National Economic Trends



Overblown Productivity?

A strange thing happened on the way to the 21st century: American workers became increasingly more productive. Productivity at business establishments (excluding farming) averaged growth of 1.9 percent per year in the 1990s—a half-percentage point higher than in the 1980s. But the real stellar performer was the manufacturing sector. In the 1990s, productivity in this sector grew at a phenomenal 4 percent annual rate, which means that people working at manufacturing firms produced considerably more output per hour each year. And the intriguing part is that this productivity growth occurred as average employment at these firms actually *fell* half of a percentage point each year during the 90s. Talk about know-how in American manufacturing!

Across all businesses, though, the story's not as glamourous. Yes, productivity growth during the 90s was up half of a percentage point a year from the 80s. And, yes, employment growth at private nonfarm businesses in the 90s was slower—though almost imperceptibly slower—than in the 80s. But total employment (unlike manufacturing employment) was still *growing*—an average of 1.9 percent a year during the 90s versus 2 percent in the 80s—while productivity was rising.

Does this mean that employees at manufacturing firms work faster than others? Not at all. One simple explanation is that manufacturing firms generally add capital to their production processes faster than nonmanufacturing (or service-oriented) firms, which enables manufacturing workers to increase their productivity faster. Is this, then, the end of the story? Not quite.

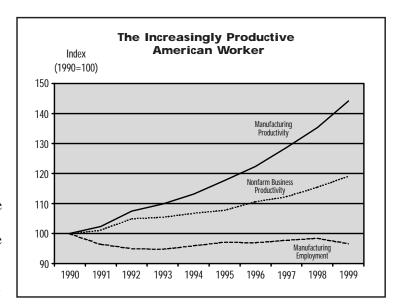
The figures for productivity growth at manufacturing firms are a bit misleading. The problem is that when the Bureau of Labor Statistics counts the people working at manufacturing firms, it counts only those who are on the payrolls of the firms. People who work at these plants, but are paid by someone else—such as a temporary employment agency—are not counted, *even though they*

are producing output for manufacturers. Thus, the productivity figures are slightly exaggerated because the number of workers actually producing the output is larger than what's reported.

How much larger is the number? Economists Marcello Estevão and Saul Lach noted in a recent study that manufacturing firms employed about 890,000 temporary workers between 1991 and 1997, a figure that represents about 5 percent of the 18.5 million or so workers on the books of these firms. While not a tremendous amount, the number is not insignificant, either. And when Estevão and Lach added the temporary workers to the productivity measure, they found that the official manufacturing productivity growth figures were overstated by about half of a percentage point per year. In other words, including *all* of the workers lowers manufacturing productivity growth in the 1990s from 4 percent to about 3.5 percent each year.

—Adam M. Zaretsky

For more information, see the forthcoming article in the July 2000 issue of the St. Louis Fed's The Regional Economist.



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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:

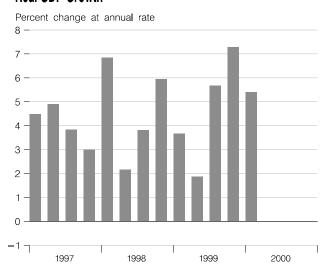
$$100 \times \left[\left(\frac{X_t}{X_{t-1}} \right)^4 - 1 \right]$$

For monthly data replace 4 with 12.

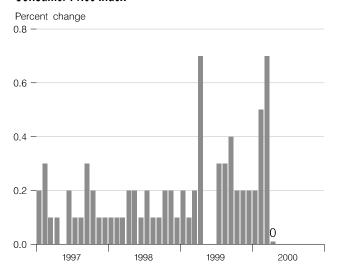
3. All data with significant seasonal patterns are seasonally adjusted, unless labeled NSA.

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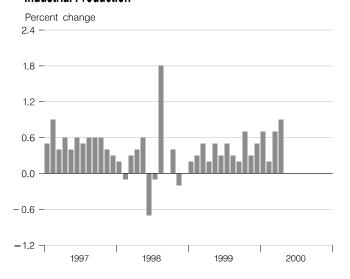
Real GDP Growth



Consumer Price Index

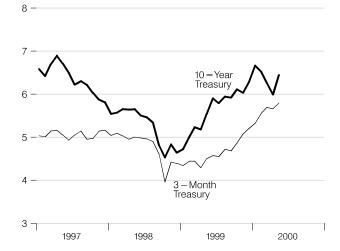


Industrial Production

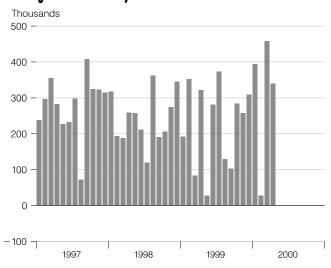


Interest Rates

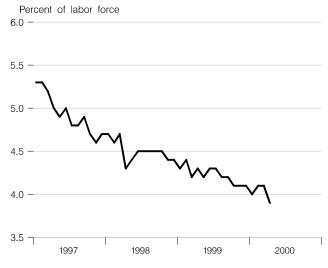
Percent



Change in Nonfarm Payrolls

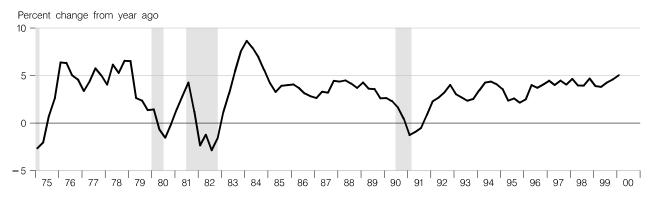


Unemployment Rate



Federal Reserve Bank of St. Louis

Real Gross Domestic Product



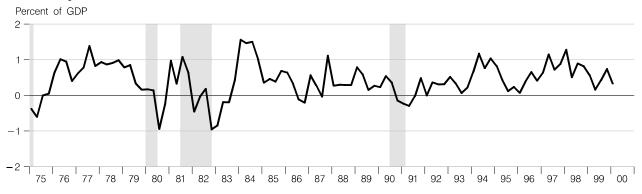
Industrial Production and Purchasing Managers' (NAPM) Indexes



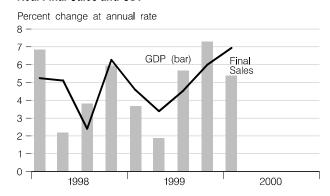
Aggregate Private Nonfarm Hours



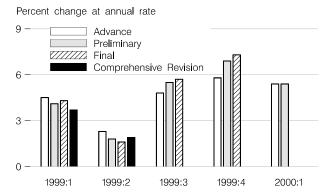
Real Change in Private Inventories



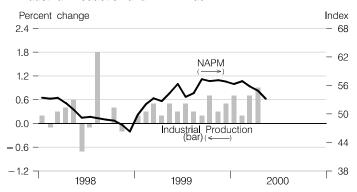
Real Final Sales and GDP



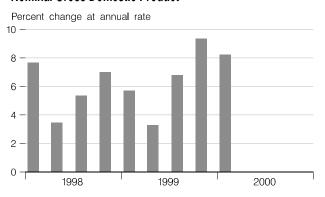
Real GDP Revisions



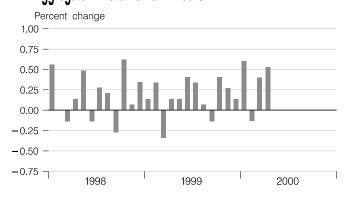
Industrial Production and NAPM Index



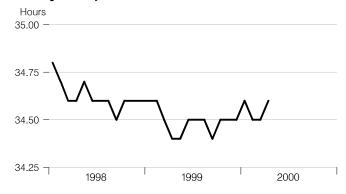
Nominal Gross Domestic Product



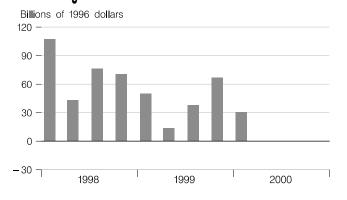
Aggregate Private Nonfarm Hours



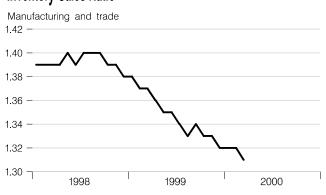
Average Weekly Private Nonfarm Hours



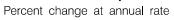
Real Change in Private Inventories

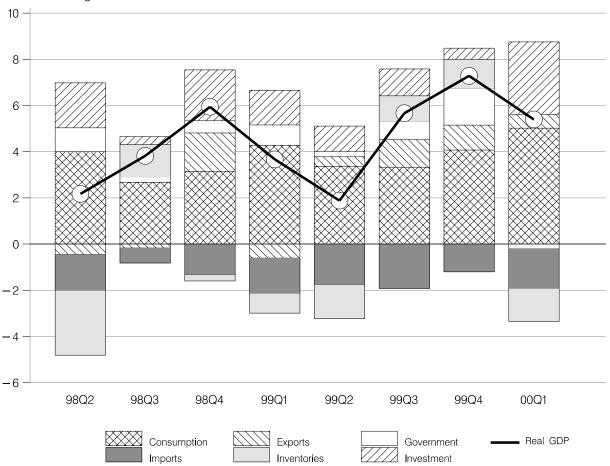


Inventory-Sales Ratio



Contribution of Components to Real GDP Growth

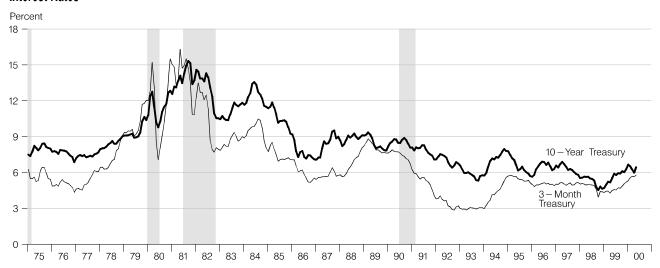




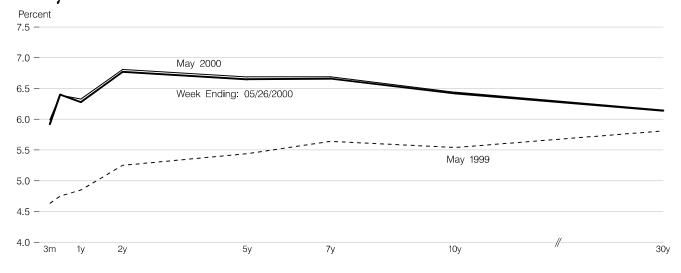
Contributions to Real GDP Growth Rate

	1998			1999				2000
	2nd	3rd	4th	1st	2nd	3rd	4th	1st
Real GDP	2.17	3.82	5.94	3.67	1.88	5.67	7.28	5.40
Final Sales	4.97	2.42	6.20	4.52	3.34	4.58	6.04	6.83
Change in Inventory	-2.80	1.40	-0.26	-0.85	-1.46	1.09	1.24	-1.43
Consumption	4.00	2.67	3.14	4.28	3.36	3.33	4.07	5.02
Fixed Investment Nonresidential	1.95 1.42	0.34 0.01	2.20 1.79	1.49 0.95	1.10 0.86	1.16 1.33	0.48 0.39	3.13 2.90
Residential	0.53	0.33	0.41	0.54	0.24	-0.17	0.09	0.23
Government Federal State and Local	1.03 0.69 0.34	0.24 -0.14 0.38	0.53 0.24 0.29	0.88 -0.03 0.91	0.23 0.13 0.10	0.81 0.26 0.55	1.61 0.87 0.75	-0.20 -1.00 0.80
Net Exports Exports Imports	-2.01 -0.45 -1.56	-0.82 -0.17 -0.65	0.33 1.67 -1.34	-2.13 -0.61 -1.53	-1.35 0.42 -1.77	-0.73 1.19 -1.92	-0.12 1.08 -1.20	-1.12 0.60 -1.72
Residual	0.40	-0.07	-0.08	0.34	0.35	0.05	0.01	0.06

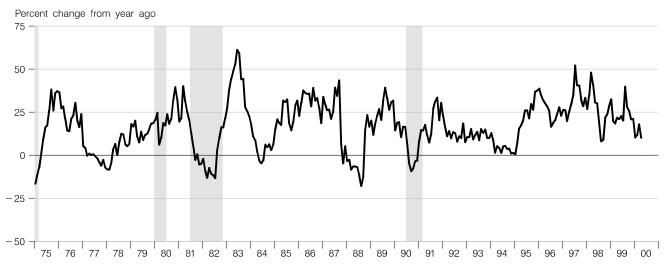
Interest Rates



Treasury Yield Curve

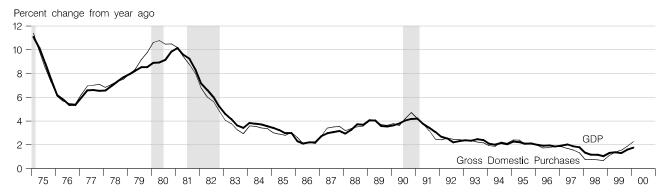


Standard and Poor's 500 Index with Reinvested Dividends

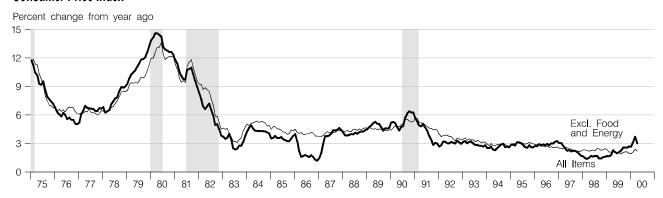


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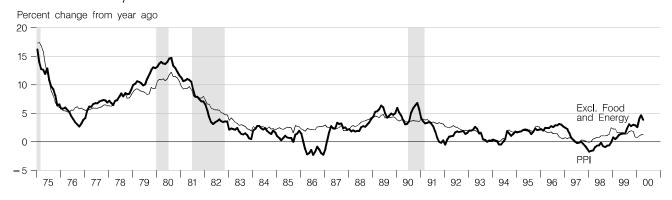
NIPA Chain Price Indexes



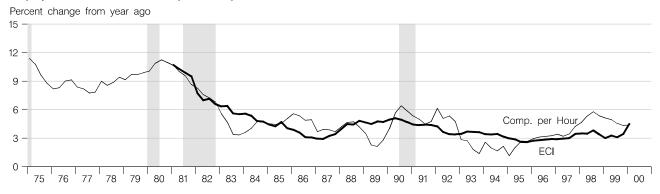
Consumer Price Index



Producer Price Index, Finished Goods

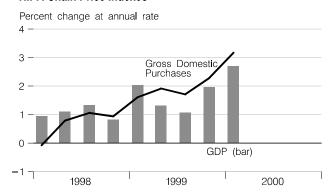


Employment Cost Index and Compensation per Hour



Federal Reserve Bank of St. Louis

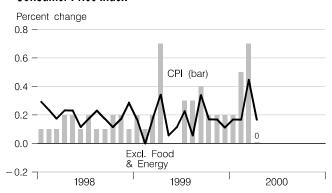
NIPA Chain Price Indexes



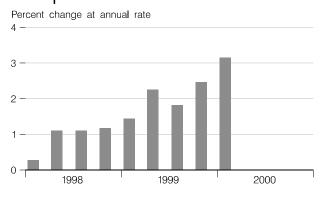
Crude Oil Price



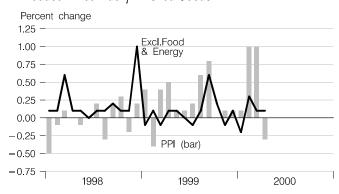
Consumer Price Index



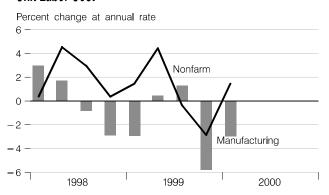
Consumption Chain Price Index



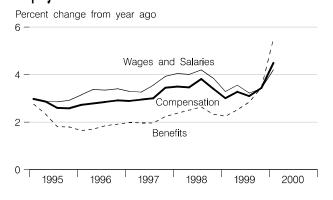
Producer Price Index, Finished Goods



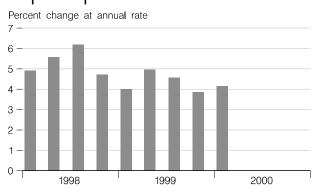
Unit Labor Cost



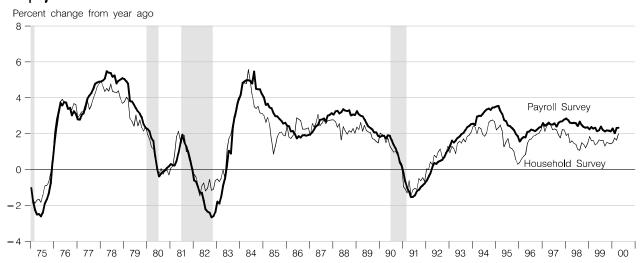
Employment Cost Index



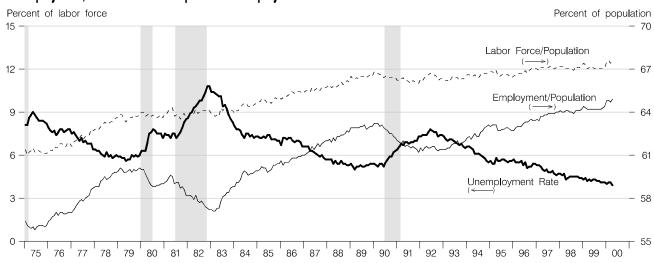
Compensation per Hour



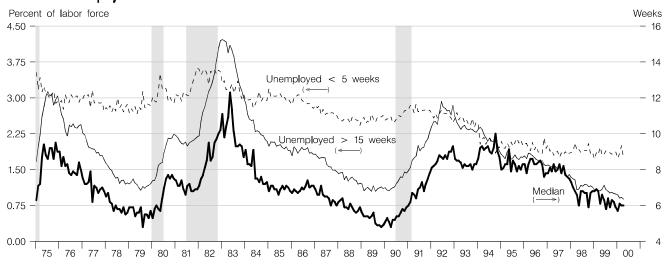
Employment



Unemployment, Labor Force Participation and Employment Rates

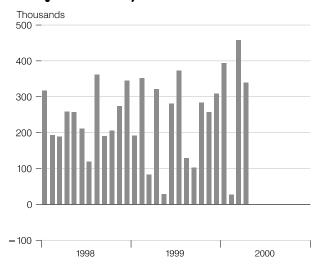


Duration of Unemployment

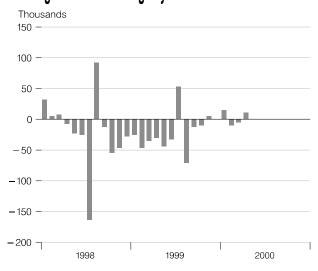


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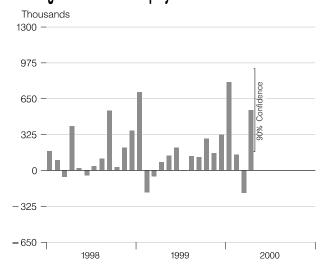
Change in Nonfarm Payrolls



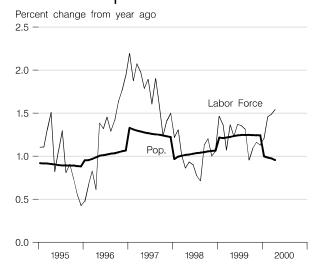
Change in Manufacturing Payrolls



Change in Household Employment



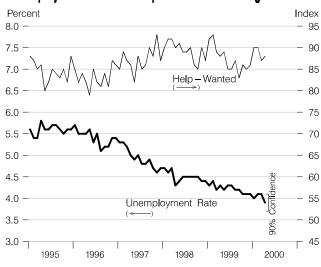
Labor Force and Population



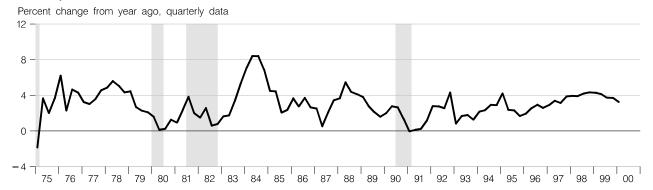
Available Labor Supply and Components



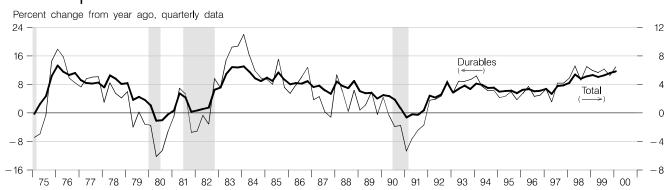
Unemployment Rate and Help-Wanted Advertising Index



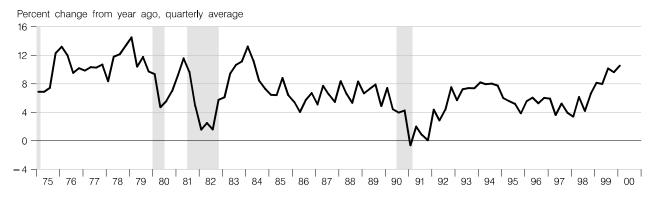
Real Disposable Personal Income



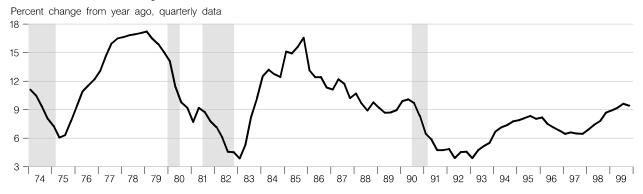
Real Consumption



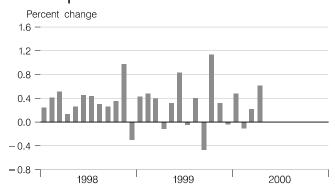
Retail Sales



Household Debt Outstanding



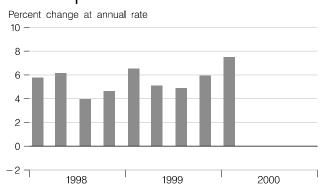
Real Disposable Personal Income



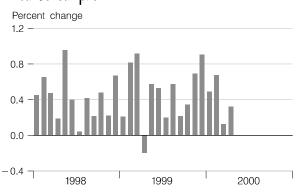
Personal Saving Rate



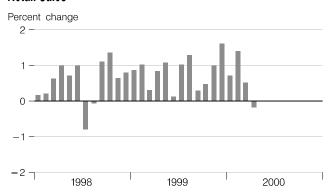
Real Consumption



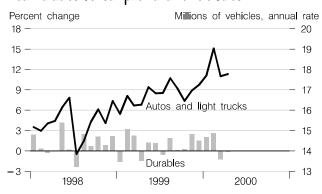
Real Consumption



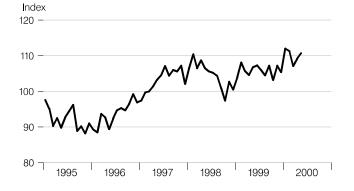
Retail Sales



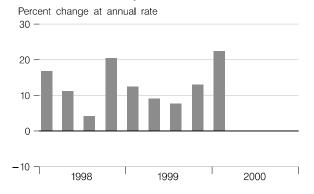
Real Durables Consumption and Vehicle Sales



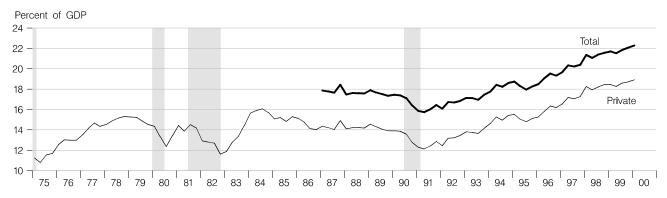
Consumer Sentiment (U. of Michigan)



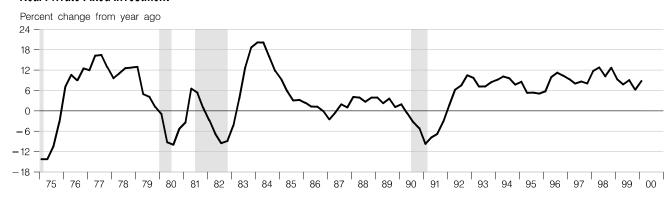
Real Durables Consumption



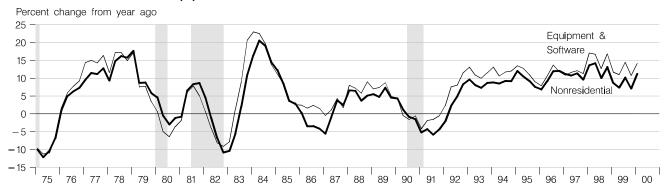
Real Investment



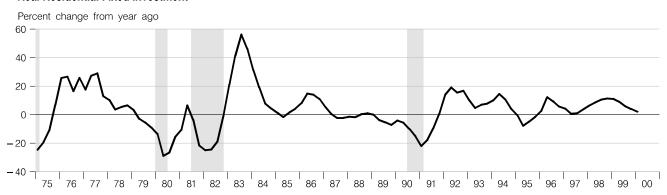
Real Private Fixed Investment



Real Nonresidential Fixed and Equipment & Software Investment

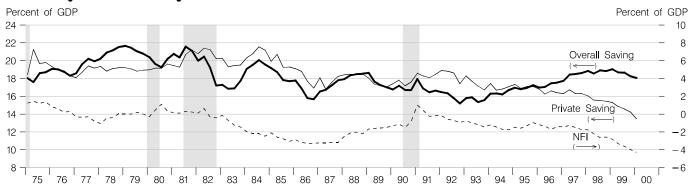


Real Residential Fixed Investment

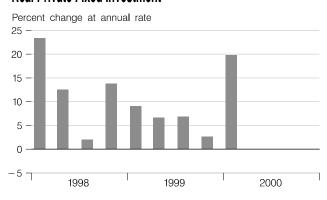


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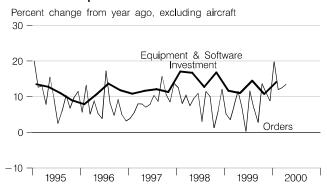
Gross Saving Rates and Net Foreign Investment



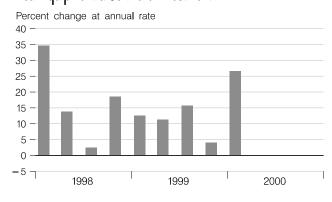
Real Private Fixed Investment



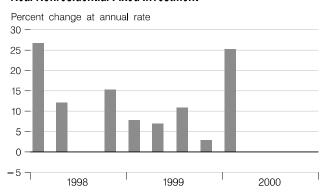
Nondefense Capital Goods Orders



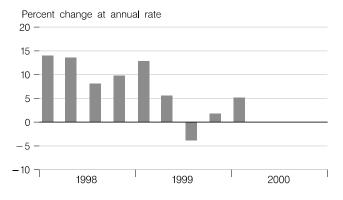
Real Equipment & Software Investment



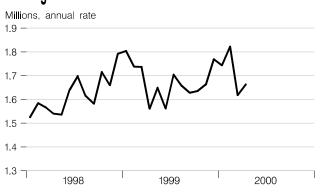
Real Nonresidential Fixed Investment



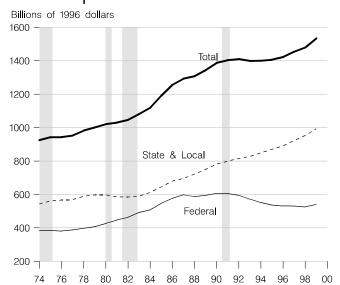
Real Residential Fixed Investment



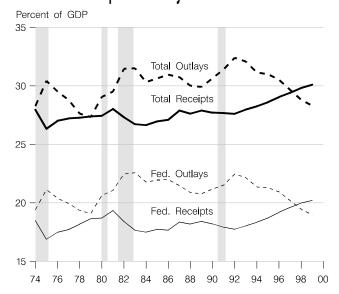
Housing Starts



Govt. Consumption and Investment



Government Receipts and Outlays



Government Budgets

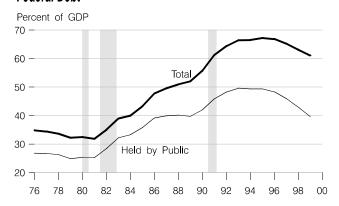
Billions of dollars

National	Income A	Accounts

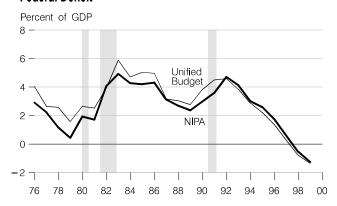
Unified Budget

			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	1009.0	981.5	27.5	1627.2	1676.0	-48.8	1579.3	1601.3	-22.0
1998	1070.4	1028.7	41.7	1750.7	1703.8	46.9	1721.8	1652.6	69.2
1999	1140.2	1089.2	51.0	1871.3	1755.8	115.5	1827.5	1703.0	124.4

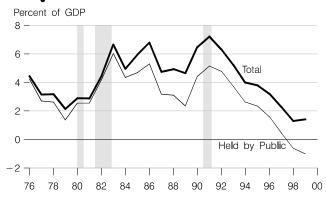
Federal Debt



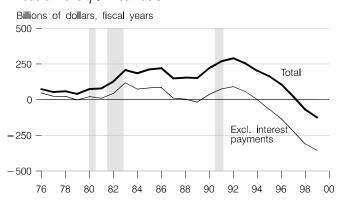
Federal Deficit



Change in Federal Debt



Federal Deficit, Unified Basis

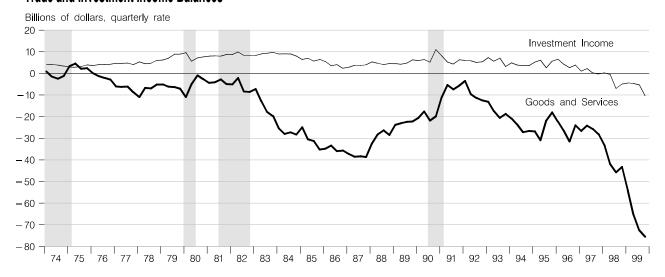


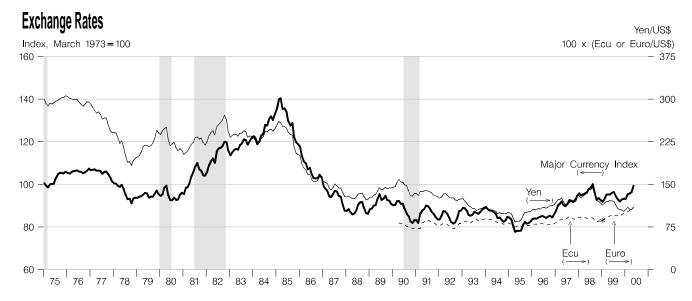
Federal Government Debt

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

CAGIGG	ing agency iss	aca acbi	Held by	Held I	by Public	Held by Pr	ivate Investors
		Total Public Debt	Agenciés 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	3175.6	1281.3
1996	March	5117.8	1353.8	3764.0	381.0	3386.7	908.1
	June	5161.1	1422.4	3738.6	391.0	3354.4	929.7
	September	5224.8	1447.0	3777.8	390.9	3393.2	993.4
	December	5323.2	1497.2	3826.0	410.9	3431.2	1102.1
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	3794.5	464.5	3327.6	1272.1
	June	5638.8	1953.6	3685.2	493.8	3199.3	1258.6
	September	5656.3	1989.1	3667.2	496.5	3175.6	1281.3
	December	5776.1	2060.6	3715.5	477.7	3234.2	1268.7

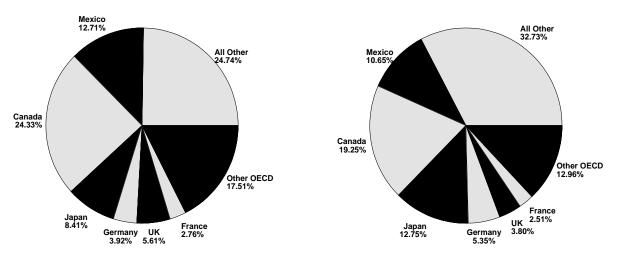
Trade and Investment Income Balances





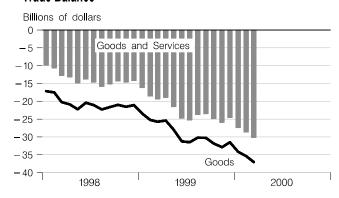
Goods Export Shares, 1999

Goods Import Shares, 1999

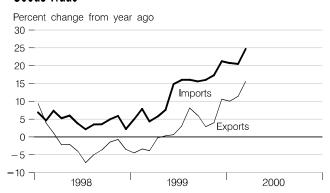


Federal Reserve Bank of St. Louis

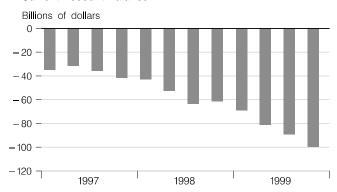
Trade Balance



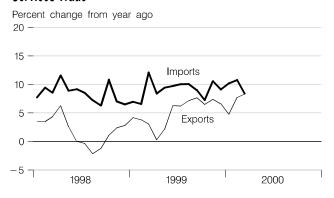
Goods Trade



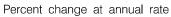
Current Account Balance

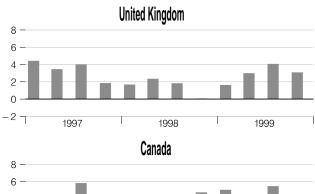


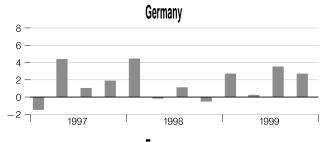
Services Trade

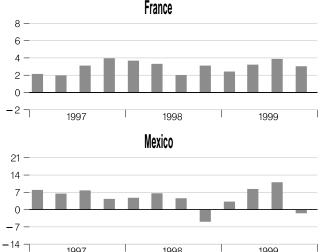


Real GDP Growth of Major Trading Partners



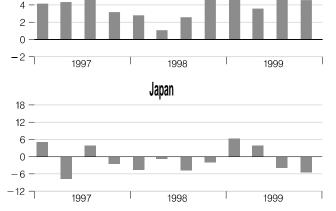






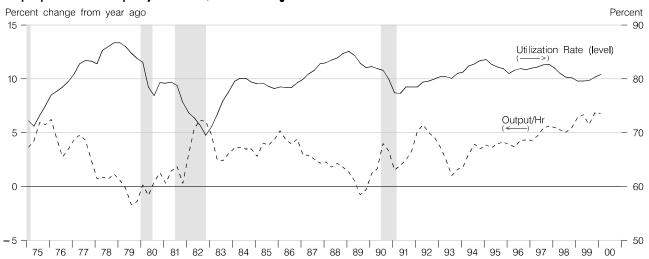
1998

1999

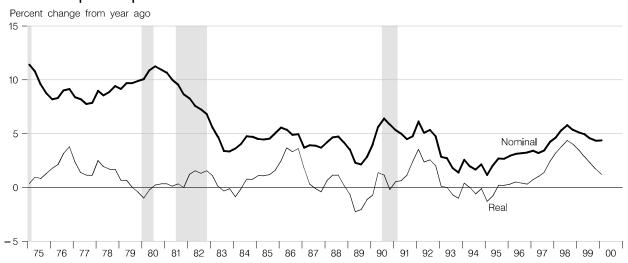


1997

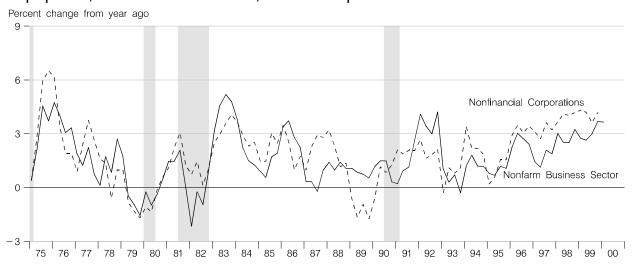
Output per Hour and Capacity Utilization, Manufacturing



Nonfarm Compensation per Hour

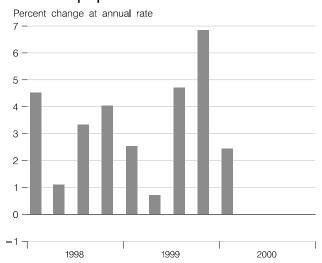


Output per Hour, Nonfarm Business and Nonfarm, Nonfinancial Corporations

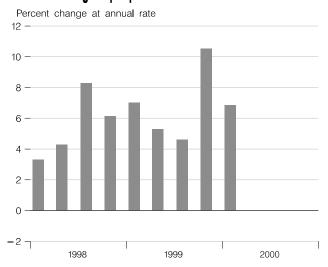


Federal Reserve Bank of St. Louis

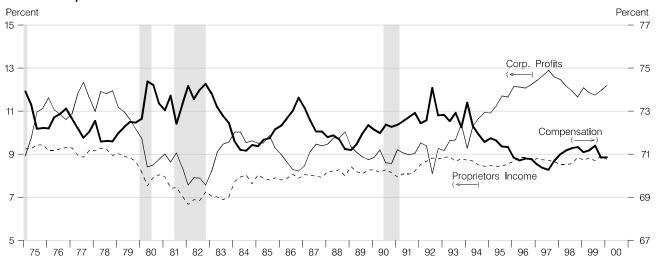
Nonfarm Output per Hour



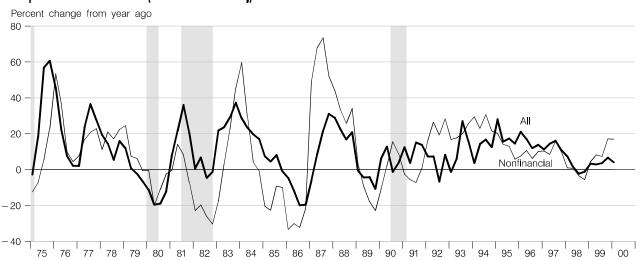
Manufacturing Output per Hour



Selected Component Shares of National Income



Corporate Profits after Tax (with IVA and CCAdj)



Federal Reserve Bank of St. Louis

3

4

2000 1

6015.687

6102.891

6214.345

4.9

5.9

7.5

5.3

5.6

5.8

821.225

846.728

890.597

7.7

13.0

22.4

12.3

10.5

12.9

Federal Reserve Bank of St. Louis

1607.319

1617.785

1692.475

9.0

6.3

8.8

6.8

2.6

19.8

1234.274

1243.241

1315.205

10.9

2.9

25.2 11.2

10.2

7.1

	ı Non	ninal GDP		I	Real GDP		ı Fi	nal Sales		ı Cha	ange in	
	1	Percent ch	ange_		Percent of	change		Percent c	hange	Private Inv		
	Billions	Annual	Year	Billions	Annual	Year	Billions	Annual	Year	Billions	of 1996 \$	
	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	4
1997	8300.8		6.2	8144.839		4.2	8075.512		3.8		69.12	2
1998	8759.9		5.5	8495.650		4.3	8420.774		4.3		74.29	0
1999	9256.1		5.7	8848.220		4.2	8800.515		4.5		42.20	5
1997 1	8125.9	7.4	6.5	8018.735	4.5	4.5	7966.392	3.5	3.9	51.465	41.46	5
2	8259.5	6.7	6.1	8115.383	4.9	4.0	8022.664	2.9	3.2	93.108	57.17	5
3	8364.5	5.2	6.4	8192.187	3.8	4.5	8132.641	5.6	4.4	59.187	59.16	1
4	8453.0	4.3	5.9	8253.208	3.0	4.1	8180.274	2.4	3.6	72.729	69.12	2
1998 1	8610.6	7.7	6.0	8391.110	6.9	4.6	8285.502	5.2	4.0	107.278	83.07	6
2	8683.7	3.4	5.1	8436.348	2.2	4.0	8389.485	5.1	4.6	43.107	70.57	5
3	8797.9	5.4	5.2	8515.730	3.8	3.9	8439.376	2.4	3.8	76.114	74.80	7
4	8947.6	7.0	5.9	8639.491	5.9	4.7	8568.654	6.3	4.7	70.658	74.28	9
1999 1	9072.7	5.7	5.4	8717.623	3.7	3.9	8665.010	4.6	4.6	50.134	60.00	3
2	9146.2	3.3	5.3	8758.251	1.9	3.8	8737.471	3.4	4.1	14.001	52.72	7
3	9297.8	6.8	5.7	8879.824	5.7	4.3	8834.994	4.5	4.7	37.969	43.19	1
4	9507.9	9.3	6.3	9037.181	7.3	4.6	8964.584	6.0	4.6	66.716	42.20	5
2000 1	9697.6	8.2	6.9	9156.723	5.4	5.0	9116.278	6.9	5.2	30.546	37.30	8
	[Con	sumption		Durables	Consumption		Private Fix	ed Investment		Nonreside	ential Fixed Inv	estment
		Percent c			Percent o	-		Percent c			Percent c	
	Billions of 1996 \$	Annual rate	Year ago	Billions of 1996 \$	Annual rate	Year ago	Billions of 1996 \$	Annual rate	Year ago	Billions of 1996 \$	Annual rate	Year ago
1996	5237.499		3.2	616.475		5.6	1212.696		9.3	899.433		10.0
1997	5417.250		3.4	657.372		6.6	1316.018		8.5	995.717		10.7
1998	5681.848		4.9	731.503		11.3	1471.849		11.8	1122.465		12.7
1999	5983.581		5.3	815.704		11.5	1590.484		8.1	1215.764		8.3
1997 1	5349.162	4.4	3.4	642.077	10.9	6.7	1274.143	7.9	9.3	957.923	9.6	11.2
2	5369.327	1.5	2.7	639.673	-1.5	3.1	1300.641	8.6	8.1	980.832	9.9	10.8
3	5453.127	6.4	3.8	669.745	20.2	8.4	1337.931	12.0	8.6	1017.978	16.0	11.3
4	5497.279	3.3	3.9	677.981	5.0	8.4	1351.344	4.1	8.1	1026.127	3.2	9.6
1998 1	5575.108	5.8	4.2	704.908	16.9	9.8	1424.202	23.4	11.8	1088.575	26.7	13.6
2	5658.803	6.1	5.4	723.883	11.2	13.2	1466.695	12.5	12.8	1120.181	12.1	14.2
3	5714.216	4.0	4.8	731.232	4.1	9.2	1473.996	2.0	10.2	1120.316	0.0	10.1
4	5779.318	4.6	5.1	766.001	20.4	13.0	1522.491	13.8	12.7	1160.799	15.3	13.1
1999 1	5871.289	6.5	5.3	788.780	12.4	11.9	1555.853	9.1	9.2	1182.664	7.8	8.6
^	5944.457	5.1	5.0	806.084	9.1	11.4	1580.980	6.6	7.8	1202.875	7.0	7.4
2	3944.437	J. 1	ا ۵.۰		77		1000.500	6.0		1234 274	10.0	10.2

	GDP C	nain Price Indo	ex change	Emplo	yment Cost Ir Percent			ECI: Wages Percent c	change	E	CI: Benefits Percent	change
	Index	Annual rate	Year ago	Index	Annual rate	Year ago	Index	Annual rate	Year ago	Index	Annual rate	Year ago
1996 1997	100.000		1.9 1.9	129.3 133.3		2.8	126.0 130.4		3.3 3.5	137.4 140.2		1.8
1998 1999	103.110 104.550		1.2	138.0 142.4		3.5 3.2	135.7 140.2	***************************************	4.0 3.4	143.6 147.6		2.5 2.8
1997 1 2	101.330	2.8	1.9	131.6	3.1	2.9	128.5	3.5	3.3	138.9	1.2	2.0
3	101.770	1.7 1.3	2.0 1.9	132.7 133.7	3.4 3.0	2.9 3.0	129.7 131.0	3.8 4.1	3.3 3.6	139.7 140.4	2.3 2.0	2.0 2.0
4	102.440	1.3	1.8	135.1	4.3	3.4	132.4	4.3	3.9	141.6	3.5	2.2
1998 1	102.680	0.9	1.3	136.2	3.3	3.5	133.7	4.0	4.0	142.2	1.7	2.4
2	102.960	1.1	1.2	137.3	3.3	3.5	134.9	3.6	4.0	143.2	2.8	2.5
3 4	103.300	1.3 0.8	1.2 1.0	138.8 139.7	4.4	3.8 3.4	136.5	4.8 3.0	4.2 3.9	144.1 144.9	2.5	2.6
also constitues all the delication of the second of the second	103.510		The second section of the section of		2.6		137.5				2.2	2.3
1999 1 2	104.030	2.0 1.3	1.3 1.4	140.3 141.8	1.7 4.3	3.0 3.3	138.1 139.7	1.8 4.7	3.3 3.6	145.4 146.8	1.4 3.9	2.3 2.5
3	104.650	1.1	1.3	143.1	3.7	3.1	140.9	3.5	3.2	148.2	3.9	2.8
4	105.160	2.0	1.6	144.5	4.0	3.4	142.2	3.7	3.4	149.9	4.7	3.5
2000 1	105.860	2.7	1.8	146.6	5.9	4.5	143.9	4.9	4.2	153.4	9.7	5.5
		Exports Percent	change		Imports Percent	change	Nonfarm	Output per Houi		Nonfarm Co	mpensation/Hi 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		2.6	109.8		3.1
1997 1998	983.075 1004.579		12.5 2.2	1095.221 1222.152		13.7 11.6	107.1 110.1		1.6	113.8 119.8		3.6
1999	1004.379		3.8	1365.390		11.7	113.5		2.8 3.1	125.4		5.3 4.7
1997 1	942.103	8.3	11.3	1034.679	15.5	12.3	106.0	0.0	1.4	112.1	3.3	3.4
2	977.594	15.9	13.7	1080.813	19.1	13.7	106.8	3.1	1.1	112.9	2.9	3.2
3	1004.186	11.3	15.8	1125.502	17.6	14.5	107.7	3.4	2.1	114.1	4.3	3.4
4	1008.399	1.7	9.2	1139.901	5.2	14.2	108.0	1.1	1.9	115.9	6.5	4.2
1998 1	1004.492	-1.5	6.6	1178.984	14.4	13.9	109.2	4.5	3.0	117.3	4.9	4.6
2 3	994.518	-3.9	1.7	1215.554	13.0	12.5	109.5	1.1	2.5	118.9	5.6	5.3
4	990.628 1028.671	-1.6 16.3	-1.4 2.0	1230.974 1263.085	5.2 10.8	9.4 10.8	110.4 111.5	3.3 4.0	2.5 3.2	120.7 122.1	6.2 4.7	5.8 5.3
1999 1		A.10.2.202.200.1111111111111111111111111			***************************************		White the same of					
2	1014.300 1024.292	-5.5 4.0	1.0 3.0	1300.887 1345.384	12.5 14.4	10.3 10.7	112.2 112.4	2.5 0.7	2.7 2.6	123.3 124.8	4.0 5.0	5.1 5.0
3	1052.623	11.5	6.3	1392.982	14.9	13.2	113.7	4.7	3.0	126.2	4.6	4.6
4	1078.166	10.1	4.8	1422.309	8.7	12.6	115.6	6.9	3.7	127.4	3.9	4.3
2000 1	1092.573	5.5	7.7	1465.486	12.7	12.7	116.3	2.4	3.7	128.7	4.1	4.4
				F	ederal R	eserve B	ank of St. I	Louis				

		Househ	old Survey E	mployment Percent c	:hange	Nonfar	m Payroll Em	i ployment Percent cl	nange	Non	farm Aggrega Per	ite Hours cent_chan	ne
				Annual	Year			Annual	Year		Monthly		Year
		Thousands	Change	rate	ago	Thousands	Change	rate	ago	Index	rate	rate	ago
	1995	124908	1837		1.5	117189	3054		2.7	133.4			2.7
	1996	126715	1807		1.4	119594	2405		2.1	136.6			2.4
	1997	129565	2850		2.2	122673	3079		2.6	141.4			3.5
	1998	131463	1898		1.5	125803	3130		2.6	145.1			2.6
	1999	133492	2030		1.5	128607	2805		2.2	147.9			1.9
1998	1	130861	413	1.3	1.8	124771	825	2.7	2.7	144.2	0.7	3.0	3.3
1000	2	131256	394	1.2	1.5	125462	691	2.2	2.6	144.7	0.3	1.3	2.7
	3	131526	270	0.8	1.2	126113	651	2.1	2.5	145.3	0.4	1.6	2.4
	4	131320	682	2.1	1.3	126865	752	2.4	2.4	146.2	0.7	2.7	2.1
		132200											
1999		133077	869	2.7	1.7	127640	776	2.5	2.3	147.0	0.5	2.0	1.9
	2	133214	137	0.4	1.5	128246	606	1.9	2.2	147.3	0.2	1.0	1.8
	3	133526	312	0.9	1.5	128936	690	2.2	2.2	148.3	0.7	2.7	2.1
	4	134153	626	1.9	1.5	129606	670	2.1	2.2	149.1	0.6	2.3	2.0
2000) 1	135247	1095	3.3	1.6	130463	856	2.7	2.2	150.4	8.0	3.3	2.3
													· · · · · · · · · · · · · · · · · · ·
1008	Apr	131255	401	3.7	1.6	125220	259	2.5	2.6	144.3	0.1	1.7	2.6
1000	May	131278	23	0.2	1.5	125478	258	2.5	2.6	145.0	0.5	6.0	2.7
	Jun	131276	-44	-0.4	1.4	125689	211	2.0	2.6	144.8	-0.1	-1.6	2.8
	Jul	131274	40	0.4	1.1	125808	119	1.1	2.4	145.2	0.3	3.4	2.7
	Aug	131381	107	1.0	1.1	126170	362	3.5	2.7	145.5	0.2	2.5	2.5
	Sep	131922	541	5.1	1.5	126361	191	1.8	2.5	145.1	-0.3	-3.2	1.9
	Oct					126567	206	2.0	2.4	1460	0.6	7.7	2.3
		131950	28	0.3	1.4					146.0			
	Nov Dec	132156	206	1.9	1.2	126841	274 345	2.6 3.3	2.3	146.1 146.6	0.1 0.3	0.8 4.2	2.0
		132517	361	3.3	1.4	127186			2.4				2.2
1999	Jan	133225	708	6.6	1.8	127378	192	1.8	2.2	146.8	0.1	1.6	1.7
	Feb	133029	-196	-1.8	1.6	127730	352	3.4	2.4	147.3	0.3	4.2	2.1
	Mar	132976	-53	-0.5	1.6	127813	83	0.8	2.3	146.8	-0.3	-4.0	1.9
	Apr	133054	78	0.7	1.4	128134	321	3.1	2.3	147.0	0.1	1.6	1.9
	May	133190	136	1.2	1.5	128162	28	0.3	2.1	147.2	0.1	1.6	1.5
	Jun	133398	208	1.9	1.6	128443	281	2.7	2.2	147.8	0.4	5.0	2.1
	Jul	133399	1	0.0	1.6	128816	373	3.5	2.4	148.3	0.3	4.1	2.1
	Aug	133530	131	1.2	1.6	128945	129	1.2	2.2	148.4	0.1	0.8	2.0
	Sep	133650	120	1.1	1.3	129048	103	1.0	2.1	148.2	-0.1	-1.6	2.1
	Oct	133940	290	2.6	1.5	129332	284	2.7	2.2	148.8	0.4	5.0	1.9
	Nov	134098	158	1.4	1.5	129589	257	2.4	2.2	149.2	0.3	3.3	2.1
	Dec	134420	322	2.9	1.4	129898	309	2.9	2.1	149.4	0.1	1.6	1.9
2000	Jan	135221	801	7.4	1.5	130292	394	3.7	2.3	150.3	0.6	7.5	2.4
	Feb	135362	141	1.3	1.8	130319	27	0.2	2.0	150.1	-0.1	-1.6	1.9
	Mar	135159	-203	-1.8	1.6	130777	458	4.3	2.3	150.7	0.4	4.9	2.7
	Apr	135706	547	5.0	2.0	131117	340	3.2	2.3	151.5	0.5	6.6	3.1
						j .				i			

		Retail Sal Perd		nae		Industrial Pro	Treasury			
Unempl. Rate	Billions of dollars	Monthly/ quarterly	Annual rate	Year ago	Index			Year ago		
5.6	2361.343			5.1	114.418			4.9	5.49	6.58
5.4	2496.503			5.7	119.445			4.4	5.01	6.44
4.9	2612.931			4.7	126.953			6.3	5.06	6.35
4.5	2745.714			5.1	132.365			4.3	4.78	5.26
4.2	2992.367			9.0	136.980			3.5	4.64	5.64
4.7	668,657	0.9	3.8	3.4	130.897	0.6	2.4	5.7	5.05	5.59
	i				1					5.60
4.5	686.919	0.4	1.7		132.811	0.7	2.9	3.8	4.82	5.20
4.4	706.118	2.8	11.7	6.6	133.895	0.8	3.3	2.9	4.26	4.67
4 3	723.050	21	9 0	8.1	134 560	0.5	2.0	2.8	4 41	4.98
	1				1			3.2	į.	5.54
4.2	756.594	2.4	10.1	10.1	137.721	1.2	4.8	3.7	4.65	5.88
4.1	774.076	2.3	9.6	9.6	139.521	1.3	5.3	4.2	5.04	6.14
4.1	799.207	3.2	13.6	10.5	141.630	1.5	6.2	5.2	5.52	6.48
4.4	227.791	0.7	8.9	7.1	132,434	0.6	7.3	5.3	5.00	5.65
	230.046	1.0	12.5	6.4	131.481	-0.7	-8.3	3.9	4.98	5.50
	1				1				í	5.46 5.34
	1				l .				i	4.81
					<u> </u>					
	i									4.53
	1								1	4.83
4.4	237.116	0.8	9.9	6.9	133.801	0.0	0.2	2.5	4.59	4.64
4.3	239.154	0.9	10.8	7.7	134.052	0.2	2.3	2.4	4.34	4.72
4.4	241.580	1.0	12.9	8.5	1	0.3	4.2		4.44	5.00
4.2	242.316	0.3	3.7	8.2	135.147	0.5	5.8	3.1	4.44	5.23
4.3	244.351	0.8	10.6	8.0	135.472	0.2	2.9	2.9	4.29	5.18
4.2	246.991	1.1	13.8	8.4	136.215	0.5	6.8	2.9	4.50	5.54
4.3	247.305	0.1	1.5	7.5	136.639	0.3	3.8	3.9	4.57	5.90
4.3	249.816	1.0	12.9	9.5	137.363	0.5	6.5	4.6	4.55	5.79
4.2	253.030	1.3		10.9	137.736	0.3	3.3		4.72	5.94
4.2	253.748	0.3	3.5	10.0	138.064	0.2	2.9	3.4	4.68	5.92
A 1	25/ 050	0.5	5.9	Q 1	139.056	0.7	a n	3.7	4 86	6.11
					ľ					6.03
4.1	261.628	1.6	21.1	10.3	140.075	0.5	5.7	4.7	5.20	6.28
4.0	263.493	0.7	8.9	10.2	141.117	0.7	9.3	5.3	5.32	6.66
4.1	267.164	1.4	18.1	10.6	141.366	0.2	2.1	5.1	5.55	6.52
4.1	268.550	0.5	6.4	10.8	142.408	0.7	9.2	5.4	5.69	6.26
3.9	268.065	-0.2	-2.1	9.7	143.683	0.9	11.3	6.1	5.66 5.79	5.99 6.44
	Rate 5.6 5.4 4.9 4.5 4.2 4.7 4.4 4.5 4.4 4.3 4.3 4.2 4.1 4.1 4.1 4.4 4.3 4.4 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.1 4.1 4.1 4.0 4.1 4.1 4.0 4.1 4.1	Rate of dollars 5.6 2361.343 5.4 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 4.7 668.657 4.4 2992.367 4.5 686.919 4.4 706.118 4.3 723.050 4.3 738.647 4.2 756.594 4.1 774.076 4.1 799.207 4.5 228.231 4.5 228.231 4.5 230.046 4.5 233.751 4.4 237.116 4.3 239.154 4.4 241.580 4.2 242.316 4.3 244.351 4.2 242.316 4.3 244.351 4.2 240.991 4.3 247.305 4.3 249.816 4.2 253.030 4.2 253.748 <t< td=""><td>Unempl. Rate Billions of dollars Monthly/ quarterly 5.6 2361.343 5.4 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 4.7 668.657 0.9 4.4 684.020 2.3 4.5 686.919 0.4 4.4 706.118 2.8 4.3 738.647 2.2 4.2 756.594 2.4 4.1 774.076 2.3 4.1 799.207 3.2 4.5 228.231 -0.8 4.5 228.231 -0.8 4.5 228.078 -0.1 4.5 230.046 1.0 4.5 230.5010 1.1 4.5 233.751 1.4 4.4 235.251 0.6 4.4 237.116 0.8 4.3 239.154 0.9 4.4 241.580 1.0 4.2 <t< td=""><td>Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate 5.6 2361.343 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 0.9 3.8 4.4 684.020 2.3 9.5 4.5 686.919 0.4 1.7 4.3 738.647 2.2 8.9 4.2 756.594 2.4 10.1 4.1 774.076 2.3 9.6 4.1 799.207 3.2 13.6 4.4 227.791 0.7 8.9 4.5 230.046 1.0 12.5 4.5 228.231 -0.8 -9.1 4.5 230.046 1.0 12.5 4.5 230.610 1.1 14.2 4.5 233.751 1.4 17.6 4.4 237.116 0.8 9.9 4.3 239.154 0.9 10.8 4.4 241.580 1.0</td></t<><td>Râtê of dollars quarterly rate ago 5.6 2361.343 5.1 5.4 2496.503 5.7 4.9 2612.931 4.7 4.5 2745.714 5.1 4.2 2992.367 9.0 4.7 668.657 0.9 3.8 3.4 4.4 684.020 2.3 9.5 6.1 4.5 686.919 0.4 1.7 4.2 4.4 706.118 2.8 11.7 6.6 4.3 723.050 2.4 9.9 8.1 4.3 738.647 2.2 8.9 8.0 4.2 756.594 2.4 10.1 10.1 4.1 774.076 2.3 9.6 9.6 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 233.751<td>Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate Year ago Index 5.6 2361.343 5.1 114.418 5.4 2496.503 5.7 119.445 4.9 2612.931 4.7 126.935 4.7 126.936 4.5 2745.714 5.1 132.935 136.980 4.7 668.657 0.9 3.8 3.4 130.897 4.4 684.020 2.3 9.5 6.1 131.856 4.5 686.919 0.4 1.7 4.2 132.811 4.4 706.118 2.8 11.7 6.6 133.895 4.3 723.050 2.4 9.9 8.1 134.569 4.3 738.647 2.2 8.9 8.0 136.109 4.2 756.594 2.4 10.1 10.1 137.721 4.1 799.207 3.2 13.6 10.5 141.630 4.5 228.231 -0.8 -9.1 4.3<</td><td> Dimbook Palle Palle </td><td> </td><td> </td><td> </td></td></td></t<>	Unempl. Rate Billions of dollars Monthly/ quarterly 5.6 2361.343 5.4 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 4.7 668.657 0.9 4.4 684.020 2.3 4.5 686.919 0.4 4.4 706.118 2.8 4.3 738.647 2.2 4.2 756.594 2.4 4.1 774.076 2.3 4.1 799.207 3.2 4.5 228.231 -0.8 4.5 228.231 -0.8 4.5 228.078 -0.1 4.5 230.046 1.0 4.5 230.5010 1.1 4.5 233.751 1.4 4.4 235.251 0.6 4.4 237.116 0.8 4.3 239.154 0.9 4.4 241.580 1.0 4.2 <t< td=""><td>Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate 5.6 2361.343 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 0.9 3.8 4.4 684.020 2.3 9.5 4.5 686.919 0.4 1.7 4.3 738.647 2.2 8.9 4.2 756.594 2.4 10.1 4.1 774.076 2.3 9.6 4.1 799.207 3.2 13.6 4.4 227.791 0.7 8.9 4.5 230.046 1.0 12.5 4.5 228.231 -0.8 -9.1 4.5 230.046 1.0 12.5 4.5 230.610 1.1 14.2 4.5 233.751 1.4 17.6 4.4 237.116 0.8 9.9 4.3 239.154 0.9 10.8 4.4 241.580 1.0</td></t<> <td>Râtê of dollars quarterly rate ago 5.6 2361.343 5.1 5.4 2496.503 5.7 4.9 2612.931 4.7 4.5 2745.714 5.1 4.2 2992.367 9.0 4.7 668.657 0.9 3.8 3.4 4.4 684.020 2.3 9.5 6.1 4.5 686.919 0.4 1.7 4.2 4.4 706.118 2.8 11.7 6.6 4.3 723.050 2.4 9.9 8.1 4.3 738.647 2.2 8.9 8.0 4.2 756.594 2.4 10.1 10.1 4.1 774.076 2.3 9.6 9.6 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 233.751<td>Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate Year ago Index 5.6 2361.343 5.1 114.418 5.4 2496.503 5.7 119.445 4.9 2612.931 4.7 126.935 4.7 126.936 4.5 2745.714 5.1 132.935 136.980 4.7 668.657 0.9 3.8 3.4 130.897 4.4 684.020 2.3 9.5 6.1 131.856 4.5 686.919 0.4 1.7 4.2 132.811 4.4 706.118 2.8 11.7 6.6 133.895 4.3 723.050 2.4 9.9 8.1 134.569 4.3 738.647 2.2 8.9 8.0 136.109 4.2 756.594 2.4 10.1 10.1 137.721 4.1 799.207 3.2 13.6 10.5 141.630 4.5 228.231 -0.8 -9.1 4.3<</td><td> Dimbook Palle Palle </td><td> </td><td> </td><td> </td></td>	Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate 5.6 2361.343 2496.503 4.9 2612.931 4.5 2745.714 4.2 2992.367 0.9 3.8 4.4 684.020 2.3 9.5 4.5 686.919 0.4 1.7 4.3 738.647 2.2 8.9 4.2 756.594 2.4 10.1 4.1 774.076 2.3 9.6 4.1 799.207 3.2 13.6 4.4 227.791 0.7 8.9 4.5 230.046 1.0 12.5 4.5 228.231 -0.8 -9.1 4.5 230.046 1.0 12.5 4.5 230.610 1.1 14.2 4.5 233.751 1.4 17.6 4.4 237.116 0.8 9.9 4.3 239.154 0.9 10.8 4.4 241.580 1.0	Râtê of dollars quarterly rate ago 5.6 2361.343 5.1 5.4 2496.503 5.7 4.9 2612.931 4.7 4.5 2745.714 5.1 4.2 2992.367 9.0 4.7 668.657 0.9 3.8 3.4 4.4 684.020 2.3 9.5 6.1 4.5 686.919 0.4 1.7 4.2 4.4 706.118 2.8 11.7 6.6 4.3 723.050 2.4 9.9 8.1 4.3 738.647 2.2 8.9 8.0 4.2 756.594 2.4 10.1 10.1 4.1 774.076 2.3 9.6 9.6 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 228.231 -0.8 -9.1 4.3 4.5 233.751 <td>Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate Year ago Index 5.6 2361.343 5.1 114.418 5.4 2496.503 5.7 119.445 4.9 2612.931 4.7 126.935 4.7 126.936 4.5 2745.714 5.1 132.935 136.980 4.7 668.657 0.9 3.8 3.4 130.897 4.4 684.020 2.3 9.5 6.1 131.856 4.5 686.919 0.4 1.7 4.2 132.811 4.4 706.118 2.8 11.7 6.6 133.895 4.3 723.050 2.4 9.9 8.1 134.569 4.3 738.647 2.2 8.9 8.0 136.109 4.2 756.594 2.4 10.1 10.1 137.721 4.1 799.207 3.2 13.6 10.5 141.630 4.5 228.231 -0.8 -9.1 4.3<</td> <td> Dimbook Palle Palle </td> <td> </td> <td> </td> <td> </td>	Unempl. Rate Billions of dollars Monthly/ quarterly Annual rate Year ago Index 5.6 2361.343 5.1 114.418 5.4 2496.503 5.7 119.445 4.9 2612.931 4.7 126.935 4.7 126.936 4.5 2745.714 5.1 132.935 136.980 4.7 668.657 0.9 3.8 3.4 130.897 4.4 684.020 2.3 9.5 6.1 131.856 4.5 686.919 0.4 1.7 4.2 132.811 4.4 706.118 2.8 11.7 6.6 133.895 4.3 723.050 2.4 9.9 8.1 134.569 4.3 738.647 2.2 8.9 8.0 136.109 4.2 756.594 2.4 10.1 10.1 137.721 4.1 799.207 3.2 13.6 10.5 141.630 4.5 228.231 -0.8 -9.1 4.3<	Dimbook Palle Palle			

		Consum	er Price Inde				Consumer Price Index less Food and Energy Percent_change					Producer Price Index Finished Goods Percent change			
	Index	Monthly/ quarterly	Percent of Annual rate	Year ago	Year to date	Index	Monthly/ quarterly		Year ago	Year to date	Index	Monthly/ quarterly	Annual	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	162.1	0.4	1.7	1.6	1.3	173.2	0.7	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	-0.6	
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 2.1	2.0 2.1	133.6 134.7	1.0 0.8	4.0 3.4	2.3 2.9	
2000 1	170.1	1.0	4.0	3.2	4.0	170.7	0.6	2.3	2.1	2.3	136.4	1.2	4.9	3.8	
	170.1	7.0	4.0	3.2	4.0	173.7	0.0	2.0	21	2.3	130.4	1.2	7.5	5.0	
998 Apr	162.5	0.2	2.2	1.5	1.3	172.9	0.2	2.8	2.2	2.8	130.6	0.0	0.0	-0.9	
May	162.8	0.2	2.2	1.7	1.5	173.3	0.2	2.8	2.2	2.8	130.5	-0.1	-0.9	-0.7	
Jun	163.0	0.1	1.5	1.6	1.5	173.5	0.1	1.4	2.3	2.6	130.5	0.0	0.0	-0.6	
Jul	163.3	0.2	2.2	1.7	1.6	173.8	0.2	2.1	2.2	2.5	130.8	0.2	2.8	-0.2	
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	0.5	5.6	1.2	
May	166.2	0.0	0.0	2.3	2.6	176.7	0.5	0.7	2.0	1.8	132.2	0.3	0.9	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			The same and same to the first the first time?				~/		·		Const. of Const. p. s. sectors (p. s				
Aug	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	
Sep	167.2	0.3	3.7	2.3	2.6 2.8	177.5	0.1 0.3	0.7 4.1	1.9	1.7	133.5	0.6	7.5	2.4	
	167.8	0.4	4.4	2.6		178.1			2.1	2.0	134.6	0.8	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	
2000 Jan	169.1	0.2	2.2	2.7	2.2	179.2	0.2	2.0	1.9	2.0	135.0	0.1	0.9	2.6	
Feb	170.0	0.5	6.6	3.2	4.3	179.5	0.2	2.0	2.1	2.0	136.4	1.0	13.2	4.0	
Mar	171.2	0.7	8.8	3.7	5.8	180.3	0.4	5.5	2.4	3.2	137.7	1.0	12.1	4.6	
Apr	171.2	0.0	0.0	3.0	4.3	180.6	0.2	2.0	2.2	2.9	137.3	-0.3	-3.4	3.9	

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)