

What Constitutes a High Price of Oil?

Economists have been concerned about oil price shocks since the 1970s and 1980s, when sharp increases in crude oil prices were associated with both declines in real output and increases in inflation in many industrialized countries. A run-up in crude oil prices over the last eighteen months has caused a good deal of concern that a new shock is in the making. A severe enough change in prices might be enough to end the long U.S. expansion and simultaneously raise inflation. But, what would "severe enough" be?

In a previous cover page (NET, April 2000), I argued that the "real" or constant-dollar price of crude oil—the spot crude oil price deflated by the consumer price index—was quite a bit higher in the past, peaking at more than \$75 per barrel (in today's dollars) during the early 1980s, versus a price less than \$30 per barrel as of March 2000. However, one might argue that the very high prices observed during the 1970s and 1980s are irrelevant today. U.S. firms and households

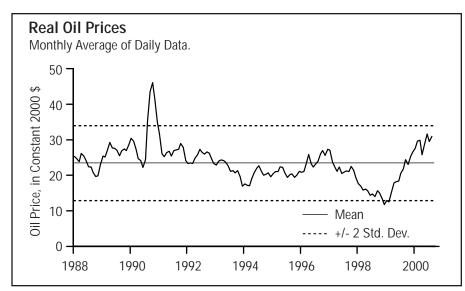
may have become accustomed to the new, lower price of oil that has prevailed over the last decade and a half. If that is the case, then current prices may be moving out of that comfort zone. In particular, businesses and consumers may have become used to the very low crude oil prices associated with the Asian Crisis during 1998. So, are current prices unusual when compared to recent experience? The chart suggests that the answer is "no."

The chart shows the monthly average of the real spot price of a barrel of West Texas Intermediate crude oil from 1988 to the present, in today's dollars. The inflation-adjusted price has fluctuated around a mean of \$23.50, represented by

the flat line through the middle of the data. Of course, the price of oil is determined in a volatile global market, and one way to measure the volatility is to calculate a standard deviation, which is about \$5.24 for these data. The two lines through the top and bottom of the data represent the mean plus or minus two standard deviations, respectively, a rule of thumb that can help us think about what would constitute an "unusually high" oil price. Observed prices outside these bands would be considered very unusual according to the rule of thumb.

According to the chart, there are only two periods of very unusual real crude oil prices during this period. One occurred during 1990-91, when the Gulf War caused prices to spike. The other occurred during 1998, when the Asian Crisis sent prices to very low levels. Current prices, by contrast, do not seem very unusual by this calculation, since they remain well within two standard deviations of the mean. Thus, while the real price of oil has increased substantially, much of the increase represents a return to the mean from very low levels experienced during 1998.

-James Bullard



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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 in the previous year. The *percent change at annual rate* 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 percent change at annual rate of *X* between the previous quarter *t*–1 and the current quarter *t* is:

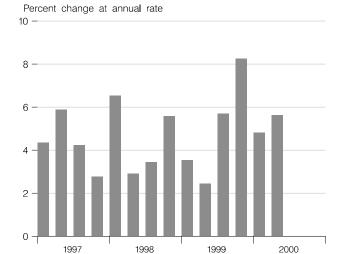
$$100 \times \left[\left(\frac{X_t}{X_{t-1}} \right)^4 - 1 \right]$$

For monthly data replace 4 with 12.

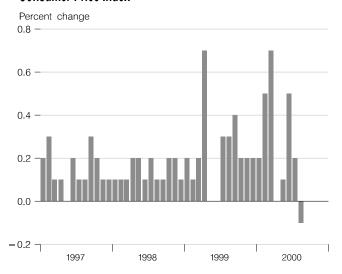
3. All data with significant seasonal patterns are seasonally adjusted, unless labeled NSA.

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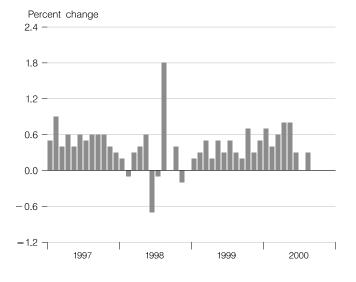
Real GDP Growth



Consumer Price Index



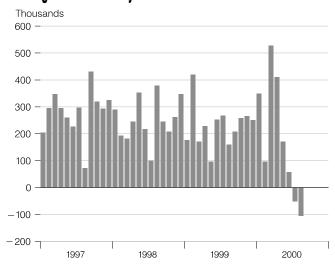
Industrial Production



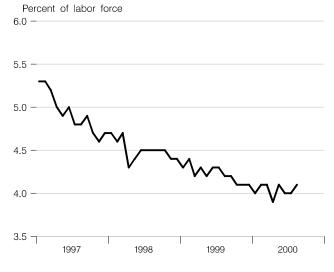
Interest Rates



Change in Nonfarm Payrolls

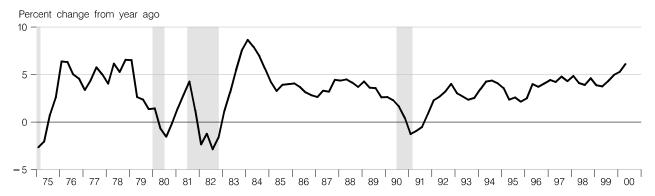


Unemployment Rate



Federal Reserve Bank of St. Louis

Real Gross Domestic Product



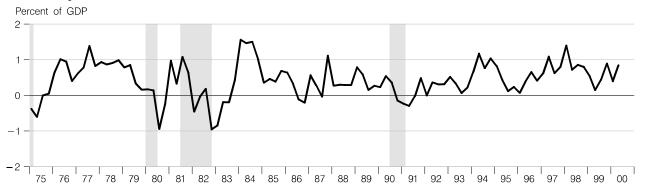
Industrial Production and Purchasing Managers' (NAPM) Indexes



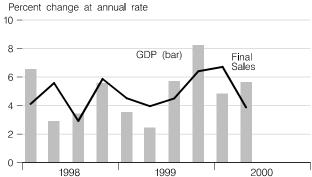
Aggregate Private Nonfarm Hours



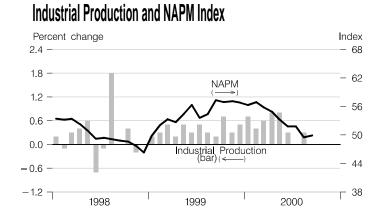
Real Change in Private Inventories



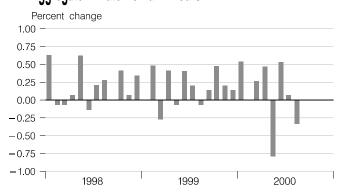
Real Final Sales and GDP



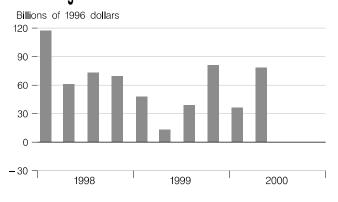
1000



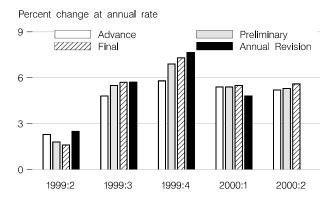
Aggregate Private Nonfarm Hours



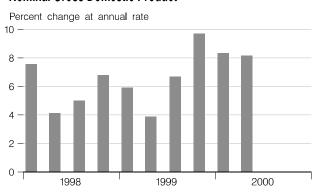
Real Change in Private Inventories



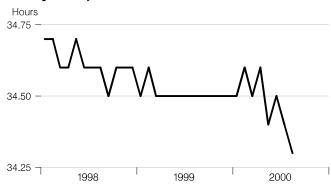
Real GDP Revisions



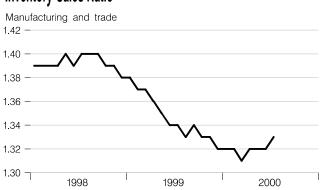
Nominal Gross Domestic Product



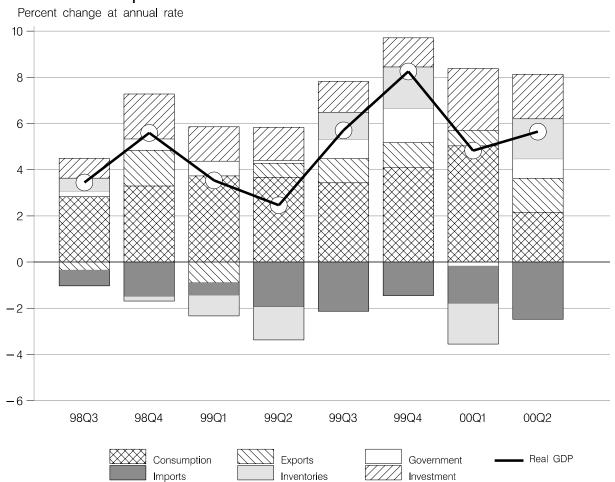
Average Weekly Private Nonfarm Hours



Inventory-Sales Ratio



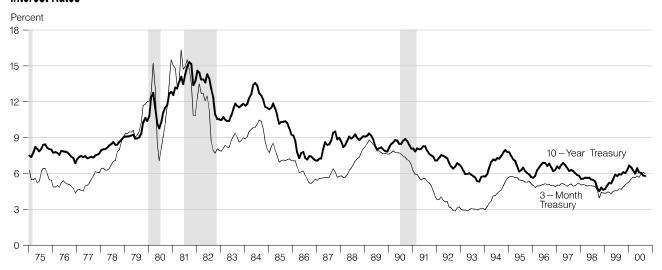
Contribution of Components to Real GDP Growth



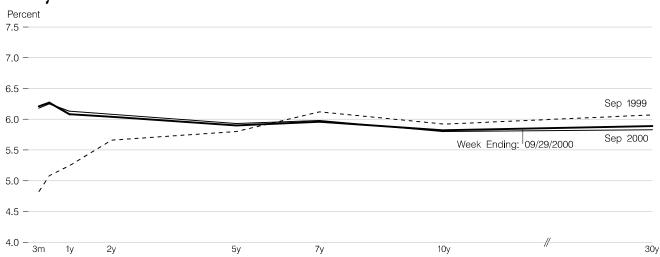
Contributions to Real GDP Growth Rate

	1998		1999				2000	
	3rd	4th	1st	2nd	3rd	4th	1st	2nd
Real GDP	3.45	5.59	3.54	2.46	5.70	8.25	4.83	5.65
Final Sales	2.90	5.79	4.43	3.88	4.53	6.47	6.59	3.92
Change in Inventory	0.55	-0.20	-0.89	-1.42	1.17	1.78	-1.76	1.73
Consumption	2.83	3.29	3.73	3.67	3.43	4.08	5.03	2.14
Fixed Investment Nonresidential	0.86 0.44	1.95 1.58	1.49 1.15	1.43 1.18	1.33 1.47	1.26 1.22	2.68 2.54	1.93 1.87
Residential	0.44	0.37	0.34	0.25	-0.13	0.03	0.14	0.06
Government	0.25	0.50	0.64	0.13	0.84	1.50	-0.18	0.85
Federal	-0.20	0.23	-0.13	0.12	0.41	0.79	-0.93	0.97
State and Local	0.45	0.27	0.78	0.01	0.43	0.71	0.75	-0.12
Net Exports	-1.04	0.05	-1.44	-1.35	-1.08	-0.37	-0.94	-1.00
Exports	-0.35	1.54	-0.89	0.60	1.05	1.09	0.67	1.48
Imports	-0.68	-1.49	-0.55	-1.95	-2.13	-1.45	-1.61	-2.48
Residual	0.06	-0.07	0.16	0.31	0.05	-0.11	0.10	-0.12

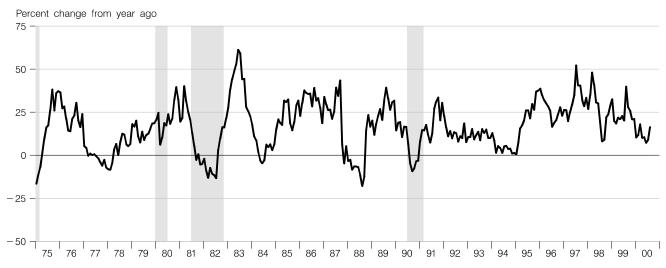
Interest Rates



Treasury Yield Curve

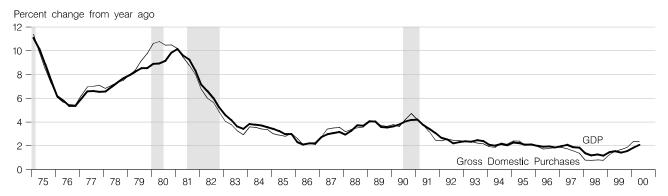


Standard and Poor's 500 Index with Reinvested Dividends

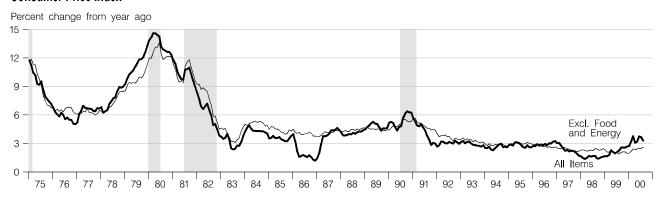


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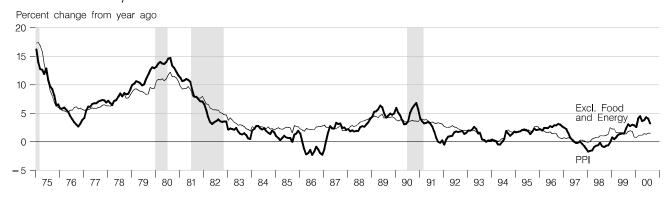
NIPA Chain Price Indexes



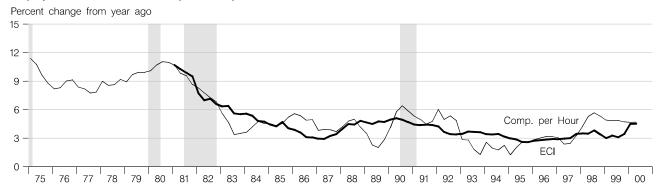
Consumer Price Index



Producer Price Index, Finished Goods

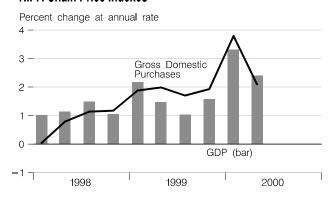


Employment Cost Index and Compensation per Hour



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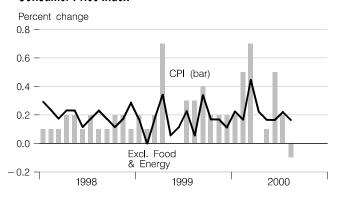
NIPA Chain Price Indexes



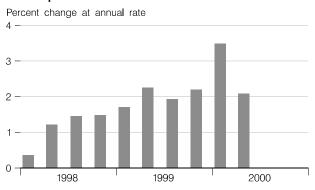
Crude Oil Price



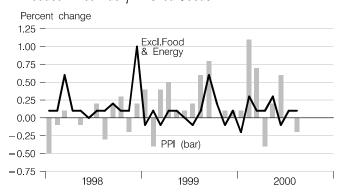
Consumer Price Index



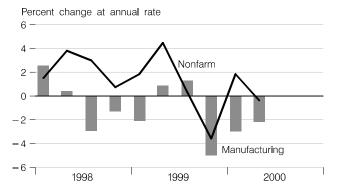
Consumption Chain Price Index



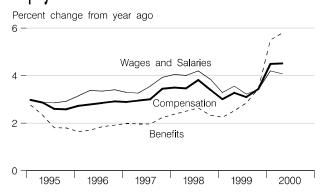
Producer Price Index, Finished Goods



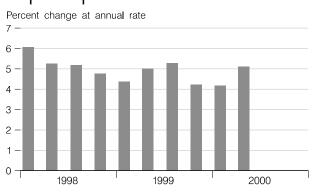
Unit Labor Cost



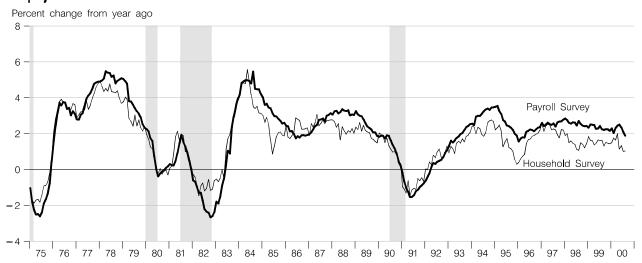
Employment Cost Index



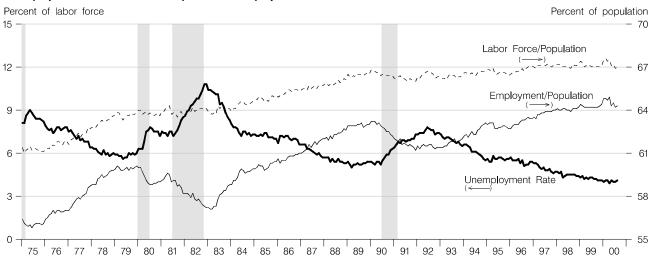
Compensation per Hour



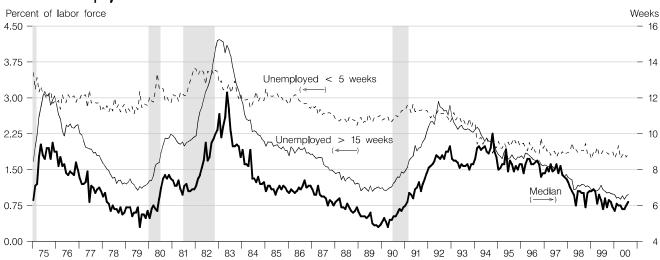
Employment



Unemployment, Labor Force Participation and Employment Rates

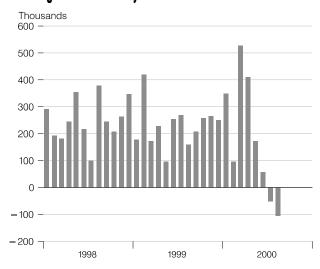


Duration of Unemployment

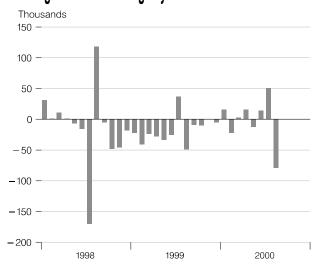


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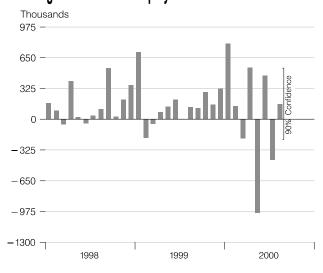
Change in Nonfarm Payrolls



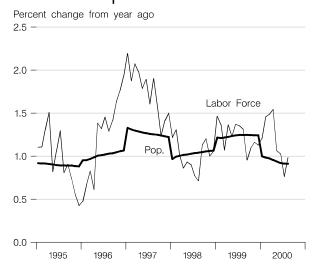
Change in Manufacturing Payrolls



Change in Household Employment



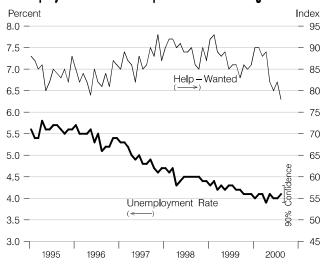
Labor Force and Population



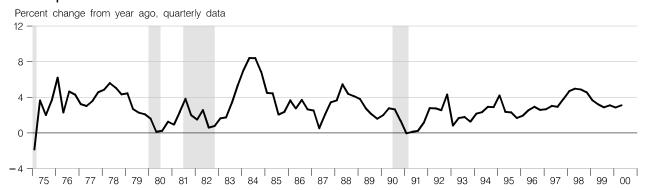
Available Labor Supply and Components



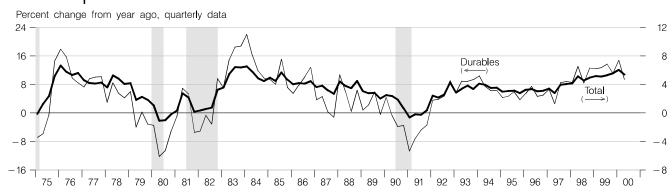
Unemployment Rate and Help-Wanted Advertising Index



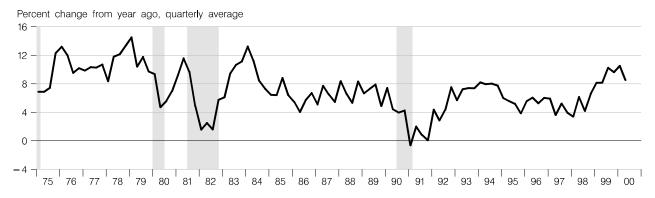
Real Disposable Personal Income



Real Consumption



Retail Sales

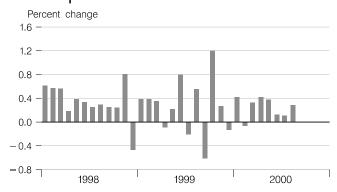


Household Debt Outstanding



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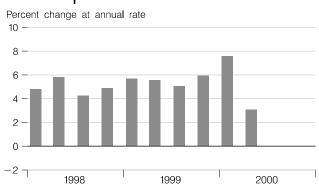
Real Disposable Personal Income



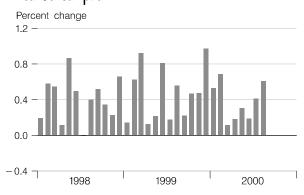
Personal Saving Rate



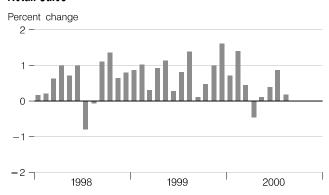
Real Consumption



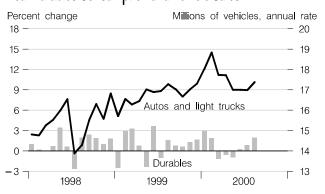
Real Consumption



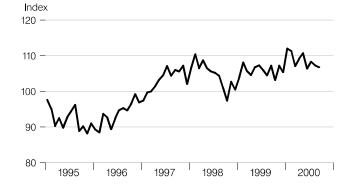
Retail Sales



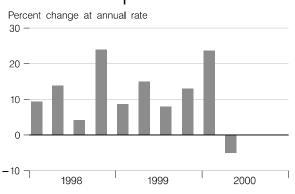
Real Durables Consumption and Vehicle Sales



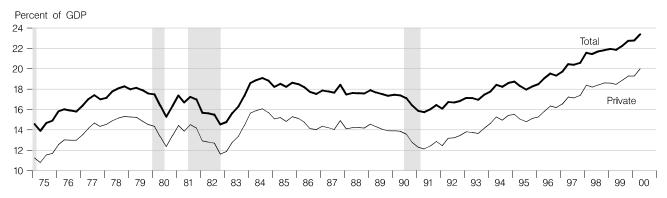
Consumer Sentiment (U. of Michigan)



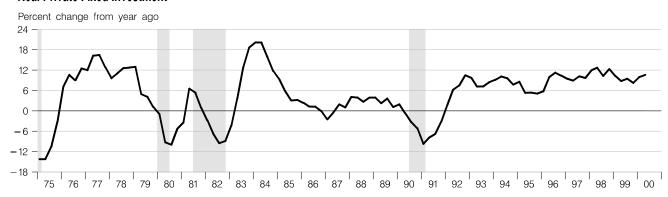
Real Durables Consumption



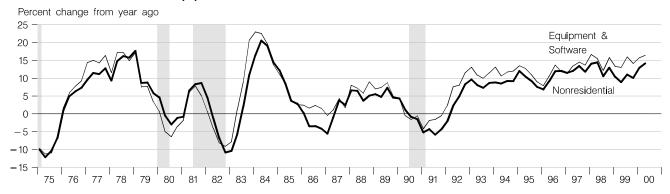
Real Investment



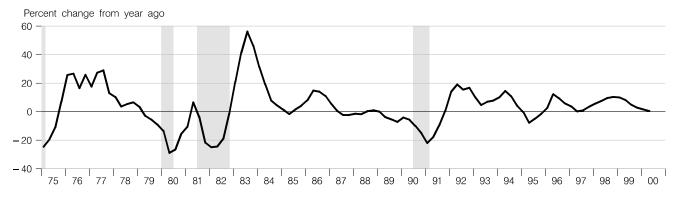
Real Private Fixed Investment



Real Nonresidential Fixed and Equipment & Software Investment

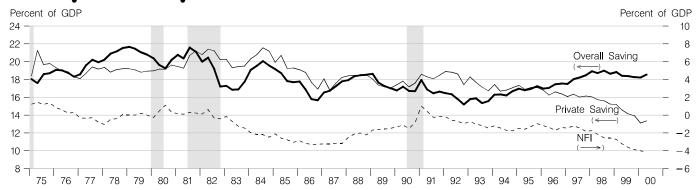


Real Residential Fixed Investment

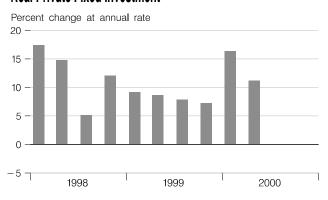


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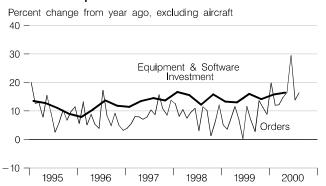
Gross Saving Rates and Net Foreign Investment



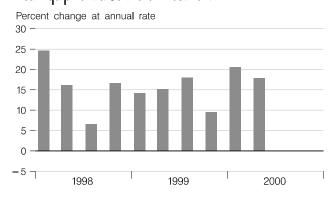
Real Private Fixed Investment



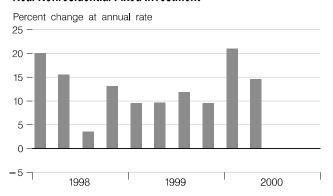
Nondefense Capital Goods Orders



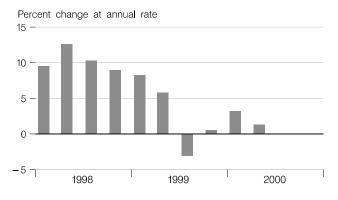
Real Equipment & Software Investment



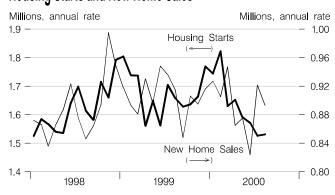
Real Nonresidential Fixed Investment



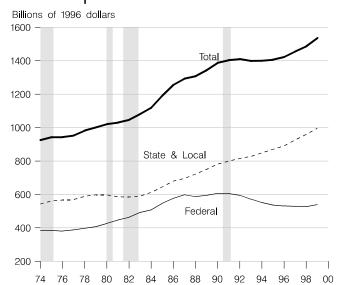
Real Residential Fixed Investment



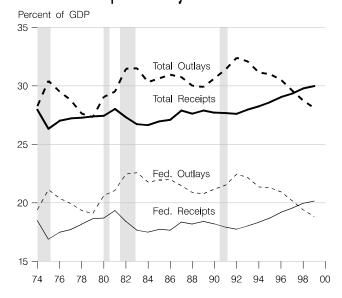
Housing Starts and New Home Sales



Govt. Consumption and Investment



Government Receipts and Outlays



Government Budgets

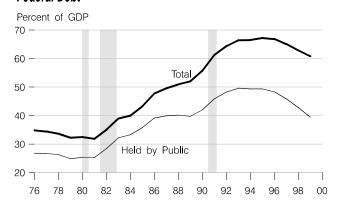
Billions of dollars

National Inco	me Accounts
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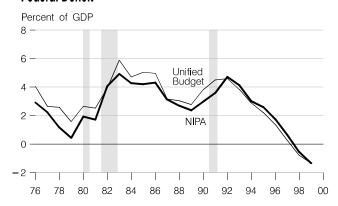
Unified Budget

			Calenda	ar Years			F	iscal Years	
	S	tate and Local			Federal			Federal	
	Receipts	Expenditures	Surplus or Deficit(-)	Receipts	Expenditures	Surplus or Deficit(-)	Receipts	Outlays	Surplus or Deficit(-)
1975	199.6	197.2	2.4	276.1	345.4	-69.3	279.1	332.3	-53.2
1976	224.5	217.2	7.3	318.9	371.9	-53.0	298.1	371.8	-73.7
1977	249.5	236.4	13.1	359.9	405.0	-45.1	355.6	409.2	-53.7
1978	274.3	255.6	18.7	417.3	444.2	-26.9	399.6	458.7	-59.2
1979	290.8	277.8	13.0	478.3	489.6	-11.3	463.3	504.0	-40.7
1980	316.6	307.8	8.8	522.8	576.6	-53.8	517.1	590.9	-73.8
1981	344.4	336.9	7.5	605.6	659.3	-53.7	599.3	678.2	-79.0
1982	360.3	362.5	-2.2	599.5	732.1	-132.6	617.8	745.8	-128.0
1983	392.1	387.3	4.8	623.9	797.8	-173.9	600.6	808.4	-207.8
1984	436.4	412.6	23.8	688.1	856.1	-168.0	666.5	851.9	-185.4
1985	469.2	447.0	22.2	747.4	924.6	-177.2	734.1	946.4	-212.3
1986	507.9	487.2	20.7	786.4	978.5	-192.1	769.2	990.5	-221.2
1987	536.0	523.8	12.2	870.5	1018.4	-147.9	854.4	1004.1	-149.8
1988	573.7	558.1	15.6	928.9	1066.2	-137.3	909.3	1064.5	-155.2
1989	618.9	599.6	19.3	1010.3	1140.3	-130.0	991.2	1143.7	-152.5
1990	663.4	660.8	2.6	1055.7	1228.7	-173.0	1032.0	1253.2	-221.2
1991	716.0	723.8	-7.8	1072.3	1287.6	-215.3	1055.0	1324.4	-269.4
1992	772.2	777.2	-5.0	1121.3	1418.9	-297.6	1091.3	1381.7	-290.4
1993	823.2	821.7	1.5	1197.3	1471.5	-274.2	1154.4	1409.5	-255.1
1994	873.8	865.2	8.6	1293.7	1506.0	-212.3	1258.6	1461.9	-203.3
1995	917.9	902.5	15.4	1383.7	1575.7	-192.0	1351.8	1515.8	-164.0
1996	960.4	939.0	21.4	1499.1	1635.9	-136.8	1453.1	1560.6	-107.5
1997	1011.3	980.3	31.0	1625.5	1678.8	-53.3	1579.3	1601.3	-22.0
1998	1072.3	1030.6	41.7	1754.0	1705.0	49.0	1721.8	1652.6	69.2
1999	1142.7	1092.7	50.0	1874.6	1750.2	124.4	1827.5	1703.0	124.4

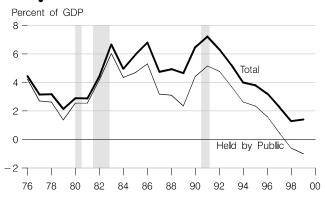
Federal Debt



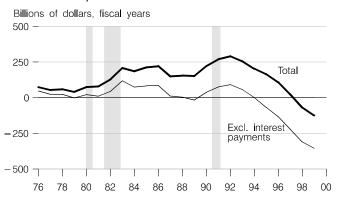
Federal Deficit



Change in Federal Debt



Federal Deficit, Unified Basis

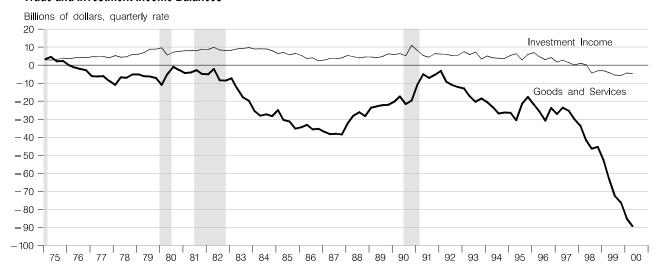


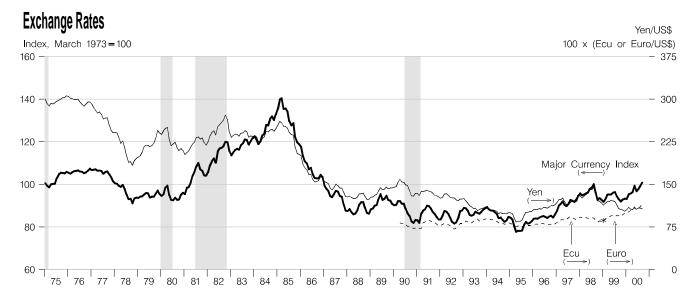
Federal Government Debt

Billions of dollars, end of month or fiscal year, excluding agency-issued debt

excludi	ing agency—issu	dea debi	Held by	Held b	oy Public	Held by Pr	ivate Investors
		Total Public Debt	Agencies and Trusts	Total	Federal Reserve Banks	Total	Foreign and International
1997		5413.1	1598.5	3814.7	436.5	3401.6	1230.5
1998		5526.2	1765.6	3760.6	458.1	3313.2	1224.2
1999		5656.3	1989.1	3667.2	496.5	3175.4	1281.3
1997	March	5380.9	1506.8	3874.1	405.6	3452.2	1157.6
	June	5376.2	1571.6	3804.6	426.4	3377.3	1182.7
	September	5413.1	1598.5	3814.7	436.5	3401.6	1230.5
	December	5502.4	1655.7	3846.7	451.9	3414.6	1241.6
1998	March	5542.4	1670.4	3872.1	400.0	3437.5	1250.5
	June	5547.9	1757.6	3790.4	458.4	3349.3	1256.0
	September	5526.2	1765.6	3760.6	458.1	3313.2	1224.2
	December	5614.2	1826.8	3787.4	471.7	3334.0	1278.7
1999	March	5651.6	1857.1	3794.6	464.5	3327.5	1272.1
	June	5638.8	1953.6	3685.2	493.8	3199.2	1258.6
	September	5656.3	1989.1	3667.2	496.5	3175.4	1281.3
	December	5776.1	2060.6	3715.5	477.7	3233.9	1268.8
2000	March	5773.4	2085.4	3688.0	501.7	3182.8	1274.0
	June	5685.9	NA	NA	505.0	2987.4	1248.9

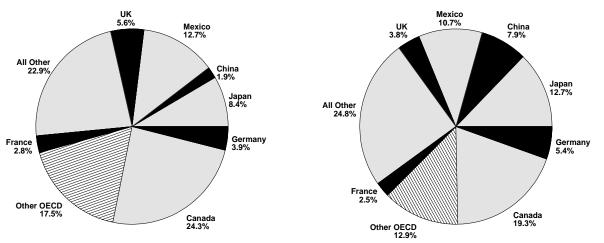
Trade and Investment Income Balances





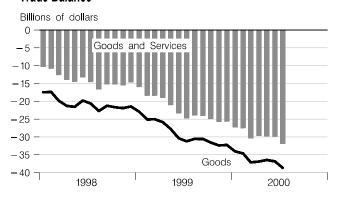
Goods Export Shares, 1999

Goods Import Shares, 1999

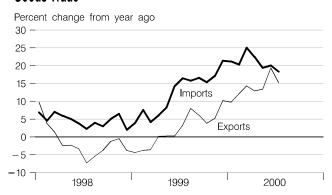


Federal Reserve Bank of St. Louis

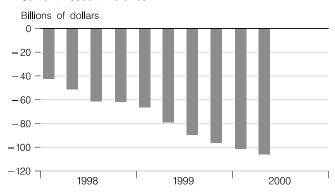
Trade Balance



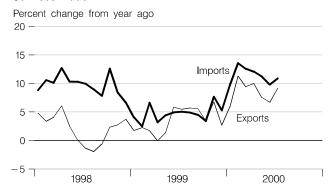
Goods Trade



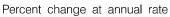
Current Account Balance

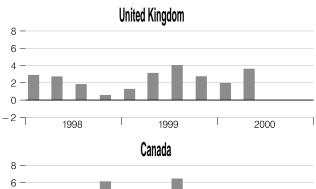


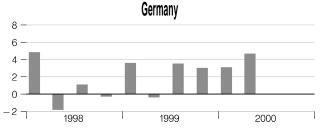
Services Trade

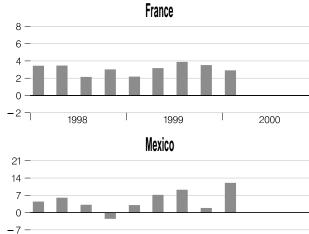


Real GDP Growth of Major Trading Partners



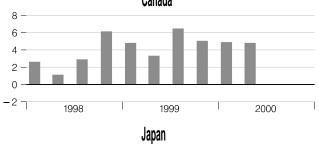


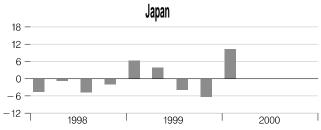




1999

2000

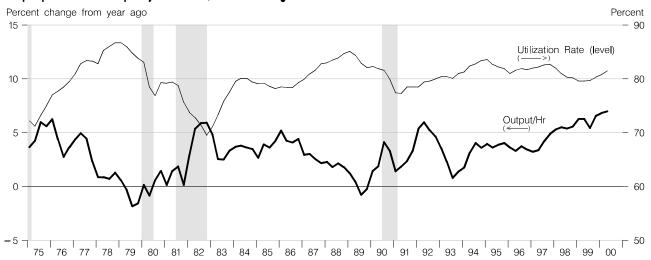




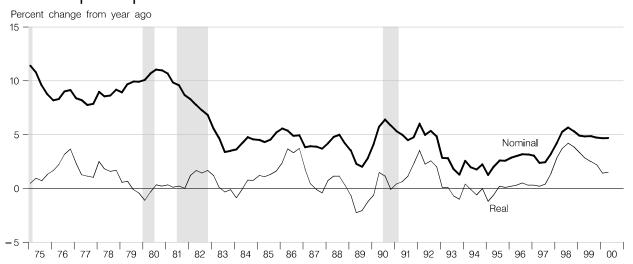
-14 ⊤

1998

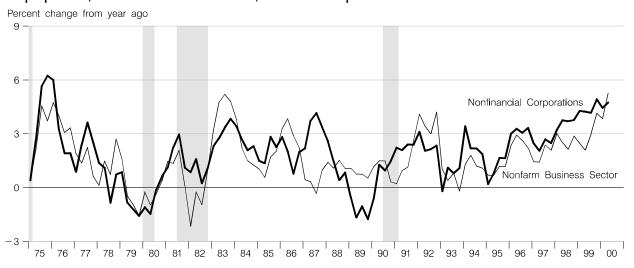
Output per Hour and Capacity Utilization, Manufacturing



Nonfarm Compensation per Hour

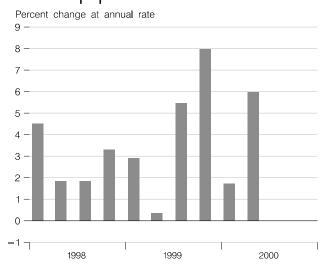


Output per Hour, Nonfarm Business and Nonfarm, Nonfinancial Corporations

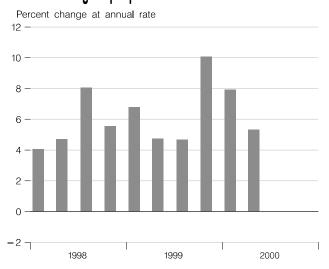


Federal Reserve Bank of St. Louis

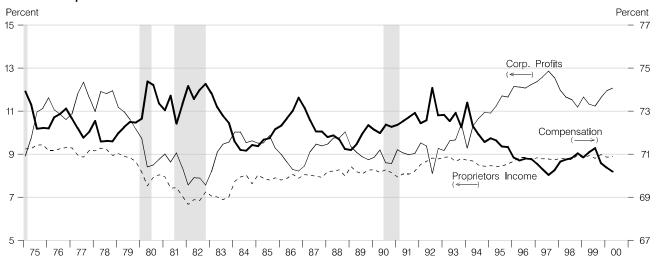
Nonfarm Output per Hour



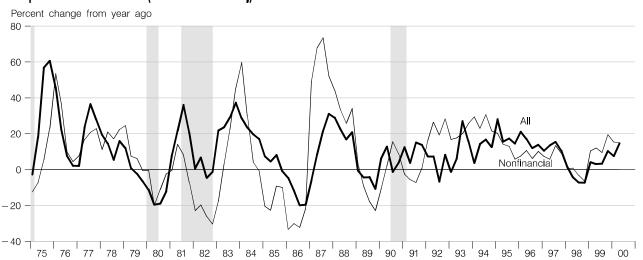
Manufacturing Output per Hour



Selected Component Shares of National Income



Corporate Profits after Tax (with IVA and CCAdj)



Federal Reserve Bank of St. Louis

	1	ninal GDP Percent ch	ange		Real GDP Percent	change		nal Sales Percent o	change	Cha Private Inve	nge in entories	
	Billions	Annual	Year	Billions	Annual	Year	Billions	Annual	Year	Billions	of 1996 \$	<u> </u>
	of \$	rate	ago	of 1996 \$	rate	ago	of 1996 \$	rate	ago	Last qtr	Year/Year	ago
1996	7813.2		5.6	7813.170		3.6	7783.176		3.6		29.99	94
1997	8318.4		6.5	8159.450		4.4	8095.204		4.0		63.75	57
1998	8790.2		5.7	8515.652		4.4	8435.173		4.2		80.16	59
1999	9299.2		5.8	8875.761		4.2	8826.900		4.6		45.28	37
1997 1	8124.2	7.4	6.5	8016.391	4.4	4.4	7966.392	3.5	3.9	49.283	40.91	19
2	8279.8	7.9	6.4	8131.947	5.9	4.2	8043.212	3.9	3.5	88.306	55.42	
3	8390.9	5.5	6.8	8216.564	4.2	4.8	8164.863	6.2	4.8	51.336	55.45	52
4	8478.6	4.2	6.2	8272.897	2.8	4.3	8206.269	2.0	3.9	66.102	63.75	57
1998 1	8634.7	7.6	6.3	8404.861	6.5	4.8	8289.394	4.1	4.1	117.319	80.76	36
2	8722.0	4.1	5.3	8465.570	2.9	4.1	8402.717	5.6	4.5	60.914	73.91	
3	8829.1	5.0	5.2	8537.607	3.4	3.9	8463.426	2.9	3.7	73.069	79.35	
4	8974.9	6.8	5.9	8654.492	5.6	4.6	8584.999	5.9	4.6	69.374	80.16	
1999 1	9104.5	5.9	5.4	8729.967	3.5	3.9	8680.265	4.5	4.7	48.073	62.85	
2	9191.5	3.9	5.4	8783.175	2.5	3.8	8764.868	4.0	4.7	13.101	50.90	
3	9340.9	6.7	5.8	8905.764	5.7	4.3	8861.769	4.5	4.7	39.096	42.41	
4	9559.7	9.7	6.5	9084.060	8.3	5.0	9000.543	6.4	4.8	80.878	45.28	
2000 1										**************************************		
2000 1	9752.7 9945.7	8.3 8.2	7.1 8.2	9191.804 9318.924	4.8 5.6	5.3 6.1	9148.034 9235.283	6.7 3.9	5.4 5.4	36.634 78.603	42.42 58.80	
2	9945.7	0.2	0.2	9310.924	5.0	0.1	9233.263	3.9	3.4	78.603	30.60	13
ļ	I Cons											
	_	sumption Percent c	hange		Consumption Percent	- 1	· -	ed Investment Percent c		_	ntial Fixed In Percent	
	Billions	Percent c Annual	Year	Billions	Percent of Annual	Year	Billions	Percent c	hange Year	Billions	Percent of Annual	change Year
	_	Percent c	- 1		Percent of	- 1	· -	Percent c	hange	_	Percent (change
1996	Billions of 1996 \$	Percent c Annual	Year ago 3.2	Billions of 1996 \$	Percent of Annual	Year ago 5.6	Billions	Percent c	hange Year	Billions	Percent of Annual	change Year
1997	Billions of 1996 \$ 5237.499 5423.902	Percent c Annual	Year ago 3.2 3.6	Billions of 1996 \$ 616.475 657.347	Percent of Annual	Year ago 5.6 6.6	Billions of 1996 \$	Percent c	hange Year ago	Billions of 1996 \$ 899.433 1009.344	Percent of Annual	change Year ago
1997 1998	Billions of 1996 \$ 5237.499 5423.902 5678.654	Percent c Annual	Year ago 3.2 3.6 4.7	Billions of 1996 \$ 616.475 657.347 727.268	Percent of Annual	Year ago 5.6 6.6 10.6	Billions of 1996 \$ 1212.696 1328.630 1485.274	Percent c	Year ago 9.3 9.6 11.8	Billions of 1996 \$ 899.433 1009.344 1140.256	Percent of Annual	Year ago 10.0 12.2 13.0
1997	Billions of 1996 \$ 5237.499 5423.902	Percent c Annual	Year ago 3.2 3.6	Billions of 1996 \$ 616.475 657.347	Percent of Annual	Year ago 5.6 6.6	Billions of 1996 \$ 1212.696 1328.630	Percent c	Year ago 9.3 9.6	Billions of 1996 \$ 899.433 1009.344	Percent of Annual	Year ago 10.0 12.2
1997 1998	Billions of 1996 \$ 5237.499 5423.902 5678.654	Percent c Annual	Year ago 3.2 3.6 4.7	Billions of 1996 \$ 616.475 657.347 727.268	Percent of Annual	Year ago 5.6 6.6 10.6	Billions of 1996 \$ 1212.696 1328.630 1485.274	Percent c	Year ago 9.3 9.6 11.8	Billions of 1996 \$ 899.433 1009.344 1140.256	Percent of Annual	change Year ago 10.0 12.2 13.0 10.1
1997 1998 1999 1997 1 2	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815	Percent c Annual rate	Year ago 3.2 3.6 4.7 5.3	Billions of 1996 \$ 616.475 657.347 727.268 817.779	Percent of Annual rate	Year ago 5.6 6.6 10.6 12.4	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375	Percent c Annual rate	9.3 9.6 11.8 9.2	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285	Percent of Annual rate	Year ago 10.0 12.2 13.0
1997 1998 1999 1997 1	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681	Percent c Annual rate	Year ago 3.2 3.6 4.7 5.3	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473	Annual rate	Year ago 5.6 6.6 10.6 12.4 6.6	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405	Percent of Annual rate	Year ago 9.3 9.6 11.8 9.2	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285	Annual rate	thange Year ago 10.0 12.2 13.0 10.1
1997 1998 1999 1997 1 2	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664	Percent c Annual rate 4.5 1.9	Year ago 3.2 3.6 4.7 5.3 3.4 2.8	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510	Annual rate 10.5 -3.1	Year ago 5.6 6.6 10.6 12.4 6.6 2.6	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094	Annual rate 8.3 11.7	9.3 9.6 11.8 9.2 9.5 8.9	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659	Annual rate 10.9 14.0	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1
1997 1998 1999 1997 1 2 3	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083	Annual rate 4.5 1.9 6.6	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509	Annual rate 10.5 -3.1 23.1	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728	Annual rate 8.3 11.7 14.7	9.3 9.6 11.8 9.2 9.5 8.9 10.2	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974	Percent of Annual rate 10.9 14.0 19.1	change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8
1997 1998 1999 1997 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125	Annual rate 4.5 1.9 6.6 3.3	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890	10.5 -3.1 23.1 6.3	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305	Annual rate 8.3 11.7 14.7 4.4	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985	10.9 14.0 19.1 3.9	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4
1997 1998 1999 1997 1 2 3 4 1998 1	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385	Annual rate 4.5 1.9 6.6 3.3 4.8	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376	10.5 -3.1 23.1 6.3	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305	8.3 11.7 14.7 4.4	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985	10.9 14.0 19.1 3.9 20.1	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8
1997 1998 1999 1997 1 2 3 4 1998 1 2	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576	4.5 1.9 6.6 3.3 4.8 5.8	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352	10.5 -3.1 23.1 6.3 9.4 13.9	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585	8.3 11.7 14.7 4.4 17.4 14.8	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398	10.9 14.0 19.1 3.9 20.1 15.6	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5
1997 1998 1999 1997 1 2 3 4 1998 1 2 3	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969	4.5 1.9 6.6 3.3 4.8 5.8 4.3	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670	10.5 -3.1 23.1 6.3 9.4 13.9 4.1	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394	8.3 11.7 14.7 4.4 17.4 14.8 5.2	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332	10.9 14.0 19.1 3.9 20.1 15.6 3.5	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790	4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673	10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394 1539.748	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238	4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677	10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.4	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394 1539.748	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238 5940.214	4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9 5.7 5.6	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2 5.1	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677 810.480	10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6 15.0	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.4 12.7	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394 1539.748 1574.043 1607.125	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1 9.2 8.7	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432 1237.494	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5 9.6	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9 10.4 8.9
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4 1999 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238 5940.214 6013.801 6101.005	Annual rate 4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9 5.7 5.6 5.0 5.9	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2 5.1 5.3	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677 810.480 826.150 851.802	Percent of Annual rate 10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6 15.0 8.0 13.0	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.4 12.7 13.7 11.1	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394 1539.748 1574.043 1607.125 1637.758 1666.560	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1 9.2 8.7 7.8 7.2	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3 10.3 8.8 9.4	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432 1237.494 1272.464 1301.758	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5 9.6 11.8 9.5	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9 10.4 8.9 11.0 10.1
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238 5940.214 6013.801	4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9 5.7 5.6 5.0	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2 5.1 5.3 5.6	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677 810.480 826.150	10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6 15.0 8.0	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.7 13.7	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1477.585 1496.394 1539.748 1574.043 1607.125 1637.758	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1 9.2 8.7 7.8	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432 1237.494 1272.464	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5 9.6 11.8	Change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9 10.4 8.9 11.0 10.1
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4 1999 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238 5940.214 6013.801 6101.005	Annual rate 4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9 5.7 5.6 5.0 5.9 7.6	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2 5.1 5.3 5.6 6.0	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677 810.480 826.150 851.802 898.223	Percent of Annual rate 10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6 15.0 8.0 13.0 23.6	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.7 13.7 11.1 14.8	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1496.394 1539.748 1574.043 1607.125 1637.758 1666.560 1730.930	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1 9.2 8.7 7.8 7.2	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3 10.3 8.8 9.4 8.2	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432 1237.494 1272.464 1301.758	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5 9.6 11.8 9.5 21.0	change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9 10.4 8.9 11.0
1997 1998 1999 1997 1 2 3 4 1998 1 2 3 4 1999 1 2 3 4	Billions of 1996 \$ 5237.499 5423.902 5678.654 5978.815 5350.681 5375.664 5462.083 5507.125 5572.385 5651.576 5710.969 5779.790 5860.238 5940.214 6013.801 6101.005	Annual rate 4.5 1.9 6.6 3.3 4.8 5.8 4.3 4.9 5.7 5.6 5.0 5.9 7.6	Year ago 3.2 3.6 4.7 5.3 3.4 2.8 4.0 4.1 4.1 5.1 4.6 5.0 5.2 5.1 5.3 5.6 6.0	Billions of 1996 \$ 616.475 657.347 727.268 817.779 641.473 636.510 670.509 680.890 696.376 719.352 726.670 766.673 782.677 810.480 826.150 851.802 898.223	Percent of Annual rate 10.5 -3.1 23.1 6.3 9.4 13.9 4.1 23.9 8.6 15.0 8.0 13.0 23.6	Year ago 5.6 6.6 10.6 12.4 6.6 2.6 8.5 8.8 8.6 13.0 8.4 12.6 12.7 13.7 11.1 14.8	Billions of 1996 \$ 1212.696 1328.630 1485.274 1621.375 1275.405 1311.094 1356.728 1371.305 1427.367 1496.394 1539.748 1574.043 1607.125 1637.758 1666.560 1730.930	8.3 11.7 14.7 4.4 17.4 14.8 5.2 12.1 9.2 8.7 7.8 7.2	9.3 9.6 11.8 9.2 9.5 8.9 10.2 9.7 11.9 12.7 10.3 12.3 10.3 8.8 9.4 8.2	Billions of 1996 \$ 899.433 1009.344 1140.256 1255.285 960.756 992.659 1036.974 1046.985 1095.977 1136.398 1146.336 1182.332 1209.432 1237.494 1272.464 1301.758	10.9 14.0 19.1 3.9 20.1 15.6 3.5 13.2 9.5 9.6 11.8 9.5 21.0	change Year ago 10.0 12.2 13.0 10.1 11.5 12.1 13.4 11.8 14.1 14.5 10.5 12.9 10.4 8.9 11.0 10.1

	GDP CI	nain Price Ind		Emplo	yment Cost In		E	CI: Wages	hanga	Į E	CI: Benefits	hanga
		Annual	change Year		Percent Annual	Year		Percent c	Year		Percent c	Year
	Index	rate	ago	Index	rate	ago	Index	rate	ago	Index	rate	ago
1996	100.000		1.9	129.3		2.8	126.0		3.3	137.4		1.8
1997	101.950		2.0	133.3		3.1	130.4		3.5	140.2		2.0
1998	103.230		1.3	138.0		3.5	135.7		4.0	143.6		2.5
1999	104.770		1.5	142.4		3.2	140.2		3.4	147.6		2.8
1997 1	101.360	2.9	2.0	131.6	3.1	2.9	128.5	3.5	3.3	138.9	1.2	2.0
2	101.820	1.8	2.1	132.7	3.4	2.9	129.7	3.8	3.3	139.7	2.3	2.0
3	102.120	1.2	1.9	133.7	3.0	3.0	131.0	4.1	3.6	140.4	2.0	2.0
4	102.490	1.5	1.8	135.1	4.3	3.4	132.4	4.3	3.9	141.6	3.5	2.2
1998 1	102.750	1.0	1.4	136.2	3.3	3.5	133.7	4.0	4.0	142.2	1.7	2.4
2	103.040	1.1	1.2	137.3	3.3	3.5	134.9	3.6	4.0	143.2	2.8	2.5
3	103.420	1.5	1.3	138.8	4.4	3.8	136.5	4.8	4.2	144.1	2.5	2.6
4	103.690	1.0	1.2	139.7	2.6	3.4	137.5	3.0	3.9	144.9	2.2	2.3
1999 1	104.250	2.2	1.5	140.3	1.7	3.0	138.1	1.8	3.3	145.4	1.4	2.3
2	104.630	1.5	1.5	141.8	4.3	3.3	139.7	4.7	3.6	146.8	3.9	2.5
3	104.900	1.0	1.4	143.1	3.7	3.1	140.9	3.5	3.2	148.2	3.9	2.8
4	105.310	1.6	1.6	144.5	4.0	3.4	142.2	3.7	3.4	149.9	4.7	3.5
2000 1	106.170	3.3	1.8	146.6	5.9	4.5	143.9	4.9	4.2	153.4	9.7	5.5
2	106.800	2.4	2.1	148.2	4.4	4.5	145.4	4.2	4.1	155.3	5.0	5.8
		Exports Percent	change		Imports Percent		l Nonfarm (Output per Hou _Percent_c		l Nonfarm Co	mpensation/Hr Percent c	
	Billions	Annual	Year	Billions	Annual	Year		Annual	Year		Annual	Year
	of 1996 \$	rate	ago	of 1996 \$	rate	ago	Index	rate	ago	Index	rate	ago
1996	874.163		8.2	963.128		8.6	105.4		2.5	109.8		3.0
1997	981.458		12.3	1094.778		13.7	107.3		1.8	112.9		2.8
1998	1003.557		2.3	1224.579		11.9	110.2		2.7	118.6		5.0
1999	1032.963		2.9	1355.333		10.7	113.4		2.9	124.4	***************************************	4.9
1997 1	940.346	7.5	11.1	1034.322	15.3	12.3	106.1	8.0	1.4	111.7	2.2	3.0
2	979.229	17.6	13.9	1079.801	18.8	13.6	107.1	3.8	1.4	112.0	1.1	2.4
3 4	1004.186	10.6	15.8	1123.758	17.3	14.3	108.0	3.4	2.4	113.0	3.6	2.4
	1002.071	-0.8	8.5	1141.230	6.4	14.3	108.1	0.4	2.1	114.7	6.2	3.2
1998 1	1004.509	1.0	6.8	1179.803	14.2	14.1	109.3	4.5	3.0	116.4	6.1	4.2
2 3	996.826	-3.0	1.8	1216.575	13.1	12.7	109.8	1.8	2.5	117.9	5.3	5.3
3 4	988.775	-3.2	-1.5	1232.900	5.5	9.7	110.3	1.8	2.1	119.4	5.2	5.7
	1024.117	15.1	2.2	1269.017	12.2	11.2	111.2	3.3	2.9	120.8	4.8	5.3
1999 1	1003.277	-7.9	-0.1	1283.060	4.5	8.8	112.0	2.9	2.5	122.1	4.4	4.9
2	1017.613	5.8	2.1	1332.170	16.2	9.5	112.1	0.4	2.1	123.6	5.0	4.8
3 4	1042.588	10.2	5.4	1385.190	16.9	12.4	113.6	5.5	3.0	125.2	5.3	4.9
	1068.376	10.3	4.3	1420.903	10.7	12.0	115.8	8.0	4.1	126.5	4.2	4.7
2000 1		6 7	8.1	1461.653	12.0	13.9	116.3	1.7	3.8	127.8	4.2	4.7
2	1084.819	6.3		I		ا جير ا		6.0	1	120.4		
2	1121.787	14.3	10.2	1525.219	18.6	14.5	118.0	6.0	5.3	129.4	5.1	4.7
2				I		14.5		6.0	1	129.4		

	Housel	nold Survey E	mployment Percent c	change	Nonfai	rm Payroll En	nployment Percent c	hance	Non	farm Aggrega Per	i te Hours cent_chan	age.
			Annual	Year		-	Annual	Year		Monthly		Year
	Thousands	Change	rate	ago	Thousands	Change	rate	ago	Index	rate	rate	ago
1995	124908	1837		1.5	117188	3053		2.7	133.4			2.7
1996	126715	1807		1.4	119597	2409		2.1	136.6			2.4
1997	129565	2850		2.2	122677	3080		2.6	141.4			3.5
1998	131463	1898		1.5	125845	3168		2.6	145.2			2.7
1999	133492	2030		1.5	128772	2926		2.3	148.3			2.1
1998 1	130861	413	1.3	1.8	124748	793	2.6	2.7	144.2	0.8	3.1	3.3
2	131256	394	1.2	1.5	125486	737	2.4	2.6	144.7	0.4	1.5	2.6
3	131526	270	0.8	1.2	126180	695	2.2	2.6	145.5	0.5	2.0	2.5
4	132208	682	2.1	1.3	126967	787	2.5	2.4	146.4	0.7	2.7	2.3
	132200	002	2.1	1.5	120307	707	2.5	2.4	140.4	0.7	2.7	2.5
1999 1	133077	869	2.7	1.7	127800	833	2.6	2.4	147.1	0.5	1.9	2.0
2	133214	137	0.4	1.5	128430	630	2.0	2.3	147.8	0.5	1.9	2.1
3	133526	312	0.9	1.5	129073	644	2.0	2.3	148.5	0.5	1.8	2.1
4	134153	626	1.9	1.5	129783	710	2.2	2.2	149.6	0.7	2.9	2.1
2000 1	135247	1095	3.3	1.6	130626	843	2.6	2.2	150.7	0.8	3.2	2.4
2	135200	-47	-0.1	1.5	131552	926	2.9	2.4	151.2	0.3	1.2	2.3
1998 Aug	131381	107	1.0	1.1	126225	378	3.7	2.7	145.6	0.3	3.4	2.7
Sep	131922	541	5.1	1.5	126469	244	2.3	2.5	145.6	0.0	0.0	2.2
Oct	131950	20	0.7		126677	200	2.0	2.4	146.2	0.4	 E 1	2.4
Nov		28	0.3 1.9	1.4	126939	208 262	2.0 2.5	2.4 2.4	146.2	0.1	5.1 0.8	2.4 2.2
Dec	132156 132517	206 361	3.3	1.2 1.4	127286	347	3.3	2.4	146.8	0.3	4.2	2.4
									-			
1999 Jan	133225	708	6.6	1.8	127463	177	1.7	2.3	146.8	0.0	0.0	1.7
Feb	133029	-196	-1.8	1.6	127883	420	4.0	2.5	147.5	0.5	5.9	2.3
Mar	132976	-53	-0.5	1.6	128054	171	1.6	2.5	147.1	-0.3	-3.2	2.1
Apr	133054	78	0.7	1.4	128282	228	2.2	2.5	147.7	0.4	5.0	2.4
May	133190	136	1.2	1.5	128377	95	0.9	2.3	147.6	-0.1	-0.8	1.7
Jun	133398	208	1.9	1.6	128630	253	2.4	2.3	148.2	0.4	5.0	2.3
Jul	133399	1	0.0	1.6	128898	268	2.5	2.4	148.5	0.2	2.5	2.3
Aug	133530	131	1.2	1.6	129057	159	1.5	2.2	148.4	-0.1	-0.8	1.9
Sep	133650	120	1.1	1.3	129265	208	2.0	2.2	148.6	0.1	1.6	2.1
Oct	133940	290	2.6	1.5	129523	258	2.4	2.2	149.3	0.5	5.8	2.1
Nov	134098	158	1.4	1.5	129788	265	2.5	2.2	149.6	0.2	2.4	2.3
Dec	134420	322	2.9	1.4	130038	250	2.3	2.2	149.8	0.1	1.6	2.0
2000 Jan	_											
Feb	135221	801	7.4	1.5	130387	349	3.3	2.3	150.6	0.5	6.6	2.6
Mar	135362 135159	141 -203	1.3 -1.8	1.8 1.6	130482 131009	95 527	0.9 5.0	2.0 2.3	150.6 151.0	0.0 0.3	0.0 3.2	2.1 2.7
Apr	135706	547	5.0	2.0	131419	410	3.8	2.4	151.7	0.5	5.7	2.7
May	134715	-991	-8.4	1.1	131590	171	1.6	2.5	150.5	-0.8	-9.1	2.0
Jun	135179	464	4.2	1.3	131647	57	0.5	2.3	151.3	0.5	6.6	2.1
Jul	134749	-430	-3.8	1.0	131596	-51	-0.5	2.1	151.4	0.1	0.8	2.0
Aug	134912	163	1.5	1.0	131491	-105	-1.0	1.9	150.9	-0.3	-3.9	1.7

				Retail Sal	es cent char	nge		Industrial Pr	oduction cent char	nge	Treas	ury
		Unempl. Rate	Billions of dollars	Monthly/ quarterly	Annual rate	Year ago	Index	Monthly/ quarterly		Year ago	Yiel 3-mo	
1	1995	5.6	2361.343			5.1	114.418			4.9	5.49	6.58
	1996	5.4	2496.503			5.7	119.445			4.4	5.01	6.44
	1997	4.9	2612.931			4.7	126.953			6.3	5.06	6.35
	1998	4.5	2745.714			5.1	132.365			4.3	4.78	5.26
1	1999	4.2	2994.224			9.1	136.980			3.5	4.64	5.64
1998	1	4.7	668.657	0.9	3.8	3.4	130.897	0.6	2.4	5.7	5.05	5.59
	2	4.4	684.020	2.3	9.5	6.1	131.856	0.7	3.0	4.8	4.98	5.60
	3	4.5	686.919	0.4	1.7	4.2	132.811	0.7	2.9	3.8	4.82	5.20
	4	4.4	706.118	2.8	11.7	6.6	133.895	0.8	3.3	2.9	4.26	4.67
1999	1	4.3	723.050	2.4	9.9	8.1	134.569	0.5	2.0	2.8	4.41	4.98
	2	4.3	739.876	2.3	9.6	8.2	136.109	1.1	4.7	3.2	4.45	5.54
	3	4.2	757.222	2.3	9.7	10.2	137.721	1.2	4.8	3.7	4.65	5.88
	4	4.1	774.076	2.2	9.2	9.6	139.521	1.3	5.3	4.2	5.04	6.14
2000	1	4.1	799.014	3.2	13.5	10.5	141.724	1.6	6.5	5.3	5.52	6.48
2000	2	4.1	802.972	0.5	2.0	8.5	144.474	1.9	8.0	6.1	5.71	6.18
	3	,,,		0.0		0.0			0.0	•••	6.02	5.89
1998 S	Sep	4.5	230.610	1.1	14.2	4.7	133.548	-0.0	-0.4	3.7	4.61	4.81
	Oct	4.5	233.751	1.4	17.6	6.3	134.108	0.4	5.1	3.5	3.96	4.53
N	lov	4.4	235.251	0.6	8.0	6.5	133.777	-0.2	-2.9	2.8	4.42	4.83
D	Dec	4.4	237.116	0.8	9.9	6.9	133.801	0.0	0.2	2.5	4.39	4.64
1999 J	Jan	4.3	239.154	0.9	10.8	7.7	134.052	0.2	2.3	2.4	4.34	4.72
F	eb	4.4	241.580	1.0	12.9	8.5	134.509	0.3	4.2	2.9	4.44	5.00
M	/lar	4.2	242.316	0.3	3.7	8.2	135.147	0.5	5.8	3.1	4.44	5.23
F	Apr	4.3	244.556	0.9	11.7	8.1	135.472	0.2	2.9	2.9	4.29	5.18
	1ay	4.2	247.325	1.1	14.5	8.6	136.215	0.5	6.8	2.9	4.50	5.54
J	Jun	4.3	247.995	0.3	3.3	7.8	136.639	0.3	3.8	3.9	4.57	5.90
	Jul	4.3	250.003	0.8	10.2	9.5	137.363	0.5	6.5	4.6	4.55	5.79
	ug	4.2	253.471	1.4	18.0	11.1	137.736	0.3	3.3	3.1	4.72	5.94
	Sep	4.2	253.748	0.1	1.3	10.0	138.064	0.2	2.9	3.4	4.68	5.92
	Oct		254.050				170.056				100	
	lov	4.1 4.1	254.959 257.489	0.5 1.0	5.9 12.6	9.1 9.5	139.056	0.7 0.3	9.0 3.3	3.7 4.2	4.86 5.07	6.11 6.03
	ec	4.1	261.628	1.6	21.1	10.3	140.075	0.5	5.7	4.7	5.20	6.28
,												
2000 J	eb	4.0	263.493	0.7	8.9	10.2	141.117	0.7 0.4	9.3	5.3	5.32	6.66
	/lar	4.1 4.1	267.164 268.357	1.4 0.4	18.1 5.5	10.6 10.7	141.635	0.4	4.5 6.8	5.3 5.4	5.55 5.69	6.52 6.26

	Apr	3.9	267.119	-0.5	-5.4	9.2	143.528	0.8	9.8	5.9	5.66	5.99
	1ay Iun	4.1	267.417	0.1	1.3	8.1	144.709	0.8	10.3	6.2	5.79	6.44
		4.0	268.436	0.4	4.7	8.2	145.185	0.3	4.0	6.3	5.69	6.10
	Jul	4.0	270.750	0.9	10.8	8.3	145.207	0.0	0.2	5.7	5.96	6.05
	ug	4.1	271.205	0.2	2.0	7.0	145.681	0.3	4.0	5.8	6.09	5.83
S	Sep										6.00	5.80

		Consum	er Price Inde				Consur less Fo	Producer Price Index Finished Goods Percent change						
		Monthly/	Voor	ł	Monthly/	Percent Annual		Vaar	-					
	Index	quarterly	Annual rate	Year ago	Year to date	Index	quarterly	rate	Year ago	Year to date	Index	Monthly/ quarterly		Year ago
1995	152.5			2.8		161.4			3.0		127.9			1.9
1996	157.0			2.9		165.8			2.7		131.3			2.6
1997	160.6			2.3		169.7			2.4		131.8			0.4
1998	163.1			1.6		173.7			2.3		130.7			-0.9
1999	166.7			2.2		177.3			2.1		133.0			1.8
1998 1	162.1	0.2	1.0	1.5	1.0	172.2	0.7	2.7	2.3	2.7	130.6	-0.8	-3.0	-1.6
2	162.8	0.4	1.7	1.6	1.3	173.2	0.6	2.5	2.2	2.6	130.5	-0.0	-0.1	-0.7
3	163.5	0.4	1.7	1.6	1.5	174.2	0.5	2.2	2.4	2.5	130.6	0.1	0.2	-0.7
4	164.2	0.4	1.7	1.5	1.5	175.1	0.5	2.1	2.4	2.4	131.0	0.3	1.1	-0.5
1000 1														
1999 1 2	164.9	0.4	1.7	1.7	1.7	175.9	0.5	1.9	2.2	1.9	131.4	0.4	1.4	0.7
3	166.2	0.8	3.3	2.1	2.5	176.8	0.5	2.1	2.1	2.0	132.3	0.7	2.7	1.4
4	167.2 168.4	0.6 0.7	2.5 2.9	2.3 2.6	2.5 2.6	177.7 178.7	0.5 0.6	1.9 2.3	2.0	2.0	133.6	1.0	4.0	2.3
-	100.4	0.7	2.9	2.0	2.0	1/0./	0.6	2.3	2.1	2.1	134.7	8.0	3.4	2.9
2000 1	170.2	1.0	4.3	3.2	4.3	179.8	0.6	2.5	2.2	2.5	136.3	1.2	4.8	3.7
2	171.7	0.9	3.7	3.3	4.0	181.1	0.7	3.0	2.4	2.7	137.5	8.0	3.4	3.9
1998 Aug	163.5	0.1	1.5	1.7	1.6	174.2	0.2	2.8	2.5	2.6	130.4	-0.3	-3.6	-0.8
Sep	163.6	0.1	0.7	1.4	1.5	174.5	0.2	2.1	2.4	2.5	130.6	0.2	1.9	-0.9
Oct	163.9	0.2	2.2	1.4	1.6	174.7	0.1	1.4	2.3	2.4	131.0	0.3	3.7	-0.7
Nov	164.2	0.2	2.2	1.5	1.6	175.0	0.2	2.1	2.3	2.4	130.8	-0.2	-1.8	-0.6
Dec	164.4	0.1	1.5	1.6	1.6	175.5	0.3	3.5	2.5	2.5	131.1	0.2	2.8	-0.1
999 Jan	164.7	0.2	2.2	1.7	2.2	175.8	0.2	2.1	2.3	2.1	131.6	0.4	4.7	0.8
Feb	164.8	0.1	0.7	1.7	1.5	175.8	0.0	0.0	2.1	1.0	131.1	-0.4	-4.5	0.5
Mar	165.1	0.2	2.2	1.8	1.7	176.1	0.2	2.1	2.1	1.4	131.6	0.4	4.7	0.8
Apr	166.2	0.7	8.3	2.3	3.3	176.7	0.3	4.2	2.2	2 1	132.2	0 E	E C	1.0
May	166.2	0.0	0.0	2.3	2.6	176.7	0.3	0.7	2.2	2.1 1.8	132.2	0.5 0.1	5.6 0.9	1.2 1.4
Jun	166.2	0.0	0.0	2.0	2.2	177.0	0.1	1.4	2.0	1.7	132.4	0.1	0.9	1.5
Jul	166.7	0.3	3.7	2.1	2.4	177.4	0.2	2.7	2.1	1.9	132.7	0.2	2.8	1.5
Aug	167.2	0.3	3.7	2.3	2.6	177.5	0.1	0.7	1.9	1.7	133.5	0.6	7.5	2.4
Sep	167.8	0.4	4.4	2.6	2.8	178.1	0.3	4.1	2.1	2.0	134.6	8.0	10.3	3.1
Oct	168.1	0.2	2.2	2.6	2.7	178.4	0.2	2.0	2.1	2.0	134.6	0.0	0.0	2.7
Nov	168.4	0.2	2.2	2.6	2.7	178.7	0.2	2.0	2.1	2.0	134.7	0.1	0.9	3.0
Dec	168.8	0.2	2.9	2.7	2.7	178.9	0.1	1.4	1.9	1.9	134.9	0.1	1.8	2.9
000 Jan	169.2	0.2	2.9	2.7	2.9	179.3	0.2	2.7	2.0	2.7	135.0	0.1	0.9	2.6
Feb	170.1	0.5	6.6	3.2	4.7	179.6	0.2	2.0	2.2	2.4	136.5	1.1	14.2	4.1
Mar	171.3	0.7	8.8	3.8	6.1	180.4	0.4	5.5	2.4	3.4	137.5	0.7	9.2	4.5
Apr	171.3	0.0	0.0	3.1	4.5	180.8	0.2	2.7	2.3	3.2	137.0		-4.3	3.6
May	171.5	0.1	1.4	3.2	3.9	181.1	0.2	2.0	2.4	3.0	137.3	0.2	2.7	3.8
Jun	172.4	0.5	6.5	3.7	4.3	181.4	0.2	2.0	2.5	2.8	138.1	0.6	7.2	4.3
Jul	172.8	0.2	2.8	3.7	4.1	181.8	0.2	2.7	2.5	2.8	138.1	0.0	0.0	4.1
ou.					3.5									

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 1996 dollars. The Purchasing Managers' Index is a weighted average of diffusion indexes for new orders, production, supplier deliveries, inventories, and employment. The National Association of Purchasing Management (NAPM) surveys over 300 firms in 20 manufacturing industries, weighting responses by industry share of GDP. 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: Beginning with the October 1999 **comprehensive revision** to the National Income and Product Accounts (NIPA), a new formula is used to calculate the **contribution** of a component to the overall GDP growth rate. The new formula produces estimates roughly equivalent to the old formula. For more information, 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, but 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 prices are monthly averages of daily spot prices for West Texas intermediate crude (Wall Street Journal). 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: Nonfarm payroll employment is counted in a survey of about 390,000 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 50,000 households provides estimates of civilian employment, unemployment rate, labor force participation rate, and employment-population ratio. Population is civilian, noninstitutional, 16 years and over. New population controls introduced in January 2000 affect levels and growth rates of household survey employment, labor force and population. The unemployment rate and other series were minimally affected. 90 percent confidence intervals for the unemployment rate (± 0.2 percentage points) and change in household survey employment (± 376,000) measure uncertainty due to sample size. The available labor supply is the sum of the unemployed and those persons not in the labor force but who want to work now. The household survey was significantly changed in January 1994, so care should be exercised in making short-term comparisons around this date, particularly with the duration data shown on page 10.

Pages 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.

Pages 14, 15: Overall gross saving includes government saving, which is the sum of the government surplus and capital consumption (see notes for pages 16 and 17). Net foreign investment (NFI) is U.S. investment abroad minus foreign investment in the U.S. Aside from a statistical discrepancy, NFI also equals the difference between gross domestic investment and saving. The comprehensive revision introduced the equipment & software component of business investment.

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 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.

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)