

Commercial Bank Lending Data during the Crisis: Handle with Care

Since the financial crisis began in mid-2007, media sources and academics alike have scrutinized data from the banking sector to understand how lending to consumers and firms has changed. “Total loans and leases” by commercial banks are the sum of real estate loans, individual loans, commercial and industrial loans, and other loans. This measure is part of the H.8 data, which provide weekly aggregate balance sheet data for commercial banks with a charter in the United States.

If considered over the past three decades, the series appears approximately on trend but slightly erratic during the current recession; total loans and leases remains fairly constant until the end of 2008:Q3, when it increases sharply and then declines.

If our goal is to understand changes in lending dynamics, particularly over the past few quarters, does this series imply that commercial bank lending increased in the last few months of 2008 and *then* bank lending to the public contracted? Not quite. Several reasons suggest reading such data with extreme care.¹

First, existing loans and leases at each point in time are equilibrium quantities that depend on the interaction between the supply and demand of credit. Whether the observed decrease in the series is caused by banks restricting their lending or by borrowers demanding less credit during a major recession remains unclear.

Second, commercial banks are responsible for only a fraction (about 35 percent) of financial intermediation in the U.S. economy. The H.8 release does not include the loans of other intermediaries (thrifts and non-depository institutions); therefore, just because we do not observe a large contraction in this volume of total loans and leases does not mean that a contraction in the *overall* economy has not occurred. In fact, evidence suggests that other credit markets have been severely strained.²

Third, since the onset of the crisis, several financial services companies and thrifts that made loans to consumers and firms (but whose loans were not included in the H.8 release) have either become commercial banks or have been acquired by commercial banks. When a com-

mercial bank acquires a thrift, an insurance company, or another financial firm, the loans of the target (acquired) company suddenly appear as *additional* commercial bank loans even though no real change in credit took place in the economy. Many such transactions have occurred since the crisis began, creating an upward shift to the series that cannot be interpreted as an increase in *lending*. (Take, for example, the acquisition of the banking operations of Washington Mutual by JPMorgan Chase on September 25, 2008.)

Fourth, evidence indicates that firms and individuals are taking advantage of their previously unused (but committed) bank credit lines, just as they did in previous periods of credit contraction.³ If banks grant only a handful of new loans but borrowers continue to draw from existing lines of credit available at commercial banks, the end result would appear to be an increase in lending. At the same time, commercial banks may be withdrawing part of their commitments, which would not be recorded in balance sheet and H.8 data.

Finally, this series may be affected by the programs implemented by the Treasury and the Federal Reserve (for example, the Troubled Asset Relief Program or the Term Auction Facility) and may have been very different without these interventions.

These caveats indicate that caution is necessary when making inferences based solely on aggregate loans data.

—Silvio Contessi and Hoda El-Ghazaly

¹ See Contessi, Silvio and Francis, Johanna L. “U.S. Commercial Bank Lending through 2008:Q4: New Evidence from Gross Credit Flows.” Working Paper No. 2009-011B, Federal Reserve Bank of St. Louis, April 2009; [http://research.stlouisfed.org/wp/2009-011.pdf](http://research.stlouisfed.org/wp/2009/2009-011.pdf).

² Duke, Elizabeth A. “Containing the Crisis and Promoting Economic Recovery.” Presented at Women in Housing and Finance Annual Meeting, June 15, 2009; www.federalreserve.gov/newsevents/speech/duke20090616a.htm.

³ See Morgan, Donald P. “Bank Credit Commitments: Protection from a Crunch?” Federal Reserve Bank of Kansas City *Economic Review*, September/October 1990, 75(5), pp. 51-59; www.kc.frb.org/PUBLICAT/ECONREV/EconRevArchive/1990/3-4q90morg.pdf.

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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.

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This issue incorporates revised estimates of national income and product accounts data that were released by the Bureau of Economic Analysis (BEA) in the comprehensive revision on July 31, 2009. Besides the availability of new and revised source data, the reference year for chain-type price indexes and chained-dollar estimates was changed from 2000 to 2005. The BEA will not release the full history all at once. Charts will be processed as they are made available by the BEA. For more information, see <http://www.bea.gov/national/an1.htm>.

Notes

Pages 4, 5: Final Sales is gross domestic product (GDP) minus change in private inventories. *Advance, Preliminary, and Final 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 (± 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/. 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 CCAAdj (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 $\%(C/H)$ 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 (CCAAdj)* 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.

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.

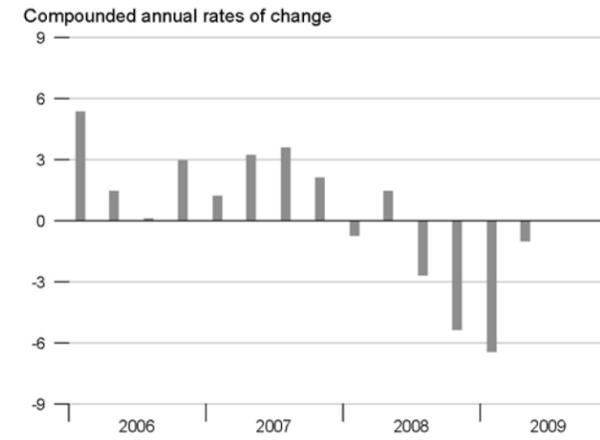
Federal Reserve Board
 Index of industrial production, treasury yields, exchange rates, capacity utilization, household debt.

The Survey Research Center, The University of Michigan
 Consumer sentiment index.

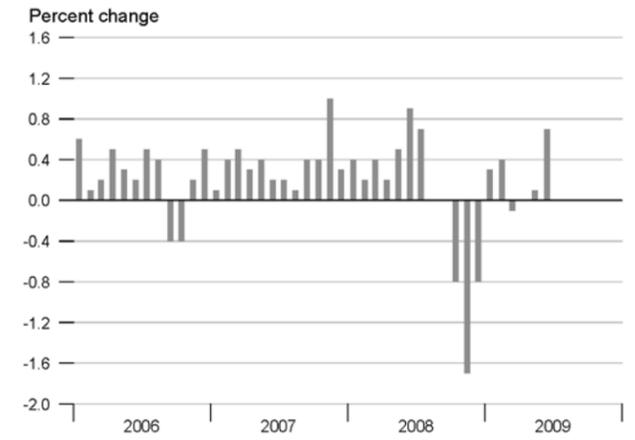
Organization for Economic Cooperation and Development (OECD)
 GDP for major trading partners (not available on FRED).

	Consumer Price Index					Consumer Price Index less Food and Energy					Producer Price Index Finished Goods				
	Index	Percent change				Index	Percent change				Index	Percent change			
		Monthly/quarterly	Annual rate	Year ago	Year to date		Monthly/quarterly	Annual rate	Year ago	Year to date		Monthly/quarterly	Annual rate	Year ago	
2004	188.908			2.7		196.642			1.8		148.5			3.6	
2005	195.292			3.4		200.883			2.2		155.8			4.9	
2006	201.583			3.2		205.933			2.5		160.3			2.9	
2007	207.348			2.9		210.730			2.3		166.6			3.9	
2008	215.224			3.8		215.570			2.3		177.3			6.4	
2007	1	204.426	1.0	3.9	2.4	3.9	208.993	0.6	2.3	2.6	2.3	162.6	1.6	6.4	1.9
	2	206.542	1.0	4.2	2.6	4.0	210.097	0.5	2.1	2.3	2.2	166.0	2.0	8.5	3.4
	3	207.747	0.6	2.4	2.3	3.5	211.204	0.5	2.1	2.1	2.2	166.9	0.6	2.4	3.6
	4	210.679	1.4	5.8	4.0	4.0	212.627	0.7	2.7	2.3	2.3	171.0	2.4	10.1	6.8
2008	1	213.007	1.1	4.5	4.2	4.5	213.942	0.6	2.5	2.4	2.5	174.4	2.0	8.1	7.2
	2	215.358	1.1	4.5	4.3	4.5	215.007	0.5	2.0	2.3	2.3	178.5	2.4	9.9	7.6
	3	218.620	1.5	6.2	5.2	5.1	216.493	0.7	2.8	2.5	2.4	182.7	2.4	9.7	9.5
	4	213.910	-2.2	-8.3	1.5	1.5	216.836	0.2	0.6	2.0	2.0	173.4	-5.1	-19.0	1.4
2009	1	212.632	-0.6	-2.4	-0.2	-2.4	217.659	0.4	1.5	1.7	1.5	170.5	-1.6	-6.4	-2.2
	2	213.335	0.3	1.3	-0.9	-0.5	218.949	0.6	2.4	1.8	2.0	171.1	0.3	1.3	-4.2
2007	Jun	207.023	0.2	2.0	2.6	3.7	210.492	0.2	2.4	2.2	2.3	166.1	-0.2	-2.1	3.2
	Jul	207.338	0.2	1.8	2.3	3.4	210.866	0.2	2.2	2.2	2.3	167.2	0.7	8.2	4.0
	Aug	207.520	0.1	1.1	1.9	3.1	211.159	0.1	1.7	2.1	2.2	166.2	-0.6	-6.9	2.4
	Sep	208.382	0.4	5.1	2.8	3.3	211.587	0.2	2.5	2.1	2.2	167.4	0.7	9.0	4.5
	Oct	209.133	0.4	4.4	3.6	3.5	212.070	0.2	2.8	2.2	2.3	168.6	0.7	8.9	6.3
	Nov	211.166	1.0	12.3	4.4	4.2	212.644	0.3	3.3	2.3	2.4	172.6	2.4	32.5	7.6
Dec	211.737	0.3	3.3	4.2	4.2	213.166	0.2	3.0	2.4	2.4	171.8	-0.5	-5.4	6.4	
2008	Jan	212.495	0.4	4.4	4.4	4.4	213.714	0.3	3.1	2.5	3.1	173.4	0.9	11.8	7.8
	Feb	212.860	0.2	2.1	4.2	3.2	213.859	0.1	0.8	2.3	2.0	174.1	0.4	5.0	6.9
	Mar	213.667	0.4	4.6	4.1	3.7	214.252	0.2	2.2	2.4	2.1	175.6	0.9	10.8	6.9
	Apr	213.997	0.2	1.9	3.9	3.2	214.496	0.1	1.4	2.3	1.9	176.0	0.2	2.8	6.4
	May	215.044	0.5	6.0	4.0	3.8	214.950	0.2	2.6	2.3	2.0	178.6	1.5	19.2	7.3
	Jun	217.034	0.9	11.7	4.8	5.1	215.575	0.3	3.5	2.4	2.3	181.0	1.3	17.4	9.0
	Jul	218.610	0.7	9.1	5.4	5.6	216.162	0.3	3.3	2.5	2.4	183.4	1.3	17.1	9.7
	Aug	218.576	-0.0	-0.2	5.3	4.9	216.534	0.2	2.1	2.5	2.4	182.5	-0.5	-5.7	9.8
	Sep	218.675	0.0	0.5	4.9	4.4	216.784	0.1	1.4	2.5	2.3	182.3	-0.1	-1.3	8.9
	Oct	216.889	-0.8	-9.4	3.7	2.9	216.758	-0.0	-0.1	2.2	2.0	177.6	-2.6	-26.9	5.3
	Nov	213.263	-1.7	-18.3	1.0	0.8	216.868	0.1	0.6	2.0	1.9	172.8	-2.7	-28.0	0.1
	Dec	211.577	-0.8	-9.1	-0.1	-0.1	216.882	0.0	0.1	1.7	1.7	169.7	-1.8	-19.5	-1.2
2009	Jan	212.174	0.3	3.4	-0.2	3.4	217.265	0.2	2.1	1.7	2.1	171.2	0.9	11.1	-1.3
	Feb	213.007	0.4	4.8	0.1	4.1	217.670	0.2	2.3	1.8	2.2	171.1	-0.1	-0.7	-1.7
	Mar	212.714	-0.1	-1.6	-0.4	2.2	218.042	0.2	2.1	1.8	2.2	169.3	-1.1	-11.9	-3.6
	Apr	212.671	-0.0	-0.2	-0.6	1.6	218.594	0.3	3.1	1.9	2.4	169.8	0.3	3.6	-3.5
	May	212.876	0.1	1.2	-1.0	1.5	218.910	0.1	1.7	1.8	2.3	170.2	0.2	2.9	-4.7
	Jun	214.459	0.7	9.3	-1.2	2.7	219.344	0.2	2.4	1.7	2.3	173.2	1.8	23.3	-4.3

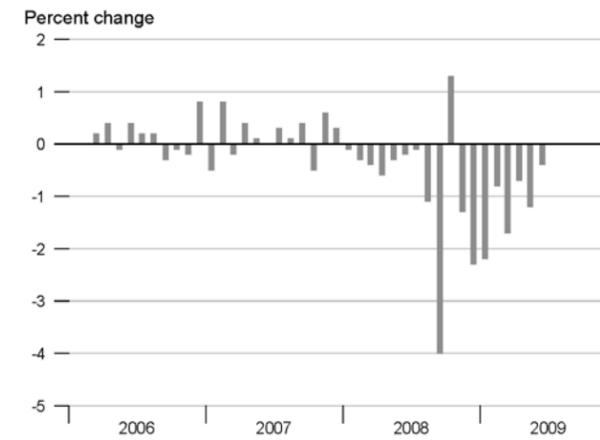
Real GDP Growth



Consumer Price Index



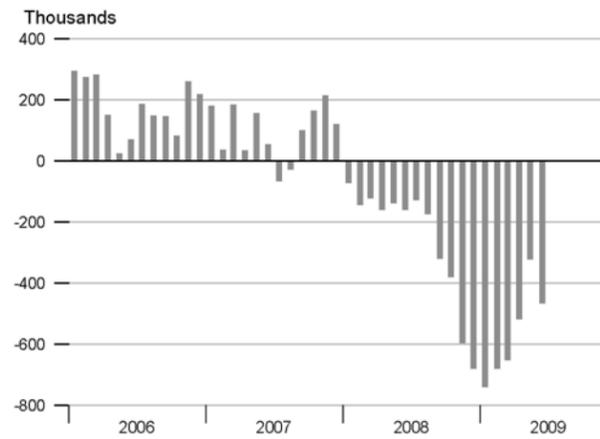
Industrial Production



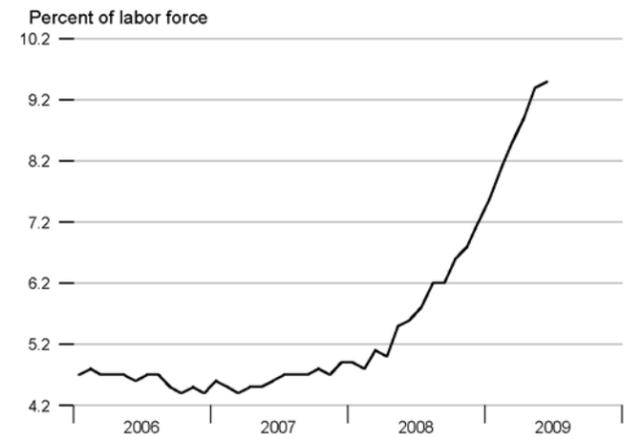
Interest Rates



Change in Nonfarm Payrolls

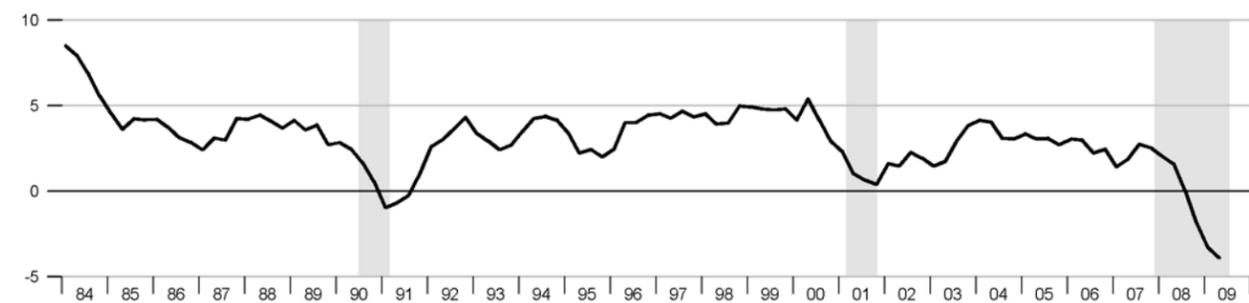


Unemployment Rate



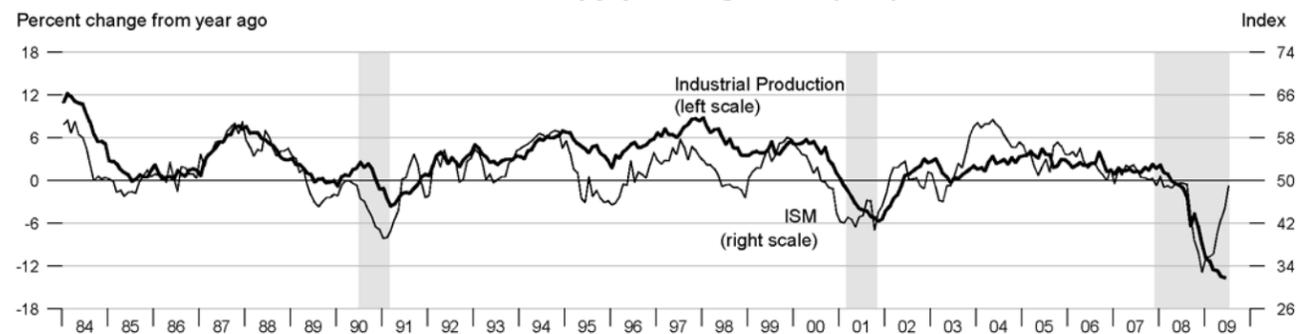
Real Gross Domestic Product

Percent change from year ago



Industrial Production and Institute for Supply Management (ISM) Indexes

Percent change from year ago



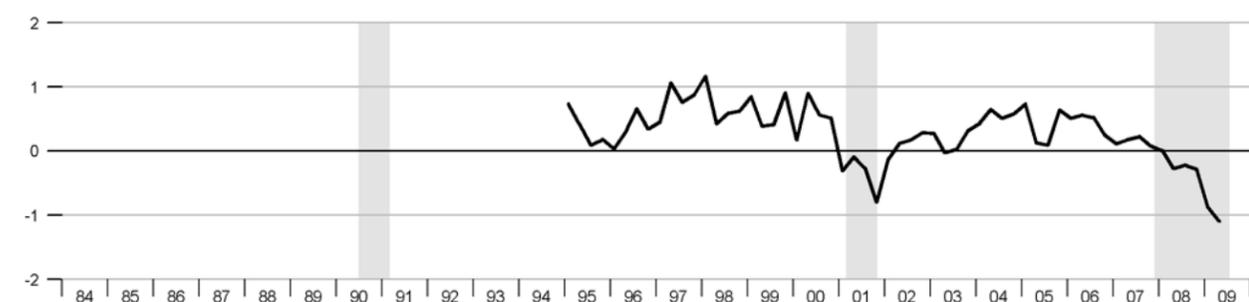
Aggregate Private Nonfarm Hours

Percent change from year ago



Real Change in Private Inventories

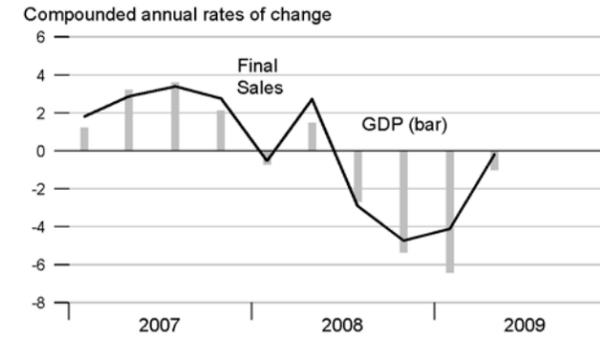
Percent of GDP



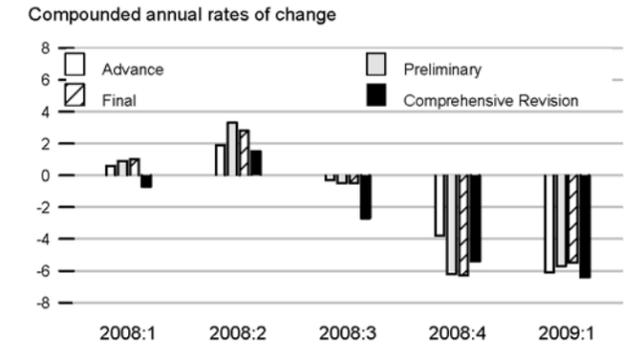
	Unempl. Rate	Retail and Food Services Sales			Industrial Production			Treasury Yields			
		Billions of dollars	Percent change		Index	Percent change		(Percent)			
			Monthly/quarterly	Annual rate	Year ago		Monthly/quarterly	Annual rate	Year ago	3-mo	10-yr
2004	5.5	3833.094			6.1	103.8293			2.5	1.37	4.27
2005	5.1	4078.223			6.4	107.2289			3.3	3.15	4.29
2006	4.6	4294.467			5.3	109.6790			2.3	4.73	4.79
2007	4.6	4435.842			3.3	111.3193			1.5	4.35	4.63
2008	5.8	4404.659			-0.7	108.8185			-2.2	1.37	3.67
2007	1	1095.943	1.3	5.2	2.6	110.4694	0.5	1.8	1.3	4.98	4.68
	2	1101.816	0.5	2.2	3.0	111.1307	0.6	2.4	1.4	4.74	4.85
	3	1108.003	0.6	2.3	3.1	111.7206	0.5	2.1	1.4	4.30	4.73
	4	1130.080	2.0	8.2	4.4	111.9566	0.2	0.8	1.8	3.39	4.26
2008	1	1124.247	-0.5	-2.0	2.6	112.0106	0.0	0.2	1.4	2.04	3.66
	2	1128.585	0.4	1.6	2.4	110.7109	-1.2	-4.6	-0.4	1.63	3.89
	3	1112.645	-1.4	-5.5	0.4	108.1232	-2.3	-9.0	-3.2	1.49	3.86
	4	1039.182	-6.6	-23.9	-8.0	104.4294	-3.4	-13.0	-6.7	0.30	3.25
2009	1	1024.683	-1.4	-5.5	-8.9	99.0433	-5.2	-19.1	-11.6	0.21	2.74
	2	1020.414	-0.4	-1.7	-9.6	96.0396	-3.0	-11.6	-13.3	0.17	3.31
2007	Jul	367.715	0.4	5.3	2.6	111.5406	0.3	3.8	1.3	4.82	5.00
	Aug	368.282	0.2	1.9	2.6	111.6142	0.1	0.8	1.2	4.20	4.67
	Sep	372.006	1.0	12.8	4.2	112.0071	0.4	4.3	1.8	3.89	4.52
	Oct	373.893	0.5	6.3	4.5	111.4196	-0.5	-6.1	1.5	3.90	4.53
	Nov	379.767	1.6	20.6	5.6	112.0541	0.6	7.1	2.3	3.27	4.15
	Dec	376.420	-0.9	-10.1	3.3	112.3962	0.3	3.7	1.7	3.00	4.10
2008	Jan	376.262	-0.0	-0.5	3.6	112.3389	-0.1	-0.6	2.2	2.75	3.74
	Feb	373.140	-0.8	-9.5	2.4	112.0435	-0.3	-3.1	1.1	2.12	3.74
	Mar	374.845	0.5	5.6	1.8	111.6495	-0.4	-4.1	0.9	1.26	3.51
	Apr	376.009	0.3	3.8	2.8	111.0012	-0.6	-6.7	-0.0	1.29	3.68
	May	376.662	0.2	2.1	1.8	110.6820	-0.3	-3.4	-0.4	1.73	3.88
	Jun	375.914	-0.2	-2.4	2.7	110.4494	-0.2	-2.5	-0.7	1.86	4.10
	Jul	373.898	-0.5	-6.2	1.7	110.3760	-0.1	-0.8	-1.0	1.63	4.01
	Aug	372.192	-0.5	-5.3	1.1	109.1570	-1.1	-12.5	-2.2	1.72	3.89
	Sep	366.555	-1.5	-16.7	-1.5	104.8367	-4.0	-38.4	-6.4	1.13	3.69
	Oct	355.037	-3.1	-31.8	-5.0	106.1626	1.3	16.3	-4.7	0.67	3.81
	Nov	347.707	-2.1	-22.1	-8.4	104.7607	-1.3	-14.7	-6.5	0.19	3.53
	Dec	336.438	-3.2	-32.7	-10.6	102.3650	-2.3	-24.2	-8.9	0.03	2.42
2009	Jan	342.017	1.7	21.8	-9.1	100.1154	-2.2	-23.4	-10.9	0.13	2.52
	Feb	343.438	0.4	5.1	-8.0	99.3593	-0.8	-8.7	-11.3	0.30	2.87
	Mar	339.228	-1.2	-13.8	-9.5	97.6552	-1.7	-18.7	-12.5	0.21	2.82
	Apr	338.344	-0.3	-3.1	-10.0	96.9476	-0.7	-8.4	-12.7	0.16	2.93
	May	339.932	0.5	5.8	-9.8	95.7749	-1.2	-13.6	-13.5	0.18	3.29
	Jun	342.138	0.6	8.1	-9.0	95.3964	-0.4	-4.6	-13.6	0.18	3.72
	Jul									0.18	3.56

	Household Survey Employment				Nonfarm Payroll Employment				Nonfarm Aggregate Hours			
	Thousands	Change	Percent change		Thousands	Change	Percent change		Index	Monthly rate	Percent change	
			Annual rate	Year ago			Annual rate	Year ago			Annual rate	Year ago
2004	139240	1511		1.1	131419	1423		1.1	100.2			1.6
2005	141714	2474		1.8	133699	2280		1.7	102.7			2.6
2006	144420	2707		1.9	136098	2398		1.8	105.8			3.0
2007	146050	1629		1.1	137604	1507		1.1	107.3			1.4
2008	145368	-681		-0.5	137046	-558		-0.4	106.2			-1.0
2007	1	146081	459	1.3	137265	498	1.5	1.4	106.8	0.2	0.8	1.8
	2	145873	-208	-0.6	137557	292	0.9	1.2	107.3	0.4	1.8	1.5
	3	145969	96	0.3	137595	38	0.1	1.0	107.3	0.0	0.0	1.3
	4	146275	306	0.8	138000	406	1.2	0.9	107.7	0.4	1.5	1.0
2008	1	146138	-137	-0.4	137943	-57	-0.2	0.5	107.5	-0.1	-0.5	0.7
	2	145990	-149	-0.4	137509	-434	-1.3	-0.0	106.9	-0.6	-2.3	-0.3
	3	145299	-690	-1.9	137004	-505	-1.5	-0.4	106.1	-0.7	-2.8	-1.1
	4	144046	-1253	-3.4	135727	-1277	-3.7	-1.6	104.1	-1.9	-7.4	-3.3
2009	1	141578	-2468	-6.7	133662	-2065	-5.9	-3.1	101.7	-2.3	-8.9	-5.4
	2	140591	-987	-2.8	132111	-1551	-4.6	-3.9	99.6	-2.0	-7.9	-6.8
2007	Jun	146057	142	1.2	137645	54	0.5	1.2	107.5	0.1	1.1	1.6
	Jul	145972	-85	-0.7	137580	-65	-0.6	1.1	107.3	-0.2	-2.2	1.3
	Aug	145732	-240	-2.0	137552	-28	-0.2	0.9	107.2	-0.1	-1.1	1.0
	Sep	146203	471	3.9	137652	100	0.9	0.9	107.3	0.1	1.1	1.4
	Oct	145867	-336	-2.7	137817	165	1.4	1.0	107.5	0.2	2.3	1.2
	Nov	146665	798	6.8	138032	215	1.9	0.9	107.7	0.2	2.3	1.1
Dec	146294	-371	-3.0	138152	120	1.0	0.8	107.8	0.1	1.1	0.7	
2008	Jan	146317	23	0.2	138080	-72	-0.6	0.7	107.5	-0.3	-3.3	0.8
	Feb	146075	-242	-2.0	137936	-144	-1.2	0.5	107.6	0.1	1.1	0.9
	Mar	146023	-52	-0.4	137814	-122	-1.1	0.3	107.5	-0.1	-1.1	0.3
	Apr	146257	234	1.9	137654	-160	-1.4	0.2	107.4	-0.1	-1.1	0.5
	May	145974	-283	-2.3	137517	-137	-1.2	-0.1	106.9	-0.5	-5.4	-0.5
	Jun	145738	-236	-1.9	137356	-161	-1.4	-0.2	106.4	-0.5	-5.5	-1.0
	Jul	145596	-142	-1.2	137228	-128	-1.1	-0.3	106.2	-0.2	-2.2	-1.0
	Aug	145273	-323	-2.6	137053	-175	-1.5	-0.4	106.4	0.2	2.3	-0.7
	Sep	145029	-244	-2.0	136732	-321	-2.8	-0.7	105.8	-0.6	-6.6	-1.4
	Oct	144657	-372	-3.0	136352	-380	-3.3	-1.1	105.0	-0.8	-8.7	-2.3
	Nov	144144	-513	-4.2	135755	-597	-5.1	-1.6	104.1	-0.9	-9.8	-3.3
	Dec	143338	-806	-6.5	135074	-681	-5.9	-2.2	103.2	-0.9	-9.9	-4.3
2009	Jan	142099	-1239	-9.9	134333	-741	-6.4	-2.7	102.5	-0.7	-7.8	-4.7
	Feb	141748	-351	-2.9	133652	-681	-5.9	-3.1	101.9	-0.6	-6.8	-5.3
	Mar	140887	-861	-7.1	133000	-652	-5.7	-3.5	100.7	-1.2	-13.3	-6.3
	Apr	141007	120	1.0	132481	-519	-4.6	-3.8	100.1	-0.6	-6.9	-6.8
	May	140570	-437	-3.7	132159	-322	-2.9	-3.9	99.8	-0.3	-3.5	-6.6
	Jun	140196	-374	-3.1	131692	-467	-4.2	-4.1	99.0	-0.8	-9.2	-7.0

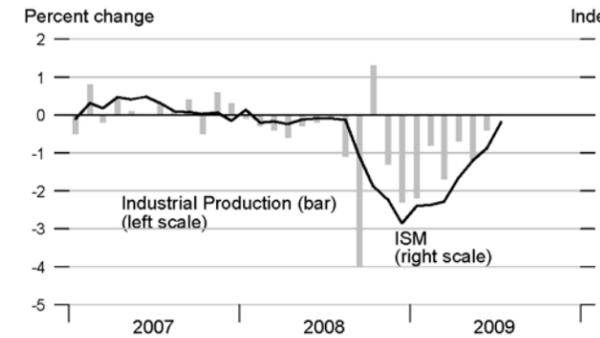
Real Final Sales and GDP



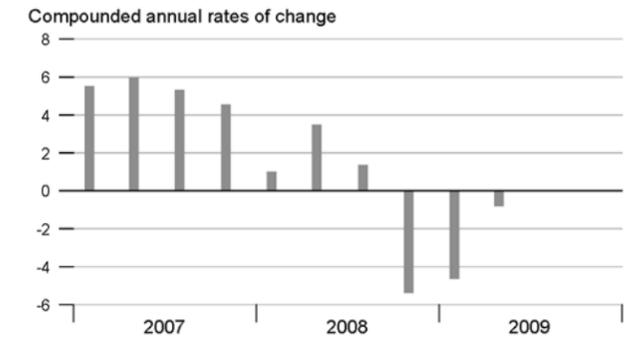
Real GDP Revisions



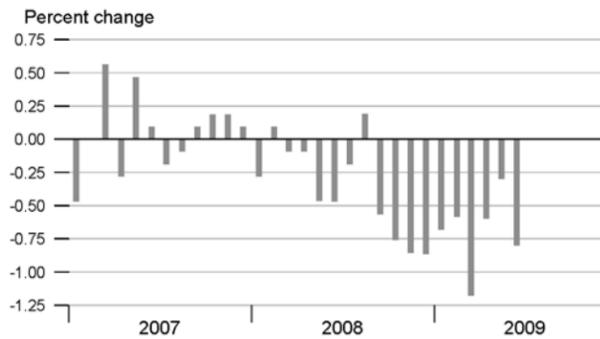
Industrial Production and ISM Index



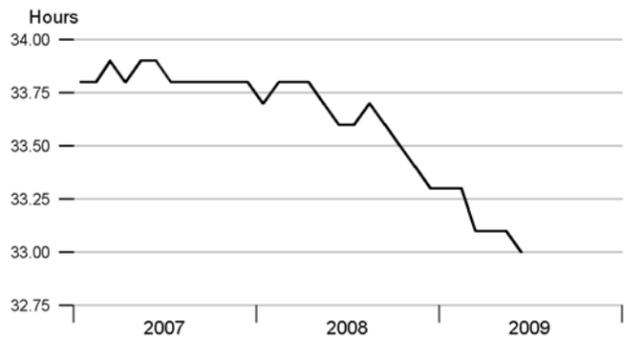
Nominal Gross Domestic Product



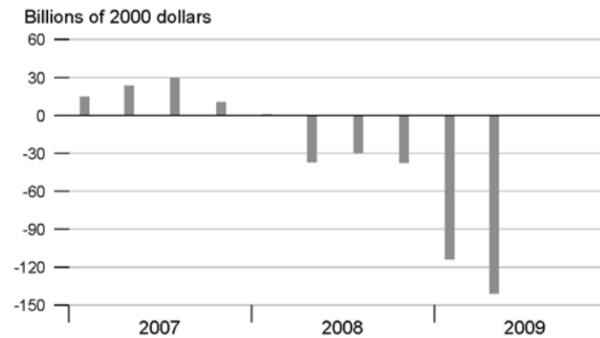
Aggregate Private Nonfarm Hours



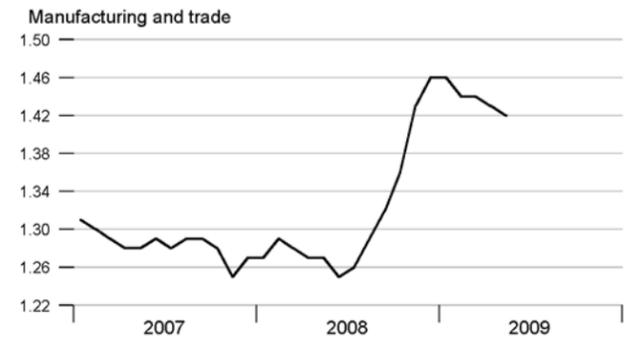
Average Weekly Private Nonfarm Hours



Real Change in Private Inventories

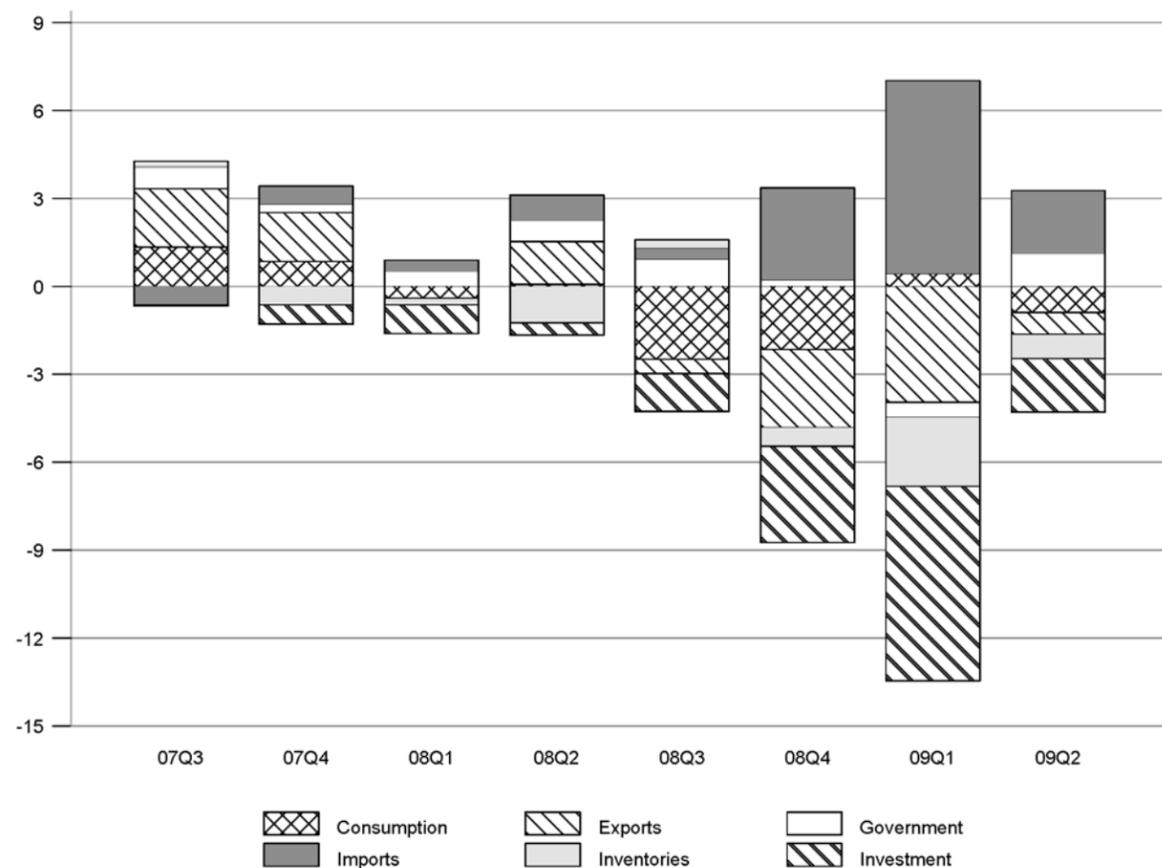


Inventory-Sales Ratio



Contribution of Components to Real GDP Growth

Percentage points at compounded annual rates



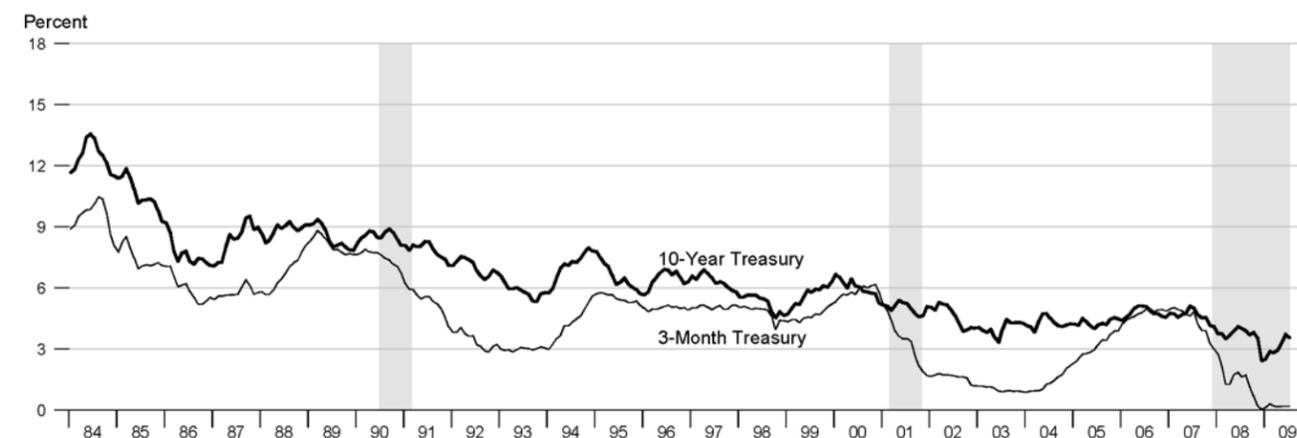
Contributions to Real GDP Growth Rate

	2007		2008				2009	
	3rd	4th	1st	2nd	3rd	4th	1st	2nd
Final Sales	3.40	2.75	-0.51	2.71	-2.94	-4.73	-4.07	-0.19
Consumption	1.35	0.86	-0.39	0.06	-2.49	-2.15	0.44	-0.88
Fixed Investment	-0.04	-0.66	-0.99	-0.41	-1.30	-3.28	-6.62	-1.82
Nonresidential	1.10	0.78	0.25	0.19	-0.73	-2.47	-5.29	-0.94
Residential	-1.14	-1.44	-1.24	-0.60	-0.57	-0.81	-1.33	-0.88
Government	0.75	0.31	0.51	0.71	0.95	0.24	-0.52	1.12
Federal	0.63	0.19	0.56	0.55	0.93	0.49	-0.33	0.82
State and Local	0.11	0.12	-0.05	0.15	0.01	-0.25	-0.19	0.30
Net Exports	1.36	2.24	0.36	2.35	-0.10	0.45	2.64	1.38
Exports	1.99	1.65	-0.02	1.47	-0.48	-2.67	-3.95	-0.76
Imports	-0.63	0.60	0.38	0.88	0.38	3.12	6.58	2.14
Change in Inventory	0.19	-0.63	-0.21	-1.25	0.26	-0.64	-2.36	-0.83
Residual	-0.01	-0.01	0.12	0.06	0.07	-0.22	0.02	0.04
Real GDP Growth	3.59	2.12	-0.72	1.46	-2.68	-5.37	-6.43	-1.02

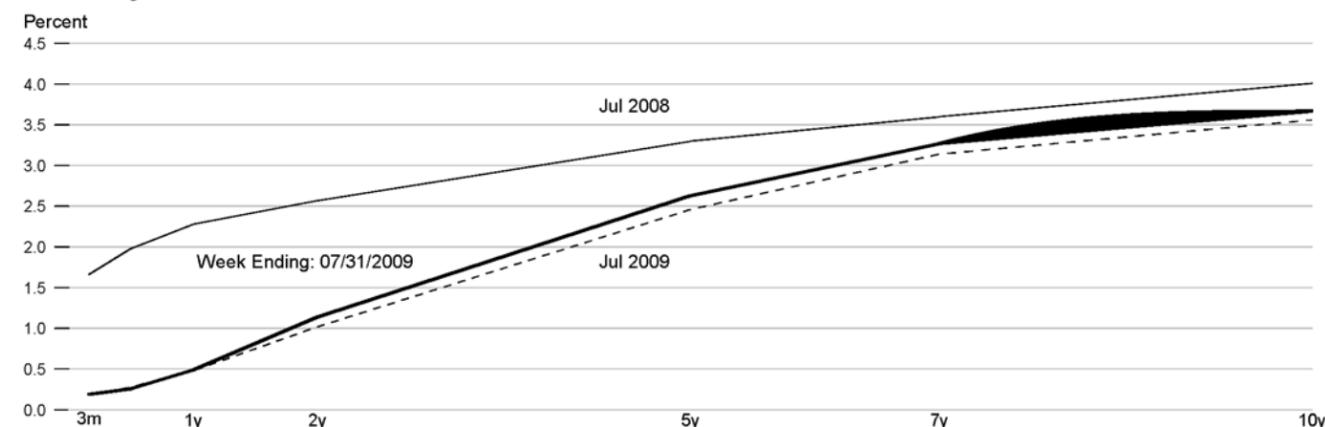
	Index	GDP Chain Price Index Percent change		Index	Employment Cost Index Percent change		ECI: Wages Percent change			ECI: Benefits Percent change		
		Annual rate	Year ago		Annual rate	Year ago	Index	Annual rate	Year ago	Index	Annual rate	Year ago
2005	100.000		3.3	99.2		3.1	99.2		2.5	99.2		4.6
2006	103.263		3.3	102.1		2.9	102.1		2.9	102.1		2.9
2007	106.221		2.9	105.2		3.1	105.5		3.4	104.5		2.4
2008	108.481		2.1	108.2		2.8	108.7		3.0	107.2		2.6
2006 1	102.071	3.0	3.3	100.8	2.4	2.6	100.8	2.8	2.5	100.8	2.0	2.9
2006 2	102.980	3.6	3.6	101.6	3.2	2.8	101.6	3.2	2.8	101.6	3.2	2.8
2006 3	103.763	3.1	3.3	102.5	3.6	3.0	102.5	3.6	3.1	102.5	3.6	2.8
2006 4	104.237	1.8	2.9	103.3	3.2	3.1	103.3	3.2	3.2	103.4	3.6	3.1
2007 1	105.327	4.2	3.2	104.0	2.7	3.2	104.3	3.9	3.5	103.1	-1.2	2.3
2007 2	106.026	2.7	3.0	104.8	3.1	3.1	105.0	2.7	3.3	104.2	4.3	2.6
2007 3	106.460	1.6	2.6	105.6	3.1	3.0	105.9	3.5	3.3	104.9	2.7	2.3
2007 4	107.072	2.3	2.7	106.5	3.5	3.1	106.7	3.1	3.3	105.9	3.9	2.4
2008 1	107.577	1.9	2.1	107.2	2.7	3.1	107.6	3.4	3.2	106.5	2.3	3.3
2008 2	108.061	1.8	1.9	107.9	2.6	3.0	108.4	3.0	3.2	106.9	1.5	2.6
2008 3	109.130	4.0	2.5	108.6	2.6	2.8	109.1	2.6	3.0	107.5	2.3	2.5
2008 4	109.155	0.1	1.9	109.1	1.9	2.4	109.6	1.8	2.7	107.9	1.5	1.9
2009 1	109.661	1.9	1.9	109.3	0.7	2.0	109.8	0.7	2.0	108.1	0.7	1.5
2009 2	109.726	0.2	1.5	109.5	0.7	1.5	110.0	0.7	1.5	108.3	0.7	1.3
	Exports			Imports			Nonfarm Output per Hour			Nonfarm Compensation per Hour		
	Billions of 2000 \$	Annual rate	Year ago	Billions of 2000 \$	Annual rate	Year ago	Index	Annual rate	Year ago	Index	Annual rate	Year ago
2005	1305.057		6.7	2027.790		6.1	133.862		1.7	162.132		4.0
2006	1422.020		9.0	2151.204		6.1	135.123		0.9	168.293		3.8
2007	1546.124		8.7	2193.827		2.0	137.049		1.4	175.248		4.1
2008	1629.262		5.4	2123.523		-3.2	140.897		2.8	181.704		3.7
2006 1	1388.773	16.5	8.8	2121.325	7.8	6.5	134.832	1.9	1.3	166.506	4.5	4.2
2006 2	1412.067	6.9	8.3	2144.880	4.5	6.6	135.642	2.4	1.7	167.026	1.3	3.9
2006 3	1414.069	0.6	8.5	2170.548	4.9	7.2	135.086	-1.6	0.3	167.961	2.3	2.9
2006 4	1473.171	17.8	10.2	2168.061	-0.5	4.1	134.938	-0.4	0.6	171.651	9.1	4.2
2007 1	1485.881	3.5	7.0	2190.837	4.3	3.3	134.731	-0.6	-0.1	173.407	4.2	4.1
2007 2	1504.758	5.2	6.6	2188.125	-0.5	2.0	136.326	4.8	0.5	173.973	1.3	4.2
2007 3	1569.896	18.5	11.0	2208.336	3.7	1.7	138.665	7.0	2.6	175.845	4.4	4.7
2007 4	1623.961	14.5	10.2	2188.007	-3.6	0.9	138.482	-0.5	2.6	177.765	4.4	3.6
2008 1	1623.423	-0.1	9.3	2174.293	-2.5	-0.8	139.385	2.6	3.5	179.396	3.7	3.5
2008 2	1670.431	12.1	11.0	2146.478	-5.0	-1.9	140.980	4.7	3.4	180.150	1.7	3.6
2008 3	1655.183	-3.6	5.4	2134.428	-2.2	-3.3	141.732	2.2	2.2	182.680	5.7	3.9
2008 4	1568.010	-19.5	-3.4	2038.891	-16.7	-6.8	141.533	-0.6	2.2	184.704	4.5	3.9
2009 1	1434.549	-29.9	-11.6	1821.043	-36.4	-16.2	142.079	1.6	1.9	186.797	4.6	4.1
2009 2	1408.859	-7.0	-15.7	1748.155	-15.1	-18.6						

	Nominal GDP			Real GDP			Final Sales			Change in Private Inventories		
	Billions of \$	Percent change		Billions of 2000 \$	Percent change		Billions of 2000 \$	Percent change		Billions of 2000 \$		
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago	Last qtr	Year/Year ago	
2005	12638.4		6.5	12638.375		3.1	12588.423		3.2		49.953	
2006	13398.9		6.0	12976.249		2.7	12917.095		2.6		59.423	
2007	14077.6		5.1	13254.059		2.1	13234.346		2.5		19.469	
2008	14441.4		2.6	13312.163		0.4	13341.170		0.8		-25.889	
2006 1	13183.5	8.6	6.5	12915.938	5.4	3.0	12851.310	5.9	3.3	65.813	43.548	
2	13347.8	5.1	6.6	12962.462	1.4	3.0	12890.967	1.2	2.5	72.544	57.799	
3	13452.9	3.2	5.6	12965.916	0.1	2.2	12898.340	0.2	1.8	67.510	71.724	
4	13611.5	4.8	5.4	13060.679	3.0	2.4	13027.762	4.1	2.8	31.825	59.423	
2007 1	13795.6	5.5	4.6	13099.901	1.2	1.4	13086.383	1.8	1.8	14.463	46.586	
2	13997.2	6.0	4.9	13203.977	3.2	1.9	13179.586	2.9	2.2	23.297	34.274	
3	14179.9	5.3	5.4	13321.109	3.6	2.7	13290.306	3.4	3.0	29.797	24.846	
4	14337.9	4.5	5.3	13391.249	2.1	2.5	13381.108	2.8	2.7	10.321	19.470	
2008 1	14373.9	1.0	4.2	13366.865	-0.7	2.0	13363.488	-0.5	2.1	0.619	16.009	
2	14497.8	3.5	3.6	13415.266	1.5	1.6	13453.465	2.7	2.1	-37.091	0.912	
3	14546.7	1.4	2.6	13324.600	-2.7	0.0	13354.251	-2.9	0.5	-29.706	-13.964	
4	14347.3	-5.4	0.1	13141.920	-5.4	-1.9	13193.476	-4.7	-1.4	-37.380	-25.890	
2009 1	14178.0	-4.6	-1.4	12925.410	-6.4	-3.3	13055.782	-4.1	-2.3	-113.893	-54.518	
2	14149.8	-0.8	-2.4	12892.393	-1.0	-3.9	13049.453	-0.2	-3.0	-141.116	-80.524	
	Consumption			Durables Consumption			Private Fixed Investment			Nonresidential Fixed Investment		
	Billions of 2000 \$	Percent change		Billions of 2000 \$	Percent change		Billions of 2000 \$	Percent change		Billions of 2000 \$	Percent change	
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago
2005	8818.999		3.4	1105.493		5.2	2122.275		6.5	1347.325		6.7
2006	9073.500		2.9	1150.416		4.1	2171.281		2.3	1453.944		7.9
2007	9313.943		2.6	1199.936		4.3	2126.279		-2.1	1544.262		6.2
2008	9290.883		-0.2	1146.310		-4.5	2018.406		-5.1	1569.657		1.6
2006 1	8986.625	4.5	3.1	1142.277	17.0	5.4	2200.168	9.5	5.8	1424.916	18.0	7.8
2	9035.047	2.2	2.6	1139.363	-1.0	2.3	2189.898	-1.9	3.5	1450.307	7.3	8.2
3	9090.711	2.5	2.5	1152.103	4.5	2.3	2162.182	-5.0	0.9	1466.035	4.4	7.8
4	9181.617	4.1	3.3	1167.921	5.6	6.3	2132.875	-5.3	-0.8	1474.517	2.3	7.8
2007 1	9265.135	3.7	3.1	1183.693	5.5	3.6	2118.841	-2.6	-3.7	1489.617	4.2	4.5
2	9291.499	1.1	2.8	1189.884	2.1	4.4	2137.687	3.6	-2.4	1530.277	11.4	5.5
3	9335.583	1.9	2.7	1204.996	5.2	4.6	2135.557	-0.4	-1.2	1565.843	9.6	6.8
4	9363.555	1.2	2.0	1221.172	5.5	4.6	2113.032	-4.2	-0.9	1591.313	6.7	7.9
2008 1	9349.565	-0.6	0.9	1193.169	-8.9	0.8	2079.181	-6.3	-1.9	1598.923	1.9	7.3
2	9350.972	0.1	0.6	1175.732	-5.7	-1.2	2064.783	-2.7	-3.4	1604.432	1.4	4.8
3	9267.708	-3.5	-0.7	1139.580	-11.7	-5.4	2020.376	-8.3	-5.4	1579.202	-6.1	0.9
4	9195.287	-3.1	-1.8	1076.759	-20.3	-11.8	1909.282	-20.2	-9.6	1496.070	-19.5	-6.0
2009 1	9209.213	0.6	-1.5	1087.201	3.9	-8.9	1687.499	-39.0	-18.8	1321.199	-39.2	-17.4
2	9180.455	-1.2	-1.8	1067.468	-7.1	-9.2	1627.509	-13.5	-21.2	1290.621	-8.9	-19.6

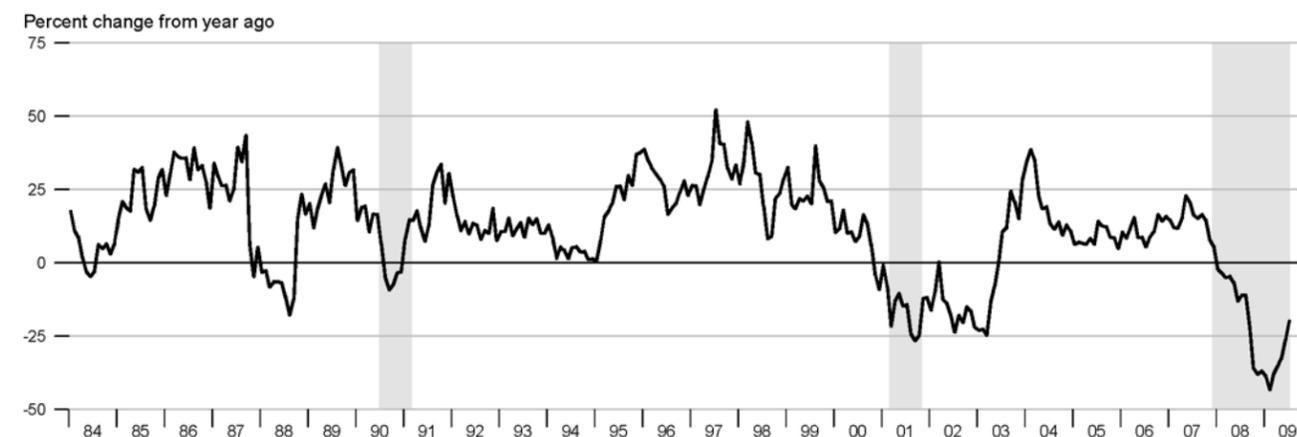
Interest Rates



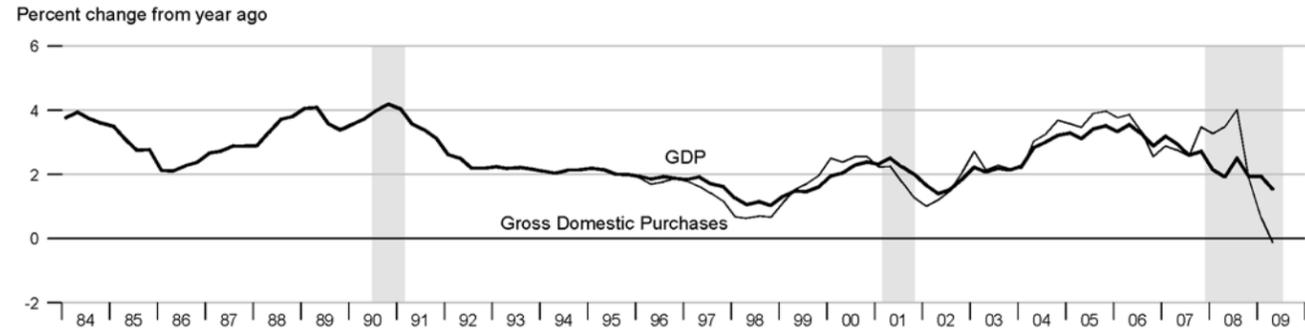
Treasury Yield Curve



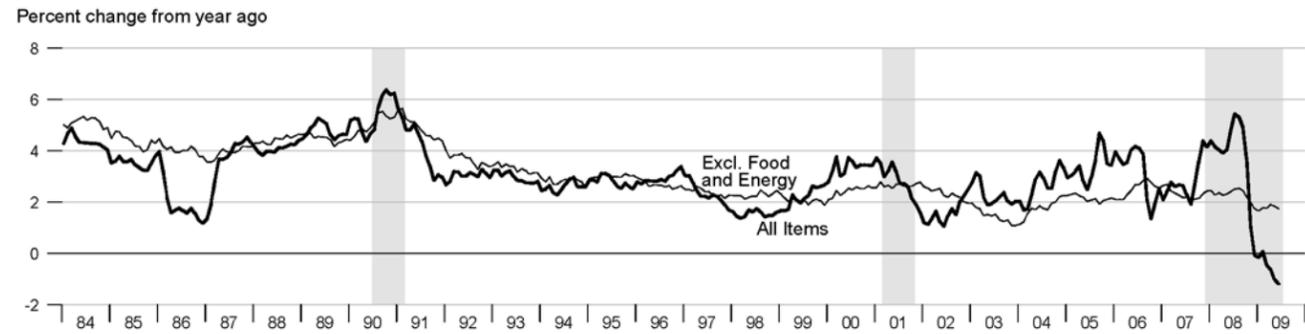
Standard and Poor's 500 Index with Reinvested Dividends



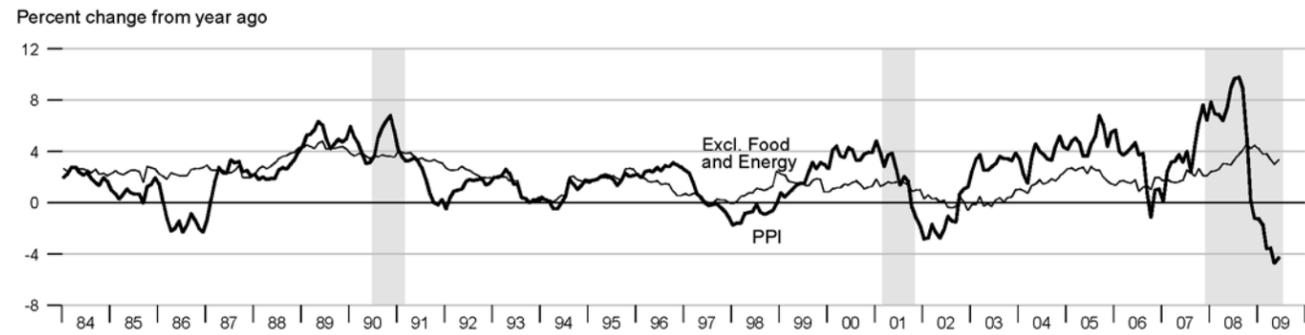
NIPA Chain Price Indexes



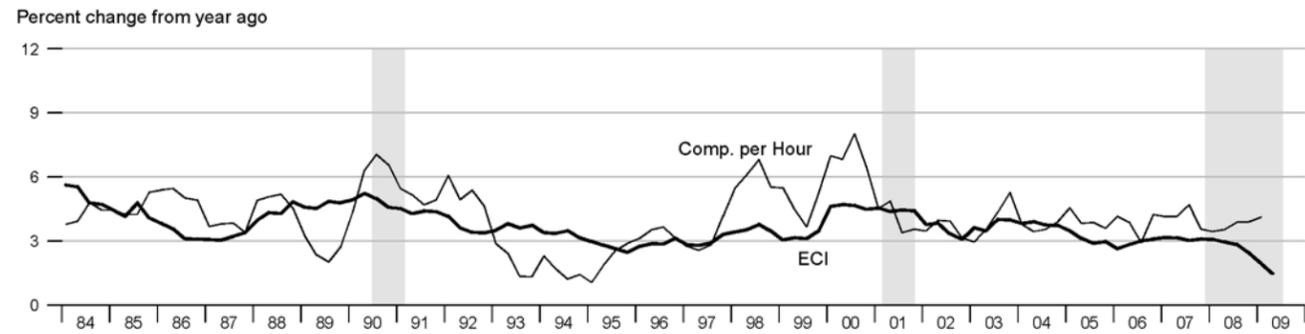
Consumer Price Index



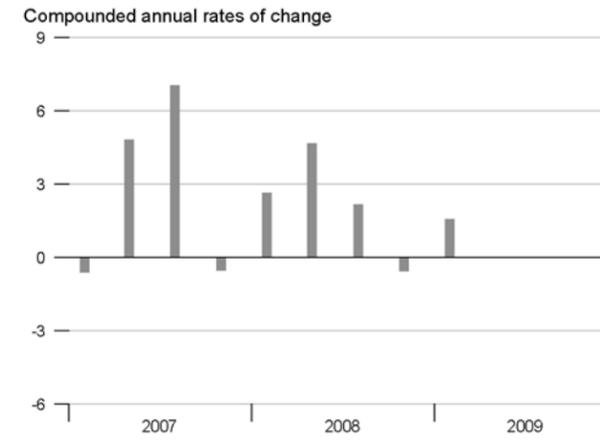
Producer Price Index, Finished Goods



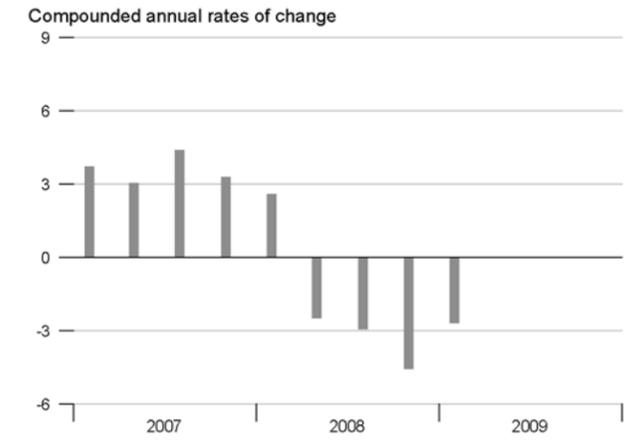
Employment Cost Index and Compensation per Hour



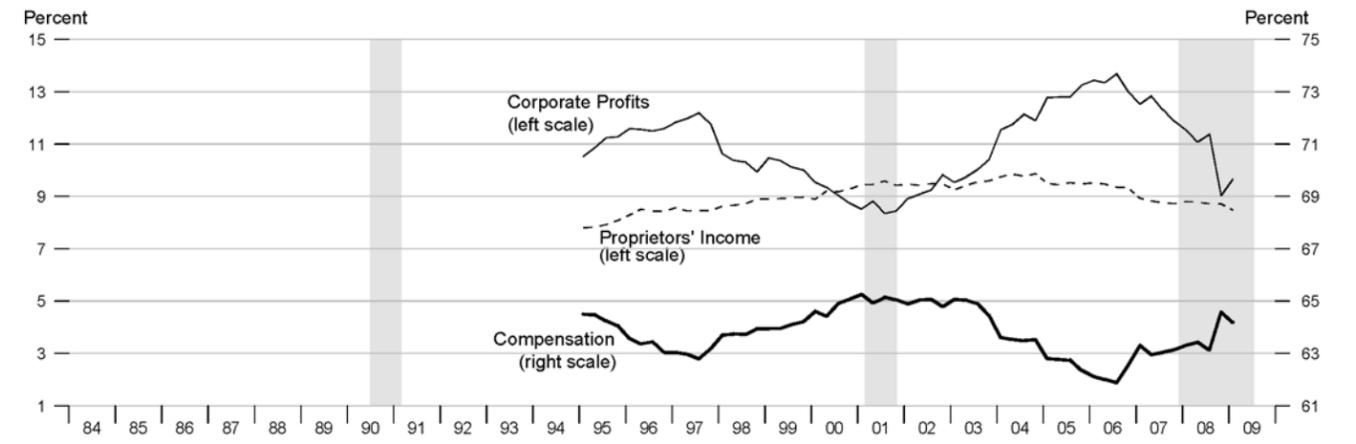
Nonfarm Output per Hour



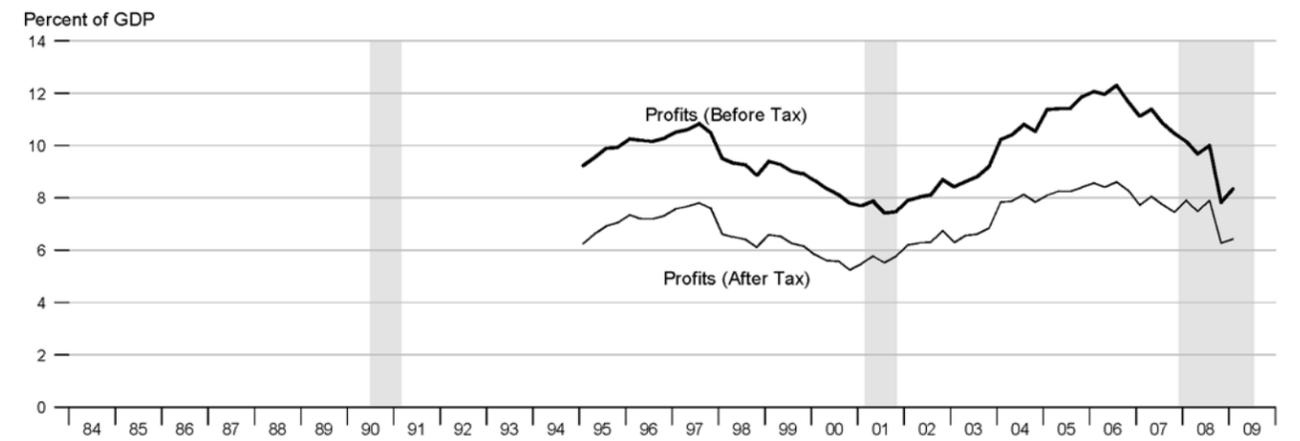
Manufacturing Output per Hour



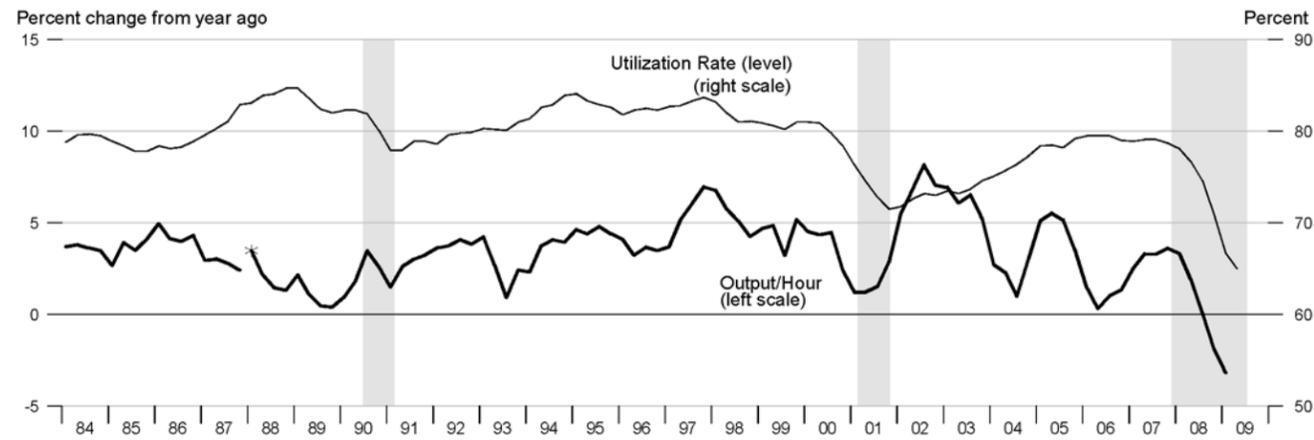
Selected Component Shares of National Income



Corporate Profits

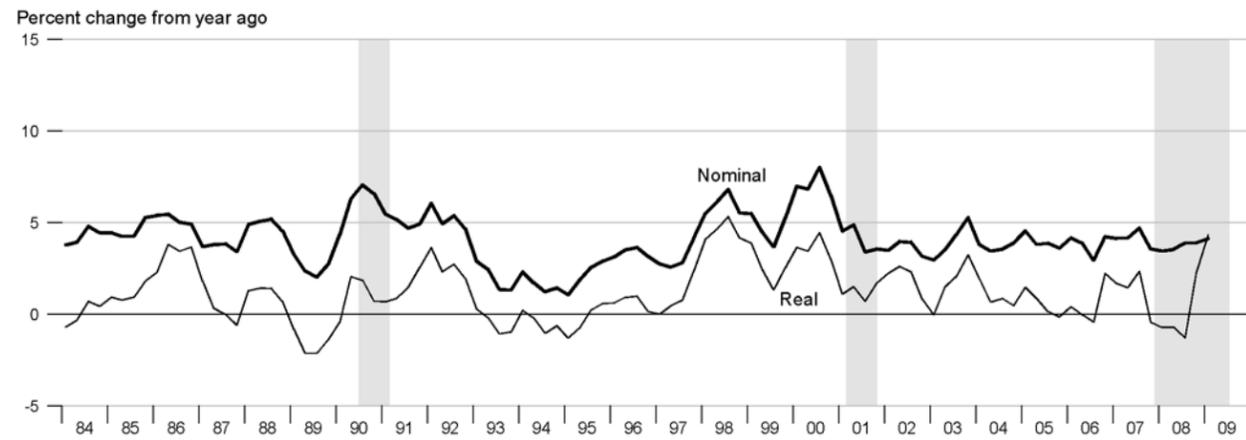


Output per Hour and Capacity Utilization, Manufacturing

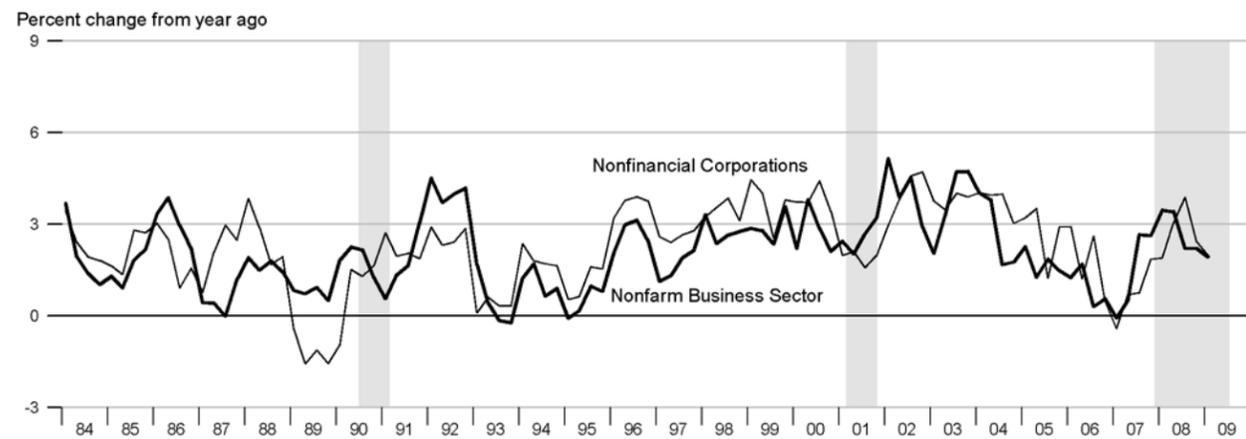


*Data from 1987 to the present are on a NAICS basis; data prior to 1987 are on an SIC basis and are not strictly comparable (see End Note).

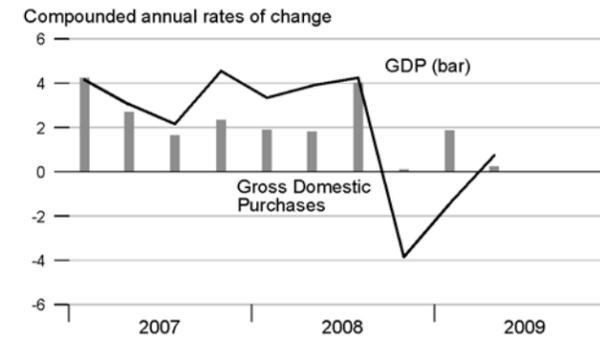
Nonfarm Compensation per Hour



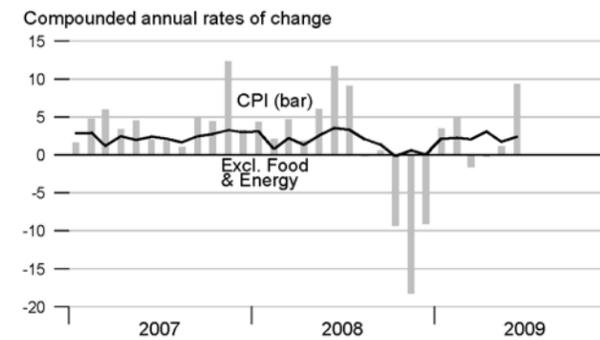
Output per Hour, Nonfarm Business and Nonfinancial Corporations



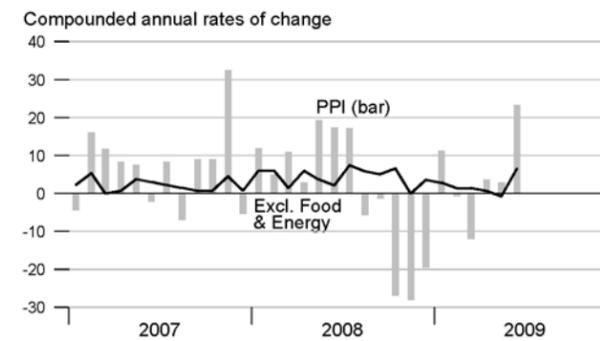
NIPA Chain Price Indexes



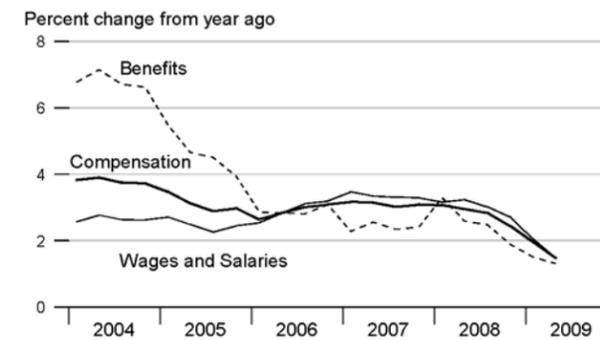
Consumer Price Index



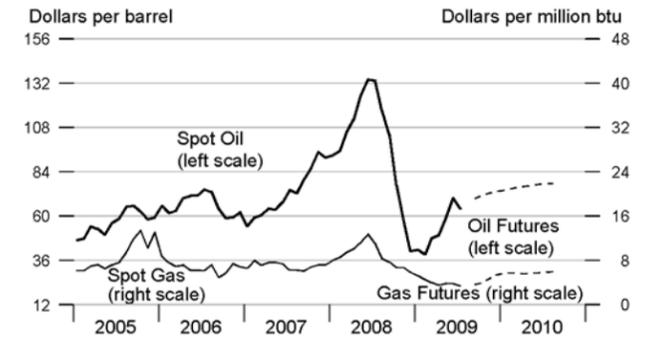
Producer Price Index, Finished Goods



Employment Cost Index

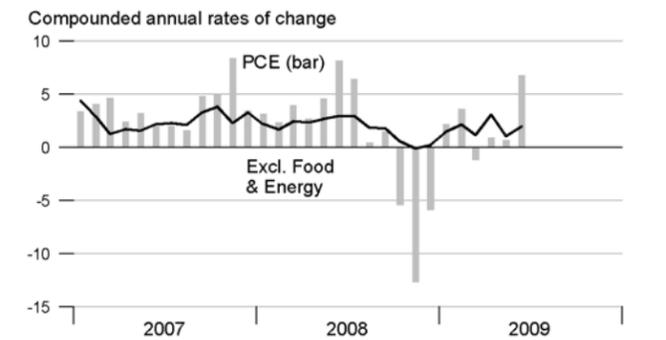


Oil & Natural Gas Prices: Spot & Futures

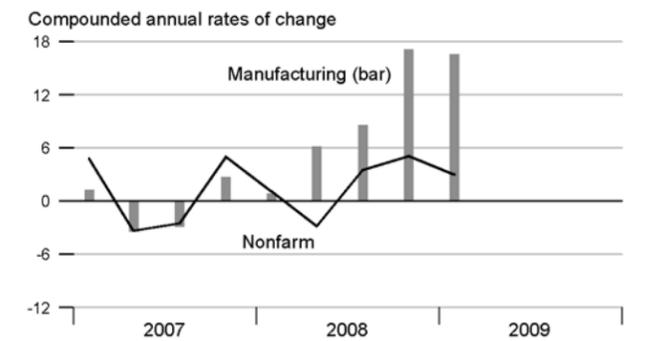


Note: Futures prices as of 7/31/2009.

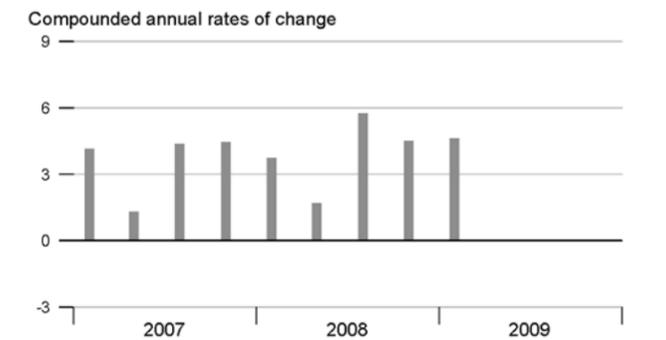
Consumption Chain Price Index



Unit Labor Cost



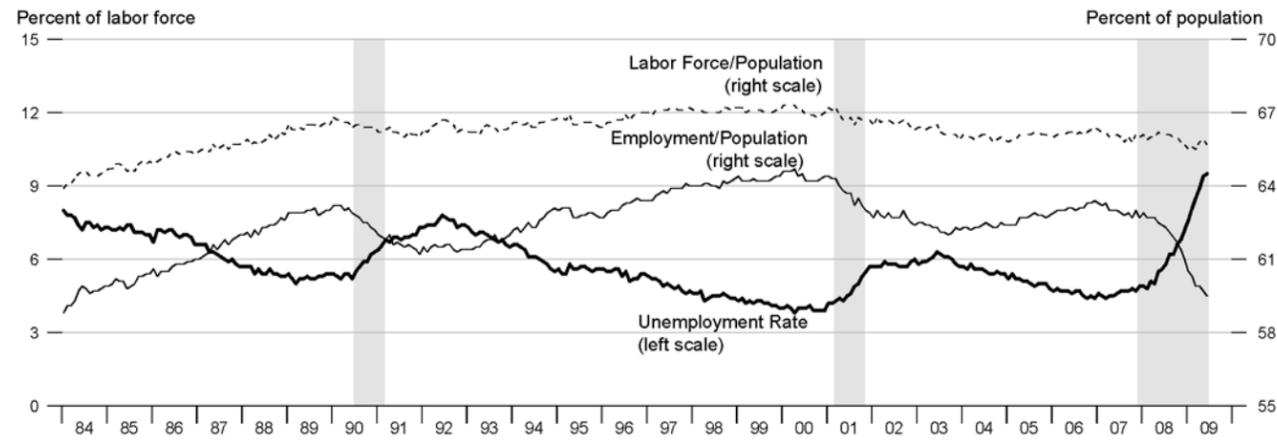
Compensation per Hour



Employment



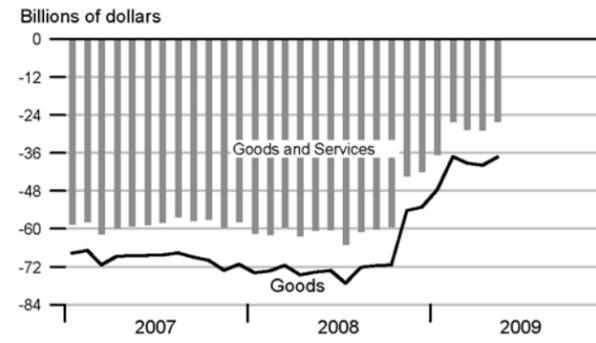
Unemployment, Labor Force Participation, and Employment Rates



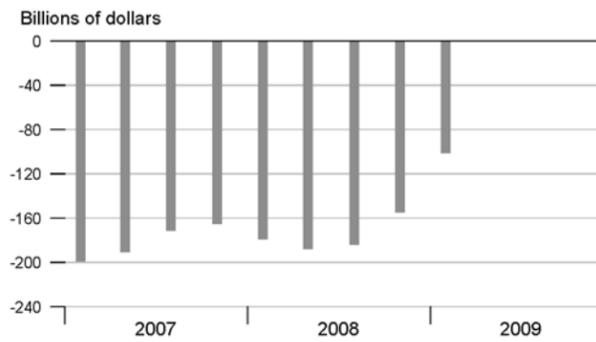
Duration of Unemployment



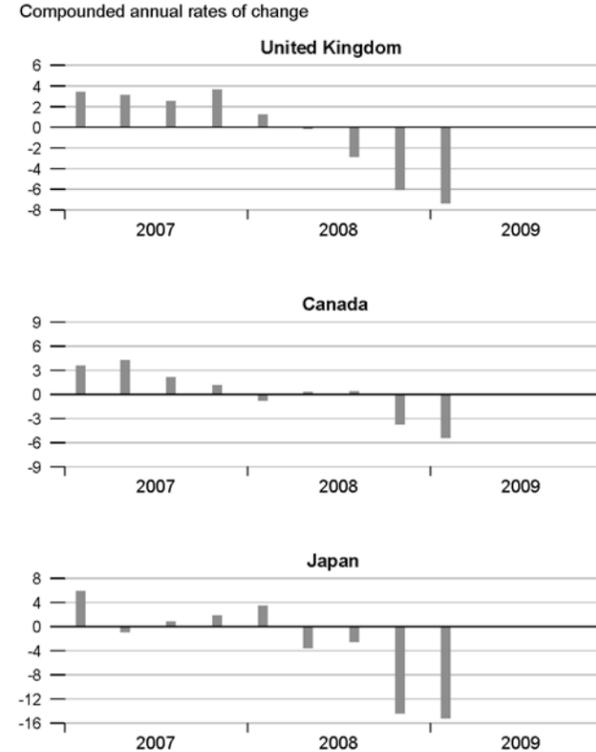
Trade Balance



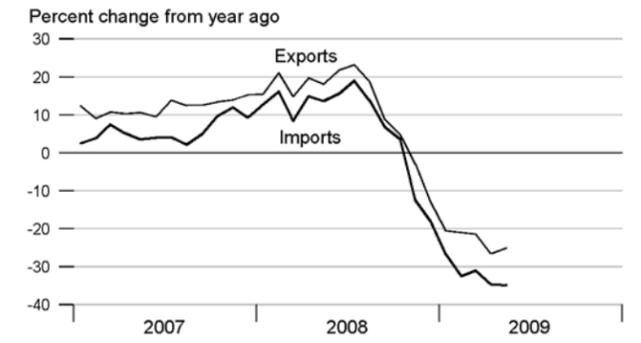
Current Account Balance



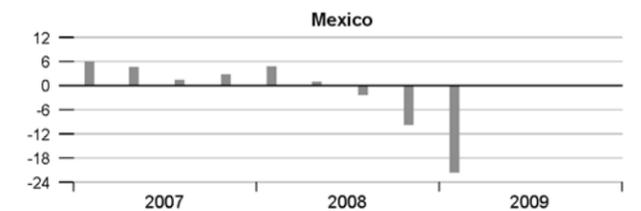
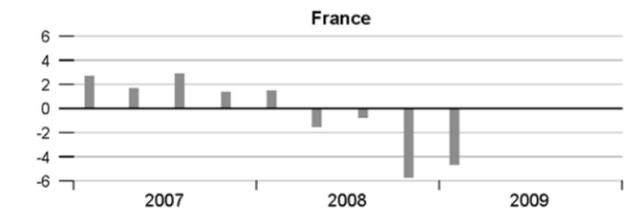
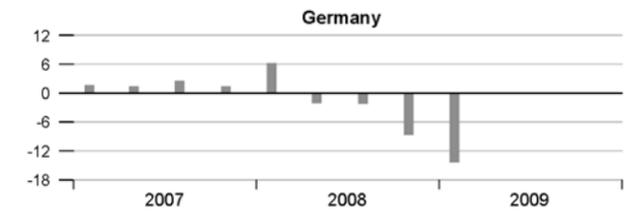
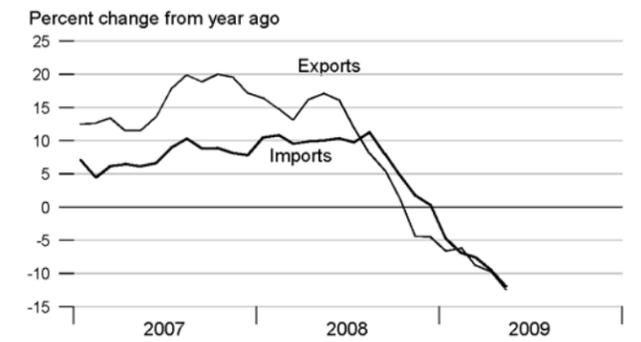
Real GDP Growth of Major Trading Partners



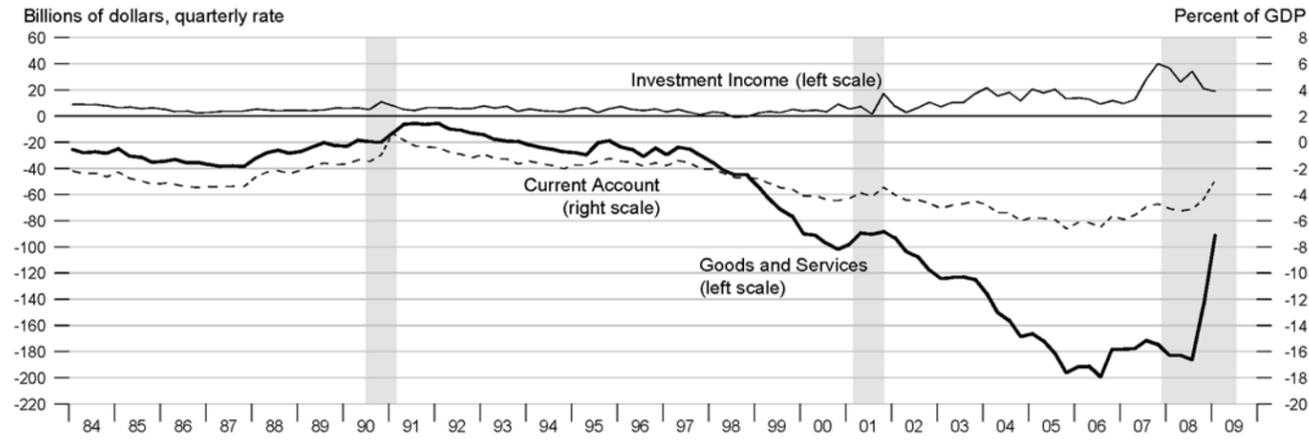
Goods Trade



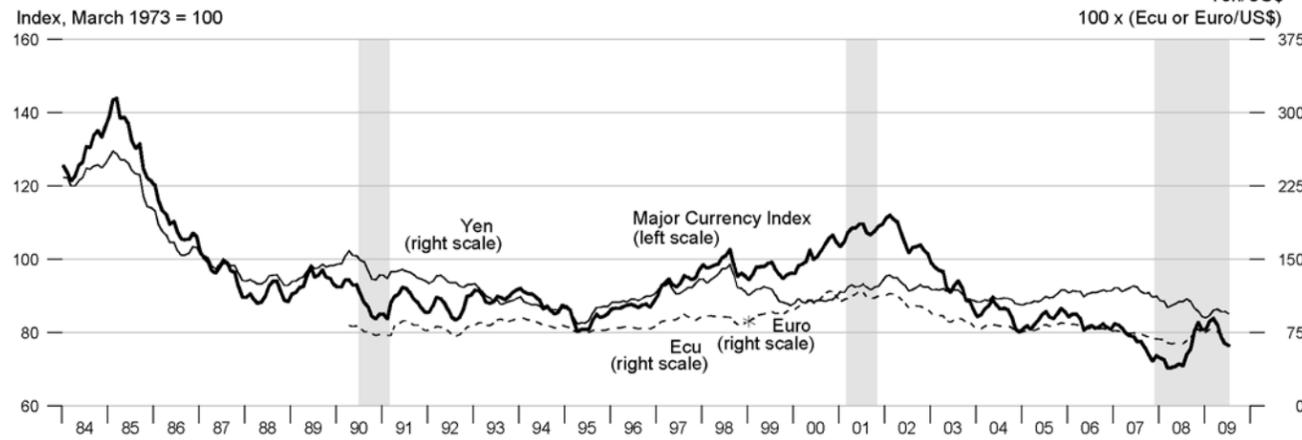
Services Trade



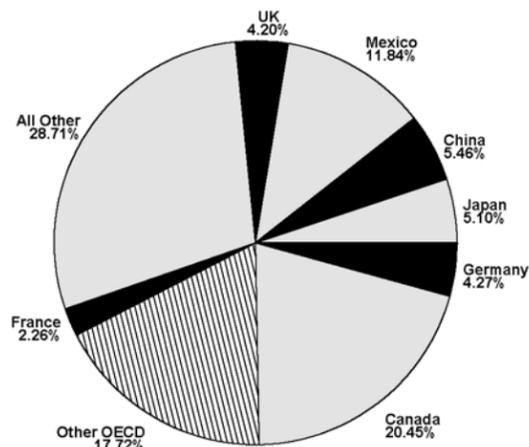
Current Account, Trade and Investment Income Balances



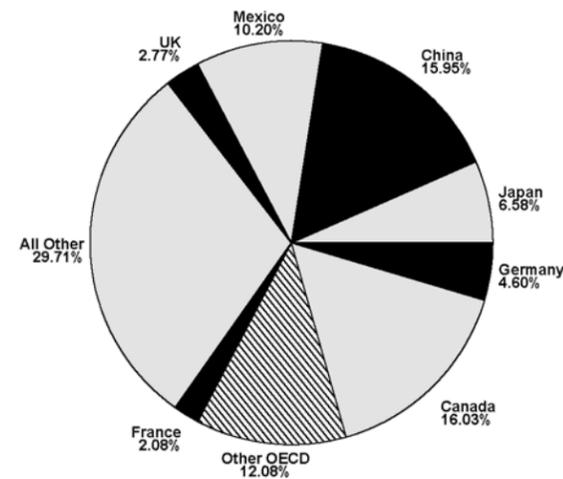
Exchange Rates



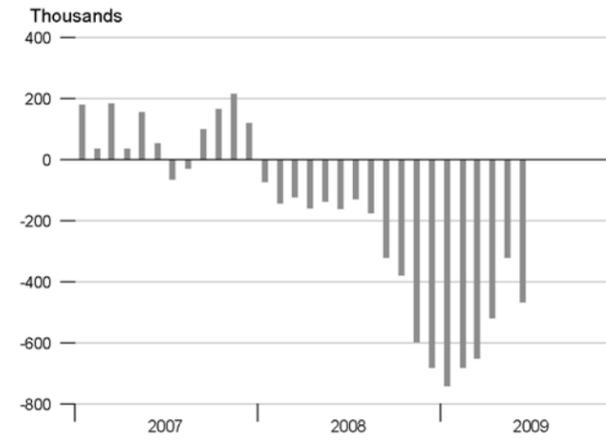
Goods Export Shares, 2008



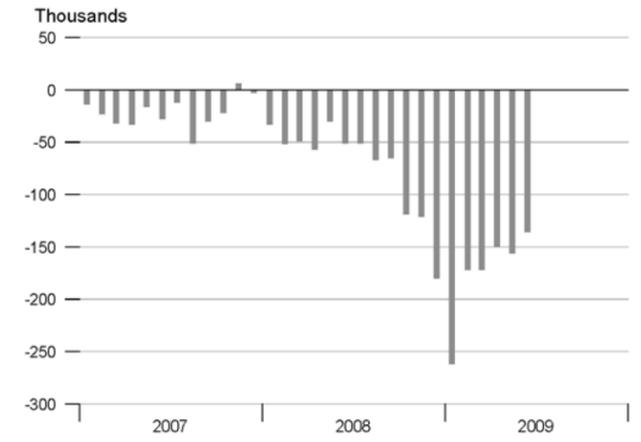
Goods Import Shares, 2008



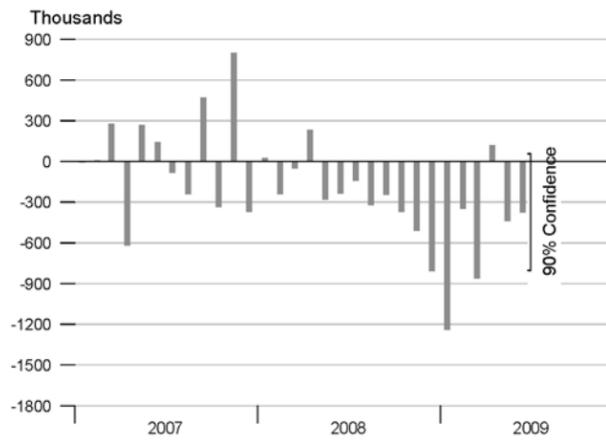
Change in Nonfarm Payrolls



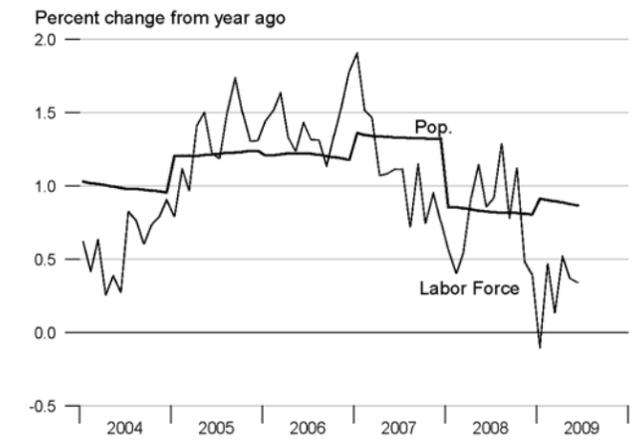
Change in Manufacturing Payrolls



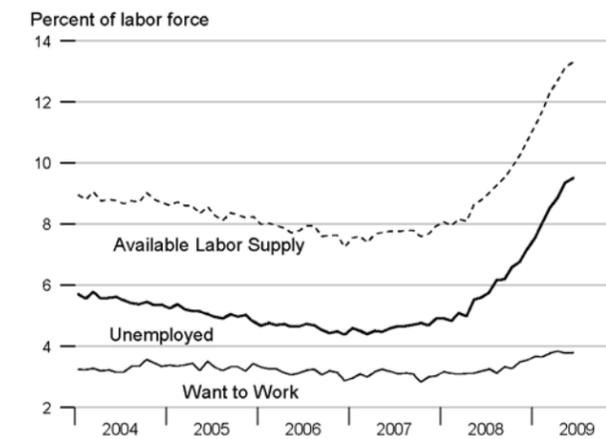
Change in Household Employment



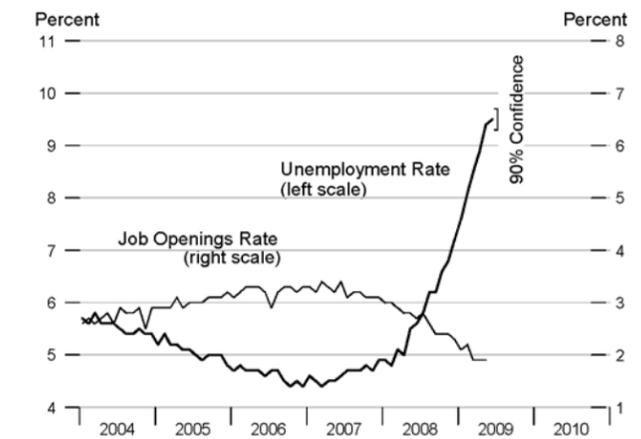
Labor Force and Population



Available Labor Supply and Components

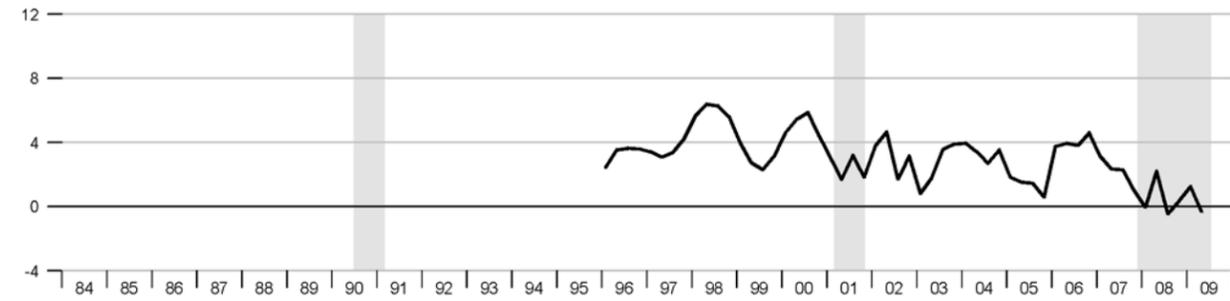


Unemployment Rate & Job Openings Rate



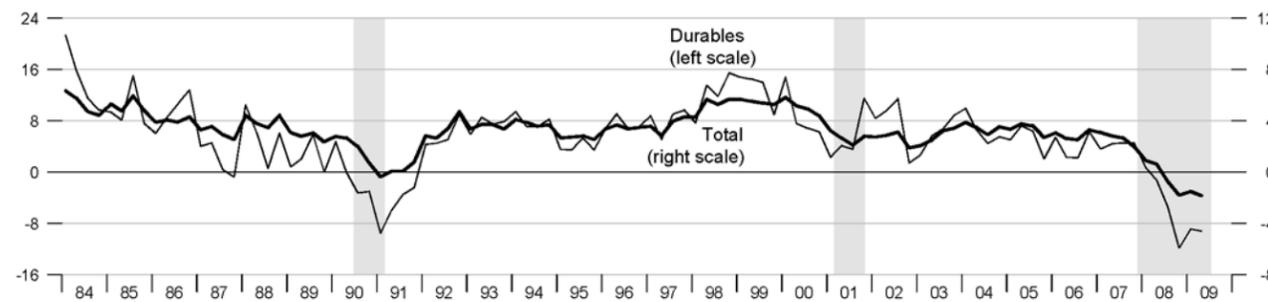
Real Disposable Personal Income

Percent change from year ago, quarterly data



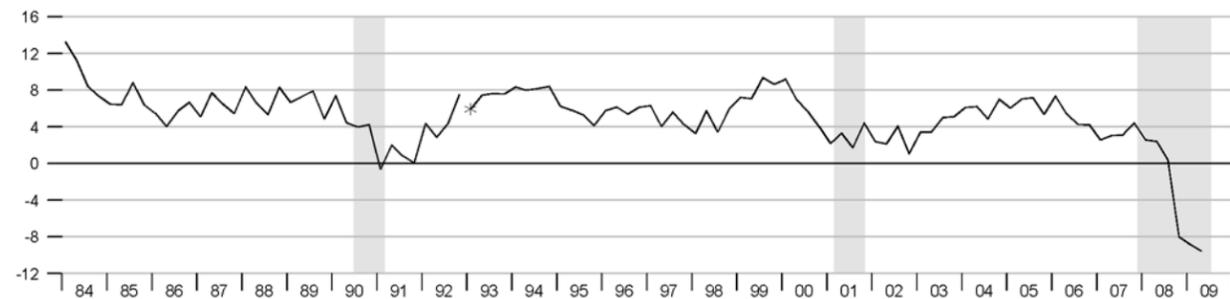
Real Consumption

Percent change from year ago, quarterly data



Retail and Food Services Sales

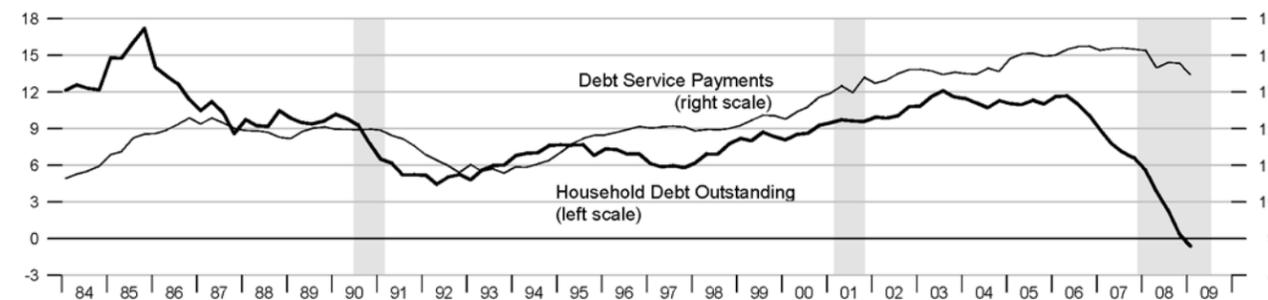
Percent change from year ago, quarterly average



*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).

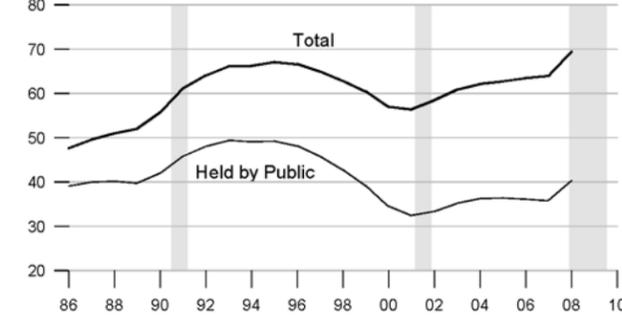
Debt Service Payments and Household Debt Outstanding

Percent change from year ago, quarterly data



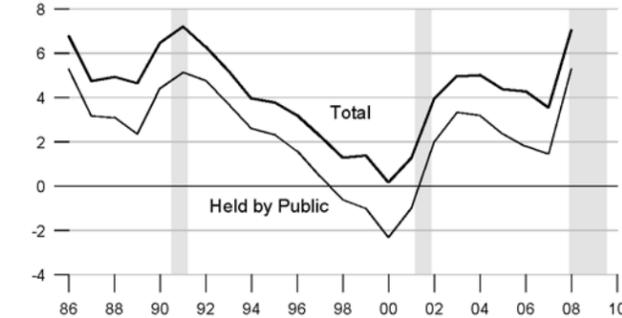
Federal Debt

Percent of GDP



Change in Federal Debt

Percent of GDP



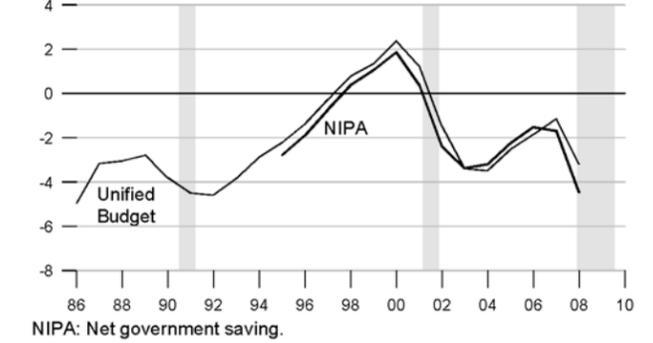
Federal Government Debt

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
2006	8507.0	3663.8	4843.2	768.9	4074.2	2027.3
2007	9007.7	3958.4	5049.2	779.6	4269.7	2237.2
2008	10024.7	4210.5	5814.2	476.6	5332.0	2801.9
2006 March	8371.2	3498.4	4872.8	758.5	4114.0	2084.5
June	8420.0	3622.6	4797.5	766.4	4030.8	1979.8
September	8507.0	3663.8	4843.2	768.9	4074.2	2027.3
December	8680.2	3779.0	4901.2	778.9	4122.1	2105.0
2007 March	8849.7	3795.4	5054.3	780.9	4273.1	2196.7
June	8867.7	3924.7	4943.0	790.5	4152.6	2193.9
September	9007.7	3958.4	5049.2	779.6	4269.7	2237.2
December	9229.2	4092.9	5136.3	740.6	4395.7	2352.9
2008 March	9437.6	4103.6	5334.0	591.2	4742.9	2507.5
June	9492.0	4207.0	5285.0	478.8	4806.2	2635.3
September	10024.7	4210.5	5814.2	476.6	5332.0	2801.9
December	10699.8	4327.2	6372.7	475.9	5893.4	3078.7
2009 March	11126.9	4290.6	6836.3	492.3	6341.7	3267.0

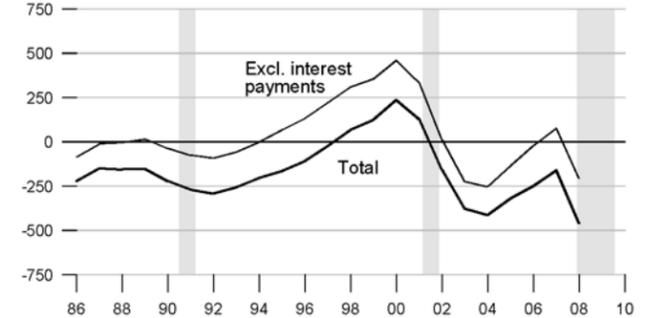
Federal Surplus (+) / Deficit (-)

Percent of GDP

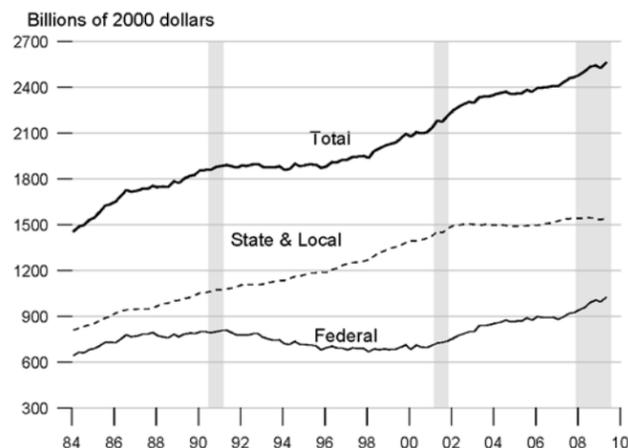


Federal Surplus (+) / Deficit (-), Unified Basis

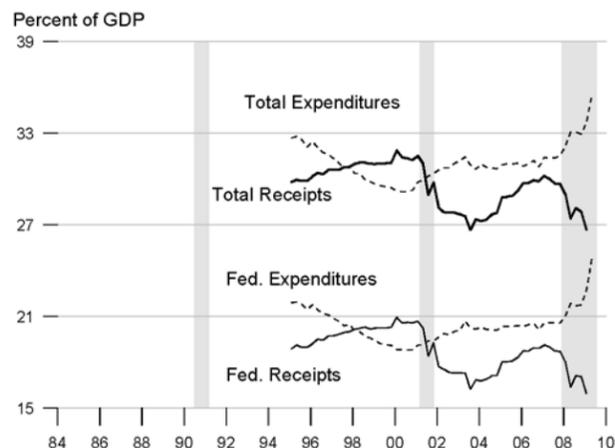
Billions of dollars, fiscal years



Govt. Consumption and Investment



Govt. Current Receipts and Expenditures



Government Budgets

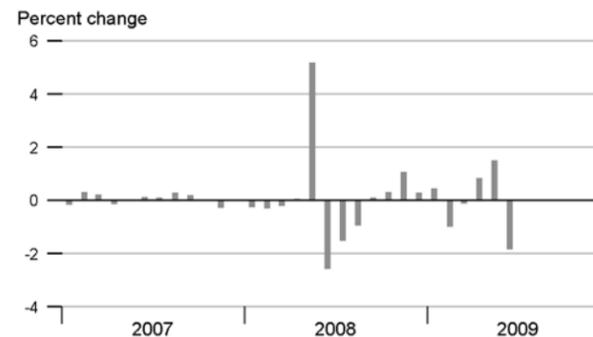
Billions of dollars

National Income Accounts
Calendar Years

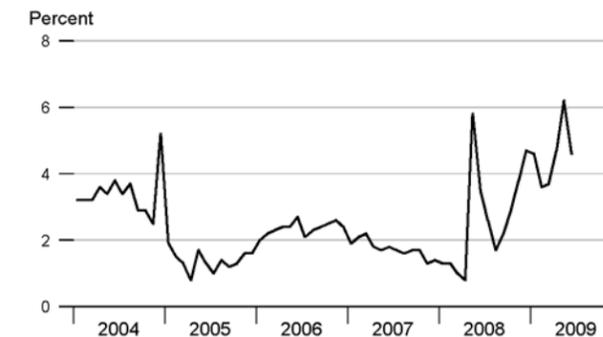
Unified Budget
Fiscal Years

	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	1453.2	1560.6	-107.4
1997	1099.5	1063.2	36.3	1656.2	1716.3	-60.1	1579.4	1601.3	-21.9
1998	1164.5	1117.6	46.9	1777.9	1744.3	33.6	1722.0	1652.7	69.3
1999	1240.4	1198.6	41.8	1895.0	1796.2	98.8	1827.6	1702.0	125.6
2000	1322.6	1281.3	41.3	2057.1	1871.9	185.2	2025.5	1789.2	236.2
2001	1374.0	1389.9	-15.9	2020.3	1979.8	40.5	1991.4	1863.2	128.2
2002	1412.7	1466.8	-54.1	1859.3	2112.1	-252.8	1853.4	2011.2	-157.8
2003	1496.3	1535.1	-38.8	1885.1	2261.5	-376.4	1782.5	2160.1	-377.6
2004	1601.0	1609.3	-8.3	2013.9	2393.4	-379.5	1880.3	2293.0	-412.7
2005	1730.4	1704.5	25.9	2290.1	2573.1	-283.0	2153.9	2472.2	-318.3
2006	1829.7	1778.6	51.1	2524.5	2728.3	-203.8	2407.3	2655.4	-248.2
2007	1927.3	1905.6	21.7	2660.8	2897.2	-236.4	2568.2	2728.9	-160.7
2008	1974.2	2014.4	-40.2	2475.0	3117.6	-642.6	2524.3	2982.9	-458.6
2007Q3	1932.1	1911.7	20.4	2659.9	2918.7	-258.8	622.3	662.9	-40.6
2007Q4	1951.6	1952.9	-1.3	2682.9	2947.9	-265.0	606.2	713.0	-106.8
2008Q1	1963.7	1983.8	-20.1	2590.7	3024.2	-433.5	539.8	745.7	-205.9
2008Q2	1994.2	2019.8	-25.6	2372.1	3169.0	-796.9	787.9	761.0	26.9
2008Q3	1987.5	2046.5	-59.0	2489.5	3155.2	-665.7	589.7	758.7	-168.9
2008Q4	1951.4	2007.5	-56.1	2447.8	3121.9	-674.1	547.4	879.9	-332.5
2009Q1	1961.4	1998.0	-36.6	2260.8	3220.3	-959.5	442.4	891.3	-448.9
2009Q2	.	2015.2	.	.	3502.6	.	598.8	903.7	-304.9

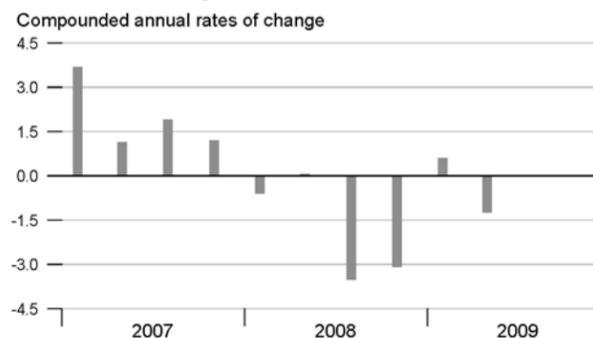
Real Disposable Personal Income



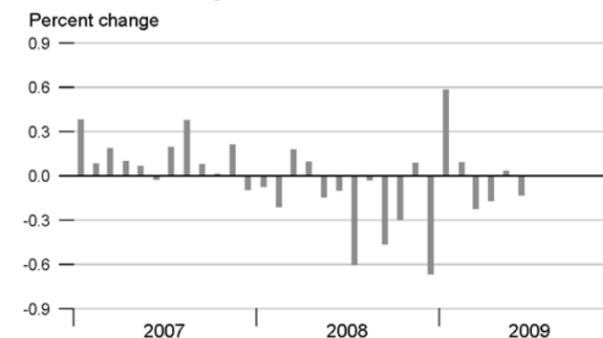
Personal Saving Rate



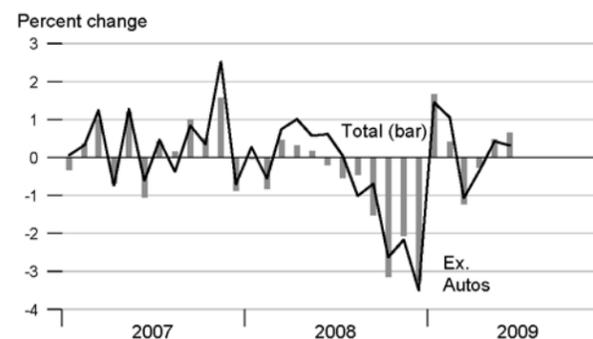
Real Consumption



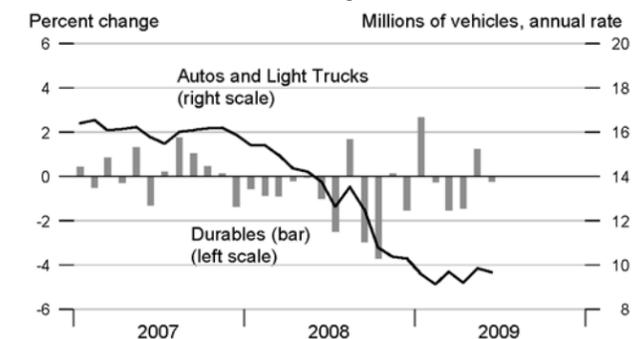
Real Consumption



Retail & Food Services



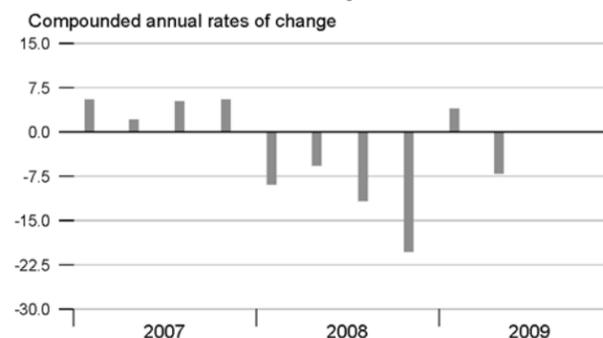
Real Durables Consumption & Vehicle Sales



Consumer Sentiment (U. of Michigan)

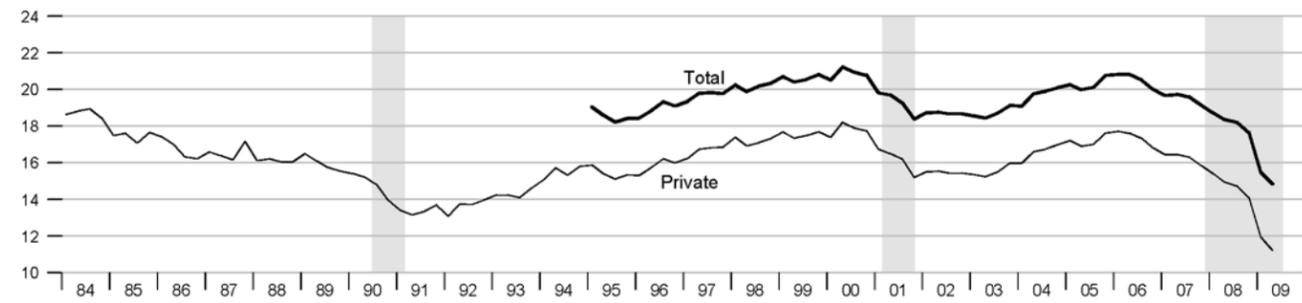


Real Durables Consumption



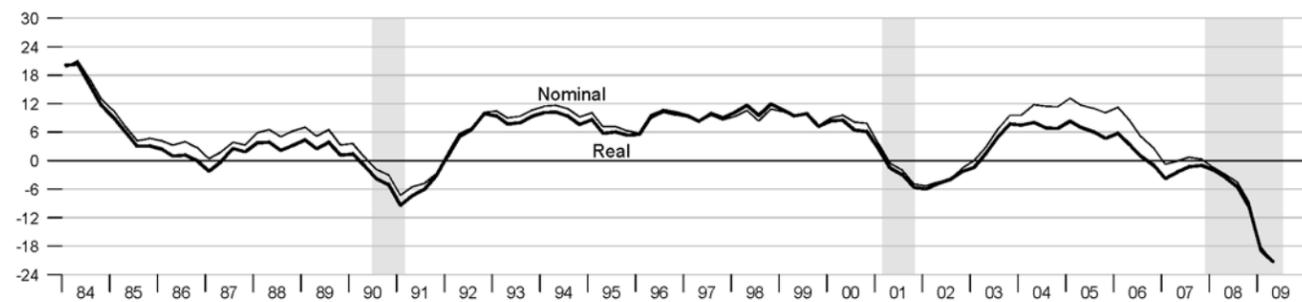
Investment

Percent of nominal GDP



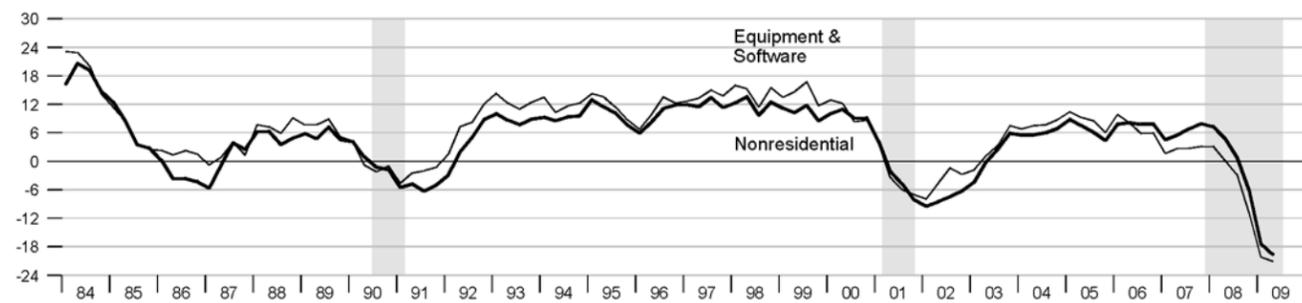
Private Fixed Investment

Percent change from year ago



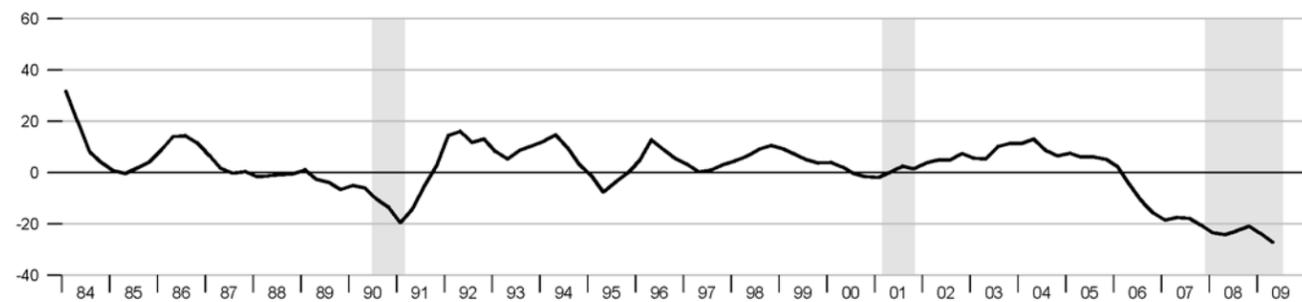
Real Nonresidential Fixed and Equipment & Software Investment

Percent change from year ago



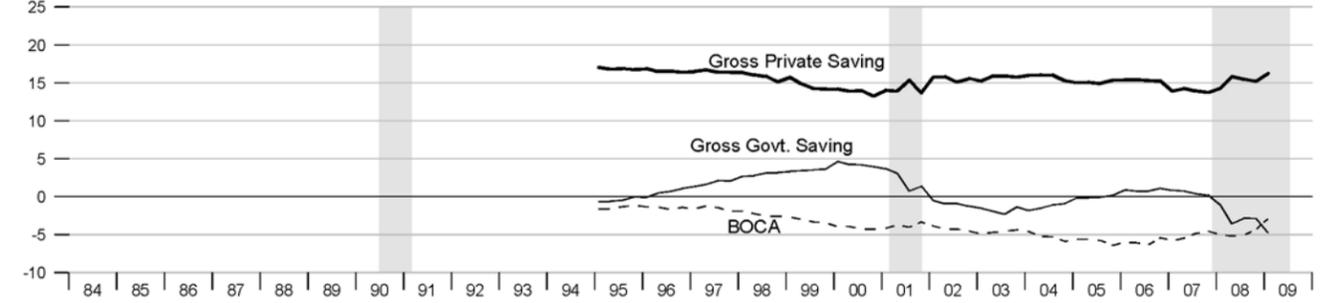
Real Residential Fixed Investment

Percent change from year ago



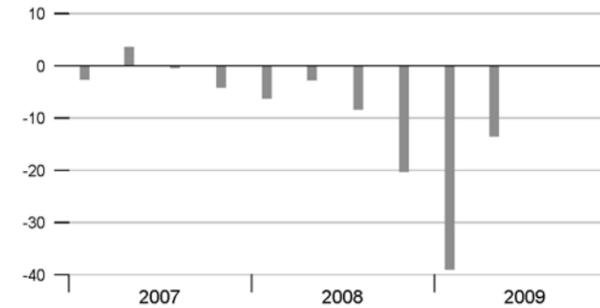
Gross Saving Rates and Balance on Current Account (NIPA)

Percent of GDP



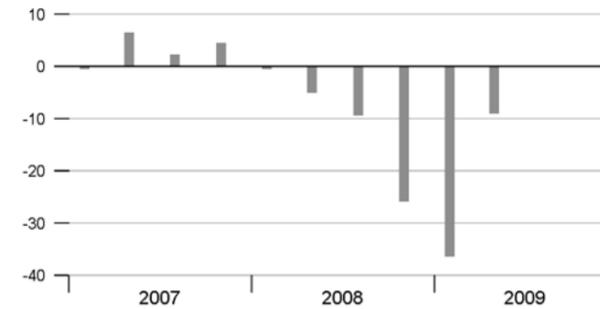
Real Private Fixed Investment

Compounded annual rates of change



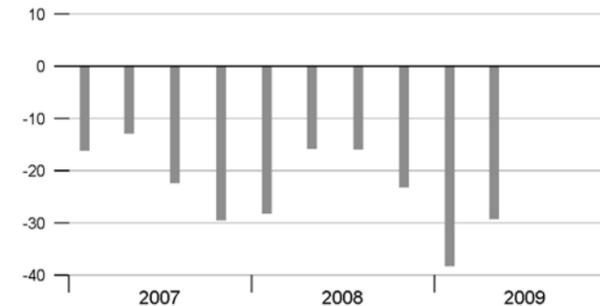
Real Equipment & Software Investment

Compounded annual rates of change



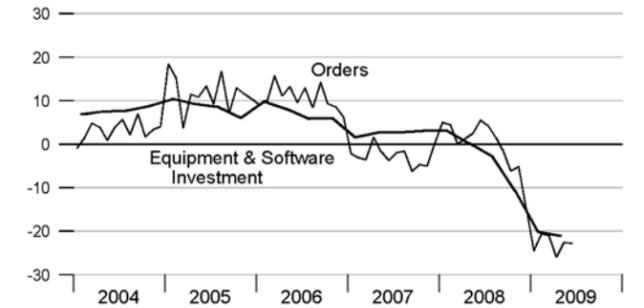
Real Residential Fixed Investment

Compounded annual rates of change



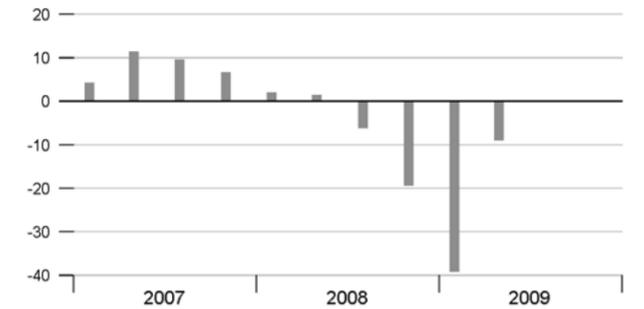
Nondefense Capital Goods Orders

Percent change from year ago, excluding aircraft



Real Nonresidential Fixed Investment

Compounded annual rates of change



Housing Starts and New Home Sales

Millions, annual rate

Millions, annual rate

