

The Long-Run Benefits of Sustained Low Inflation

Policymakers at the Federal Reserve wage preemptive wars against inflation; that is, they tend to tighten monetary policy during economic expansions before incoming data confirm an increased rate of inflation. Today, many market analysts believe the Federal Open Market Committee is nearing the end of its most recent preemptive strike. Hence, it seems worthwhile to review the benefits that flow from sustained low inflation.

A common theme among Fed officials is that price stability—typically defined as an inflation rate that is sufficiently low, stable, and predictable so as not to be a factor in decisionmaking—is a prerequisite for attaining maximum sustainable economic growth. In his closing remarks at the August 2005 Federal Reserve Bank of Kansas City policy conference, Chairman Greenspan said, “I presume maximum sustainable economic growth will continue to be our goal, with price stability pursued as a necessary condition to promote that goal.” Incoming Fed Chairman Bernanke (2005) has written: “[T]he low-inflation era of the past two decades has seen not only significant improvements in economic growth and productivity but also a marked reduction in economic volatility, both in the United States and abroad, a phenomenon that has been dubbed ‘the Great Moderation’...[A]s I have argued elsewhere, there is evidence for the view that improved control of inflation has contributed in important measure to this welcome change in the economy.”

Typically, policymakers’ desired long-run inflation rate is a slow increase in a broad index of consumer prices, excluding food and energy. In part, the non-zero rate reflects an assumed measurement bias due to imperfect adjustment for quality change and the introduction of new goods; in part, the rate also embeds a cushion against the risk that an adverse shock might corner policymakers against the zero lower bound on nominal interest rates.

The costs of sustained inflation at such a low rate primarily are of two types. First, “monetary costs” arise as inflation reduces the real return on money, inducing firms and households to needlessly incur additional costs to more closely manage their monetary assets. Inflation also muddies price signals by increasing the difficulty of distinguishing temporary changes in goods’ prices from permanent changes. Higher inflation also tends to attract real resources, including new college graduates, into professions such as law and financial services that benefit by creating hedges and shelters against inflation.

In empirical studies, however, the estimated costs of moderate inflation (versus an inflation rate low enough to be equated to

price stability) are small, often less than three-hundredths of 1 percentage point of annual GDP growth; see the papers by Bruno and Easterly (1996) and Barro (1996). But this opinion is not universally held. Dotsey and Ireland (1996) present a model in which the combined impact of several effects, each individually small, is large. Second, and perhaps more significant, are distortions due to the nominal nature of the U.S. tax system. Studies in Feldstein (1999) and by Bullard and Russell (2004) suggest that the level of real output is lower by approximately one-half to 1 percent for each 1 percentage point that the inflation rate is above that associated with price stability. Yet, cross-country empirical studies suggest little, if any, effect on output when inflation is less than 15 to 40 percent per year.

In short: Measures of the trade-off between sustained inflation and long-run economic growth remain extremely uncertain, as evidenced in the recent conference volume by the Bank of Japan (2004). Yet, almost uniformly, central bankers argue that sustained low inflation, at a rate no greater than that defined as price stability plus a small cushion to avoid the zero lower bound on nominal interest rates, is a prerequisite to realizing an economy’s maximum long-run economic growth. Fortunately, recent surveys of inflation expectations in the United States suggest that the public is confident the Federal Reserve will sustain such an environment of low, stable inflation.

—Richard G. Anderson

A longer essay on this topic is available on the author’s web page at http://research.stlouisfed.org/econ/anderson/Essay_CostsOfInflation.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.

We welcome your comments addressed to:

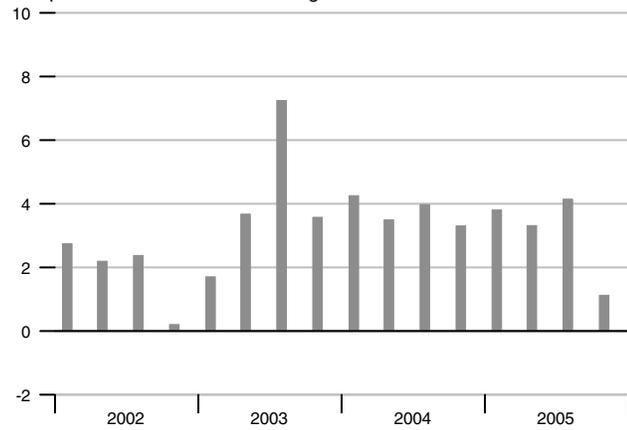
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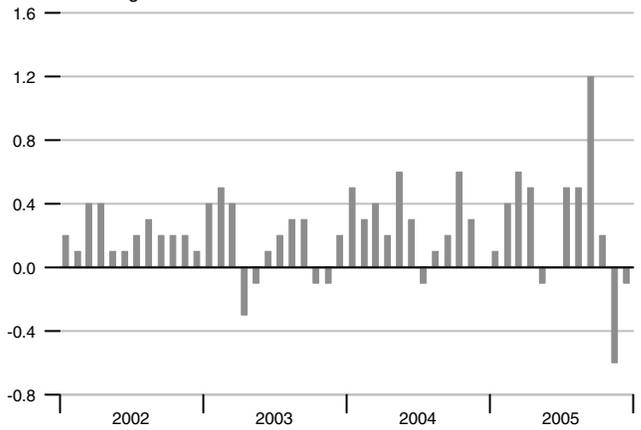
Real GDP Growth

Compounded annual rates of change



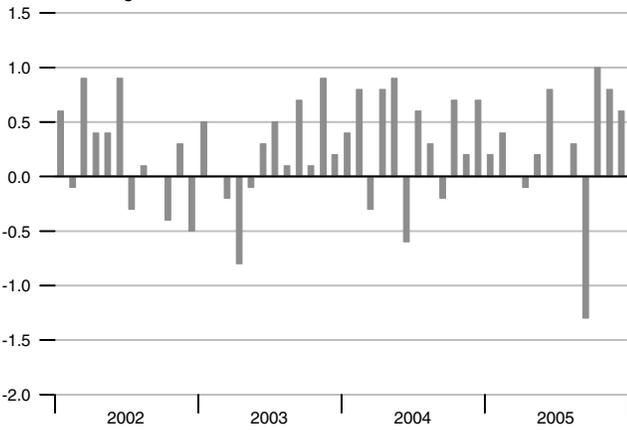
Consumer Price Index

Percent change



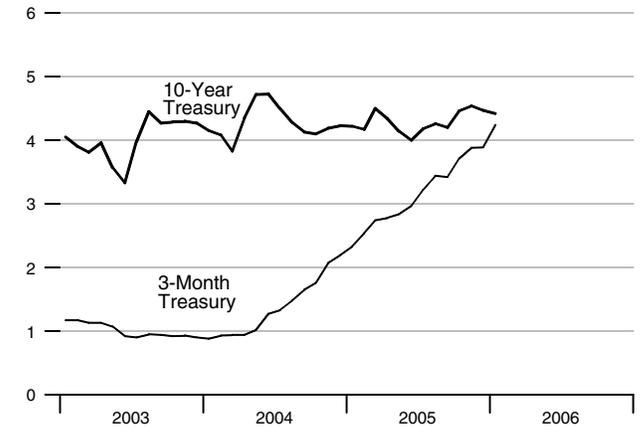
Industrial Production

Percent change



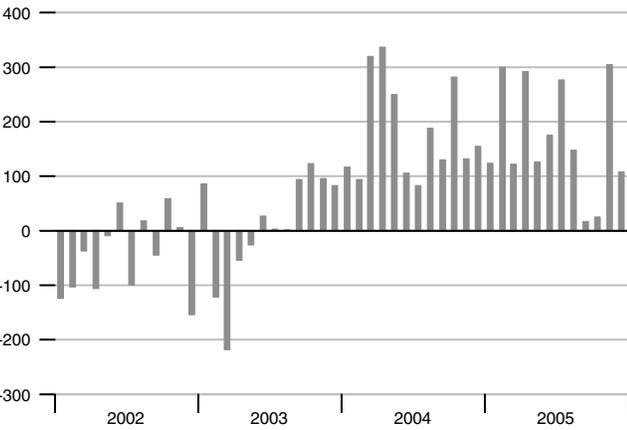
Interest Rates

Percent



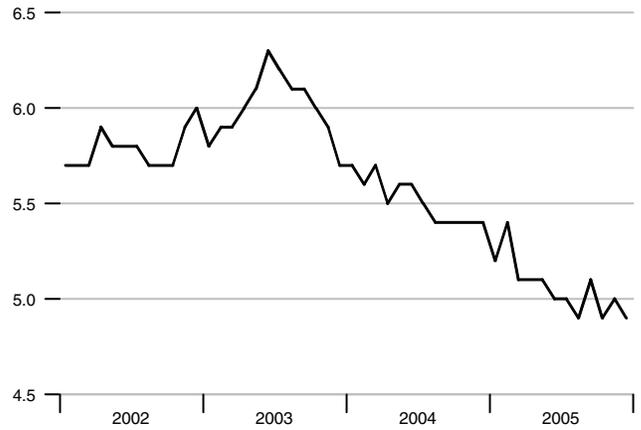
Change in Nonfarm Payrolls

Thousands



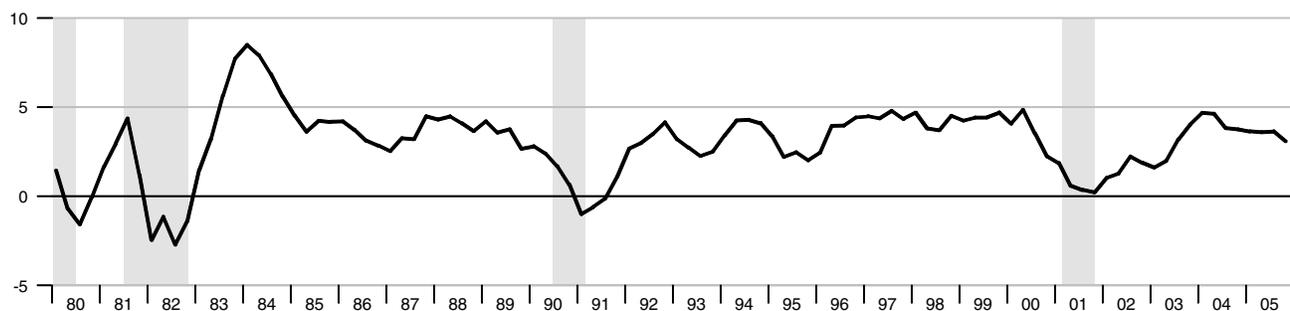
Unemployment Rate

Percent of labor force



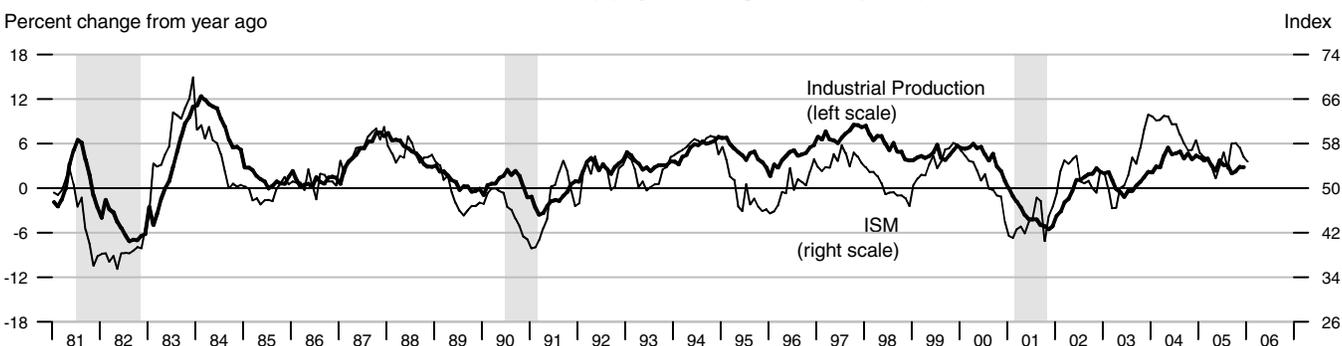
Real Gross Domestic Product

Percent change from year ago



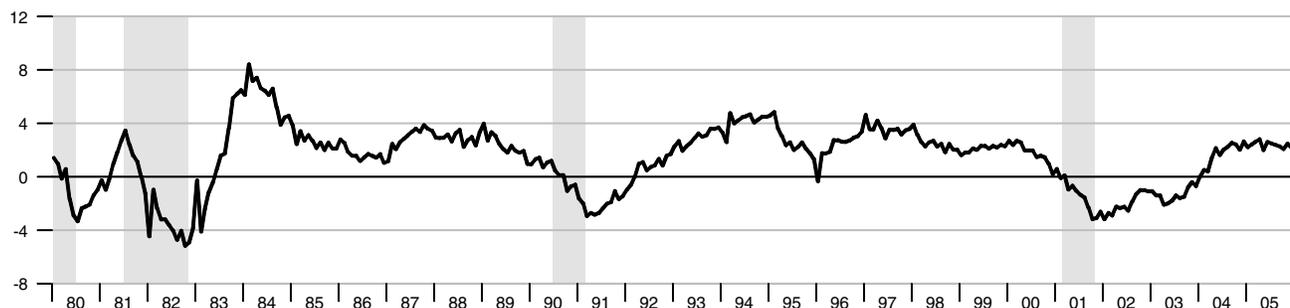
Industrial Production and Institute for Supply Management (ISM) Indexes

Percent change from year ago



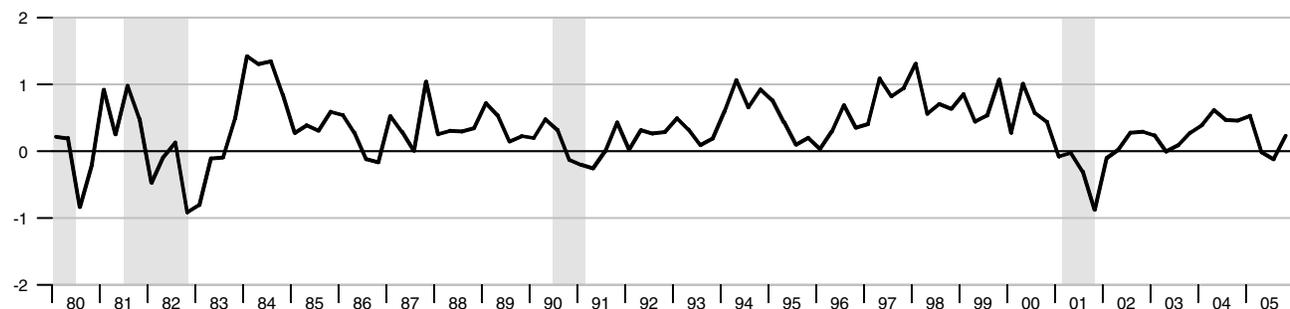
Aggregate Private Nonfarm Hours

Percent change from year ago

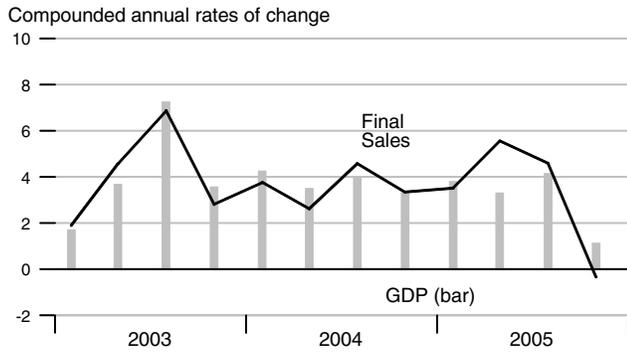


Real Change in Private Inventories

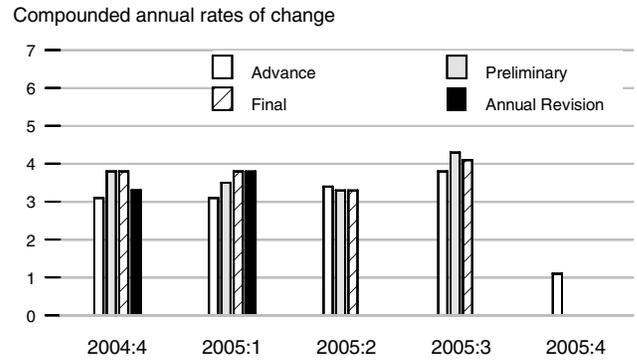
Percent of GDP



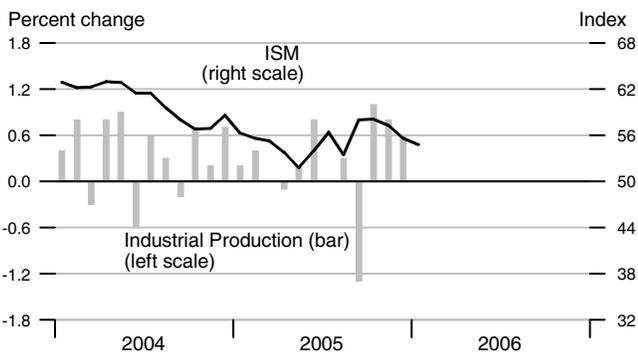
Real Final Sales and GDP



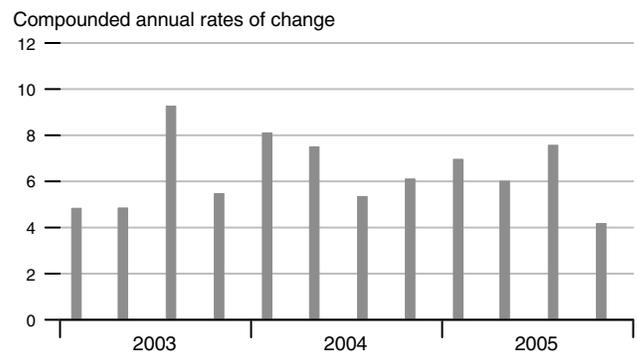
Real GDP Revisions



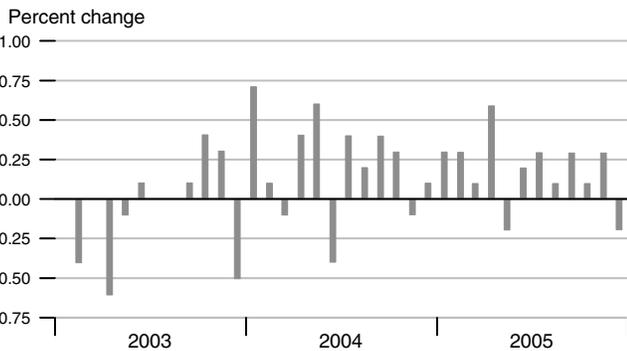
Industrial Production and ISM Index



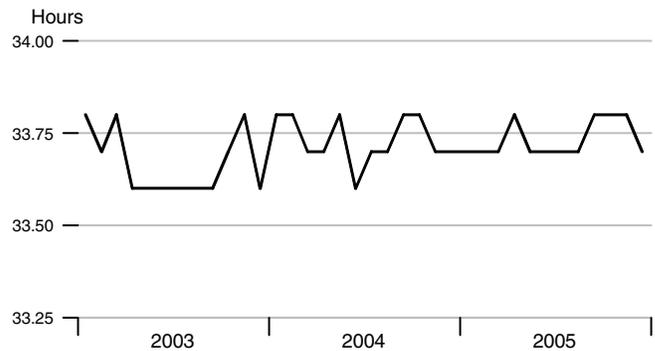
Nominal Gross Domestic Product



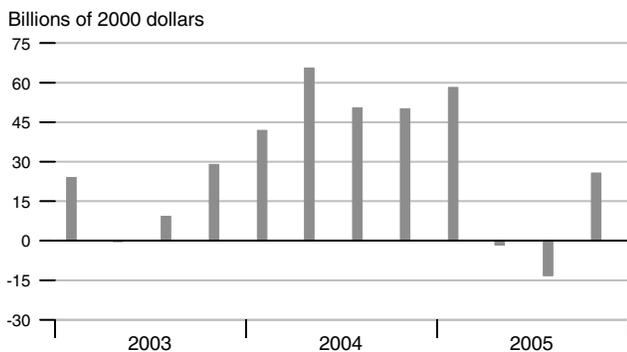
Aggregate Private Nonfarm Hours



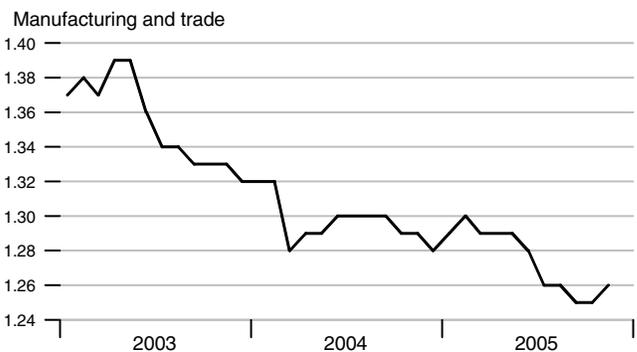
Average Weekly Private Nonfarm Hours



Real Change in Private Inventories

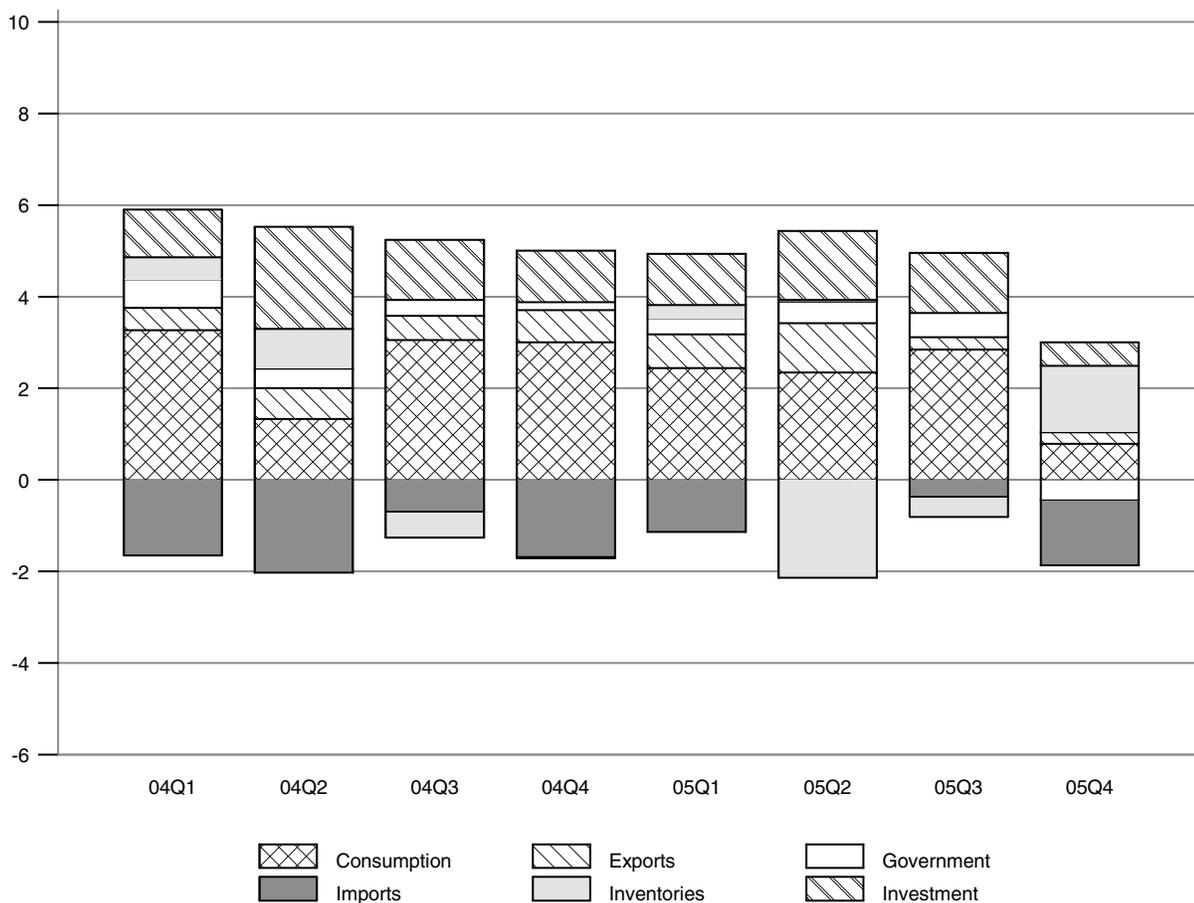


Inventory-Sales Ratio



Contribution of Components to Real GDP Growth

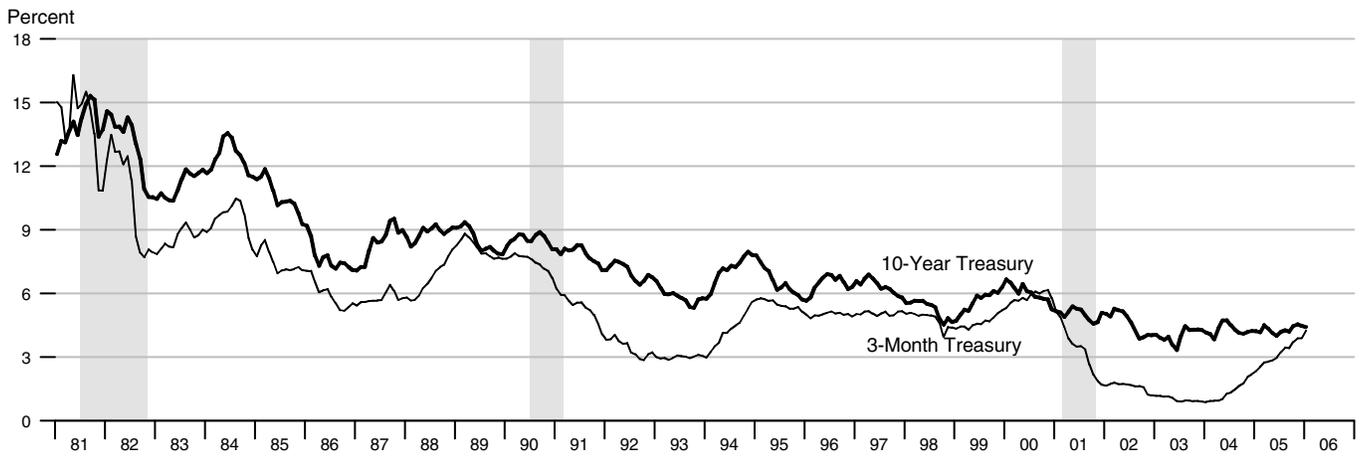
Percentage points at compounded annual rates



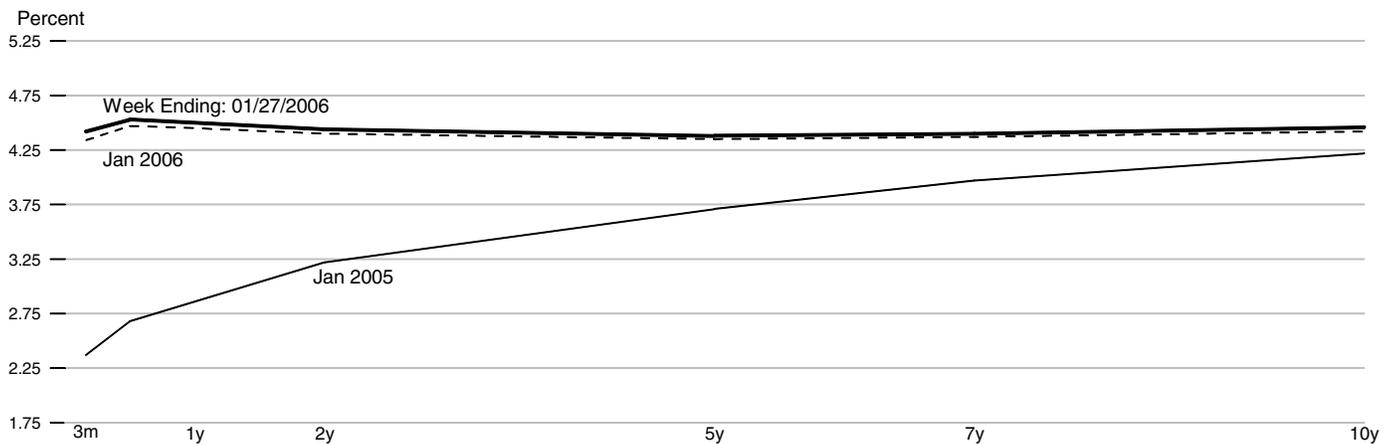
Contributions to Real GDP Growth Rate

	2004				2005			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Final Sales	3.77	2.63	4.53	3.33	3.51	5.45	4.57	-0.33
Consumption	3.27	1.33	3.05	3.01	2.44	2.35	2.85	0.79
Fixed Investment	1.04	2.22	1.31	1.13	1.12	1.51	1.31	0.51
Nonresidential	0.76	1.29	1.15	1.04	0.58	0.90	0.88	0.30
Residential	0.28	0.93	0.15	0.09	0.54	0.62	0.43	0.21
Government	0.62	0.43	0.35	0.17	0.35	0.47	0.54	-0.45
Federal	0.71	0.22	0.25	-0.04	0.17	0.17	0.52	-0.50
State and Local	-0.09	0.21	0.10	0.21	0.19	0.31	0.03	0.05
Net Exports	-1.16	-1.37	-0.17	-0.98	-0.40	1.11	-0.12	-1.18
Exports	0.49	0.67	0.53	0.70	0.74	1.07	0.26	0.25
Imports	-1.65	-2.03	-0.70	-1.68	-1.14	0.04	-0.38	-1.42
Change in Inventory	0.48	0.87	-0.56	-0.03	0.29	-2.14	-0.43	1.45
Residual	0.04	0.05	-0.07	-0.08	0.00	-0.01	-0.05	0.02
Real GDP Growth	4.25	3.50	3.97	3.30	3.80	3.31	4.14	1.12

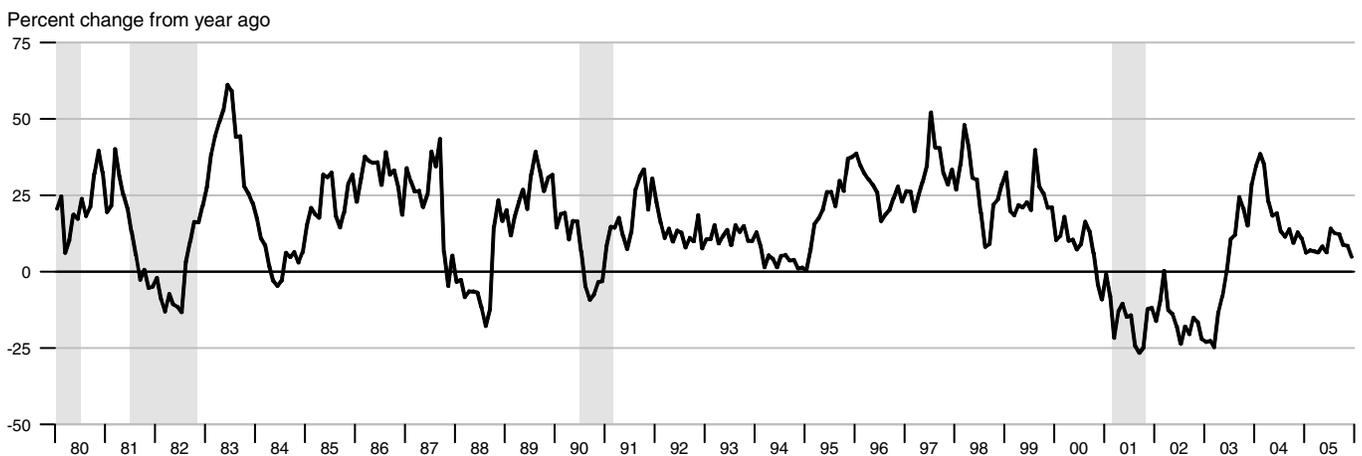
Interest Rates



Treasury Yield Curve

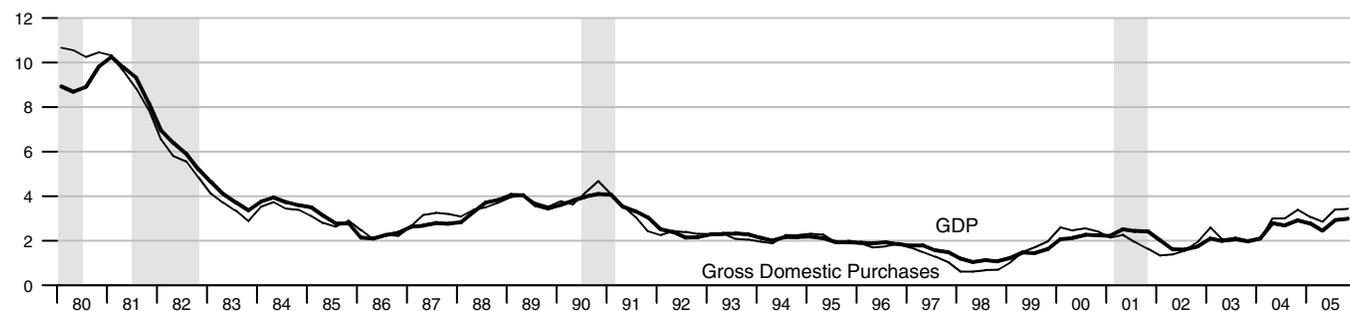


Standard and Poor's 500 Index with Reinvested Dividends



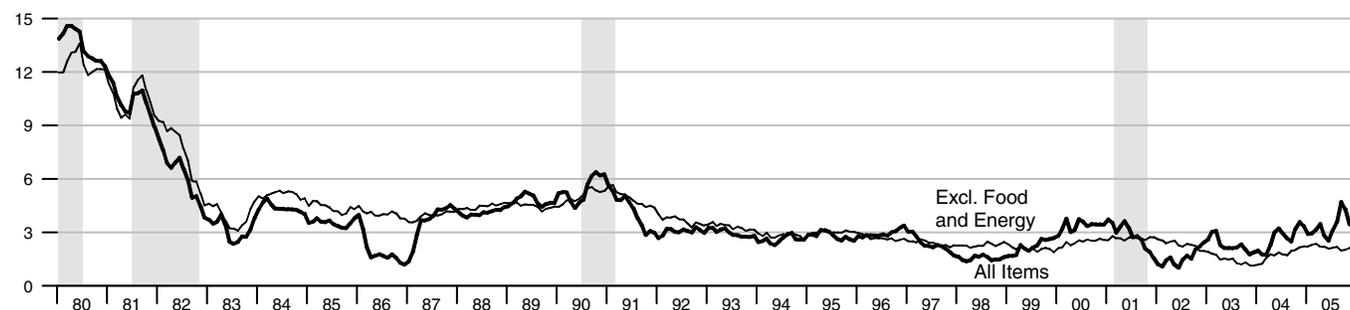
NIPA Chain Price Indexes

Percent change from year ago



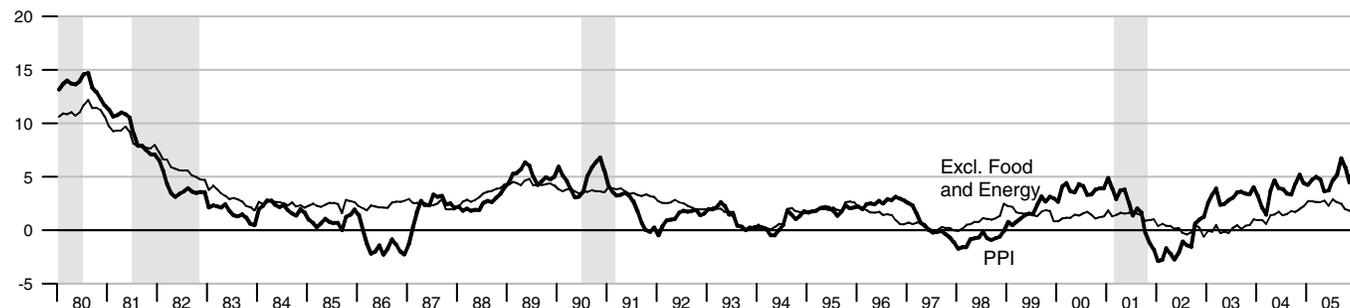
Consumer Price Index

Percent change from year ago



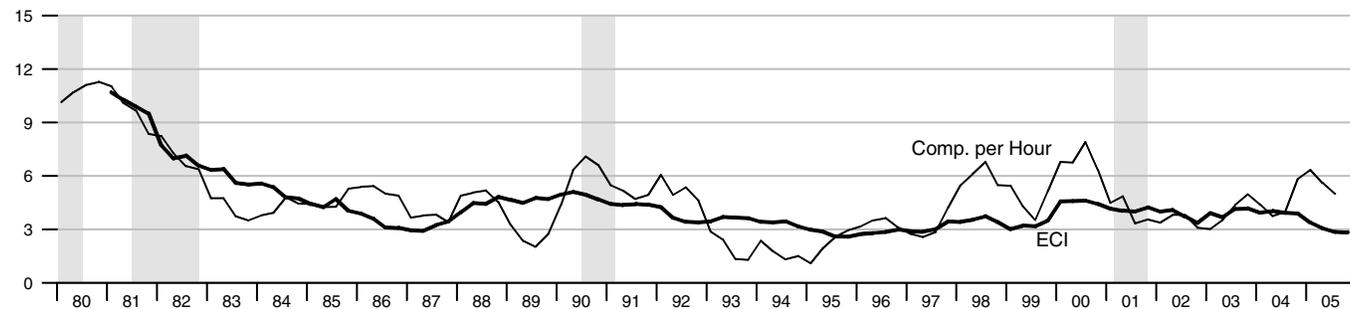
Producer Price Index, Finished Goods

Percent change from year ago

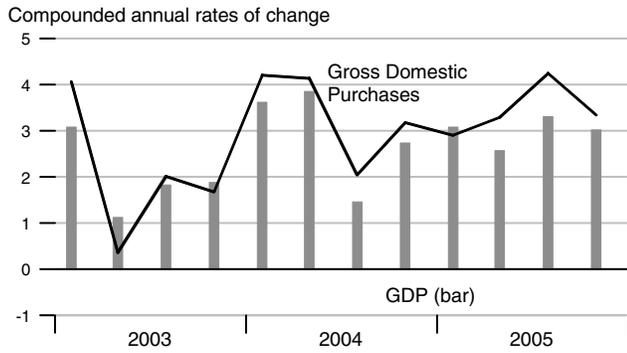


Employment Cost Index and Compensation per Hour

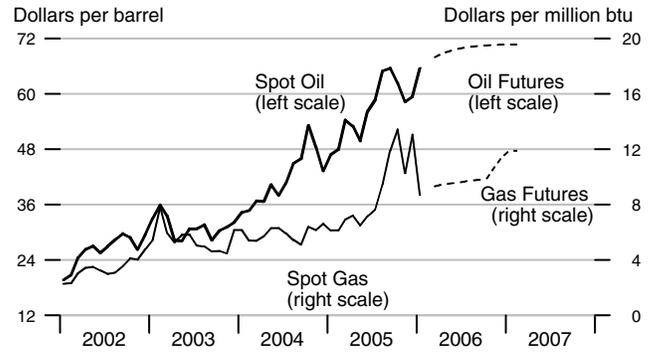
Percent change from year ago



NIPA Chain Price Indexes

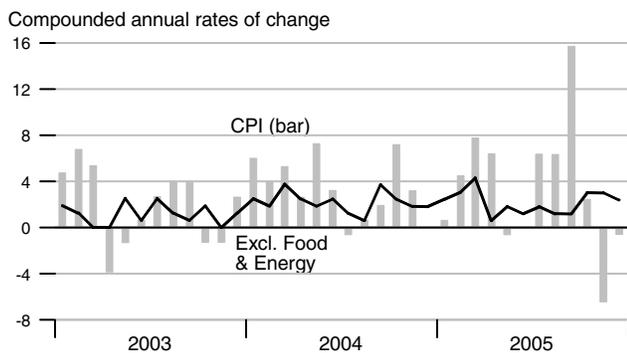


Oil & Natural Gas Prices: Spot & Futures

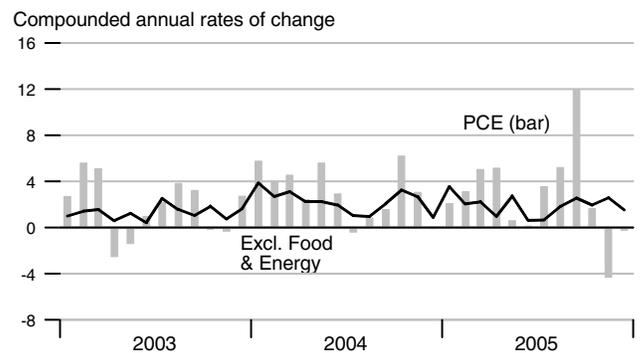


Note: Futures prices as of 01/31/2006.

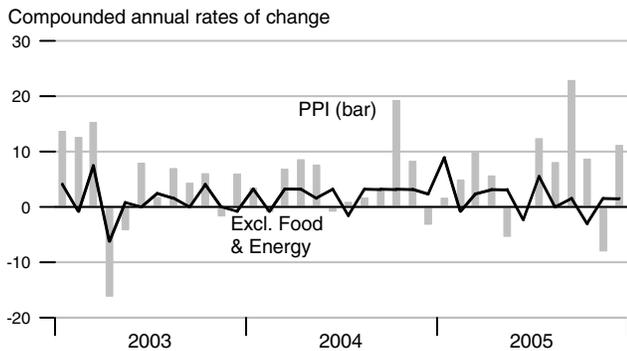
Consumer Price Index



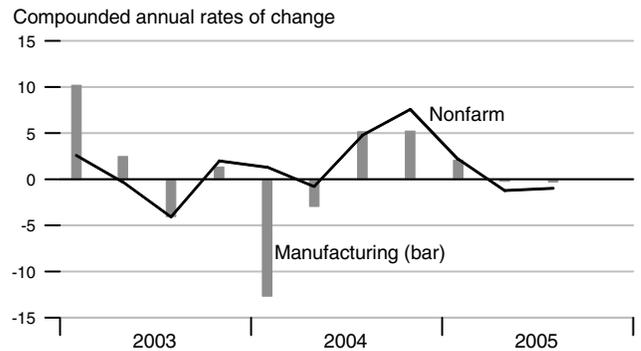
Consumption Chain Price Index



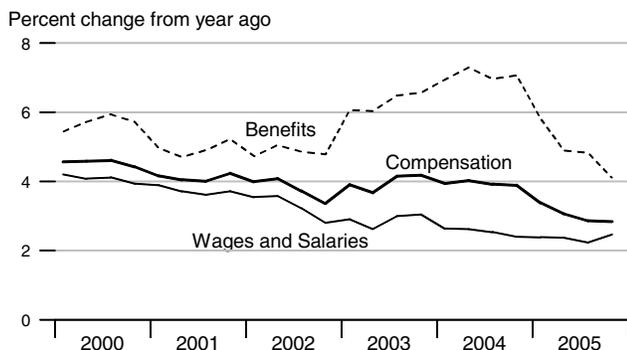
Producer Price Index, Finished Goods



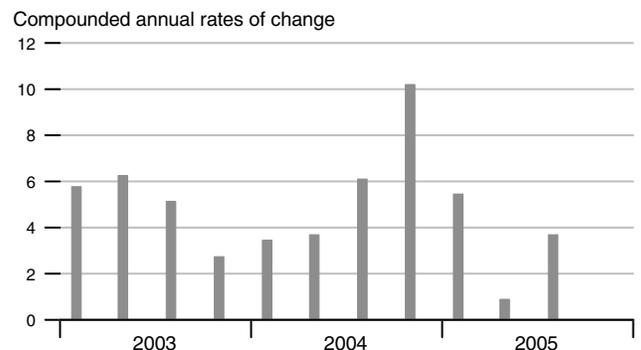
Unit Labor Cost



Employment Cost Index

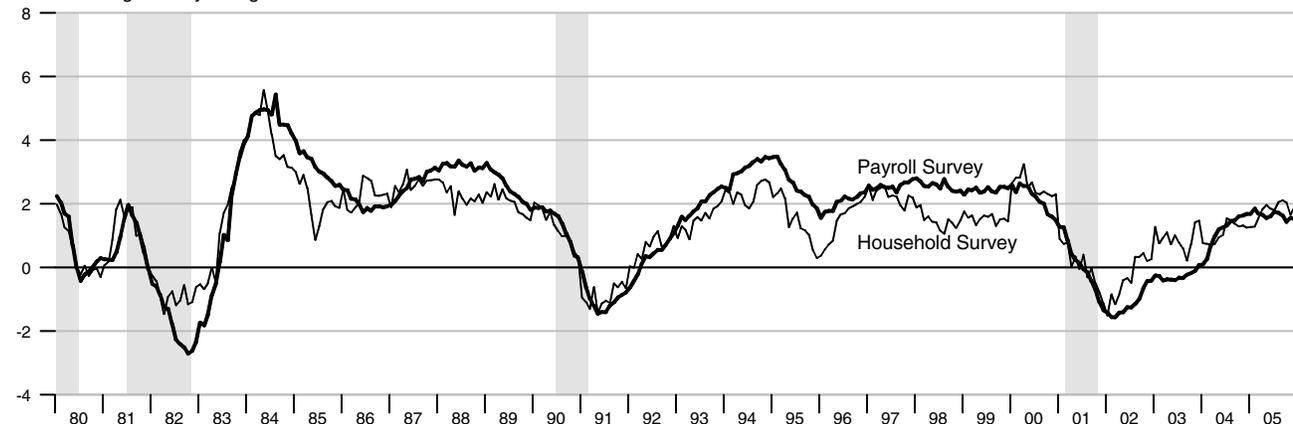


Compensation per Hour



Employment

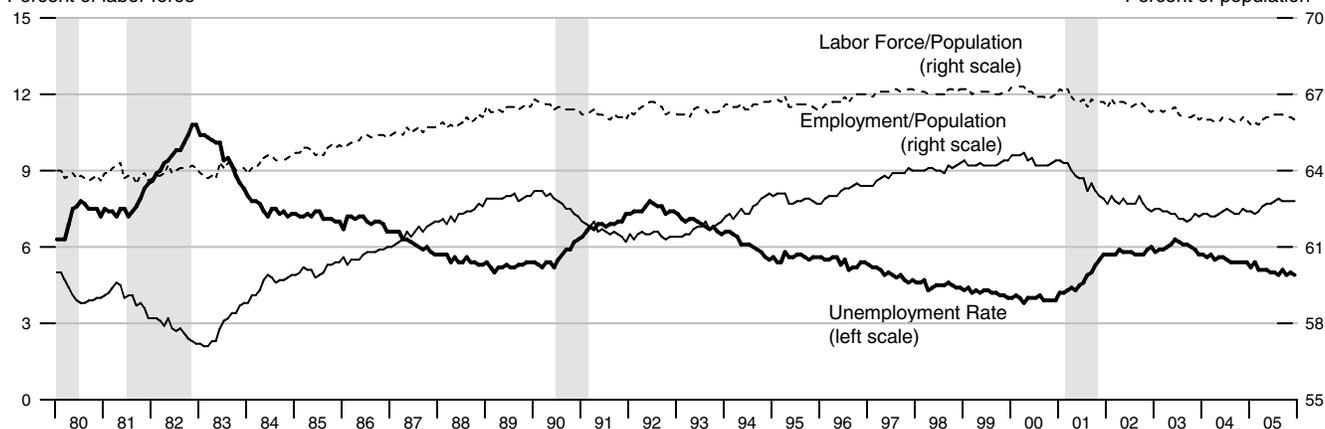
Percent change from year ago



Unemployment, Labor Force Participation, and Employment Rates

Percent of labor force

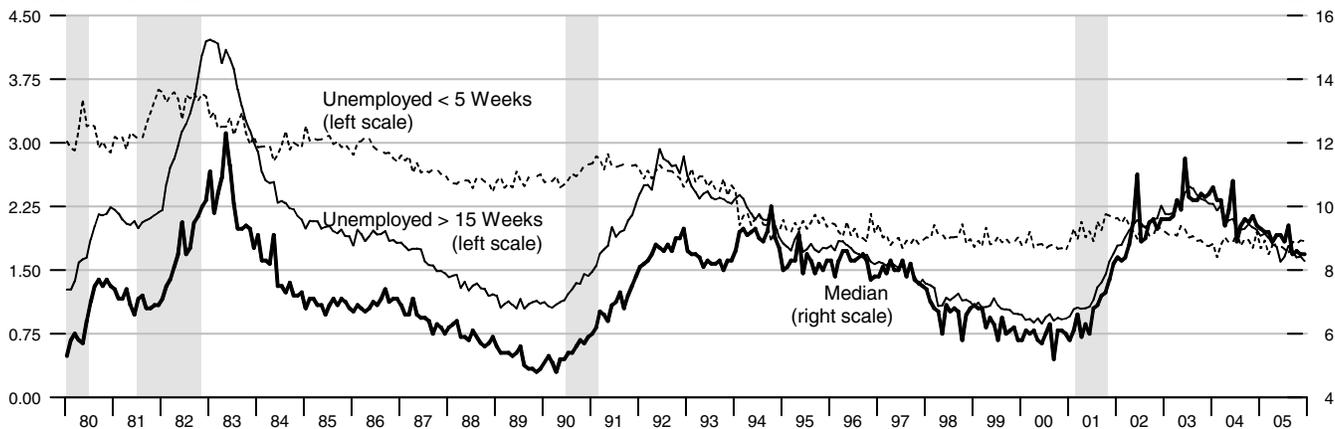
Percent of population



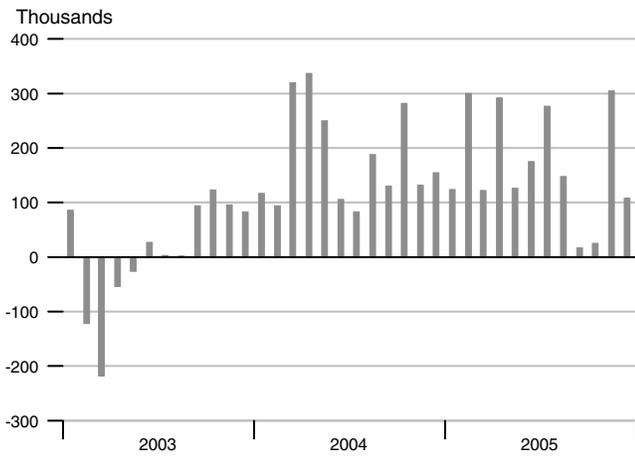
Duration of Unemployment

Percent of labor force

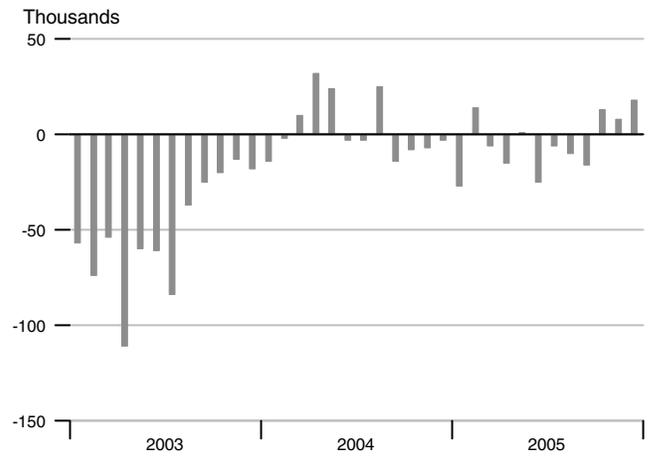
Weeks



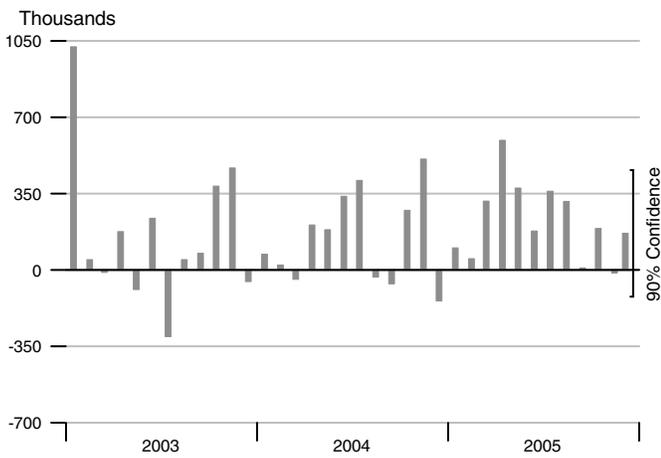
Change in Nonfarm Payrolls



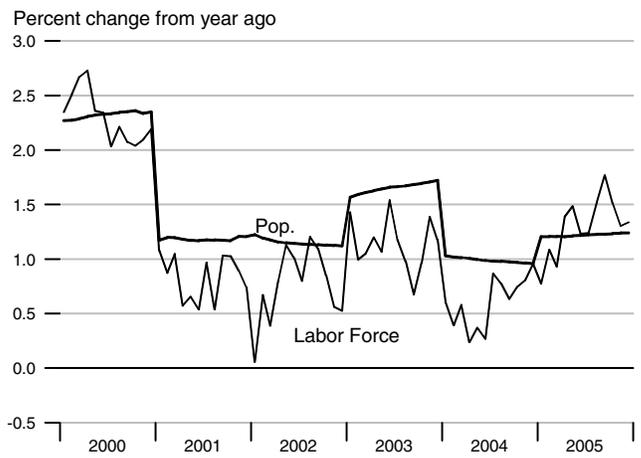
Change in Manufacturing Payrolls



Change in Household Employment



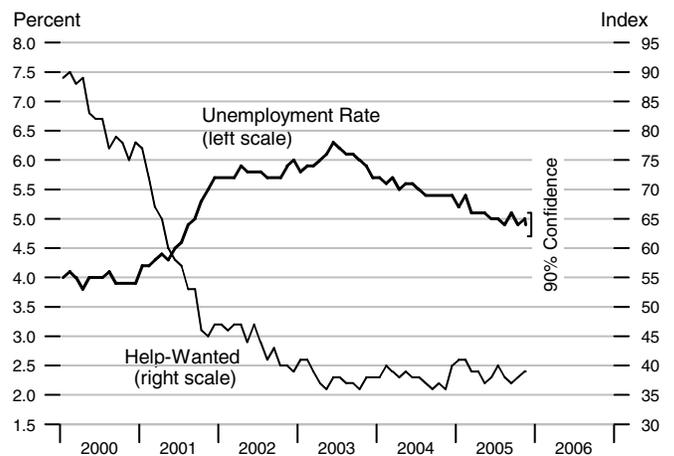
Labor Force and Population



Available Labor Supply and Components

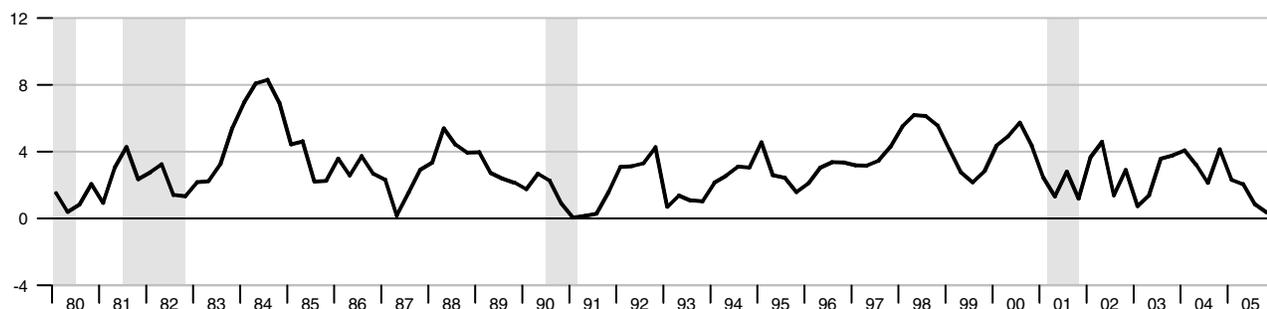


Unemployment Rate & Help-Wanted Index



Real Disposable Personal Income

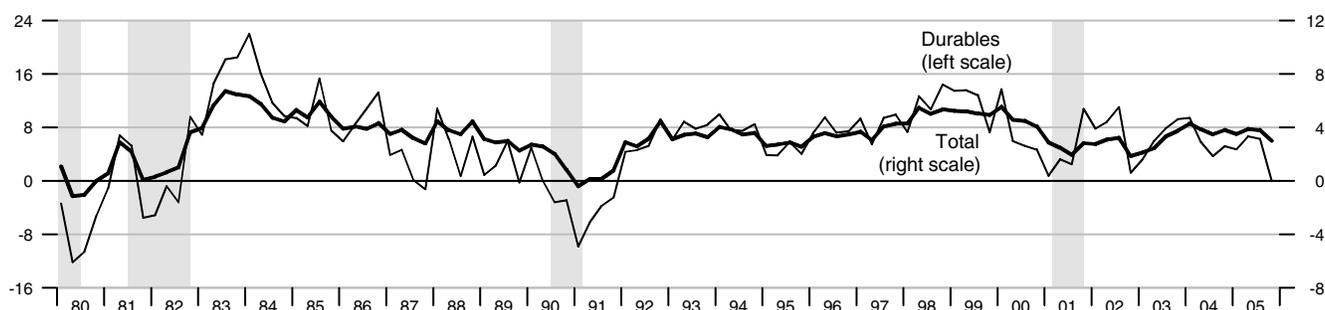
Percent change from year ago, quarterly data



Real Consumption

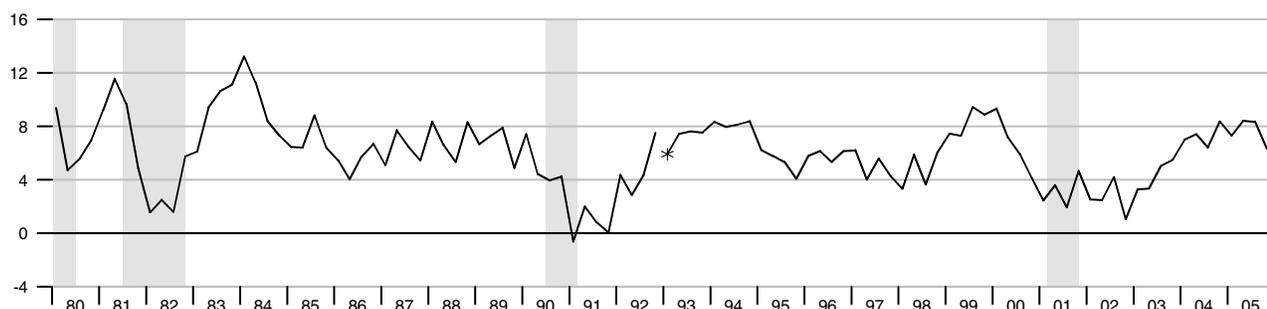
Percent change from year ago, quarterly data

Percent change from year ago, quarterly data



Retail and Food Services Sales

Percent change from year ago, quarterly average

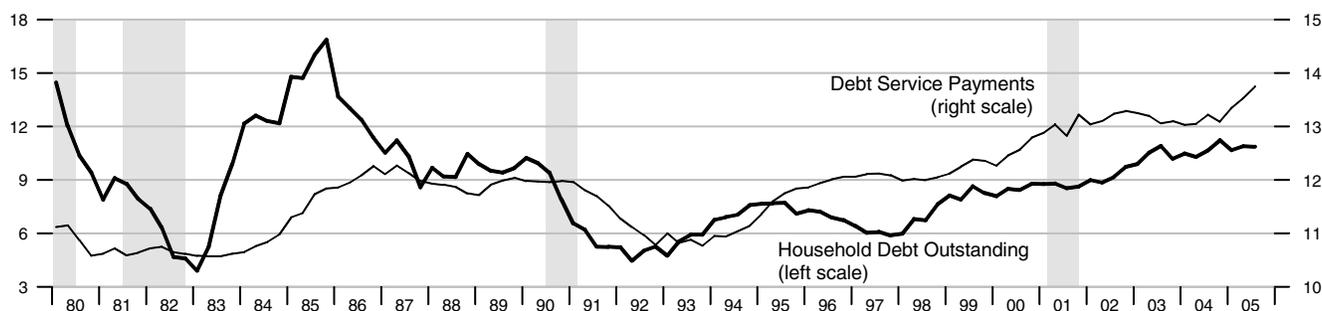


*Data from Jan. 1992 to the present are on a NAICS basis; data prior to Jan. 1992 are on an SIC basis and are not strictly comparable (see End Note).

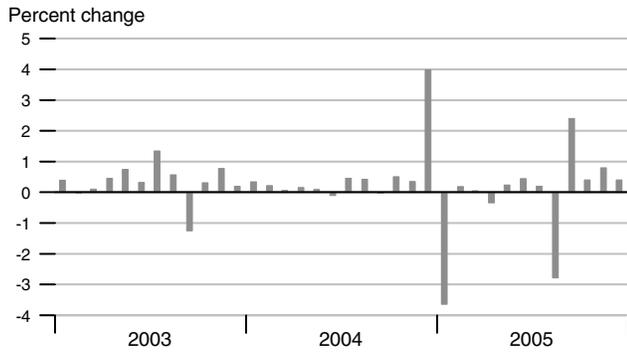
Debt Service Payments and Household Debt Outstanding

Percent change from year ago, quarterly data

Percent of disposable personal income



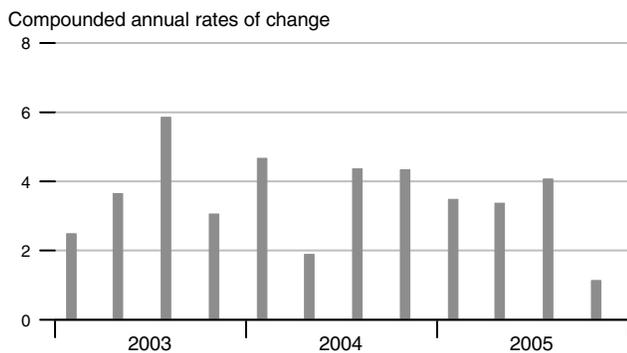
Real Disposable Personal Income



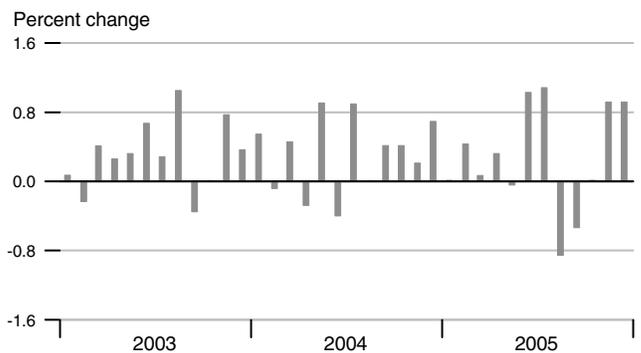
Personal Saving Rate



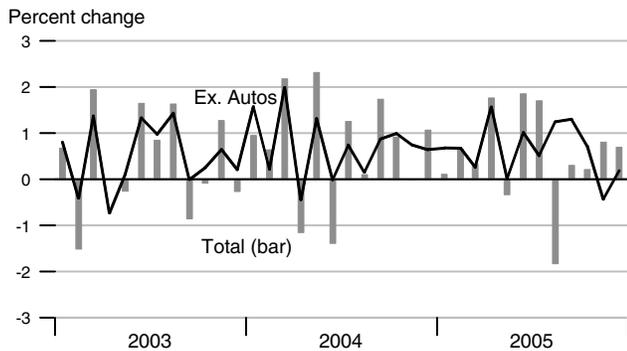
Real Consumption



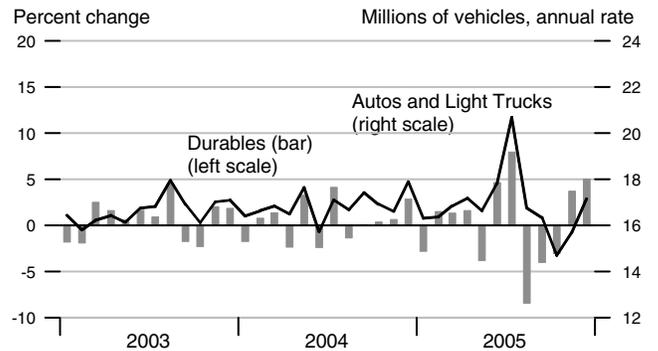
Real Consumption



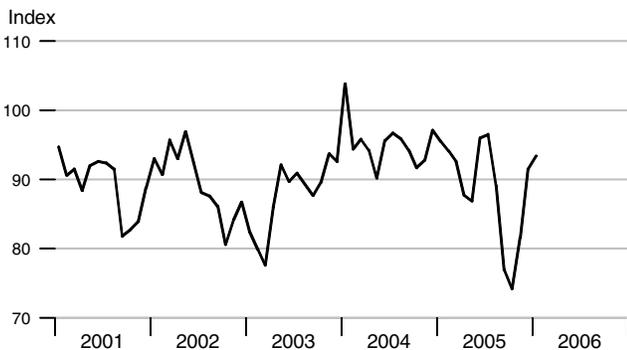
Retail & Food Services



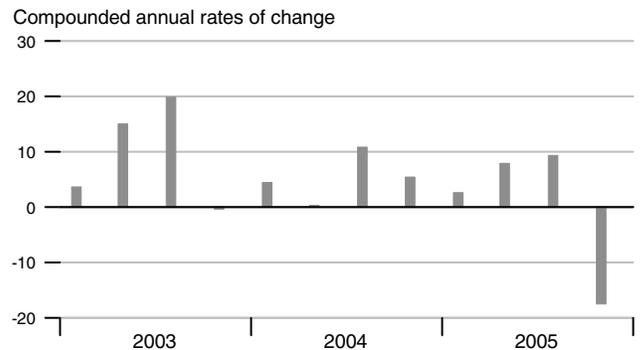
Real Durables Consumption & Vehicle Sales



Consumer Sentiment (U. of Michigan)

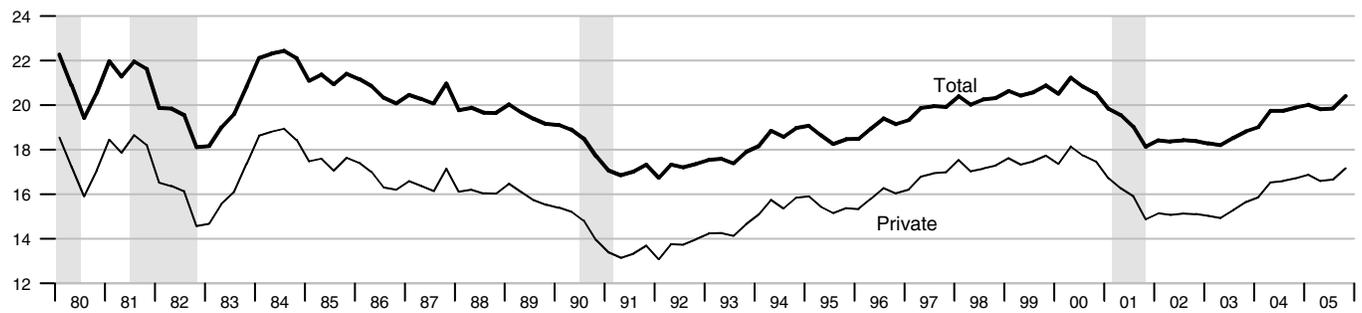


Real Durables Consumption



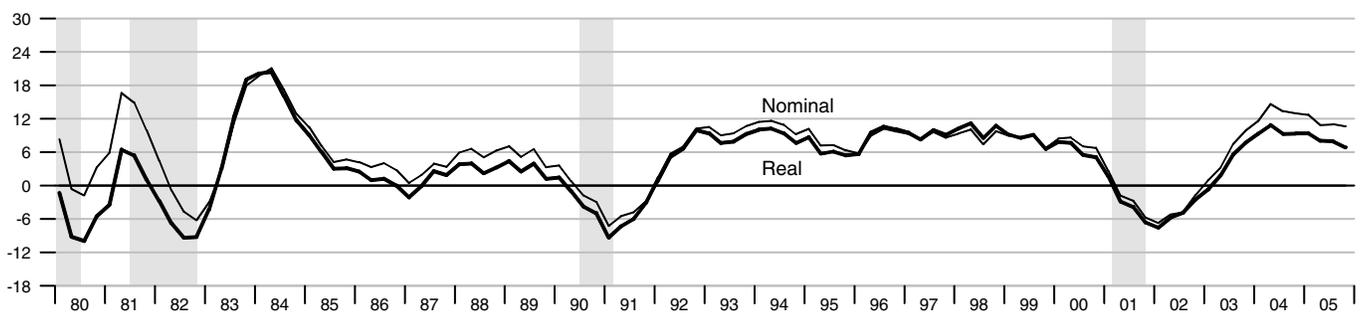
Investment

Percent of nominal GDP



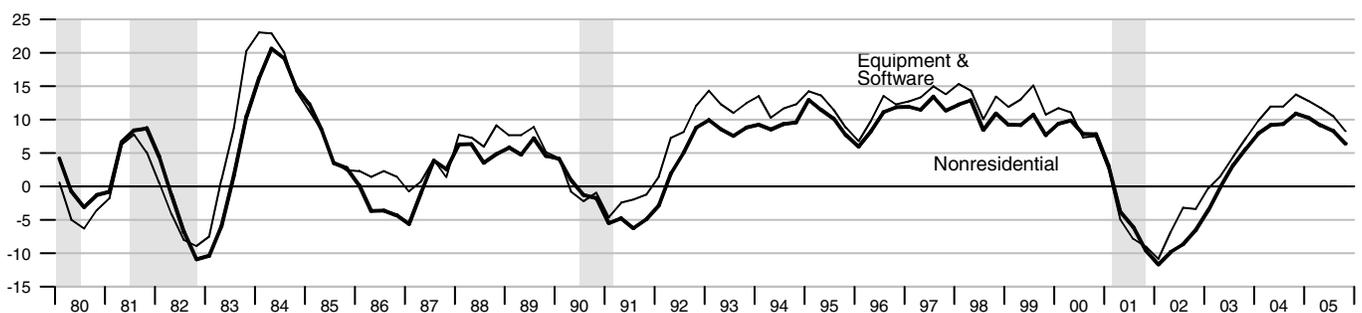
Private Fixed Investment

Percent change from year ago



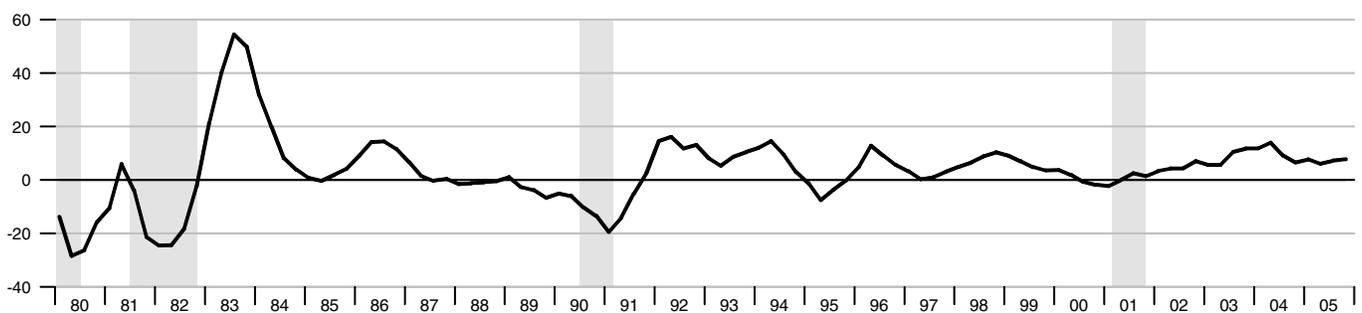
Real Nonresidential Fixed and Equipment & Software Investment

Percent change from year ago

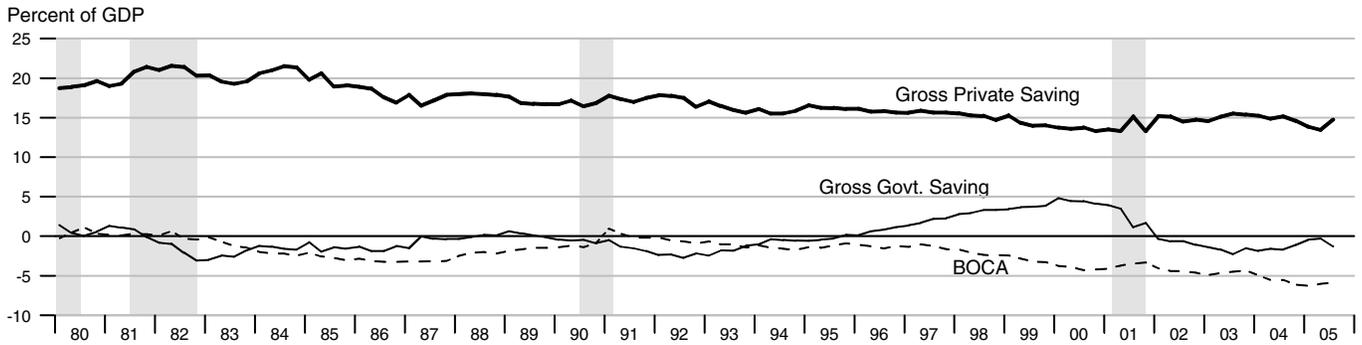


Real Residential Fixed Investment

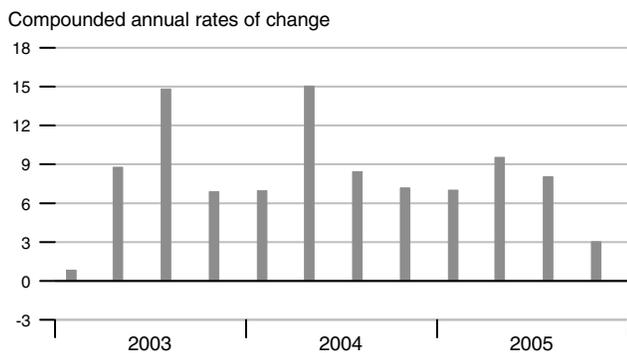
Percent change from year ago



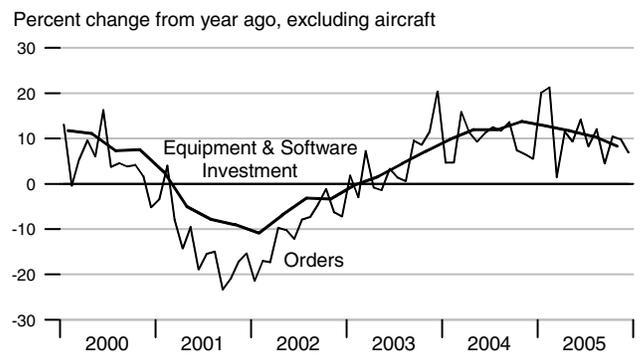
Gross Saving Rates and Balance on Current Account (NIPA)



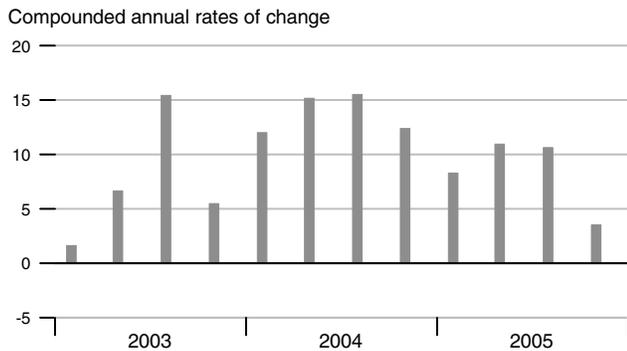
Real Private Fixed Investment



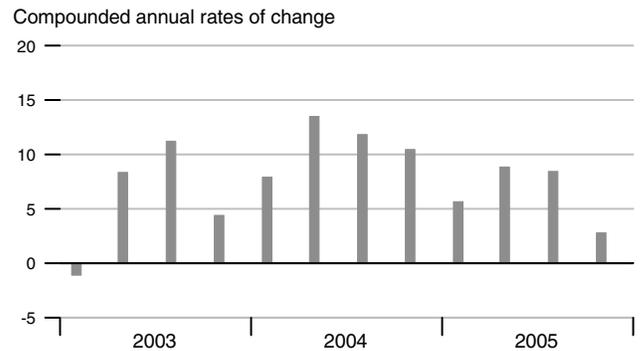
Nondefense Capital Goods Orders



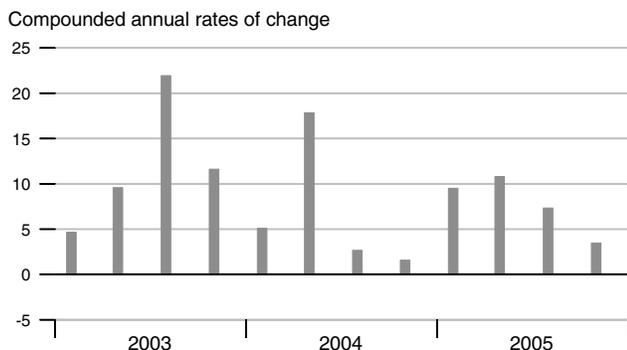
Real Equipment & Software Investment



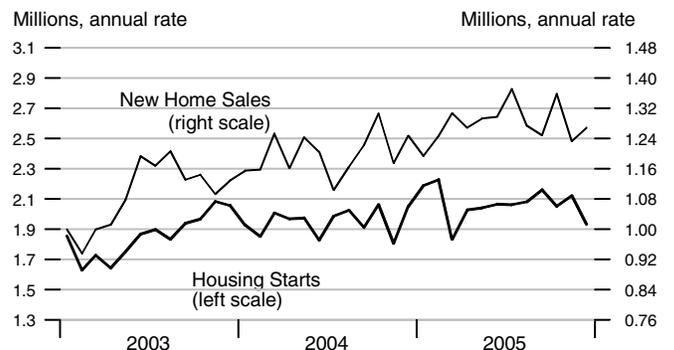
Real Nonresidential Fixed Investment



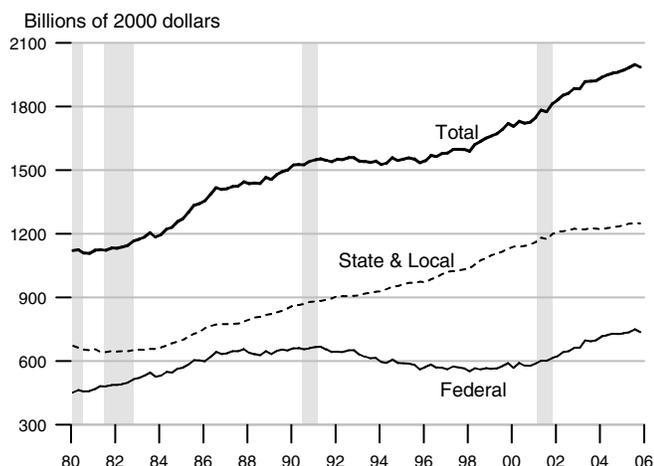
Real Residential Fixed Investment



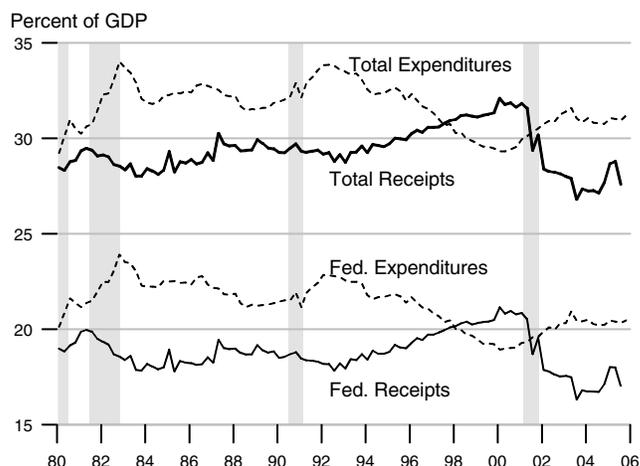
Housing Starts and New Home Sales



Govt. Consumption and Investment



Govt. Current Receipts and Expenditures



Government Budgets

Billions of dollars

National Income Accounts

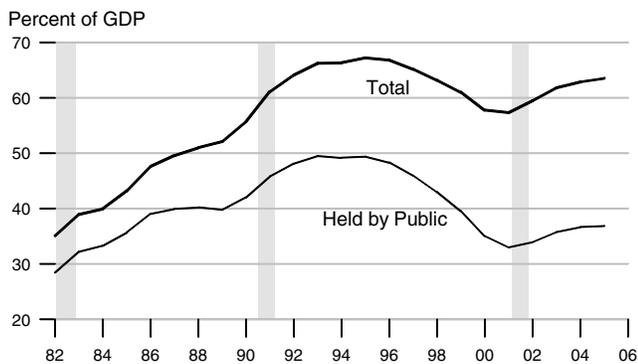
Calendar Years

Unified Budget

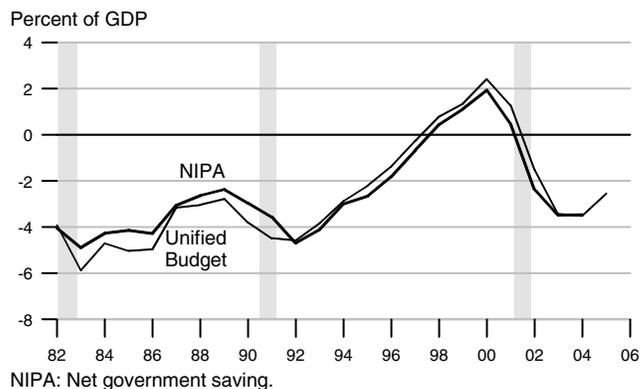
Fiscal Years

	State and Local			Federal			Federal		
	Receipts	Expenditures	Surplus or Deficit (-)	Receipts	Expenditures	Surplus or Deficit (-)	Receipts	Outlays	Surplus or Deficit (-)
1991	789.2	793.3	-4.1	1101.3	1315.0	-213.7	1055.0	1324.3	-269.3
1992	845.7	845.0	0.7	1147.2	1444.6	-297.4	1091.3	1381.6	-290.3
1993	886.9	886.0	0.9	1222.5	1496.0	-273.5	1154.4	1409.5	-255.1
1994	942.9	932.4	10.5	1320.8	1533.1	-212.3	1258.6	1461.9	-203.2
1995	990.2	978.2	12.0	1406.5	1603.5	-197.0	1351.8	1515.8	-164.0
1996	1043.3	1017.5	25.8	1524.0	1665.8	-141.8	1453.1	1560.5	-107.5
1997	1097.4	1058.3	39.1	1653.1	1708.9	-55.8	1579.3	1601.2	-21.9
1998	1163.2	1111.2	52.0	1773.8	1734.9	38.9	1721.8	1652.6	69.2
1999	1236.7	1186.3	50.4	1891.2	1787.6	103.6	1827.5	1701.9	125.5
2000	1319.5	1269.5	50.0	2053.8	1864.4	189.4	2025.2	1789.1	236.2
2001	1373.0	1368.2	4.8	2016.2	1969.5	46.7	1991.2	1863.0	128.2
2002	1410.1	1444.3	-34.2	1853.2	2101.1	-247.9	1853.2	2011.0	-157.8
2003	1488.6	1512.4	-23.8	1868.6	2251.4	-382.8	1782.3	2159.9	-377.6
2004	1581.7	1587.5	-5.8	1974.8	2381.3	-406.5	1880.1	2292.2	-412.1
2005	.	1685.9	.	.	2547.5	.	2154.3	2472.9	-318.6
2003Q4	1539.0	1526.5	12.5	1887.9	2292.9	-405.0	440.8	569.4	-128.7
2004Q1	1546.8	1553.2	-6.4	1917.8	2347.2	-429.4	409.6	580.4	-170.8
2004Q2	1579.7	1581.3	-1.6	1951.4	2364.9	-413.5	549.9	575.6	-25.7
2004Q3	1574.5	1593.8	-19.3	1975.4	2387.0	-411.6	479.5	565.4	-85.9
2004Q4	1625.7	1621.7	4.0	2054.6	2426.2	-371.6	487.2	605.2	-118.1
2005Q1	1656.7	1649.4	7.3	2196.6	2494.9	-298.3	451.8	628.4	-176.6
2005Q2	1694.9	1673.7	21.2	2227.9	2525.2	-297.3	665.2	619.9	45.2
2005Q3	1684.3	1690.8	-6.5	2148.5	2563.7	-415.2	549.2	618.2	-69.0
2005Q4	.	1729.9	.	.	2606.2	.	530.2	649.5	-119.3

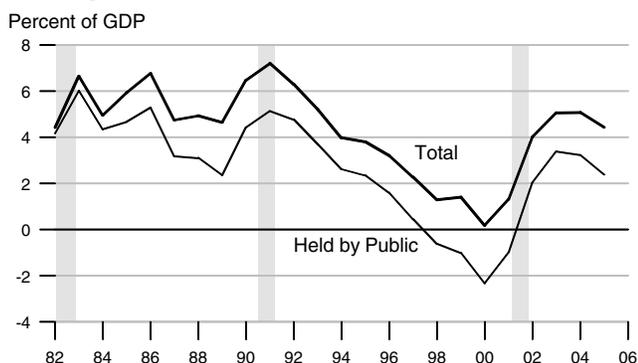
Federal Debt



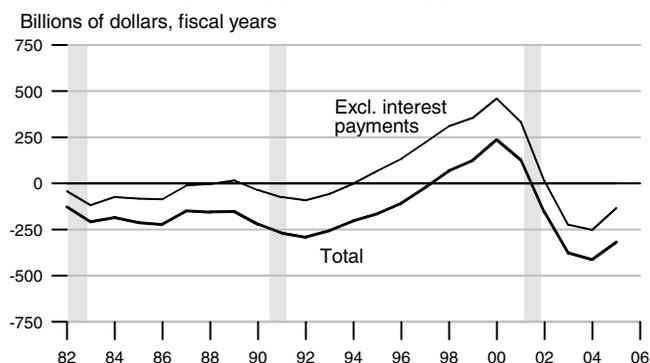
Federal Surplus (+) / Deficit (-)



Change in Federal Debt



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

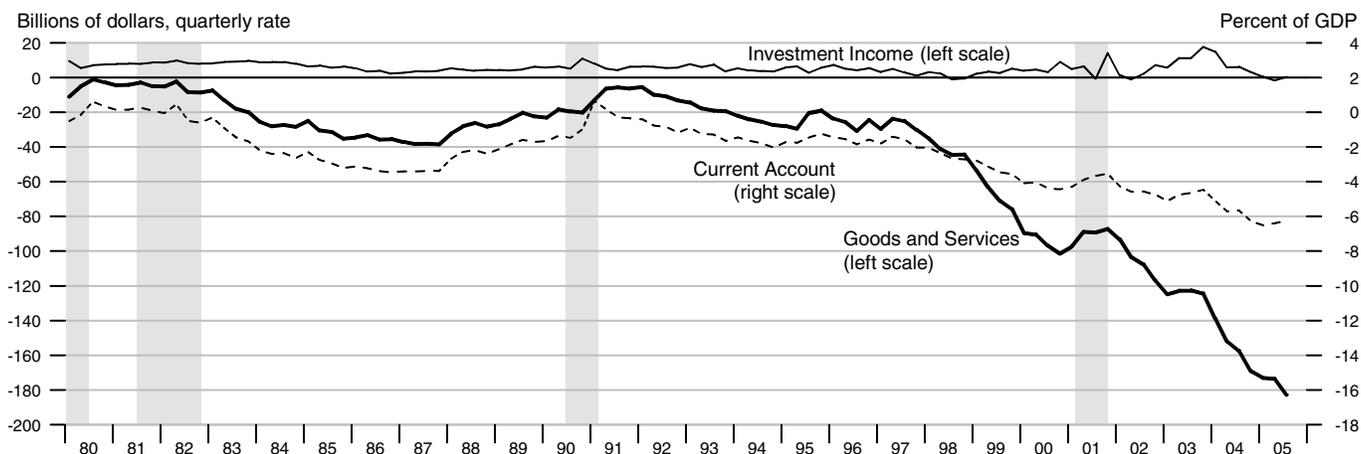


Federal Government Debt

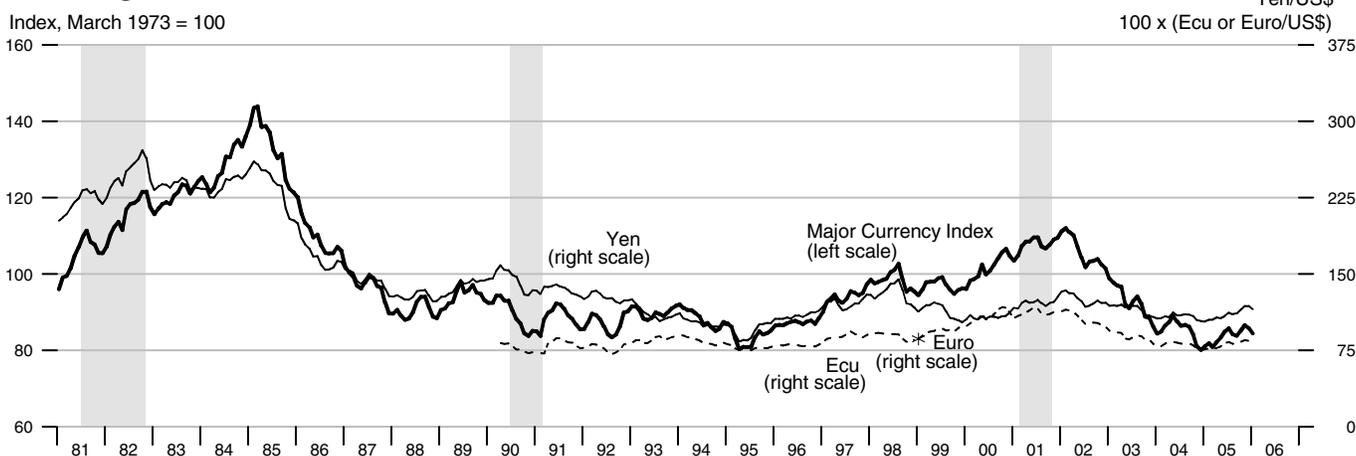
Billions of dollars, end of month or fiscal year
Excludes Agency-issued debt

	Total Public Debt	Held by Agencies and Trusts	Held by Public		Held by Private Investors	
			Total	Federal Reserve Banks	Total	Foreign and International
2003	6783.2	2859.3	3923.9	656.1	3268.0	1454.2
2004	7379.1	3075.7	4303.4	700.3	3607.0	1836.6
2005	7932.7	3331.1	4601.6	736.4	3864.9	2069.0
2002 March	6006.0	2562.4	3443.7	575.4	2849.2	1067.1
June	6126.5	2662.9	3463.5	590.7	2849.8	1135.4
September	6228.2	2675.7	3552.6	604.2	2924.8	1200.8
December	6405.7	2758.3	3647.4	629.4	3018.5	1246.8
2003 March	6460.8	2750.0	3710.8	641.5	3069.9	1286.3
June	6670.1	2853.8	3816.3	652.1	3164.7	1382.8
September	6783.2	2859.3	3923.9	656.1	3268.0	1454.2
December	6998.0	2954.5	4044.1	666.7	3377.9	1533.0
2004 March	7131.1	2954.4	4176.7	674.1	3502.8	1677.1
June	7274.3	3055.6	4218.7	687.4	3531.5	1777.5
September	7379.1	3075.7	4303.4	700.3	3607.0	1836.6
December	7596.1	3189.8	4406.4	717.8	3667.1	1890.7
2005 March	7776.9	3204.5	4572.4	717.3	3855.4	1983.5
June	7836.5	3308.9	4527.6	724.7	3803.0	2016.2
September	7932.7	3331.1	4601.6	736.4	3864.9	2069.0

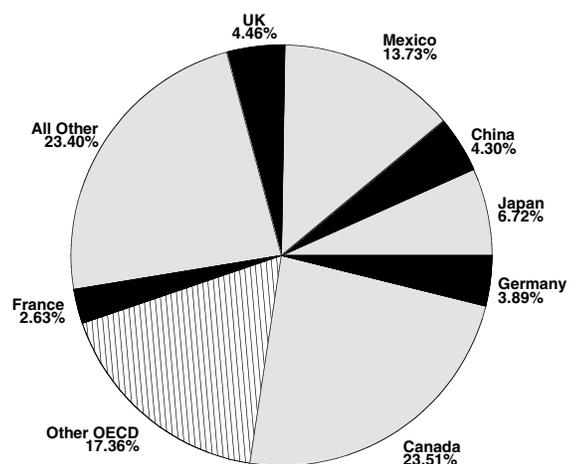
Current Account, Trade and Investment Income Balances



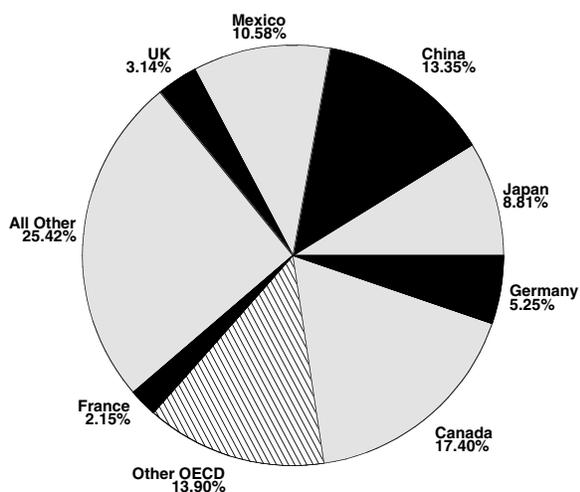
Exchange Rates



Goods Export Shares, 2004



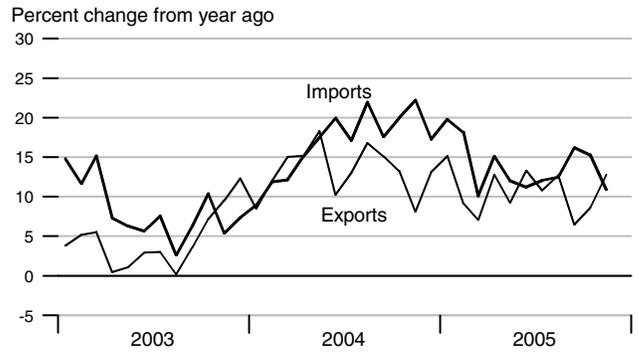
Goods Import Shares, 2004



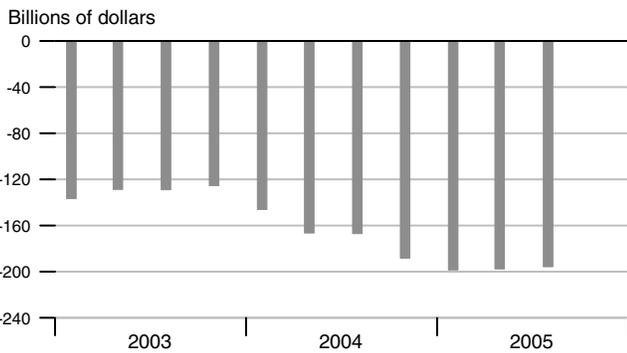
Trade Balance



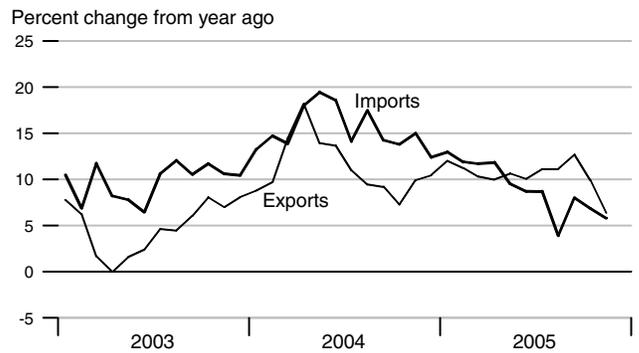
Goods Trade



Current Account Balance



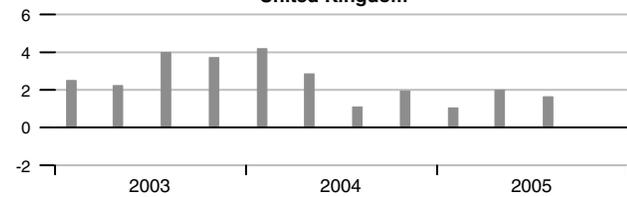
Services Trade



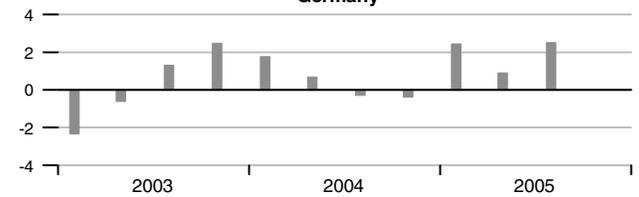
Real GDP Growth of Major Trading Partners

Compounded annual rates of change

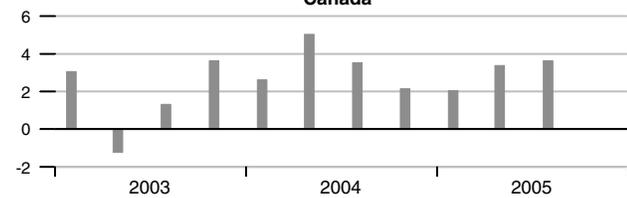
United Kingdom



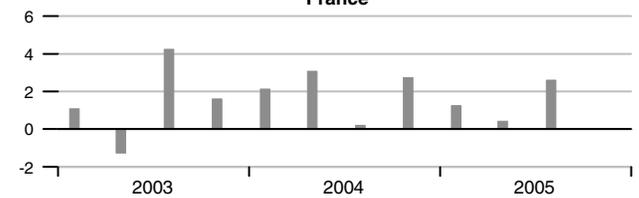
Germany



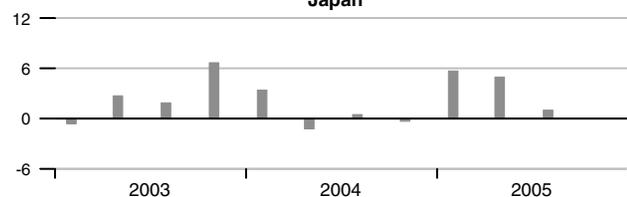
Canada



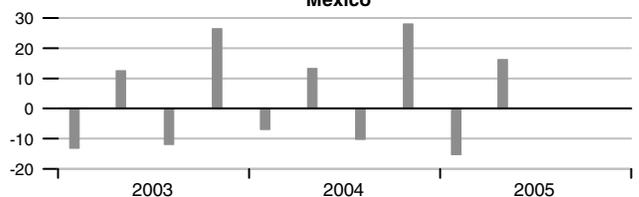
France



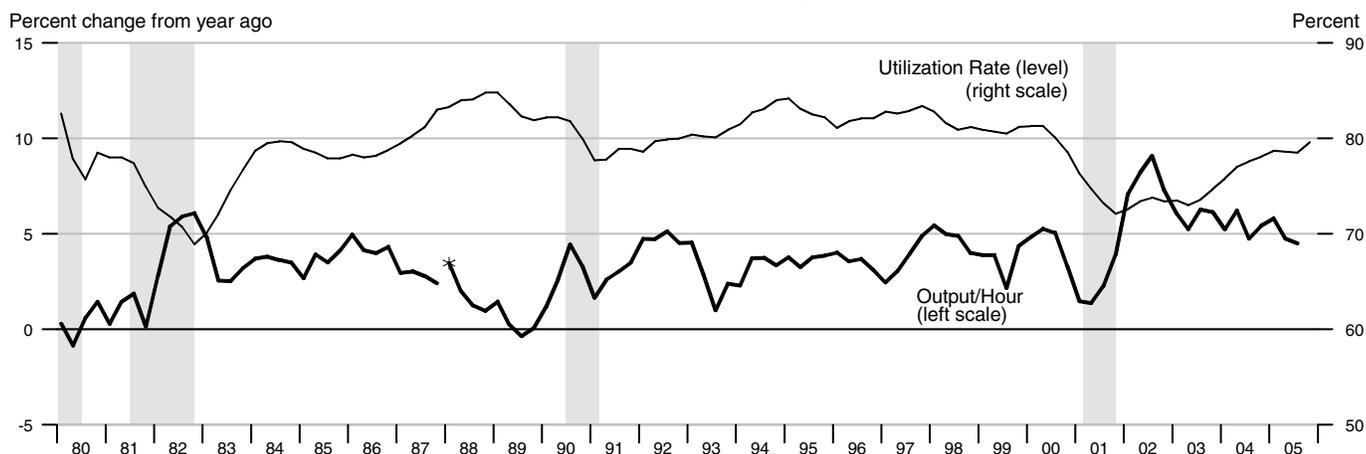
Japan



Mexico

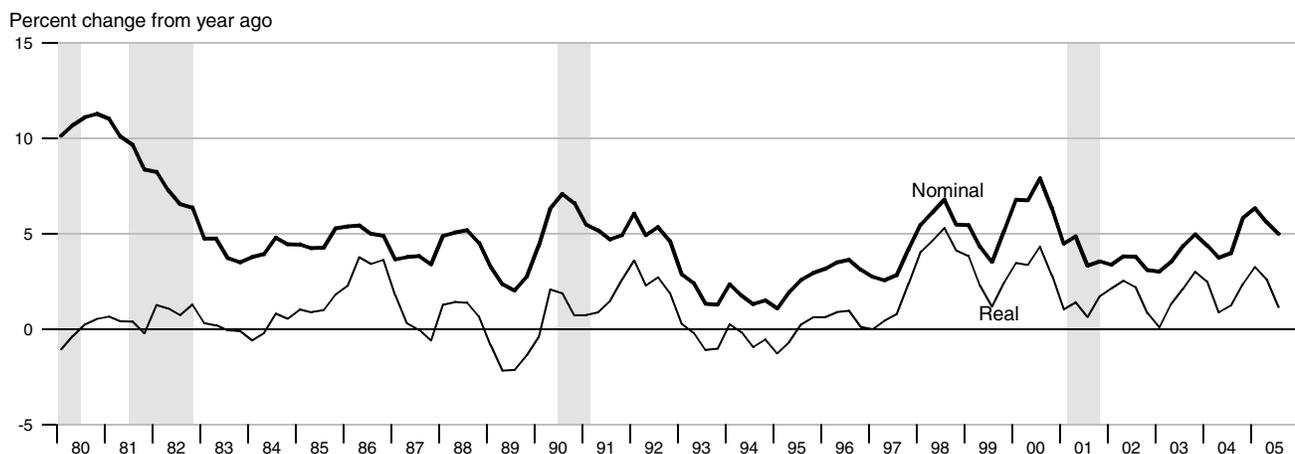


Output per Hour and Capacity Utilization, Manufacturing

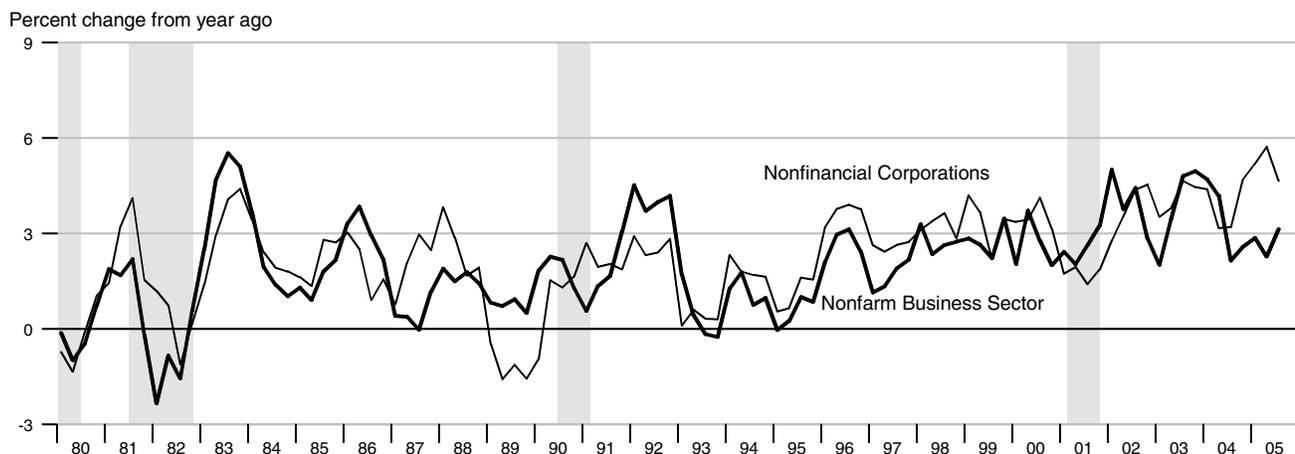


*Data from 1987 to the present are on a NAICS basis; data prior to 1987 are on an SIC basis and are not strictly comparable (see End Note).

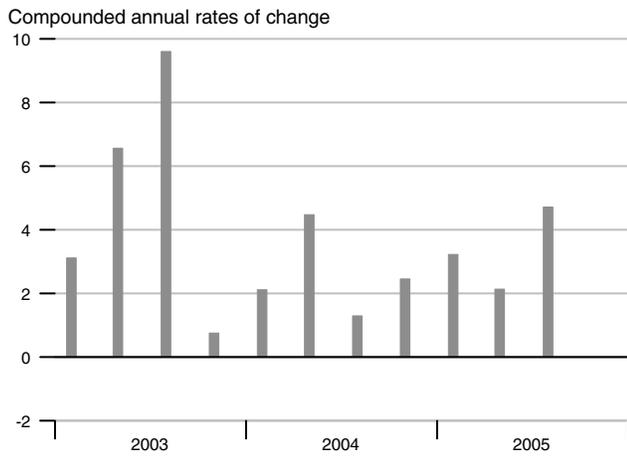
Nonfarm Compensation per Hour



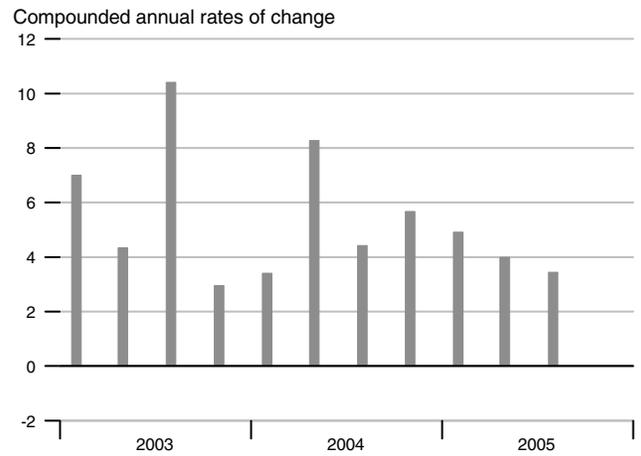
Output per Hour, Nonfarm Business and Nonfinancial Corporations



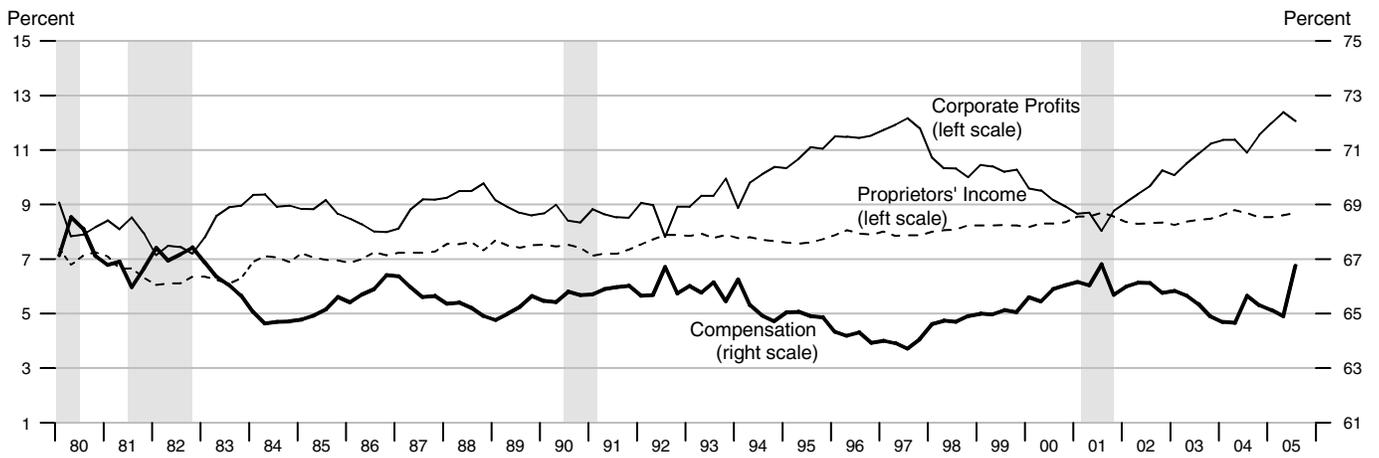
Nonfarm Output per Hour



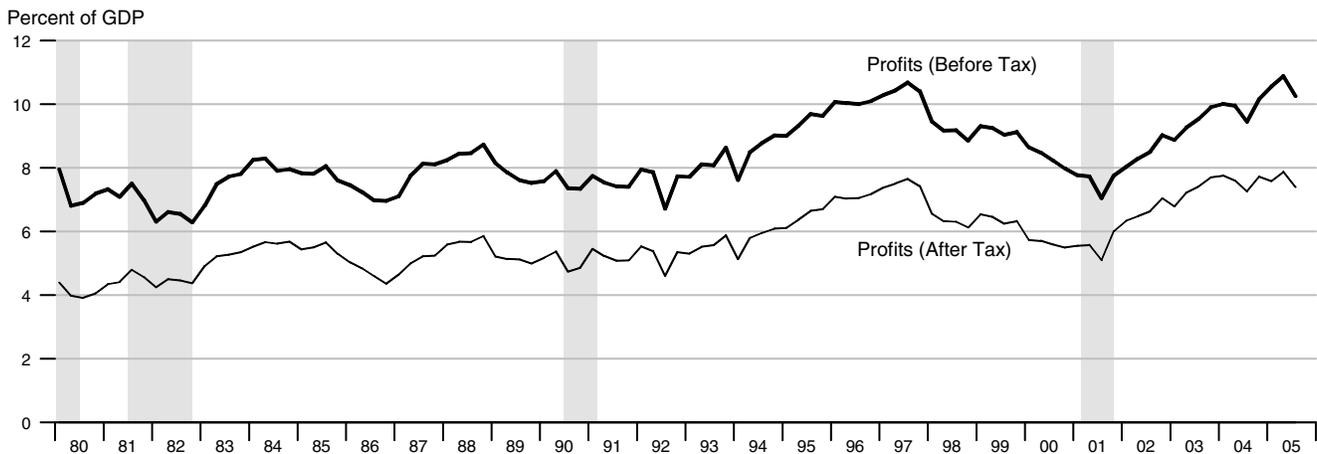
Manufacturing Output per Hour



Selected Component Shares of National Income



Corporate Profits



	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		
2002	10469.6		3.4	10048.846		1.6	10036.504		1.2		12.482	
2003	10971.2		4.8	10320.580		2.7	10303.551		2.7		15.481	
2004	11734.3		7.0	10755.668		4.2	10702.364		3.9		51.983	
2005	12479.4		6.3	11131.068		3.5	11112.231		3.8		17.233	
2002 1	10333.3	4.3	3.1	9977.280	2.7	1.0	9986.823	-0.2	1.0	-10.212	-32.332	
2	10426.6	3.7	2.9	10031.568	2.2	1.3	10028.403	1.7	1.2	2.647	-31.056	
3	10527.4	3.9	3.9	10090.666	2.4	2.2	10063.541	1.4	1.7	28.011	-16.569	
4	10591.1	2.4	3.6	10095.771	0.2	1.9	10067.250	0.1	0.8	29.482	12.482	
2003 1	10717.0	4.8	3.7	10138.573	1.7	1.6	10114.686	1.9	1.3	24.039	21.045	
2	10844.6	4.8	4.0	10230.362	3.7	2.0	10228.200	4.6	2.0	-0.447	20.271	
3	11087.4	9.3	5.3	10410.896	7.2	3.2	10399.496	6.9	3.3	9.330	15.601	
4	11236.0	5.5	6.1	10502.586	3.6	4.0	10471.822	2.8	4.0	29.000	15.481	
2004 1	11457.1	8.1	6.9	10612.536	4.3	4.7	10568.938	3.8	4.5	41.895	19.945	
2	11666.1	7.5	7.6	10704.128	3.5	4.6	10637.359	2.6	4.0	65.588	36.453	
3	11818.8	5.3	6.6	10808.876	4.0	3.8	10757.120	4.6	3.4	50.362	46.711	
4	11995.2	6.1	6.8	10897.130	3.3	3.8	10846.038	3.3	3.6	50.087	51.983	
2005 1	12198.8	7.0	6.5	10999.325	3.8	3.6	10940.325	3.5	3.5	58.165	56.051	
2	12378.0	6.0	6.1	11089.150	3.3	3.6	11089.172	5.6	4.2	-1.687	39.232	
3	12605.7	7.6	6.7	11202.340	4.1	3.6	11214.399	4.6	4.3	-13.291	23.319	
4	12735.3	4.2	6.2	11233.459	1.1	3.1	11205.029	-0.3	3.3	25.745	17.233	
	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
2002	7099.261		2.7	964.784		7.1	1544.608		-5.2	1071.522		-9.2
2003	7306.564		2.9	1028.515		6.6	1600.014		3.6	1085.001		1.3
2004	7588.607		3.9	1089.906		6.0	1755.101		9.7	1186.660		9.4
2005	7858.132		3.6	1137.667		4.4	1896.055		8.0	1287.637		8.5
2002 1	7042.246	1.4	2.8	948.433	-4.2	7.8	1551.458	-6.3	-7.6	1090.250	-12.8	-11.7
2	7083.491	2.4	3.1	956.911	3.6	8.9	1545.934	-1.4	-5.8	1073.334	-6.1	-9.8
3	7123.186	2.3	3.2	983.397	11.5	11.0	1543.214	-0.7	-4.9	1068.048	-2.0	-8.7
4	7148.189	1.4	1.9	970.413	-5.2	1.2	1537.824	-1.4	-2.5	1054.458	-5.0	-6.5
2003 1	7192.197	2.5	2.1	979.072	3.6	3.2	1540.947	0.8	-0.7	1051.612	-1.1	-3.5
2	7256.827	3.6	2.4	1014.028	15.1	6.0	1573.738	8.8	1.8	1072.915	8.4	-0.0
3	7360.681	5.8	3.3	1060.950	19.8	7.9	1628.993	14.8	5.6	1101.758	11.2	3.2
4	7416.416	3.1	3.8	1060.026	-0.3	9.2	1656.343	6.9	7.7	1113.721	4.4	5.6
2004 1	7501.399	4.7	4.3	1071.552	4.4	9.4	1684.399	6.9	9.3	1135.060	7.9	7.9
2	7536.579	1.9	3.9	1072.519	0.4	5.8	1744.540	15.1	10.9	1171.641	13.5	9.2
3	7617.519	4.4	3.5	1100.421	10.8	3.7	1780.168	8.4	9.3	1204.845	11.8	9.4
4	7698.796	4.3	3.8	1115.124	5.5	5.2	1811.279	7.2	9.4	1235.105	10.4	10.9
2005 1	7764.909	3.5	3.5	1122.315	2.6	4.7	1842.206	7.0	9.4	1252.194	5.7	10.3
2	7829.540	3.4	3.9	1143.898	7.9	6.7	1884.684	9.5	8.0	1278.967	8.8	9.2
3	7907.851	4.1	3.8	1169.738	9.3	6.3	1921.471	8.0	7.9	1305.198	8.5	8.3
4	7930.226	1.1	3.0	1114.718	-17.5	-0.0	1935.859	3.0	6.9	1314.192	2.8	6.4

	GDP Chain Price Index			Employment Cost Index			ECI: Wages			ECI: Benefits		
	Index	<u>Percent change</u>		Index	<u>Percent change</u>		Index	<u>Percent change</u>		Index	<u>Percent change</u>	
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago
2002	104.193		1.7	160.9		3.8	156.4		3.3	171.7		4.9
2003	106.310		2.0	167.3		4.0	160.9		2.9	182.5		6.3
2004	109.102		2.6	173.9		3.9	165.0		2.5	195.4		7.1
2005	112.144		2.8	179.2		3.0	168.9		2.4	205.0		4.9
2002 1	103.553	1.7	2.0	158.8	3.3	4.0	154.8	3.7	3.5	168.3	2.7	4.7
2	103.944	1.5	1.6	160.5	4.4	4.1	156.2	3.7	3.6	170.6	5.6	5.0
3	104.347	1.6	1.6	161.5	2.5	3.7	156.9	1.8	3.2	172.7	5.0	4.9
4	104.926	2.2	1.7	162.8	3.3	3.4	157.7	2.1	2.8	175.2	5.9	4.8
2003 1	105.724	3.1	2.1	165.0	5.5	3.9	159.3	4.1	2.9	178.5	7.7	6.1
2	106.019	1.1	2.0	166.4	3.4	3.7	160.3	2.5	2.6	180.9	5.5	6.0
3	106.500	1.8	2.1	168.2	4.4	4.1	161.6	3.3	3.0	183.9	6.8	6.5
4	106.996	1.9	2.0	169.6	3.4	4.2	162.5	2.2	3.0	186.7	6.2	6.6
2004 1	107.951	3.6	2.1	171.5	4.6	3.9	163.5	2.5	2.6	190.9	9.3	6.9
2	108.976	3.9	2.8	173.1	3.8	4.0	164.5	2.5	2.6	194.1	6.9	7.3
3	109.371	1.5	2.7	174.8	4.0	3.9	165.7	3.0	2.5	196.7	5.5	7.0
4	110.111	2.7	2.9	176.2	3.2	3.9	166.4	1.7	2.4	199.9	6.7	7.1
2005 1	110.950	3.1	2.8	177.3	2.5	3.4	167.4	2.4	2.4	202.0	4.3	5.8
2	111.655	2.6	2.5	178.4	2.5	3.1	168.4	2.4	2.4	203.6	3.2	4.9
3	112.567	3.3	2.9	179.8	3.2	2.9	169.4	2.4	2.2	206.2	5.2	4.8
4	113.407	3.0	3.0	181.2	3.2	2.8	170.5	2.6	2.5	208.1	3.7	4.1
	Exports			Imports			Nonfarm Output per Hour			Nonfarm Compensation per Hour		
	Billions of 2000 \$	<u>Percent change</u>		Billions of 2000 \$	<u>Percent change</u>		Index	<u>Percent change</u>		Index	<u>Percent change</u>	
		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago		Annual rate	Year ago
2002	1013.293		-2.3	1484.629		3.4	123.262		4.0	144.177		3.5
2003	1031.207		1.8	1552.573		4.6	127.967		3.8	149.908		4.0
2004	1117.879		8.4	1719.187		10.7	132.306		3.4	156.655		4.5
2005	1193.300		6.7	1825.154		6.2						
2002 1	992.760	5.2	-9.5	1434.026	11.7	-4.1	122.460	6.5	5.0	142.712	6.1	3.4
2	1017.986	10.6	-4.0	1476.911	12.5	2.1	122.690	0.8	3.8	144.190	4.2	3.8
3	1025.243	2.9	1.6	1497.409	5.7	6.4	123.921	4.1	4.4	144.836	1.8	3.8
4	1017.174	-3.1	3.8	1530.186	9.0	9.7	123.977	0.2	2.9	144.978	0.4	3.1
2003 1	1009.709	-2.9	1.7	1520.372	-2.5	6.0	124.932	3.1	2.0	147.028	5.8	3.0
2	1004.457	-2.1	-1.3	1532.901	3.3	3.8	126.933	6.6	3.5	149.273	6.2	3.5
3	1032.248	11.5	0.7	1548.412	4.1	3.4	129.879	9.6	4.8	151.153	5.1	4.4
4	1078.445	19.1	6.0	1608.623	16.5	5.1	130.124	0.8	5.0	152.178	2.7	5.0
2004 1	1091.798	5.0	8.1	1654.829	12.0	8.8	130.806	2.1	4.7	153.475	3.5	4.4
2	1110.194	6.9	10.5	1711.867	14.5	11.7	132.246	4.5	4.2	154.869	3.7	3.7
3	1125.027	5.5	9.0	1731.480	4.7	11.8	132.673	1.3	2.2	157.181	6.1	4.0
4	1144.496	7.1	6.1	1778.556	11.3	10.6	133.480	2.5	2.6	161.046	10.2	5.8
2005 1	1165.293	7.5	6.7	1810.728	7.4	9.4	134.543	3.2	2.9	163.199	5.5	6.3
2	1195.353	10.7	7.7	1809.577	-0.3	5.7	135.256	2.1	2.3	163.557	0.9	5.6
3	1202.731	2.5	6.9	1820.202	2.4	5.1	136.824	4.7	3.1	165.042	3.7	5.0
4	1209.824	2.4	5.7	1860.107	9.1	4.6						

		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
2001		136939	39		0.0	131833	41		0.0	102.1			-1.4
2002		136480	-459		-0.3	130345	-1487		-1.1	100.0			-2.0
2003		137731	1251		0.9	129999	-347		-0.3	98.6			-1.4
2004		139244	1513		1.1	131475	1476		1.1	100.3			1.7
2005		141719	2475		1.8	133627	2152		1.6	102.6			2.4
2003	1	137452	813	2.4	1.0	130093	-169	-0.5	-0.3	99.0	-0.4	-1.7	-1.3
	2	137656	204	0.6	0.9	129845	-248	-0.8	-0.4	98.3	-0.8	-3.1	-2.0
	3	137535	-121	-0.4	0.5	129890	45	0.1	-0.3	98.3	0.1	0.3	-1.5
	4	138280	745	2.2	1.2	130168	278	0.9	-0.1	98.8	0.5	2.0	-0.6
2004	1	138473	193	0.6	0.7	130541	374	1.2	0.3	99.3	0.5	2.0	0.3
	2	138894	421	1.2	0.9	131325	784	2.4	1.1	100.0	0.6	2.6	1.7
	3	139548	654	1.9	1.5	131731	406	1.2	1.4	100.6	0.6	2.4	2.3
	4	140059	511	1.5	1.3	132302	571	1.7	1.6	101.2	0.6	2.4	2.4
2005	1	140373	314	0.9	1.4	132814	512	1.6	1.7	101.7	0.6	2.3	2.4
	2	141506	1132	3.3	1.9	133429	616	1.9	1.6	102.4	0.7	2.8	2.5
	3	142324	818	2.3	2.0	133969	540	1.6	1.7	103.0	0.5	2.1	2.4
	4	142672	348	1.0	1.9	134294	325	1.0	1.5	103.4	0.5	1.8	2.2
2003	Dec	138400	-53	-0.5	1.5	130255	83	0.8	0.1	98.6	-0.5	-5.9	-0.7
2004	Jan	138472	72	0.6	0.8	130372	117	1.1	0.1	99.3	0.7	8.9	0.0
	Feb	138495	23	0.2	0.7	130466	94	0.9	0.3	99.4	0.1	1.2	0.5
	Mar	138452	-43	-0.4	0.7	130786	320	3.0	0.7	99.3	-0.1	-1.2	0.4
	Apr	138659	207	1.8	0.7	131123	337	3.1	1.0	99.7	0.4	4.9	1.4
	May	138843	184	1.6	0.9	131373	250	2.3	1.2	100.3	0.6	7.5	2.1
	Jun	139181	338	3.0	1.0	131479	106	1.0	1.3	99.9	-0.4	-4.7	1.6
	Jul	139591	410	3.6	1.5	131562	83	0.8	1.3	100.3	0.4	4.9	2.0
	Aug	139558	-33	-0.3	1.5	131750	188	1.7	1.5	100.5	0.2	2.4	2.2
	Sep	139495	-63	-0.5	1.4	131880	130	1.2	1.5	100.9	0.4	4.9	2.5
	Oct	139768	273	2.4	1.3	132162	282	2.6	1.6	101.2	0.3	3.6	2.4
	Nov	140276	508	4.4	1.3	132294	132	1.2	1.6	101.1	-0.1	-1.2	2.0
	Dec	140133	-143	-1.2	1.3	132449	155	1.4	1.7	101.2	0.1	1.2	2.6
2005	Jan	140234	101	0.9	1.3	132573	124	1.1	1.7	101.5	0.3	3.6	2.2
	Feb	140285	51	0.4	1.3	132873	300	2.7	1.8	101.8	0.3	3.6	2.4
	Mar	140601	316	2.7	1.6	132995	122	1.1	1.7	101.9	0.1	1.2	2.6
	Apr	141196	595	5.2	1.8	133287	292	2.7	1.7	102.5	0.6	7.3	2.8
	May	141571	375	3.2	2.0	133413	126	1.1	1.6	102.3	-0.2	-2.3	2.0
	Jun	141750	179	1.5	1.8	133588	175	1.6	1.6	102.5	0.2	2.4	2.6
	Jul	142111	361	3.1	1.8	133865	277	2.5	1.8	102.8	0.3	3.6	2.5
	Aug	142425	314	2.7	2.1	134013	148	1.3	1.7	102.9	0.1	1.2	2.4
	Sep	142435	10	0.1	2.1	134030	17	0.2	1.6	103.2	0.3	3.6	2.3
	Oct	142625	190	1.6	2.0	134055	25	0.2	1.4	103.3	0.1	1.2	2.1
	Nov	142611	-14	-0.1	1.7	134360	305	2.8	1.6	103.6	0.3	3.5	2.5
	Dec	142779	168	1.4	1.9	134468	108	1.0	1.5	103.4	-0.2	-2.3	2.2

		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
2001		4.7	3388.094			3.2	99.878			-3.5	3.39	5.02
2002		5.8	3474.391			2.5	100.000			0.1	1.60	4.61
2003		6.0	3623.849			4.3	100.624			0.6	1.01	4.02
2004		5.5	3888.501			7.3	104.725			4.1	1.37	4.27
2005		5.1	4183.783			7.6	107.970			3.1	3.15	4.29
2003	1	5.9	884.854	0.9	3.8	3.3	100.493	0.2	0.8	1.7	1.16	3.92
	2	6.1	895.092	1.2	4.7	3.3	99.653	-0.8	-3.3	-0.6	1.04	3.62
	3	6.1	919.020	2.7	11.1	5.0	100.548	0.9	3.6	-0.1	0.93	4.23
	4	5.9	924.883	0.6	2.6	5.5	101.804	1.2	5.1	1.5	0.92	4.29
2004	1	5.7	946.761	2.4	9.8	7.0	103.129	1.3	5.3	2.6	0.92	4.02
	2	5.6	961.468	1.6	6.4	7.4	104.446	1.3	5.2	4.8	1.08	4.60
	3	5.4	978.062	1.7	7.1	6.4	105.125	0.7	2.6	4.6	1.49	4.30
	4	5.4	1002.210	2.5	10.2	8.4	106.200	1.0	4.2	4.3	2.01	4.17
2005	1	5.2	1015.851	1.4	5.6	7.3	107.207	0.9	3.8	4.0	2.54	4.30
	2	5.1	1042.334	2.6	10.8	8.4	107.636	0.4	1.6	3.1	2.86	4.16
	3	5.0	1059.829	1.7	6.9	8.4	108.007	0.3	1.4	2.7	3.36	4.21
	4	4.9	1065.769	0.6	2.3	6.3	109.029	0.9	3.8	2.7	3.83	4.49
2004	Jan	5.7	311.973	0.9	12.0	5.4	102.679	0.4	5.1	2.1	0.88	4.15
	Feb	5.6	313.973	0.6	8.0	7.7	103.498	0.8	10.0	2.9	0.93	4.08
	Mar	5.7	320.815	2.2	29.5	7.9	103.211	-0.3	-3.3	2.8	0.94	3.83
	Apr	5.5	317.103	-1.2	-13.0	6.7	104.004	0.8	9.6	4.4	0.94	4.35
	May	5.6	324.439	2.3	31.6	9.4	104.956	0.9	11.6	5.4	1.02	4.72
	Jun	5.6	319.926	-1.4	-15.5	6.2	104.377	-0.6	-6.4	4.6	1.27	4.73
	Jul	5.5	323.929	1.3	16.1	6.6	104.995	0.6	7.3	4.7	1.33	4.50
	Aug	5.4	324.257	0.1	1.2	5.0	105.317	0.3	3.7	4.9	1.48	4.28
	Sep	5.4	329.876	1.7	22.9	7.7	105.062	-0.2	-2.9	4.0	1.65	4.13
	Oct	5.4	332.904	0.9	11.6	8.8	105.823	0.7	9.0	4.7	1.76	4.10
	Nov	5.4	332.874	-0.0	-0.1	7.4	106.035	0.2	2.4	3.9	2.07	4.19
	Dec	5.4	336.432	1.1	13.6	8.9	106.743	0.7	8.3	4.4	2.19	4.23
2005	Jan	5.2	336.785	0.1	1.3	8.0	106.948	0.2	2.3	4.2	2.33	4.22
	Feb	5.4	338.991	0.7	8.1	8.0	107.361	0.4	4.7	3.7	2.54	4.17
	Mar	5.1	340.075	0.3	3.9	6.0	107.312	-0.0	-0.5	4.0	2.74	4.50
	Apr	5.1	346.081	1.8	23.4	9.1	107.184	-0.1	-1.4	3.1	2.78	4.34
	May	5.1	344.933	-0.3	-3.9	6.3	107.434	0.2	2.8	2.4	2.84	4.14
	Jun	5.0	351.320	1.9	24.6	9.8	108.290	0.8	10.0	3.7	2.97	4.00
	Jul	5.0	357.285	1.7	22.4	10.3	108.273	-0.0	-0.2	3.1	3.22	4.18
	Aug	4.9	350.742	-1.8	-19.9	8.2	108.587	0.3	3.5	3.1	3.44	4.26
	Sep	5.1	351.802	0.3	3.7	6.6	107.160	-1.3	-14.7	2.0	3.42	4.20
	Oct	4.9	352.541	0.2	2.6	5.9	108.237	1.0	12.7	2.3	3.71	4.46
	Nov	5.0	355.387	0.8	10.1	6.8	109.089	0.8	9.9	2.9	3.88	4.54
	Dec	4.9	357.841	0.7	8.6	6.4	109.762	0.6	7.7	2.8	3.89	4.47
2006	Jan										4.24	4.42

		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	
2001		177.1			2.8	186.1			2.7		140.7			1.9	
2002		179.8			1.6	190.4			2.3		138.9			-1.3	
2003		184.0			2.3	193.2			1.5		143.3			3.2	
2004		188.9			2.7	196.6			1.8		148.5			3.6	
2005		195.3			3.4	200.9			2.2		155.8			4.9	
2003	1	183.2	1.0	4.2	2.9	4.2	192.4	0.3	1.4	1.8	1.4	142.7	2.0	8.4	3.3
	2	183.4	0.1	0.4	2.2	2.3	192.8	0.2	0.8	1.5	1.1	142.2	-0.4	-1.5	2.5
	3	184.4	0.5	2.2	2.2	2.2	193.6	0.4	1.6	1.3	1.3	143.5	0.9	3.8	3.4
	4	184.8	0.2	0.9	1.9	1.9	194.1	0.3	1.0	1.2	1.2	144.9	1.0	4.0	3.6
2004	1	186.6	1.0	3.9	1.8	3.9	195.0	0.5	1.9	1.3	1.9	145.9	0.7	2.8	2.2
	2	188.6	1.1	4.4	2.8	4.2	196.2	0.6	2.6	1.8	2.2	148.0	1.4	5.8	4.1
	3	189.4	0.4	1.6	2.7	3.3	197.1	0.4	1.7	1.8	2.1	148.6	0.4	1.6	3.5
	4	191.0	0.9	3.6	3.4	3.4	198.2	0.6	2.3	2.1	2.1	151.6	2.1	8.5	4.6
2005	1	192.2	0.6	2.4	3.0	2.4	199.5	0.6	2.6	2.3	2.6	152.7	0.7	2.8	4.7
	2	194.1	1.0	4.2	2.9	3.3	200.5	0.5	2.0	2.2	2.3	153.9	0.8	3.3	4.0
	3	196.6	1.3	5.1	3.8	3.9	201.2	0.4	1.5	2.1	2.0	156.8	1.8	7.6	5.5
	4	198.1	0.8	3.2	3.7	3.7	202.4	0.6	2.3	2.1	2.1	159.7	1.9	7.8	5.3
2003	Dec	185.0	0.2	2.6	1.9	1.9	194.2	0.1	1.2	1.1	1.1	145.3	0.5	6.0	4.0
2004	Jan	185.9	0.5	6.0	2.0	6.0	194.6	0.2	2.5	1.2	2.5	145.7	0.3	3.4	3.2
	Feb	186.5	0.3	3.9	1.7	5.0	194.9	0.2	1.9	1.2	2.2	145.6	-0.1	-0.8	2.1
	Mar	187.3	0.4	5.3	1.7	5.1	195.5	0.3	3.8	1.6	2.7	146.4	0.5	6.8	1.5
	Apr	187.7	0.2	2.6	2.3	4.4	195.9	0.2	2.5	1.8	2.6	147.4	0.7	8.5	3.7
	May	188.8	0.6	7.3	3.0	5.0	196.2	0.2	1.9	1.7	2.5	148.3	0.6	7.6	4.7
	Jun	189.3	0.3	3.2	3.2	4.7	196.6	0.2	2.5	1.9	2.5	148.2	-0.1	-0.8	3.9
	Jul	189.2	-0.1	-0.6	2.9	3.9	196.8	0.1	1.2	1.8	2.3	148.3	0.1	0.8	3.9
	Aug	189.3	0.1	0.6	2.7	3.5	196.9	0.1	0.6	1.7	2.1	148.5	0.1	1.6	3.4
	Sep	189.6	0.2	1.9	2.5	3.3	197.5	0.3	3.7	2.0	2.3	148.9	0.3	3.3	3.3
	Oct	190.7	0.6	7.2	3.2	3.7	197.9	0.2	2.5	2.0	2.3	151.1	1.5	19.2	4.4
	Nov	191.2	0.3	3.2	3.6	3.7	198.2	0.2	1.8	2.2	2.2	152.1	0.7	8.2	5.2
	Dec	191.2	0.0	0.0	3.4	3.4	198.5	0.2	1.8	2.2	2.2	151.7	-0.3	-3.1	4.4
2005	Jan	191.3	0.1	0.6	2.9	0.6	198.9	0.2	2.4	2.2	2.4	151.9	0.1	1.6	4.3
	Feb	192.0	0.4	4.5	2.9	2.5	199.4	0.3	3.1	2.3	2.8	152.5	0.4	4.8	4.7
	Mar	193.2	0.6	7.8	3.2	4.3	200.1	0.4	4.3	2.4	3.3	153.7	0.8	9.9	5.0
	Apr	194.2	0.5	6.4	3.5	4.8	200.2	0.0	0.6	2.2	2.6	154.4	0.5	5.6	4.7
	May	194.1	-0.1	-0.6	2.8	3.7	200.5	0.1	1.8	2.2	2.4	153.7	-0.5	-5.3	3.6
	Jun	194.1	0.0	0.0	2.5	3.1	200.7	0.1	1.2	2.1	2.2	153.7	0.0	0.0	3.7
	Jul	195.1	0.5	6.4	3.1	3.5	201.0	0.1	1.8	2.1	2.2	155.2	1.0	12.4	4.7
	Aug	196.1	0.5	6.3	3.6	3.9	201.2	0.1	1.2	2.2	2.0	156.2	0.6	8.0	5.2
	Sep	198.5	1.2	15.7	4.7	5.1	201.4	0.1	1.2	2.0	2.0	158.9	1.7	22.8	6.7
	Oct	198.9	0.2	2.4	4.3	4.9	201.9	0.2	3.0	2.0	2.1	160.0	0.7	8.6	5.9
	Nov	197.8	-0.6	-6.4	3.5	3.8	202.4	0.2	3.0	2.1	2.1	158.9	-0.7	-7.9	4.5
	Dec	197.7	-0.1	-0.6	3.4	3.4	202.8	0.2	2.4	2.2	2.2	160.3	0.9	11.1	5.7

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 2000 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. The 30-year constant maturity series was discontinued by the Treasury Department as of Feb. 18, 2002. **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 May 2003 **Employment Situation**, the establishment survey data for employment, hours, and earnings have been converted from the 1987 SIC system to the 2002 NAICS system. All published NAICS-based labor series have been revised back to at least 1990. For more information see <http://www.bls.gov/ces/>. **Nonfarm Payroll Employment** is counted in a survey of about 400,000 establishments (Current Employment Survey). 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 ($\pm 290,000$) 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/.

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 CCAdj (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 76 percent of the value of GDP in 1996, 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.

NOTE: Most measures of economic activity are now based on the 2002 North American Industry Classification System (NAICS), which replaces the 1987 Standard Industry Classification (SIC) system.

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.

The Conference Board

Help-wanted advertising index.

Organization for Economic Cooperation and Development (OECD)

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