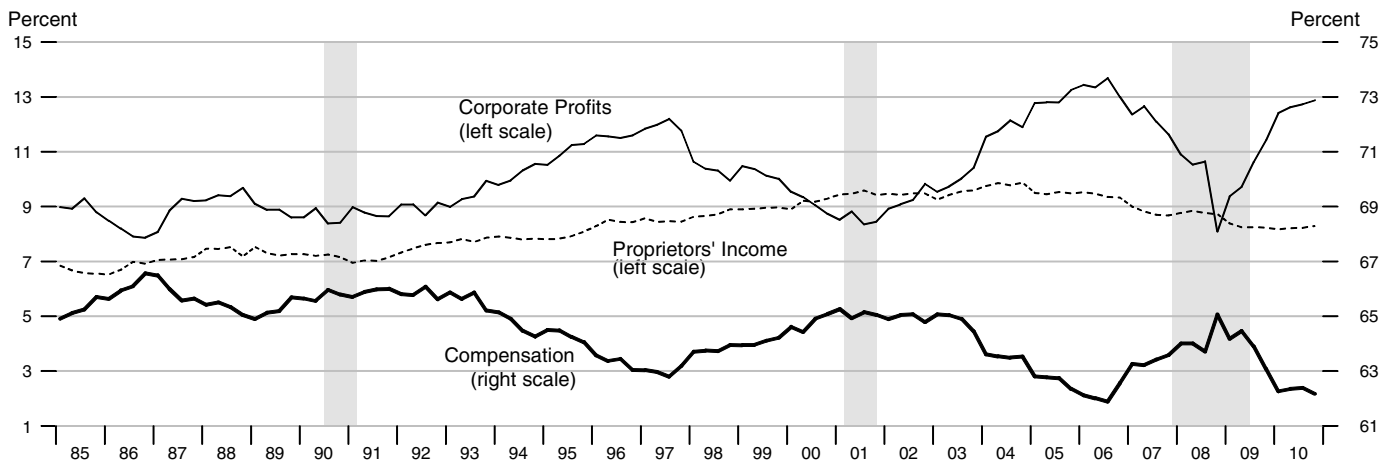
### Nonfarm Output per Hour



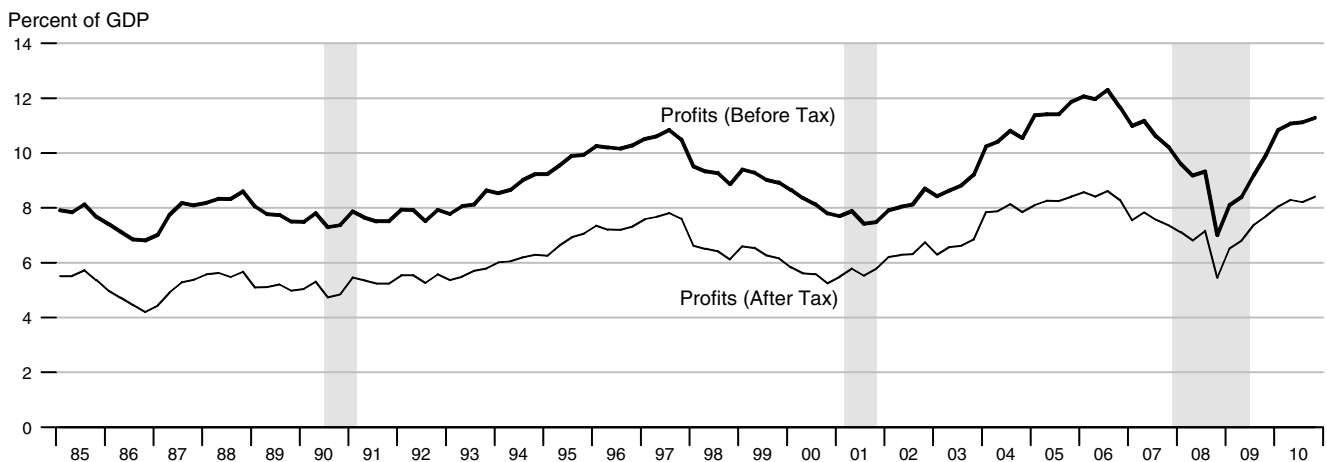
### Manufacturing Output per Hour



### Selected Component Shares of National Income

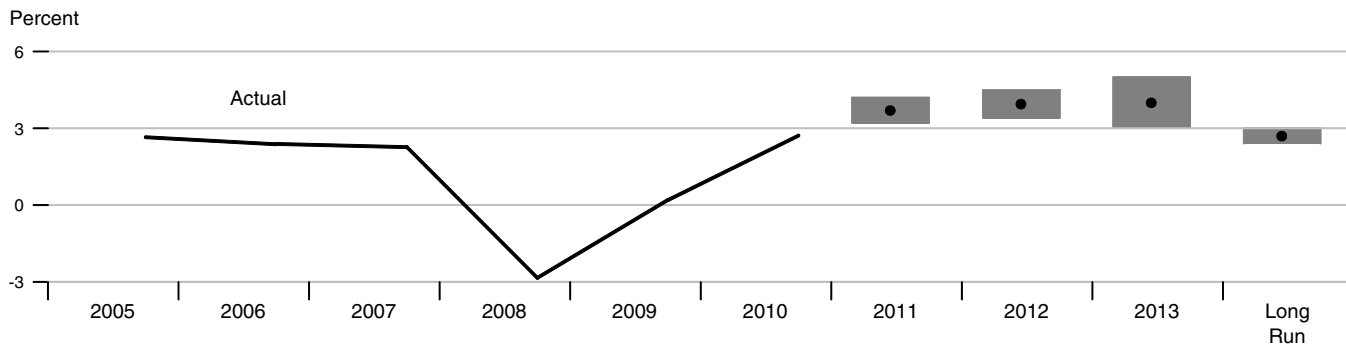


### Corporate Profits

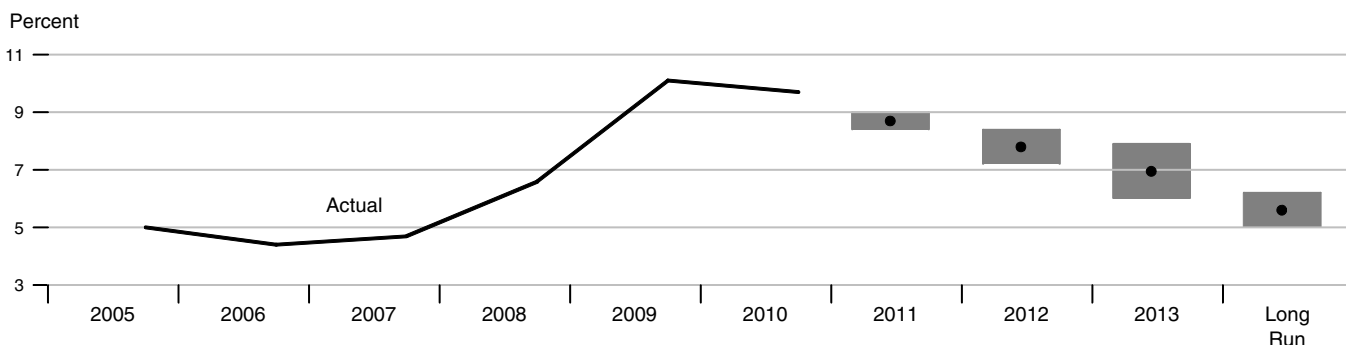


January 2011 FOMC Projections

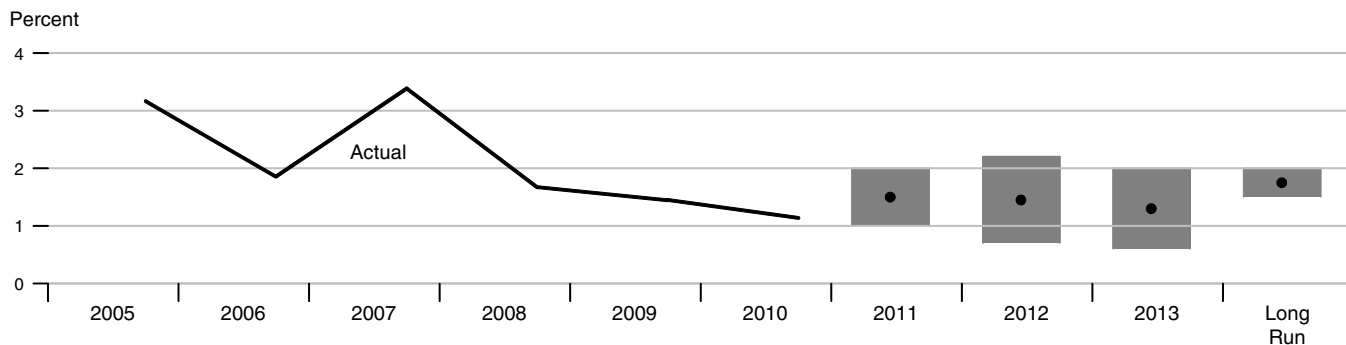
Change in Real GDP (Q4/Q4)



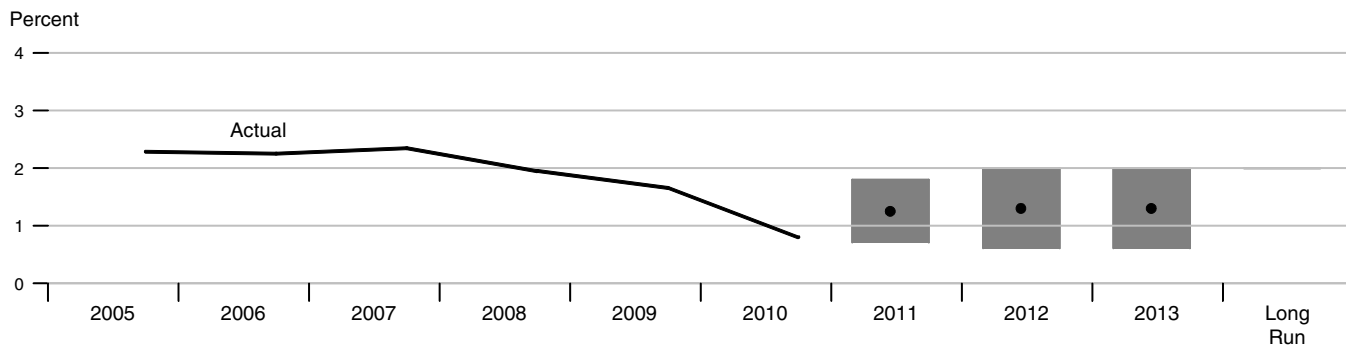
Unemployment Rate (Q4)



Change in PCE Price Index (Q4/Q4)

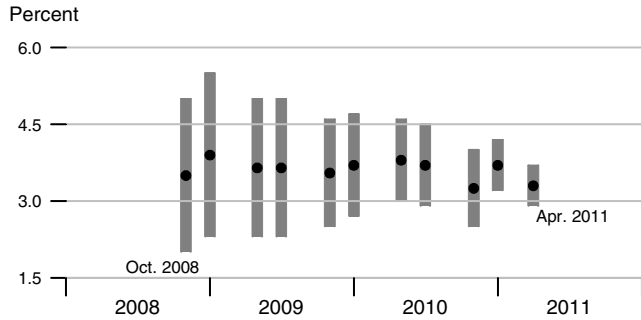


Change in PCE Price Index Excluding Food and Energy Prices (Q4/Q4)

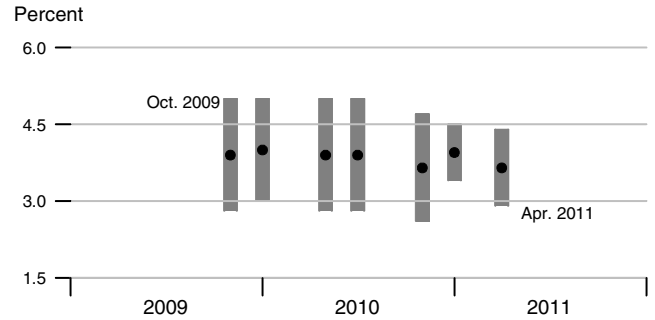


FOMC Quarterly Projections for 2011 and 2012: A Timeline

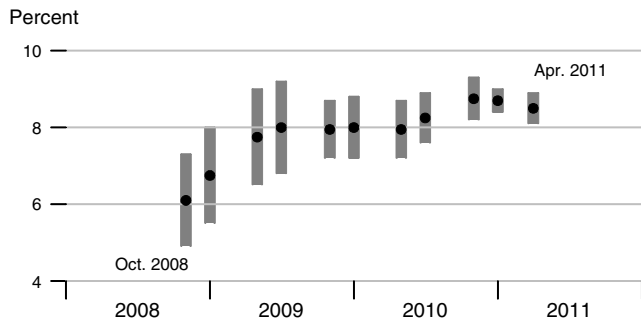
Change in Real GDP for 2011



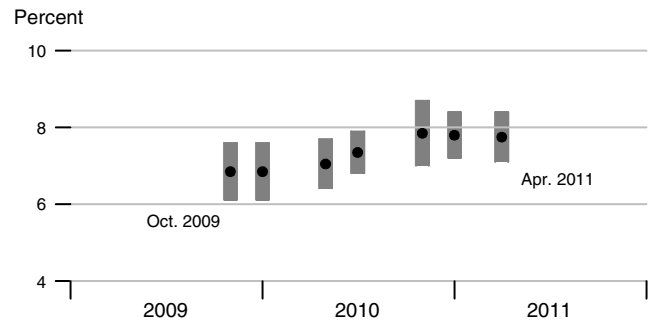
Change in Real GDP for 2012



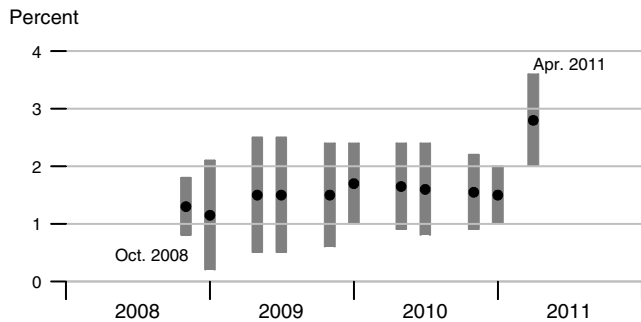
Unemployment Rate for 2011 (Q4)



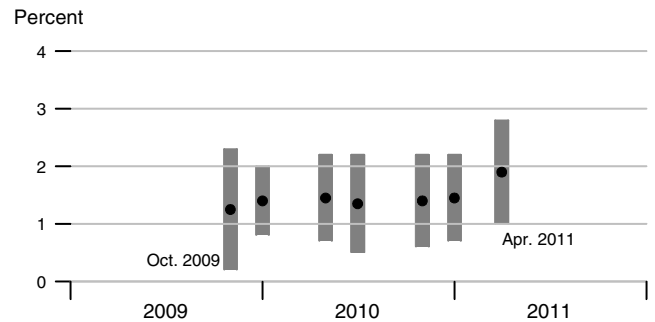
Unemployment Rate for 2012 (Q4)



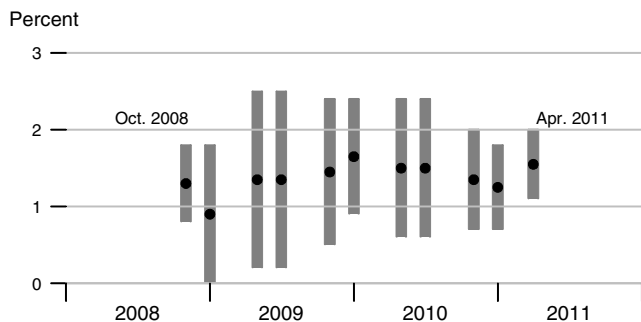
Change in PCE Price Index for 2011



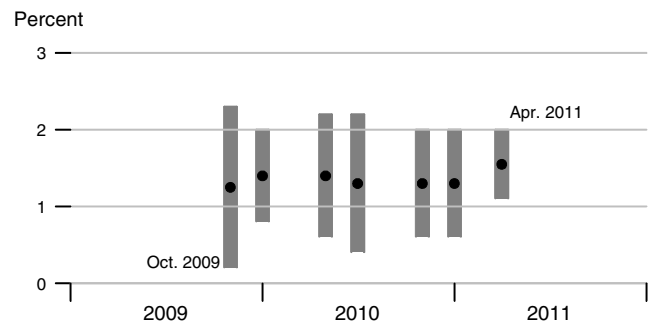
Change in PCE Price Index for 2012



Change in PCE Core Price Index for 2011



Change in PCE Core Price Index for 2012







	GDP Chain Price Index			Employment Cost Index			ECI: Wages			ECI: Benefits			
	Index	Percent change		Index	Percent change		Index	Percent change		Index	Percent change		
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago	
2007	106.301		2.9	105.2		3.1	105.5		3.4	104.6		2.4	
2008	108.598		2.2	108.2		2.9	108.6		3.0	107.2		2.5	
2009	109.618		0.9	109.8		1.4	110.3		1.6	108.5		1.2	
2010	110.668		1.0	111.9		1.9	112.1		1.6	111.3		2.6	
2008	1	107.454	1.9	2.0	107.2	2.7	3.2	107.6	3.4	3.2	106.4	1.9	3.2
	2	108.295	3.2	2.0	108.0	3.0	3.1	108.4	3.0	3.1	106.9	1.9	2.6
	3	109.488	4.5	2.6	108.6	2.2	2.8	109.0	2.2	2.9	107.5	2.3	2.4
	4	109.154	-1.2	2.1	109.1	1.9	2.4	109.5	1.8	2.6	107.9	1.5	1.9
2009	1	109.465	1.1	1.9	109.3	0.7	2.0	109.8	1.1	2.0	108.0	0.4	1.5
	2	109.555	0.3	1.2	109.5	0.7	1.4	110.1	1.1	1.6	108.3	1.1	1.3
	3	109.759	0.7	0.2	109.9	1.5	1.2	110.5	1.5	1.4	108.6	1.1	1.0
	4	109.693	-0.2	0.5	110.4	1.8	1.2	110.9	1.5	1.3	109.0	1.5	1.0
2010	1	109.959	1.0	0.5	111.1	2.6	1.6	111.4	1.8	1.5	110.3	4.9	2.1
	2	110.485	1.9	0.8	111.6	1.8	1.9	111.9	1.8	1.6	110.9	2.2	2.4
	3	111.060	2.1	1.2	112.1	1.8	2.0	112.3	1.4	1.6	111.6	2.5	2.8
	4	111.166	0.4	1.3	112.7	2.2	2.1	112.8	1.8	1.7	112.2	2.2	2.9
2011	1	111.689	1.9	1.6	113.3	2.1	2.0	113.2	1.4	1.6	113.5	4.7	2.9
	Exports			Imports			Nonfarm Output per Hour			Nonfarm Compensation per Hour			
	Billions of 2005 \$	Percent change		Billions of 2005 \$	Percent change		Index	Percent change		Index	Percent change		
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago	
2007	1554.404		9.3	2209.290		2.7	102.515		1.6	107.922		4.0	
2008	1647.699		6.0	2151.749		-2.6	103.555		1.0	111.443		3.3	
2009	1490.742		-9.5	1853.766		-13.8	107.355		3.7	113.711		2.0	
2010	1665.549		11.7	2088.048		12.6	111.522		3.9	116.380		2.3	
2008	1	1644.695	5.7	9.9	2174.606	-1.4	-0.8	103.522	-1.3	2.2	110.944	4.8	3.8
	2	1696.610	13.2	11.5	2190.400	2.9	-1.2	103.870	1.4	1.9	110.937	-0.0	3.5
	3	1674.951	-5.0	6.1	2189.780	-0.1	-2.4	103.405	-1.8	0.5	111.789	3.1	3.6
	4	1574.541	-21.9	-2.9	2052.211	-22.9	-6.0	103.430	0.1	-0.4	112.146	1.3	2.3
2009	1	1451.598	-27.8	-11.7	1840.835	-35.3	-15.3	104.401	3.8	0.8	111.213	-3.3	0.2
	2	1447.840	-1.0	-14.7	1789.850	-10.6	-18.3	106.660	8.9	2.7	113.814	9.7	2.6
	3	1490.030	12.2	-11.0	1880.823	21.9	-14.1	108.353	6.5	4.8	114.633	2.9	2.5
	4	1573.500	24.4	-0.1	1903.558	4.9	-7.2	110.114	6.7	6.5	115.274	2.3	2.8
2010	1	1616.422	11.4	11.4	1954.800	11.2	6.2	111.359	4.6	6.7	115.224	-0.2	3.6
	2	1652.095	9.1	14.1	2101.053	33.5	17.4	110.884	-1.7	4.0	116.104	3.1	2.0
	3	1679.335	6.8	12.7	2184.296	16.8	16.1	111.522	2.3	2.9	116.813	2.5	1.9
	4	1714.344	8.6	9.0	2112.044	-12.6	11.0	112.320	2.9	2.0	117.361	1.9	1.8
2011	1	1735.152	4.9	7.3	2134.837	4.4	9.2	112.773	1.6	1.3	118.118	2.6	2.5

	Household Survey Employment				Nonfarm Payroll Employment				Nonfarm Aggregate Hours				
	Thousands	Change	Percent change		Thousands	Change	Percent change		Index	Percent change			
			Annual rate	Year ago			Annual rate	Year ago		Monthly rate	Annual rate	Year ago	
2006	144418	2708		1.9	136092	2397		1.8	105.8			2.9	
2007	146049	1631		1.1	137587	1496		1.1	107.3			1.4	
2008	145369	-680		-0.5	136778	-809		-0.6	105.9			-1.2	
2009	139886	-5483		-3.8	130789	-5989		-4.4	98.7			-6.8	
2010	139069	-818		-0.6	129822	-967		-0.7	98.8			0.1	
2009	1	141570	-2487	-6.7	-3.2	132814	-2249	-6.5	-3.7	100.8	-2.6	-10.0	-6.1
	2	140330	-1240	-3.5	-3.8	130956	-1857	-5.5	-4.7	98.6	-2.2	-8.7	-7.8
	3	139331	-999	-2.8	-4.1	129960	-996	-3.0	-4.9	97.8	-0.8	-3.1	-7.6
	4	138314	-1017	-2.9	-4.0	129425	-535	-1.6	-4.2	97.5	-0.3	-1.2	-5.8
2010	1	138720	406	1.2	-2.0	129322	-103	-0.3	-2.6	97.9	0.4	1.5	-2.9
	2	139276	555	1.6	-0.8	129956	635	2.0	-0.8	98.6	0.8	3.2	0.1
	3	139212	-64	-0.2	-0.1	129883	-73	-0.2	-0.1	99.1	0.5	1.9	1.3
	4	139066	-146	-0.4	0.5	130128	245	0.8	0.5	99.5	0.4	1.6	2.1
2011	1	139587	520	1.5	0.6	130558	431	1.3	1.0	100.0	0.5	2.2	2.2
2009	Apr	140720	-102	-0.9	-3.7	131381	-660	-5.8	-4.6	99.0	-0.7	-8.1	-7.8
	May	140292	-428	-3.6	-3.9	130995	-386	-3.5	-4.7	98.7	-0.3	-3.6	-7.6
	Jun	139978	-314	-2.7	-3.9	130493	-502	-4.5	-4.9	98.0	-0.7	-8.2	-8.1
	Jul	139794	-184	-1.6	-3.9	130193	-300	-2.7	-5.0	98.1	0.1	1.2	-7.5
	Aug	139409	-385	-3.3	-4.0	129962	-231	-2.1	-5.0	97.9	-0.2	-2.4	-7.7
	Sep	138791	-618	-5.2	-4.3	129726	-236	-2.2	-4.8	97.4	-0.5	-6.0	-7.6
	Oct	138393	-398	-3.4	-4.4	129505	-221	-2.0	-4.6	97.2	-0.2	-2.4	-7.1
	Nov	138590	197	1.7	-3.8	129450	-55	-0.5	-4.1	97.7	0.5	6.4	-5.6
	Dec	137960	-630	-5.3	-3.7	129320	-130	-1.2	-3.8	97.6	-0.1	-1.2	-4.8
2010	Jan	138511	551	4.9	-2.6	129281	-39	-0.4	-3.2	97.9	0.3	3.8	-3.7
	Feb	138698	187	1.6	-2.1	129246	-35	-0.3	-2.7	97.6	-0.3	-3.6	-3.5
	Mar	138952	254	2.2	-1.3	129438	192	1.8	-2.0	98.1	0.5	6.3	-1.6
	Apr	139382	430	3.8	-1.0	129715	277	2.6	-1.3	98.6	0.5	6.3	-0.4
	May	139353	-29	-0.2	-0.7	130173	458	4.3	-0.6	98.6	0.0	0.0	-0.1
	Jun	139092	-261	-2.2	-0.6	129981	-192	-1.8	-0.4	98.7	0.1	1.2	0.7
	Jul	138991	-101	-0.9	-0.6	129932	-49	-0.5	-0.2	99.0	0.3	3.7	0.9
	Aug	139267	276	2.4	-0.1	129873	-59	-0.5	-0.1	99.1	0.1	1.2	1.2
	Sep	139378	111	1.0	0.4	129844	-29	-0.3	0.1	99.2	0.1	1.2	1.8
	Oct	139084	-294	-2.5	0.5	130015	171	1.6	0.4	99.4	0.2	2.4	2.3
	Nov	138909	-175	-1.5	0.2	130108	93	0.9	0.5	99.5	0.1	1.2	1.8
	Dec	139206	297	2.6	0.9	130260	152	1.4	0.7	99.6	0.1	1.2	2.0
2011	Jan	139323	117	1.0	0.6	130328	68	0.6	0.8	99.4	-0.2	-2.4	1.5
	Feb	139573	250	2.2	0.6	130563	235	2.2	1.0	100.2	0.8	10.1	2.7
	Mar	139864	291	2.5	0.7	130784	221	2.1	1.0	100.5	0.3	3.7	2.4
	Apr	139674	-190	-1.6	0.2	131028	244	2.3	1.0	100.7	0.2	2.4	2.1

		Unempl. Rate	Retail and Food Services Sales				Industrial Production				Treasury Yields	
			Billions of dollars	Percent change			Index	Percent change			(Percent)	
				Monthly/ quarterly	Annual rate	Year ago		Monthly/ quarterly	Annual rate	Year ago	3-mo	10-yr
2006		4.6	4310.458			5.4	97.4062			2.2	4.73	4.79
2007		4.6	4454.439			3.3	100.0000			2.7	4.35	4.63
2008		5.8	4401.327			-1.2	96.2907			-3.7	1.37	3.67
2009		9.3	4093.193			-7.0	85.5452			-11.2	0.15	3.26
2010		9.6	4353.704			6.4	90.0668			5.3	0.14	3.21
2009	1	8.2	1009.353	-2.0	-7.8	-10.1	86.6582	-5.1	-18.9	-13.5	0.21	2.74
	2	9.3	1010.378	0.1	0.4	-10.6	84.0560	-3.0	-11.5	-14.6	0.17	3.31
	3	9.7	1031.826	2.1	8.8	-7.7	85.1501	1.3	5.3	-10.6	0.16	3.52
	4	10.0	1041.636	1.0	3.9	1.1	86.3166	1.4	5.6	-5.5	0.06	3.46
2010	1	9.7	1063.065	2.1	8.5	5.3	88.0179	2.0	8.1	1.6	0.11	3.72
	2	9.6	1079.472	1.5	6.3	6.8	89.5349	1.7	7.1	6.5	0.15	3.49
	3	9.6	1089.281	0.9	3.7	5.6	91.0081	1.6	6.7	6.9	0.16	2.79
	4	9.6	1121.886	3.0	12.5	7.7	91.7065	0.8	3.1	6.2	0.14	2.86
2011	1	8.9	1150.672	2.6	10.7	8.2	92.7437	1.1	4.6	5.4	0.13	3.46
2009	Apr	8.9	333.347	0.2	2.5	-11.3	84.7761	-0.9	-10.2	-14.3	0.16	2.93
	May	9.4	336.228	0.9	10.9	-10.8	83.8658	-1.1	-12.2	-14.7	0.18	3.29
	Jun	9.5	340.803	1.4	17.6	-9.8	83.5261	-0.4	-4.8	-14.8	0.18	3.72
	Jul	9.5	341.025	0.1	0.8	-9.2	84.4347	1.1	13.9	-13.6	0.18	3.56
	Aug	9.7	349.245	2.4	33.1	-6.6	85.2174	0.9	11.7	-11.3	0.17	3.59
	Sep	9.8	341.556	-2.2	-23.4	-7.2	85.7983	0.7	8.5	-6.8	0.12	3.40
	Oct	10.1	343.807	0.7	8.2	-2.8	86.0163	0.3	3.1	-7.4	0.07	3.39
	Nov	9.9	348.049	1.2	15.9	1.6	86.2137	0.2	2.8	-6.0	0.05	3.40
	Dec	9.9	349.780	0.5	6.1	4.8	86.7197	0.6	7.3	-2.9	0.05	3.59
2010	Jan	9.7	351.079	0.4	4.5	3.6	87.7492	1.2	15.2	0.3	0.06	3.73
	Feb	9.7	352.109	0.3	3.6	4.2	87.9129	0.2	2.3	1.1	0.11	3.69
	Mar	9.7	359.877	2.2	29.9	8.2	88.3915	0.5	6.7	3.3	0.15	3.73
	Apr	9.8	361.942	0.6	7.1	8.6	88.7051	0.4	4.3	4.6	0.16	3.85
	May	9.6	359.164	-0.8	-8.8	6.8	89.9025	1.3	17.5	7.2	0.16	3.42
	Jun	9.5	358.366	-0.2	-2.6	5.2	89.9970	0.1	1.3	7.7	0.12	3.20
	Jul	9.5	359.532	0.3	4.0	5.4	90.7919	0.9	11.1	7.5	0.16	3.01
	Aug	9.6	363.025	1.0	12.3	3.9	90.9898	0.2	2.6	6.8	0.16	2.70
	Sep	9.6	366.724	1.0	12.9	7.4	91.2427	0.3	3.4	6.3	0.15	2.65
	Oct	9.7	371.404	1.3	16.4	8.0	91.1385	-0.1	-1.4	6.0	0.13	2.54
	Nov	9.8	374.159	0.7	9.3	7.5	91.4039	0.3	3.6	6.0	0.14	2.76
	Dec	9.4	376.323	0.6	7.2	7.6	92.5771	1.3	16.5	6.8	0.14	3.29
2011	Jan	9.0	379.257	0.8	9.8	8.0	92.6820	0.1	1.4	5.6	0.15	3.39
	Feb	8.9	384.044	1.3	16.2	9.1	92.4408	-0.3	-3.1	5.2	0.13	3.58
	Mar	8.8	387.371	0.9	10.9	7.6	93.1084	0.7	9.0	5.3	0.10	3.41
	Apr	9.0	389.355	0.5	6.3	7.6	93.0970	-0.0	-0.1	5.0	0.06	3.46

		Consumer Price Index					Consumer Price Index less Food and Energy					Producer Price Index Finished Goods				
		Percent change					Percent change					Percent change				
		Index	Monthly/ quarterly	Annual rate	Year ago	Year to date	Index	Monthly/ quarterly	Annual rate	Year ago	Year to date	Index	Monthly/ quarterly	Annual rate	Year ago	
2006		201.558			3.2		205.917			2.5		160.4			2.9	
2007		207.337			2.9		210.728			2.3		166.6			3.9	
2008		215.251			3.8		215.567			2.3		177.2			6.4	
2009		214.548			-0.3		219.237			1.7		172.7			-2.5	
2010		218.079			1.6		221.337			1.0		179.9			4.2	
2009	1	212.451	-0.6	-2.4	-0.2	-2.4	217.710	0.4	1.6	1.7	1.6	170.3	-1.6	-6.4	-2.1	
	2	213.468	0.5	1.9	-1.0	-0.3	218.916	0.6	2.2	1.8	1.9	171.6	0.8	3.2	-4.1	
	3	215.419	0.9	3.7	-1.6	1.0	219.691	0.4	1.4	1.5	1.7	173.1	0.9	3.5	-5.2	
	4	216.853	0.7	2.7	1.5	1.5	220.629	0.4	1.7	1.7	1.7	175.7	1.5	6.1	1.5	
2010	1	217.544	0.3	1.3	2.4	1.3	220.603	-0.0	-0.0	1.3	-0.0	178.9	1.8	7.4	5.1	
	2	217.270	-0.1	-0.5	1.8	0.4	221.053	0.2	0.8	1.0	0.4	179.0	0.1	0.3	4.3	
	3	218.039	0.4	1.4	1.2	0.7	221.671	0.3	1.1	0.9	0.6	179.5	0.3	1.1	3.7	
	4	219.465	0.7	2.6	1.2	1.2	222.021	0.2	0.6	0.6	0.6	182.3	1.6	6.5	3.8	
2011	1	222.274	1.3	5.2	2.2	5.2	222.982	0.4	1.7	1.1	1.7	187.9	3.1	12.9	5.1	
2009	Apr	212.799	0.1	1.3	-0.6	2.1	218.614	0.2	2.7	1.9	2.4	170.4	0.6	8.1	-3.3	
	May	213.078	0.1	1.6	-1.0	2.0	218.906	0.1	1.6	1.8	2.3	170.6	0.1	1.4	-4.6	
	Jun	214.527	0.7	8.5	-1.2	3.1	219.228	0.1	1.8	1.7	2.2	173.9	1.9	25.8	-4.3	
	Jul	214.782	0.1	1.4	-2.0	2.8	219.427	0.1	1.1	1.5	2.0	171.7	-1.3	-14.2	-6.6	
	Aug	215.519	0.3	4.2	-1.5	3.0	219.625	0.1	1.1	1.4	1.9	174.1	1.4	18.1	-4.3	
	Sep	215.956	0.2	2.5	-1.3	2.9	220.020	0.2	2.2	1.5	1.9	173.5	-0.3	-4.1	-4.8	
	Oct	216.445	0.2	2.8	-0.2	2.9	220.489	0.2	2.6	1.7	2.0	173.9	0.2	2.8	-2.0	
	Nov	216.956	0.2	2.9	1.9	2.9	220.616	0.1	0.7	1.7	1.9	176.3	1.4	17.9	2.3	
	Dec	217.158	0.1	1.1	2.8	2.8	220.783	0.1	0.9	1.8	1.8	176.9	0.3	4.2	4.4	
	2010	Jan	217.458	0.1	1.7	2.6	1.7	220.494	-0.1	-1.6	1.5	-1.6	178.9	1.1	14.4	4.7
		Feb	217.562	0.0	0.6	2.2	1.1	220.619	0.1	0.7	1.3	-0.4	178.2	-0.4	-4.6	4.4
		Mar	217.611	0.0	0.3	2.4	0.8	220.695	0.0	0.4	1.2	-0.2	179.5	0.7	9.1	6.0
Apr		217.625	0.0	0.1	2.3	0.6	220.786	0.0	0.5	1.0	0.0	179.4	-0.1	-0.7	5.3	
May		217.320	-0.1	-1.7	2.0	0.2	221.041	0.1	1.4	1.0	0.3	179.1	-0.2	-2.0	5.0	
Jun		216.865	-0.2	-2.5	1.1	-0.3	221.331	0.1	1.6	1.0	0.5	178.5	-0.3	-3.9	2.6	
Jul		217.621	0.3	4.3	1.3	0.4	221.557	0.1	1.2	1.0	0.6	178.6	0.1	0.7	4.0	
Aug		218.068	0.2	2.5	1.2	0.6	221.691	0.1	0.7	0.9	0.6	179.7	0.6	7.6	3.2	
Sep		218.427	0.2	2.0	1.1	0.8	221.765	0.0	0.4	0.8	0.6	180.2	0.3	3.4	3.9	
Oct		218.970	0.2	3.0	1.2	1.0	221.795	0.0	0.2	0.6	0.6	181.2	0.6	6.9	4.2	
Nov		219.240	0.1	1.5	1.1	1.0	222.059	0.1	1.4	0.7	0.6	182.1	0.5	6.1	3.3	
Dec		220.186	0.4	5.3	1.4	1.4	222.210	0.1	0.8	0.6	0.6	183.7	0.9	11.1	3.8	
2011	Jan	221.062	0.4	4.9	1.7	4.9	222.587	0.2	2.1	0.9	2.1	185.5	1.0	12.4	3.7	
	Feb	222.270	0.5	6.8	2.2	5.8	223.029	0.2	2.4	1.1	2.2	188.5	1.6	21.2	5.8	
	Mar	223.490	0.5	6.8	2.7	6.1	223.331	0.1	1.6	1.2	2.0	189.8	0.7	8.6	5.7	
	Apr	224.433	0.4	5.2	3.1	5.9	223.745	0.2	2.2	1.3	2.1	191.3	0.8	9.9	6.6	

## Notes

*Pages 4, 5:* **Final Sales** is gross domestic product (GDP) minus change in private inventories. **Advance, Second, and Third GDP Growth Rates** are released during the first, second, and third months of the following quarter. Changes result from incorporation of more complete information. Real GDP is measured in 2005 dollars. The **ISM** (formerly Purchasing Managers') **Index** is a weighted average of diffusion indexes for new orders, production, supplier deliveries, inventories, and employment. **Aggregate and Average Weekly Hours** are paid hours of production and nonsupervisory employees. The **Inventory-Sales Ratio** uses nominal (current-dollar) inventory and sales data.

*Page 6:* For information on how to calculate the **Contribution** of a component to the overall GDP growth rate, see the October 1999 issue of the Survey of Current Business, p. 16. The sign is changed for **Imports**.

*Page 7:* Ten-year **Treasury Yields** are adjusted to constant maturity; three-month yields are secondary market averages. All rates used in the yield curves are adjusted to constant maturity. **Standard and Poor's 500 Index with Reinvested Dividends** shows the total return: capital gains plus dividends.

*Pages 8, 9:* **Oil** (West Texas intermediate) and **Natural Gas** (Henry Hub) spot and futures **prices** are listed in the *Wall Street Journal*. Spot prices are monthly averages of daily prices; futures prices are usually taken from the last trading day of the month. **Consumer Price Index** is for all urban consumers. The **Consumption Chain Price Index** is the index associated with the personal consumption expenditures component of GDP. The **Employment Cost Index (ECI)** covers private nonfarm employers. **ECI Compensation** refers to a fixed sample of jobs, while **Compensation per Hour** covers all workers in the nonfarm business sector in a given quarter. In both cases, compensation is wages and salaries plus benefits.

*Pages 10, 11:* Effective with the January 2008 **Employment Situation**, the establishment survey data for employment, hours, and earnings have been converted from the 2002 NAICS system to the 2007 NAICS system. For more information see <http://www.bls.gov/ces/>. **Nonfarm Payroll Employment** is counted in a survey of about 400,000 establishments (Current Employment Statistics). It excludes self-employed individuals and workers in private households, but double-counts individuals with more than one job. The **Household Survey** (Current Population Survey) of about 60,000 households provides estimates of civilian employment, unemployment rate, labor force participation rate, and employment-population ratio. **Population** is civilian, noninstitutional, 16 years and over. The 90 percent confidence intervals for the unemployment rate ( $\pm 0.2$  percentage points) and change in household survey employment ( $\pm 430,000$ ) measure uncertainty due to sample size. Because the household survey was changed in January 1994, data prior to this date are not strictly comparable. The Bureau of Labor Statistics announced several revisions to the Household Survey on Feb. 7, 2003, with the release of the January 2003 data. For more information, see [www.bls.gov/cps/](http://www.bls.gov/cps/). The **Job Openings rate** is the number of job openings on the last business day of the month as a percent of total employment plus job openings.

*Page 13:* The **Michigan Consumer Sentiment Index** shows changes in a summary measure of consumers' answers to five questions about their current and expected financial situation, expectations about future economic conditions, and attitudes about making large purchases. The survey is based on a representative sample of U.S. households.

*Page 15:* **Gross Private Saving** is the sum of personal saving, undistributed corporate profits with IVA and CCAj (see notes for pp. 18-19), and private wage accruals less disbursements. **Gross Government Saving** is net government saving (surplus/deficit) plus consumption of fixed capital. **Balance on Current Account (NIPA)** is net capital transfer payments to the rest of the world plus net lending or net borrowing (international trade and income flows).

*Pages 16, 17:* **Government Consumption and Investment** is current expenditures on goods and services, including capital consumption (depreciation) and gross investment, as reported in the NIPAs. The **Unified Federal Budget Surplus/Deficit** differs from **NIPA Basis** in four main ways: (1) NIPA excludes transactions involving existing assets; (2) NIPA outlays exclude government

investment and include consumption of government capital, while unified budget outlays do the reverse; (3) NIPA accounts exclude Puerto Rico and U.S. territories; and (4) various timing issues are handled differently. **Outlays and Receipts** are from the NIPAs, except as noted. Since 1977, the federal **Fiscal Year** starts on October 1. Excluded agency debt was 0.6 percent of federal debt at the end of fiscal 1997. **Federal Debt Held by the Public** includes holdings of the Federal Reserve System and excludes holdings of the social security and other federal trust funds. Federal grants in aid to state and local governments appear in both state and local receipts and federal outlays.

*Pages 18, 19:* The **Trade Balance** (shown on a balance of payments basis) is the difference between exports and imports of goods (merchandise) and services. It is nearly identical in concept to the **Net Exports** component of GDP, but differs slightly in accounting details. The **Investment Income Balance** equals income received from U.S.-owned assets in other countries minus income paid on foreign-owned assets in the U.S. The investment income balance is nearly identical in concept to the difference between gross national product and gross domestic product, but differs in accounting details. The **Current Account Balance** is the trade balance plus the balance on investment income plus net unilateral transfers to the U.S. from other countries.

*Pages 20, 21:* **Output per Hour (Y/H)**, **Unit Labor Cost (C/Y)**, and **Compensation per Hour (C/H)** are indexes which approximately obey the following relationship:  $\%(Y/H) + \%(C/Y) = \%(C/H)$  with  $\%( )$  meaning percent changes. Unit labor cost is shown on page 9. **Real Compensation per Hour** uses the CPI to adjust for the effects of inflation. Nonfarm business accounted for about 77 percent of the value of GDP in 2000, while nonfinancial corporations accounted for about 54 percent. **Inventory Valuation Adjustments (IVA)** remove the effect of changes in the value of existing inventories from corporate profits and proprietors' income. (This change in value does not correspond to current production and therefore is not part of GDP). **Capital Consumption Adjustments (CCAdj)** increase profits and proprietors' income by the difference between estimates of economic depreciation and depreciation allowed by the tax code. Components of national income not shown are rental income of persons and net interest.

*Pages 22, 23:* The economic projections of the **Federal Open Market Committee (FOMC)** are published four times a year. Except for the unemployment rate, the projections for the current and following years are on a Q4/Q4 horizon. The shaded area represents the range of the economic projections of the FOMC members, and the dot signifies the mid-point of the ranges. The projections of the changes in the total PCE price index and the core PCE price index (excluding food and energy prices) are presumed to converge over time.

## Sources

*Bureau of Economic Analysis (BEA), U.S. Dept. of Commerce*

National income and product accounts, international trade and investment data (except by country), auto and light truck sales.

*Census Bureau, U.S. Dept. of Commerce*

Inventory-sales ratios, retail sales, capital goods orders, housing starts, exports and imports by country.

*Bureau of Labor Statistics (BLS), U.S. Dept. of Labor*

All employment-related data, employment cost index, consumer and producer price indexes, unit labor cost, output per hour, compensation per hour, multifactor productivity.

*United States Department of Treasury*

Unified budget receipts, outlays, deficit, debt.

*Federal Reserve Board*

Index of industrial production, treasury yields, exchange rates, capacity utilization, household debt.

*The Survey Research Center, The University of Michigan*

Consumer sentiment index.

*Organization for Economic Cooperation and Development (OECD)*

GDP for major trading partners (not available on FRED).