

## Overblown Productivity?

A strange thing happened on the way to the 21 st 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 90 s. Talk about know-how in American manufacturing!

Across all businesses, though, the story's not as glamourous. Yes, productivity growth during the 90 s 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 growingan average of 1.9 percent a year during the 90 s 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.

[^0]Real GDP Growh


Industrial Production
Percent change
2.4


Change in Noniarm Payolls
Thousands 500 -

$-10071997 \quad \mid \quad 1998 \quad 1 \quad 2000$

## Consumer Price Index



## Interess Rates



## Unemployment Rate



Real Gross Domestic Product
Percent change from year ago


## Industrial Production and Purchasing Managaess' (NAPM) Indexes



## Aggregate Private Noniarm Hours



## Real Chang in Private Inventories




## Aggregate Private Noniamm Hours



Real Change in Private linvertories


## Real GDP Revisions



Nominal Gross Domestic Product


## Average Weekly Private Noniamm Hours

Hours
35.00 -
34.2575

## Inventory-Sales Ratio

Manufacturing and trade


## Contribution of Componenis to Peal GDP Growth

Percent change at annual rate



## 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 | 1.95 | 0.34 | 2.20 | 1.49 | 1.10 | 1.16 | 0.48 | 3.13 |
| Nonresidential | 1.42 | 0.01 | 1.79 | 0.95 | 0.86 | 1.33 | 0.39 | 2.90 |
| Residential | 0.53 | 0.33 | 0.41 | 0.54 | 0.24 | -0.17 | 0.09 | 0.23 |
| Government | 1.03 | 0.24 | 0.53 | 0.88 | 0.23 | 0.81 | 1.61 | -0.20 |
| Federal | 0.69 | -0.14 | 0.24 | -0.03 | 0.13 | 0.26 | 0.87 | -1.00 |
| State and Local | 0.34 | 0.38 | 0.29 | 0.91 | 0.10 | 0.55 | 0.75 | 0.80 |
| Net Exports | -2.01 | -0.82 | 0.33 | -2.13 | -1.35 | -0.73 | -0.12 | -1.12 |
| Exports | -0.45 | -0.17 | 1.67 | -0.61 | 0.42 | 1.19 | 1.08 | 0.60 |
| Imports | -1.56 | -0.65 | -1.34 | -1.53 | -1.77 | -1.92 | -1.20 | -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 Poo's 50O Index with Reinvesied Dividends



NPPA Chain Price Indexes
Percent change from year ago


## Consumer Price Index



## Producer Price Index, Finished Goods



Employment Cosithdex and Compensation per Hour


NPA Chain Price Indexes


## Consumer Price Index



## Producer Price Index, Finished Goods



## Employment Cost Index



## Crude Oil Price

Dollars per barrel


## Consumption Chain Price Index



## Unit Labor Cost

Percent change at annual rate
$6-$
$-6-2-1999$

## Compensation per Hour



## Employment



## Unemployment, Labor Force Participation and Employment Rates



## Duration of Unemployment



Federal Reserve Bank of St. Louis

## Change in Noniamm Payolls <br> Thousands <br> 500 - <br> 

Change in Household Employment
Thousands
1300 -


## Available Labor Supply and Components



## Change in Manuíacuring Payolls



Labor Force and Population


Unemployment Rate and Help.Warted Advertising Index


## Real Disposable Personal Income



## Real Consumpion



## Realil Sales

Percent change from year ago, quarterly average


## Housertod Dediolistanding




Retail Sales
Percent change


Consumer Sentiment (U. of Nichigan)


8071995 | 1996 | 1997 | 1998 | 1999 | 2000 ।

## Personal Saving Rate



## Real Consumpion



## Real Durables Consumption and Vehicle Sales



Real Durables Consumption
Percent change at annual rate 30 -


## Real Invesiment

Percent of GDP


## Real Piviale Fixed livestment



## Real Nonresidential Fixed and Equipment \& Sotware Invesiment



## Real Residential Fixed Invesment



## Gross Saving Rates and Net Foreign Investment



## Real Privaie Fixed Invesiment



## Real Equipment \& Sotware Invesiment



## Real Residential Fixed Investment



## Nondelemsec Capita Goods Ordess

Percent change from year ago, excluding aircraft
$30-$


Real Nonresidential Fixed Investment


## Housing Starts




## Government Budgeis

Billions of dolars National Income Accounts
Calendar Years

|  | State and Local |  |  | Federal |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |

## Unified Budget

Fiscal Years

|  | Federal |  |
| ---: | ---: | ---: |
| Receipts | Outlays | Surplus or <br> Deficit( |
| 279.1 | 332.3 | -53.2 |
| 298.1 | 371.8 | -73.7 |
| 355.6 | 409.2 | -53.7 |
| 399.6 | 458.7 | -59.2 |
| 463.3 | 504.0 | -40.7 |
| 517.1 | 590.9 | -73.8 |
| 599.3 | 678.2 | -79.0 |
| 617.8 | 745.8 | -128.0 |
| 600.6 | 808.4 | -207.8 |
| 666.5 | 851.9 | -185.4 |
| 734.1 | 946.4 | -212.3 |
| 769.2 | 990.5 | -221.2 |
| 854.4 | 1004.1 | -149.8 |
| 909.3 | 1064.5 | -155.2 |
| 991.2 | 1143.7 | -152.5 |
| 1032.0 | 1253.2 | -221.2 |
| 1055.0 | 1324.4 | -269.4 |
| 1091.3 | 1381.7 | -290.4 |
| 1154.4 | 1409.5 | -255.1 |
| 1258.6 | 1461.9 | -203.3 |
| 1351.8 | 1515.8 | -164.0 |
| 1453.1 | 1560.6 | -107.5 |
| 1579.3 | 1601.3 | -22.0 |
| 1721.8 | 1652.6 | 69.2 |
| 1827.5 | 1703.0 | 124.4 |
|  |  |  |

Federal Debt
Percent of GDP


Change in Federal Debt
Percent of GDP


## Federal Deficit



## Federal Defictit, Unified Basis

Billions of dollars, fiscal years $500-$


## Federal Government Debt

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

| excluang agency-iss |  | Total Public Debt | Held by Agencies and Trusts | Held by Public |  | Held by Private Investors |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 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 Investiment Income Balances



## Exchange Rates



Goods Export Shares, 1999


Goods Import Shares, 1999


Trade Balance


## Current Account Balance



## Real GDP Growth of Major Trading Partners

Percent change at annual rate



Japan


## Goods Trade



## Sevices Trade

Percent change from year ago 20 -





## Output per Hour and Capacity Utilization, Manuruacuring



## Nonifarm Compensation per Hour



## Output per Hour, Noniarm Business and Nontiam, Nonfinancial Corpootions



Noriam Output per Hour


## Manufacturing Output per Hour



## Selected Component Shares of Naitonal Income



## Corporate Proitis atter Tax (with WVA and CCAdi)



|  |  | Nominal GDP <br> Percent change |  |  | RealGDP <br> Percent change |  |  | Final Sales <br> Percent change |  |  | Change in Private Inveritories |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Billions of \$ | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ | $\begin{aligned} & \text { Billions } \\ & \text { of } 1996 \$ \$ \end{aligned}$ | Annual rate | Year ago | $\begin{aligned} & \text { Billions } \\ & \text { of } 1996 \$ \end{aligned}$ | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ | Billions of $1996 \$$Last qtr Year/Year ago |  |  |
|  | 996 | 7813.2 |  | 5.6 | 7813.170 |  | 3.6 | 7783.176 |  | 3.6 |  | 29.994 |  |
|  | 997 | 8300.8 |  | 6.2 | 8144.839 |  | 4.2 | 8075.512 |  | 3.8 |  | 69.122 |  |
|  | 998 | 8759.9 |  | 5.5 | 8495.650 |  | 4.3 | 8420.774 |  | 4.3 |  | 74.290 |  |
|  | 999 | 9256.1 |  | 5.7 | 8848.220 |  | 4.2 | 8800.515 |  | 4.5 |  | 42.205 |  |
| 1997 |  | 8125.9 | 7.4 | 6.5 | 8018.735 | 4.5 | 4.5 | 7966.392 | 3.5 | 3.9 | 51.465 | 41.465 |  |
|  | 2 | 8259.5 | 6.7 | 6.1 | 8115.383 | 4.9 | 4.0 | 8022.664 | 2.9 | 3.2 | 93.108 | 57.175 |  |
|  | 3 | 8364.5 | 5.2 | 6.4 | 8192.187 | 3.8 | 4.5 | 8132.641 | 5.6 | 4.4 | 59.187 | 59.161 |  |
|  | 4 | 8453.0 | 4.3 | 5.9 | 8253.208 | 3.0 | 4.1 | 8180.274 | 2.4 | 3.6 | 72.729 | 69.122 |  |
| 1998 | 1 | 8610.6 | 7.7 | 6.0 | 8391.110 | 6.9 | 4.6 | 8285.502 | 5.2 | 4.0 | 107.278 | 83.076 |  |
|  | 2 | 8683.7 | 3.4 | 5.1 | 8436.348 | 2.2 | 4.0 | 8389.485 | 5.1 | 4.6 | 43.107 | 70.575 |  |
|  | 3 | 8797.9 | 5.4 | 5.2 | 8515.730 | 3.8 | 3.9 | 8439.376 | 2.4 | 3.8 | 76.114 | 74.807 |  |
|  | 4 | 8947.6 | 7.0 | 5.9 | 8639.491 | 5.9 | 4.7 | 8568.654 | 6.3 | 4.7 | 70.658 | 74.289 |  |
| 1999 | 1 | 9072.7 | 5.7 | 5.4 | 8717.623 | 3.7 | 3.9 | 8665.010 | 4.6 | 4.6 | 50.134 | 60.003 |  |
|  | 2 | 9146.2 | 3.3 | 5.3 | 8758.251 | 1.9 | 3.8 | 8737.471 | 3.4 | 4.1 | 14.001 | 52.727 |  |
|  | 3 | 9297.8 | 6.8 | 5.7 | 8879.824 | 5.7 | 4.3 | 8834.994 | 4.5 | 4.7 | 37.969 | 43.191 |  |
|  | 4 | 9507.9 | 9.3 | 6.3 | 9037.181 | 7.3 | 4.6 | 8964.584 | 6.0 | 4.6 | 66.716 | 42.205 |  |
| 2000 |  | 9697.6 | 8.2 | 6.9 | 9156.723 | 5.4 | 5.0 | 9116.278 | 6.9 | 5.2 | 30.546 | 37.308 |  |
|  |  | Consumption <br> Percent change |  |  | Durables Consumption <br> Percent change |  |  | Private Fixed Investment <br> Percent change |  |  | Nonresidential Fixed Invesiment <br> Percent change |  |  |
|  |  | Billions of 1996 \$ | Annual rate | Year ago | Billions of $1996 \$$ | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ | Billions of $1996 \$$ | Annual rate | Year ago | Billions of $1996 \$ \$$ | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ |
|  | 996 | 5237.499 |  | 3.2 | 616.475 |  | 5.6 | 1212.696 |  | 9.3 | 899.433 |  | 10.0 |
|  | 997 | 5417.250 |  | 3.4 | 657.372 |  | 6.6 | 1316.018 |  | 8.5 | 995.717 |  | 10.7 |
|  | 998 | 5681.848 |  | 4.9 | 731.503 |  | 11.3 | 1471.849 |  | 11.8 | 1122.465 |  | 12.7 |
|  | 999 | 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 |
|  | 2 | 5944.457 | 5.1 | 5.0 | 806.084 | 9.1 | 11.4 | 1580.980 | 6.6 | 7.8 | 1202.875 | 7.0 | 7.4 |
|  | 3 | 6015.687 | 4.9 | 5.3 | 821.225 | 7.7 | 12.3 | 1607.319 | 6.8 | 9.0 | 1234.274 | 10.9 | 10.2 |
|  | 4 | 6102.891 | 5.9 | 5.6 | 846.728 | 13.0 | 10.5 | 1617.785 | 2.6 | 6.3 | 1243.241 | 2.9 | 7.1 |
| 2000 | 1 | 6214.345 | 7.5 | 5.8 | 890.597 | 22.4 | 12.9 | 1692.475 | 19.8 | 8.8 | 1315.205 | 25.2 | 11.2 |
|  |  |  |  |  |  | deral R | erve | Jank of St. | uis |  |  |  |  |



|  |  | Household Survey Employment <br> Percent change |  |  |  | Noniarm Payroll Employment Percent |  |  |  | Nonfarm Aggregate Hours Percent change |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Thousands | Change | Annual rate | Year ago | Thousands | Change | Annual rate | Year ago | Index | Monthly rate | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ |
|  | 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 |
|  | 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 | 132208 | 682 | 2.1 | 1.3 | 126865 | 752 | 2.4 | 2.4 | 146.2 | 0.7 | 2.7 | 2.1 |
| 1999 | 1 | 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 | 0.8 | 3.3 | 2.3 |
| 1998 | Apr | 131255 | 401 | 3.7 | 1.6 | 125220 | 259 | 2.5 | 2.6 | 144.3 | 0.1 | 1.7 | 2.6 |
|  | May | 131278 | 23 | 0.2 | 1.5 | 125478 | 258 | 2.5 | 2.6 | 145.0 | 0.5 | 6.0 | 2.7 |
|  | Jun | 131234 | -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 | 131950 | 28 | 0.3 | 1.4 | 126567 | 206 | 2.0 | 2.4 | 146.0 | 0.6 | 7.7 | 2.3 |
|  | Nov | 132156 | 206 | 1.9 | 1.2 | 126841 | 274 | 2.6 | 2.3 | 146.1 | 0.1 | 0.8 | 2.0 |
|  | Dec | 132517 | 361 | 3.3 | 1.4 | 127186 | 345 | 3.3 | 2.4 | 146.6 | 0.3 | 4.2 | 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 |

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|  | Unempl: Rate | Billions of dollars | Retail Sales$\qquad$ |  |  | Index | Industrial Production$\qquad$ |  |  | Treasury Yields |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Monthly/ quarterly | Annual rate | Year ago |  | Monthly/ quarterly | Annual rate | $\begin{aligned} & \text { Year } \\ & \text { ago } \end{aligned}$ |  |  |
| 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 |
| 1999 | 4.2 | 2992.367 |  |  | 9.0 | 136.980 |  |  | 3.5 | 4.64 | 5.64 |
| 19981 | 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 |
| 19991 | 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 | 738.647 | 2.2 | 8.9 | 8.0 | 136.109 | 1.1 | 4.7 | 3.2 | 4.45 | 5.54 |
| 3 | 4.2 | 756.594 | 2.4 | 10.1 | 10.1 | 137.721 | 1.2 | 4.8 | 3.7 | 4.65 | 5.88 |
| 4 | 4.1 | 774.076 | 2.3 | 9.6 | 9.6 | 139.521 | 1.3 | 5.3 | 4.2 | 5.04 | 6.14 |
| 20001 | 4.1 | 799.207 | 3.2 | 13.6 | 10.5 | 141.630 | 1.5 | 6.2 | 5.2 | 5.52 | 6.48 |
| 1998 May | 4.4 | 227.791 | 0.7 | 8.9 | 7.1 | 132.434 | 0.6 | 7.3 | 5.3 | 5.00 | 5.65 |
| Jun | 4.5 | 230.046 | 1.0 | 12.5 | 6.4 | 131.481 | -0.7 | $-8.3$ | 3.9 | 4.98 | 5.50 |
| Jul | 4.5 | 228.231 | -0.8 | -9.1 | 4.3 | 131.291 | -0.1 | -1.7 | 3.2 | 4.96 | 5.46 |
| Aug | 4.5 | 228.078 | -0.1 | -0.8 | 3.6 | 133.593 | 1.8 | 23.2 | 4.4 | 4.90 | 5.34 |
| 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 |
| Nov | 4.4 | 235.251 | 0.6 | 8.0 | 6.5 | 133.777 | -0.2 | -2.9 | 2.8 | 4.42 | 4.83 |
| Dec | 4.4 | 237.116 | 0.8 | 9.9 | 6.9 | 133.801 | 0.0 | 0.2 | 2.5 | 4.39 | 4.64 |
| 1999 Jan | 4.3 | 239.154 | 0.9 | 10.8 | 7.7 | 134.052 | 0.2 | 2.3 | 2.4 | 4.34 | 4.72 |
| Feb | 4.4 | 241.580 | 1.0 | 12.9 | 8.5 | 134.509 | 0.3 | 4.2 | 2.9 | 4.44 | 5.00 |
| Mar | 4.2 | 242.316 | 0.3 | 3.7 | 8.2 | 135.147 | 0.5 | 5.8 | 3.1 | 4.44 | 5.23 |
| Apr | 4.3 | 244.351 | 0.8 | 10.6 | 8.0 | 135.472 | 0.2 | 2.9 | 2.9 | 4.29 | 5.18 |
| May | 4.2 | $246.991$ | 1.1 | $13.8$ | $8.4$ | $136.215$ | $0.5$ | $6.8$ | $2.9$ | 4.50 | $5.54$ |
| Jun | 4.3 | 247.305 | 0.1 | 1.5 | 7.5 | 136.639 | 0.3 | 3.8 | 3.9 | 4.57 | 5.90 |
| Jul | 4.3 | 249.816 | 1.0 | 12.9 | 9.5 | 137.363 | 0.5 | 6.5 | 4.6 | 4.55 | 5.79 |
| Aug | $4.2$ | $253.030$ | $1.3$ | 16.6 | 10.9 | 137.736 | 0.3 | 3.3 | 3.1 | 4.72 | 5.94 |
| Sep | 4.2 | 253.748 | 0.3 | 3.5 | 10.0 | 138.064 | 0.2 | 2.9 | 3.4 | 4.68 | 5.92 |
| Oct | 4.1 | 254.959 | 0.5 | 5.9 | 9.1 | 139.056 | 0.7 | 9.0 | 3.7 | 4.86 | 6.11 |
| Nov | 4.1 | 257.489 | 1.0 | 12.6 | 9.5 | 139.433 | 0.3 | 3.3 | 4.2 | 5.07 | 6.03 |
| Dec | 4.1 | 261.628 | 1.6 | 21.1 | 10.3 | 140.075 | 0.5 | 5.7 | 4.7 | 5.20 | 6.28 |
| 2000 Jan | 4.0 | 263.493 | 0.7 | 8.9 | 10.2 | 141.117 | 0.7 | 9.3 | 5.3 | 5.32 | 6.66 |
| Feb | 4.1 | 267.164 | 1.4 | 18.1 | 10.6 | 141.366 | 0.2 | 2.1 | 5.1 | 5.55 | 6.52 |
| Mar | 4.1 | 268.550 | 0.5 | 6.4 | 10.8 | 142.408 | 0.7 | 9.2 | 5.4 | 5.69 | 6.26 |
| Apr <br> May | 3.9 | 268.065 | -0.2 | $-2.1$ | 9.7 | 143.683 | 0.9 | 11.3 | 6.1 | $\begin{aligned} & 5.66 \\ & 5.79 \end{aligned}$ | $\begin{aligned} & 5.99 \\ & 6.44 \end{aligned}$ |

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|  | Consumer Price Index <br> Percent change |  |  |  |  | Consumer Price Index less Food and Energy <br> Percent change |  |  |  |  |  | Producer Price Index Finished Goods <br> Percent change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Index | Monthly/ quarterly | Annual rate | Year ago | Year to date | Index | Monthly/ quarterly | Annual rate | Year ago | Year to date | Index | Monthly/ quarterly | Annual rate | Year ago |
| 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 |
| 19981 | 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 | -0.6 |
| 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 |
| 19991 | 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 |
| 2 | 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 |
| 3 | 167.2 | 0.6 | 2.5 | 2.3 | 2.5 | 177.7 | 0.5 | 1.9 | 2.0 | 2.0 | 133.6 | 1.0 | 4.0 | 2.3 |
| 4 | 168.4 | 0.7 | 2.9 | 2.6 | 2.6 | 178.7 | 0.6 | 2.3 | 2.1 | 2.1 | 134.7 | 0.8 | 3.4 | 2.9 |
| 20001 | 170.1 | 1.0 | 4.0 | 3.2 | 4.0 | 179.7 | 0.6 | 2.3 | 2.1 | 2.3 | 136.4 | 1.2 | 4.9 | 3.8 |
| 1998 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 |
| $1999 \text { Jan }$ | 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 | 2.1 | 2.6 | 176.8 | 0.1 | 0.7 | 2.0 | 1.8 | 132.3 | 0.1 | 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 | 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 | 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 |

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## 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 inven-tory-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 ( $\pm 0.2$ percentage points) and change in household survey employment $( \pm 376,000)$ 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 $\boldsymbol{\&}$ 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 ( $\mathrm{Y} / \mathrm{H}$ ), unit labor cost $(\mathrm{C} / \mathrm{Y})$, and compensation per hour $(\mathrm{C} / \mathrm{H})$ are indexes which approximately obey the following relationship: $\%(\mathrm{Y} / \mathrm{H})+\%(\mathrm{C} / \mathrm{Y})=\%(\mathrm{C} / \mathrm{H})$ 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)


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