

SURVEY of CURRENT BUSINESS



In This Issue...

Federal Budget Estimates, Fiscal Year 2001

An Examination of the Low Rates of Return of Foreign-Owned U.S. Companies

U.S. DEPARTMENT OF COMMERCE \sim ECONOMICS AND STATISTICS ADMINISTRATION BUREAU OF ECONOMIC ANALYSIS



Survey of Current Business

The Survey of Current Business (ISSN 0039-6222) is published monthly by the Bureau of Economic Analysis of the U.S. Department of Commerce. Editorial correspondence should be addressed to the Editor-in-Chief, SURVEY OF CUR-RENT BUSINESS, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230.

Subscriptions to the Survey of Current Business are maintained, and their prices set, by the Government Printing Office, an agency of the U.S. Congress.

Send address changes to Superintendent of Documents U.S. Government Printing Office Washington, DC 20402

To subscribe, call 202-512-1800. To inquire about your subscription, call 202-512-1806.

Subscription and single-copy prices:

Periodicals:

\$48.00 domestic

\$60.00 foreign

First-class mail: \$120.00

Single copy:

\$17.25 domestic

\$21.56 foreign

Make checks payable to the Superintendent of Documents.

Periodicals postage paid at Washington, DC and at additional mailing offices (USPS 337-790).

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department.

U.S. Department of Commerce William M. Daley, Secretary



Economics and Statistics Administration Robert J. Shapiro, Under Secretary for Economic Affairs



Bureau of Economic Analysis J. Steven Landefeld, Director Rosemary D. Marcuss, Deputy Director

Barbara M. Fraumeni, Chief Economist Hugh W. Knox, Associate Director for Regional Economics Ralph Kozlow, Associate Director for International **Economics**

Brent R. Moulton, Associate Director for National Income, Expenditure, and Wealth Accounts Sumiye O. Okubo, Associate Director for Industry Accounts Robert P. Parker, Chief Statistician

Douglas R. Fox, Editor-in-Chief

W. Ronnie Foster, Graphic Designer M. Gretchen Gibson, Manuscript Editor Ernestine T. Gladden, Production Editor Eric B. Manning, Managing Editor Laura A. Oppel, Production Editor

THIS ISSUE of the SURVEY went to the printer on March 13, 2000. It incorporates data from the following monthly BEA news releases: U.S. International Trade in Goods and Services (February 18), Gross Domestic Product (February 25), and Personal Income and Outlays (February 28).

TABLE OF CONTENTS

Special in this issue

26 Accounting for Renewable and Environmental Resources

[Reprint of chapter 4 of Nature's Numbers: Expanding the National Economic Accounts to Include the Environment]

Last summer, a blue-ribbon panel of the National Academy of Sciences' National Research Council completed a congressionally mandated review of BEA's prototype integrated economic and environmental accounts. As part of its promise to inform users of the results of this evaluation, BEA is reprinting chapters from the panel's final report.

55 An Examination of the Low Rates of Return of Foreign-Owned U.S. Companies

In 1988–97, the average rate of return on assets (ROA) of foreign-owned nonfinancial companies, at 5.1 percent, was 2.2 percentage points below that of U.S.-owned companies; over the period, the ROA gap narrowed to about 1 percentage point in 1997. Among several factors that may help explain the lower ROA of foreign-owned companies, age and market share were found to be significant, and industry mix and shifting of profits outside the United States using transfer prices were found to be relatively insignificant. These findings are based on newly developed estimates of the rate of return for foreign-owned U.S. nonfinancial companies that are disaggregated by industry and valued in current-period prices.

Regular features

1 Business Situation

Real GDP increased 6.9 percent in the fourth quarter of 1999, according to the "preliminary" estimate; the "advance" estimate issued last month had shown a 5.8-percent increase. The upward revision reflected upward revisions to consumer spending, to State and local government spending, to exports of goods, and to private nonfarm inventory investment. The price index for gross domestic purchases increased 2.3 percent in the fourth quarter, the same as the previously published increase.

— Continued on next page —

11 Federal Personal Income Tax Liabilities and Payments, 1959–97

BEA's estimates of Federal personal income tax liabilities and payments have been revised, beginning with 1959, to incorporate the results of the recent comprehensive revision of the NIPA's and newly available tax return data from the Internal Revenue Service. Since 1992, the differences between liabilities and payments have generally been small; in 1997, payments exceeded liabilities by \$2.3 billion.

16 Federal Budget Estimates, Fiscal Year 2001

Each year, BEA prepares a "translation" of the administration's budget that puts the budget's receipts and outlays on a basis that is consistent with the framework of the NIPA's. For fiscal year 2001, the Federal current surplus on the NIPA basis would be \$171.1 billion, compared with the surplus of \$184.0 billion in the administration's budget. The budget estimate of receipts would exceed the NIPA estimate of current receipts by \$2.4 billion, and the NIPA estimate of current expenditures would exceed the budget estimate of outlays by \$10.5 billion.

$R_{ m eports}$ and statistical presentations

52 Errata: Industrial Composition of State Earnings in 1958–98 D–1 BEA Current and Historical Data

Inside back cover: Getting BEA's Estimates

Back cover: Schedule of Upcoming BEA News Releases

LOOKING AHEAD

* Revised NIPA and Related Estimates. Revised NIPA estimates for 1929–58 and revised estimates of fixed assets and consumer durable goods for 1925–98 that reflect the recent comprehensive NIPA revision will be presented in the April Survey.

BUSINESS SITUATION

This article was prepared by Larry R. Moran, Daniel Larkins, Ralph W. Morris, and Deborah Y. Sieff. R EAL GROSS domestic product (GDP) increased 6.9 percent in the fourth quarter of 1999, according to the "preliminary" estimates of the national income and product accounts (NIPA's), after increasing 5.7 percent in the third quarter (table 1 and chart 1); the "advance" fourth-quarter estimate of real GDP, reported in the February "Business Situation," had shown a 5.8-percent increase.¹ The upward revision to

real GDP reflected upward revisions to consumer spending, to State and local government spending, to exports of goods, and to private nonfarm inventory investment; these revisions were partly offset by a downward revision to Federal Government spending. Real final sales of domestic product and real gross domestic purchases were each revised up less than GDP. (The sources of the revisions are discussed in the section "Revisions.")

1. Quarterly estimates in the NIPA's are expressed at seasonally adjusted annual rates. Quarter-to-quarter dollar changes are the differences between the published estimates. Quarter-to-quarter percent changes are annualized and are calculated from unrounded data unless otherwise specified.

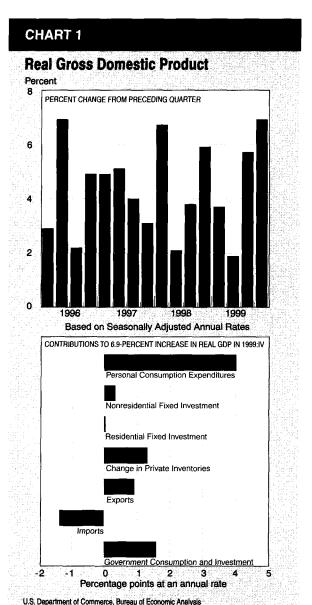
Real estimates are calculated using a chain-type Fisher formula with annual weights for all years and quarterly weights for all quarters; real estimates are expressed both as index numbers (1996=100) and as chained (1996) dollars. Price indexes (1996=100) are also calculated using a chain-type Fisher formula.

Table 1.—Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers

[Seasonally adjusted at annual rates]

| | Billions | of cha | ined (1 | 996) d | ollars | Percent change from preceding quarter | | | |
|--|--|---|----------------------|--|--|---|---|--|--|
| | Level | Char | nge froi qua | n prece irter | eding | - | 19 | | |
| | 1999 | 999 1999 | | | | li li | | IV | |
| | ΙV | ī | II | III | IV | ' | 11 | 1111 | IV |
| Gross domestic product | 9,050.9 | 78.7 | 40.7 | 122.0 | 150.3 | 3.7 | 1.9 | 5.7 | 6.9 |
| Less: Exports of goods and services | 1,077.0 1,426.7 | | | | 22.2 33.7 | -5.5 12.5 | 4.0 14.4 | 11.5 14.9 | 8.7 10.0 |
| Equals: Gross domestic purchases | 9,377.5 | 125.9 | 70.8 | 138.7 | 160.6 | 5.8 | 3.2 | 6.3 | 7.2 |
| Less: Change in private inventories | 68.7 74.0 -6.4 | -15.1 | -30.0 | 24.0 28.1 -4.7 | 30.7 32.8 –2.6 | | | | |
| Equals: Final sales to domestic purchasers | 9,302.9 | 144.2 | 103.0 | 114.4 | 130.7 | 6.7 | 4.7 | 5.2 | 5.8 |
| Personal consumption expenditures Durable goods Nondurable goods Services Private fixed investment Nonresidential Structures Equipment and software Residential Government consumption expenditures and gross investment Federal National defense Nondefense State and local | 6,120.3 846.6 1,810.6 3,473.0 1,615.8 1,242.0 243.4 1,008.0 376.1 1,570.8 557.9 362.0 195.9 1,012.7 | 92.6 22.8 36.9 34.5 33.4 21.9 -3.8 27.2 11.1 -6.6 -3.5 2.8 19.3 | 17.3 14.2 42.7 | 71.5 15.1 15.6 41.4 26.3 31.4 -2.4 35.7 -3.7 17.0 5.5 9.1 -3.6 11.5 | 87.0 25.4 31.3 32.4 8.5 7.7 -2.7 11.4 1.0 34.3 18.2 13.7 4.6 16.1 | 6.5 12.4 8.9 9.1 7.8 12.5 12.9 5.1 -5.0 6.1 8.2 | 5.1 9.1 3.3 5.2 6.6 7.0 -5.3 11.2 5.5 1.3 2.1 -2.6 10.9 | 4.9 7.7 3.6 5.0 6.8 10.9 -3.8 15.7 -3.8 4.5 4.1 11.2 -7.1 4.8 | 5.9 13.0 7.2 3.8 2.1 2.5 -4.3 4.7 1.0 9.2 14.2 16.7 9.9 6.6 |
| Addendum: Final sales of domestic product | 8,976.3 | 96.9 | 72.7 | 97.9 | · 1 | 4.6 | 3.4 | 4.5 | 5.6 |

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates usually are not additive. Chained (1996) dollar levels and residuals which measure the extent of nonadditivity in each table, are shown in NIPA tables 1.2, 1.4, and 1.6. Percent changes are calculated from uncounted data. Percent changes in major approaches are shown in NIPA table S.1. (See "Selected NIPA Tables," which



The 6.9-percent increase in the fourth quarter was the largest increase in 3 1/2 years and was well above the 3.6-percent average annual growth rate for real GDP over the current expansion, which began in the second quarter of 1991.

The picture of the economy in the fourth quarter presented by the preliminary estimates differs somewhat from that presented by the advance estimates. The preliminary estimates showed the following:

- Real GDP growth accelerated in the fourth quarter. The acceleration was primarily accounted for by accelerations in government spending and in consumer spending and by a deceleration in imports of goods. These changes were partly offset by decelerations in private nonresidential fixed investment and in exports of goods.
- Real final sales of domestic product accelerated about the same as real GDP, as private inventory investment—which is not included in final sales of domestic product—increased sharply in both quarters.² Growth in real final sales of domestic product was more than 1 percentage point lower than growth real GDP in both quarters.

Table 2.—Contributions to Percent Change in Real Gross Domestic Product

[Seasonally adjusted at annual rates]

| | | | 99 | |
|---|-------|-------|-------|-------|
| i | 1 | 11 | 111 | IV |
| Percent change at annual rate: Gross domestic product | 3.7 | 1.9 | 5.7 | 6.9 |
| Percentage points at annual rates: | | | | |
| Personal consumption expenditures | 4.27 | 3.36 | 3.33 | 4.03 |
| Durable goods | .96 | .71 | .62 | 1.02 |
| Nondurable goods | 1.68 | .64 | .73 | 1.44 |
| Services | 1.63 | 2.01 | 1.97 | 1.57 |
| Gross private domestic investment | .67 | 36 | 2.25 | 1.72 |
| Fixed investment | 1.48 | 1.10 | 1.16 | .39 |
| Nonresidential | .94 | .86 | 1.33 | .34 |
| Structures | 18 | 16 | 11 | 12 |
| Equipment and software | 1.12 | 1.02 | 1.44 | .46 |
| Residential | .53 | .24 | 17 | .05 |
| Change in private inventories | 80 | -1.46 | 1.09 | 1.33 |
| Net exports of goods and services | -2.13 | -1.35 | 72 | 43 |
| Exports | 61 | .42 | 1.19 | .93 |
| Goods | 74 | .32 | 1.19 | .79 |
| Services | .13 | .10 | 0 | .15 |
| Imports | -1.52 | -1.77 | -1.91 | -1.37 |
| Goods | -1.28 | -1.59 | -1.83 | -1.07 |
| Services | 24 | ~.19 | 08 | 30 |
| Government consumption expenditures and | | | | |
| gross investment | .87 | .23 | .81 | 1.61 |
| Federal | 03 | .13 | .26 | .84 |
| National defense | 16 | 10 | .42 | .63 |
| Nondefense | .13 | .23 | 16 | .21 |
| State and local | .90 | .10 | .55 | .76 |

NOTE More detailed contributions to percent change in real gross domestic product are shown in NIPA table 8.2. Contributions to percent change in major components of real gross domestic product are shown in tables 8.3 through 8.6.

- Real gross domestic purchases accelerated less than real GDP in the fourth quarter.³
- The largest contributors to the fourth-quarter increase in real GDP were consumer spending, government spending, and private inventory investment (table 2 and chart 1). The increase in GDP was moderated by an increase in imports.

The price index for gross domestic purchases increased 2.3 percent in the fourth quarter after increasing 1.7 percent in the third (table 3). The step-up was accounted for by an acceleration in prices of personal consumption expenditures (PCE) other than food and energy and by a smaller decrease in prices of private nonresidential investment in equipment and software; in contrast, prices of PCE energy goods and services and of private residential investment decelerated. The price index for gross domestic purchases excluding food and energy—food and energy prices are usually more volatile than many other prices—increased 1.9 percent after increasing 1.2 percent.

GDP prices increased 2.0 percent in the fourth quarter after increasing 1.1 percent in the third.

Real disposable personal income (DPI) increased 4.5 percent in the fourth quarter after increasing

Table 3.—Percent Changes in Prices
[Annual rates; based on seasonally adjusted index numbers (1996=100)]

| | | • | | |
|--|----------------------------------|-------------------------------|---------------------------------|---------------------------------|
| | | 19 | 99 | |
| | 1 | H | 111 | IV |
| Gross domestic product | 2.0 | 1.3 | 1.1 | 2.0 |
| Less: Exports of goods and services | 5 -3.0 | .7 5.2 | 1.3 6.2 | 2.6 4.6 |
| Equals: Gross domestic purchases | 1.6 | 1.9 | 1.7 | 2.3 |
| Less: Change in private inventories | | | | |
| Equals: Final sales to domestic purchasers | 1.7 | 2.0 | 1.8 | 2.3 |
| Personal consumption expenditures | 1.4 2.5 2.5 1.4 | 2.2 1.2 26.9 1.3 | 1.8 2.1 14.2 1.2 | 2.5 2.3 11.9 2.0 |
| Private nonresidential fixed investment | 9 1.3 -1.6 | -1.4 2.2 -2.5 | 1.3 3.4 2.7 | .1 3.6 –.9 |
| Private residential investment | 4.0 | 3.6 | 4.1 | 2.8 |
| Government consumption expenditures and gross investment Federal National defense Nondefense State and local | 3.8 8.6 7.6 10.4 1.4 | 2.9 .9 1.0 .7 4.0 | 3.3 1.8 1.8 1.8 4.2 | 3.2 2.8 2.6 3.2 3.4 |
| Addendum: Gross domestic purchases less food and energy | 1.7 | 1.2 | 1.2 | 1.9 |

Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.
 NOTE Percent changes in major aggregates are shown in NIPA table 8.1. Index numbers are shown in tables 7.1, 7.2, and 7.4.

^{2.} Final sales of domestic product is calculated as GDP less change in private inventories.

^{3.} Gross domestic purchases—a measure of purchases by U.S. residents regardless of where the purchased goods and services were produced—is calculated as the sum of personal consumption expenditures, gross private domestic investment, and government consumption expenditures and gross investment.

2.9 percent in the third. The personal saving rate—personal saving as a percentage of current-dollar DPI—continued its downtrend, decreasing to 1.8 percent from 2.1 percent in the third quarter; the fourth-quarter rate is the lowest since 1959, the first year for which quarterly estimates are currently available.

Personal consumption expenditures

Real personal consumption expenditures (PCE) increased 5.9 percent in the fourth quarter after increasing 4.9 percent in the third (table 4 and chart 2). For eight consecutive quarters, the increases have exceeded the 3.8-percent average annual growth rate for PCE over the current expansion. The fourth-quarter step-up was accounted for by accelerations in expenditures for both non-durable and durable goods. Expenditures for services increased less than in the third quarter.

The step-up in PCE was consistent with movements in some of the factors considered in analyses of PCE (chart 3). As previously mentioned, real DPI increased more in the fourth quarter than in the third; the Index for Consumer Sentiment (prepared by the University of Michigan's Survey Research Center as a measure of consumer attitudes and expectations) remained high; and the unemployment rate decreased to 4.1 percent, the lowest quarterly rate in 30 years.

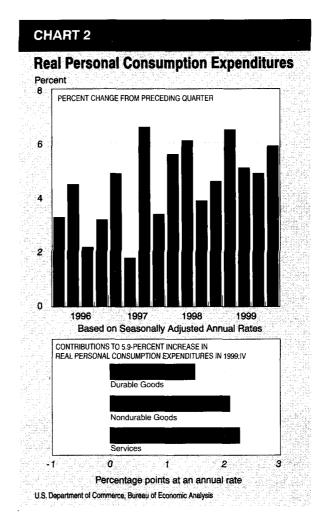


Table 4.—Real Personal Consumption Expenditures
[Seasonally adjusted at annual rates]

| | E | Billions of o | hained (19 | 996) dollar | s | Percer | Percent change from preceding quarter | | | | |
|---|---|--|---|---|---|--|--|--|--|--|--|
| | Level Change from preceding quarter | | | | | | | | | | |
| | 1999 | 1999 | | | | 1999 | | | | | |
| | IV | ı | II | 111 | ΙV | i | 11 | ш | l IV | | |
| Personal consumption expenditures | 6,120.3 | 92.6 | 73.4 | 71.5 | 87.0 | 6.5 | 5.1 | 4.9 | 5.9 | | |
| Durable goods Motor vehicles and parts Of which: New autos New light trucks Furniture and household equipment Other | 846.6 325.8 108.5 89.1 359.2 164.1 | 22.8 3.0 1.6 9 14.1 6.4 | 17.3 6.8 5.6 1.3 8.8 1.8 | 15.1 2.4 8 2.3 10.5 2.9 | 25.4 6.2 7.1 .2 13.2 6.5 | 12.4 3.9 6.5 -4.0 19.3 18.5 | 9.1 9.2 25.5 6.0 11.3 4.8 | 7.7 3.0 3.2 11.0 13.0 8.0 | 13.0 8.0 31.0 1.2 16.3 17.3 | | |
| Nondurable goods Food Clothing and shoes Gasoline, fuel oil, and other energy goods Other | 1,810.6 873.2 318.0 144.9 473.9 | 36.9 4.1 19.1 1.0 13.2 | 14.2 5.1 2.1 1.0 6.0 | 15.6 5.4 4.8 .6 4.9 | 31.3 23.2 -3.6 .4 10.4 | 8.9 2.0 28.4 2.8 12.6 | 3.3 2.4 2.7 2.8 5.4 | 3.6 2.6 6.2 1.8 4.3 | 7.2 11.4 -4.5 1.0 9.3 | | |
| Services Housing Household operation Electricity and gas Other household operation Transportation Medical care Recreation Other | 3,473.0 834.2 361.4 130.6 230.5 243.9 889.5 237.1 907.2 | 34.5 6.4 8.6 5.4 3.2 1.6 3.4 5.6 9.1 | 42.7 4.7 4.8 1.1 3.6 2.2 6.4 6.6 18.1 | 41.4 5.4 5.6 3.2 2.5 2.5 8.9 7.4 11.8 | 32.4 5.7 -3.0 -4.8 1.6 1.5 8.6 4.7 | 4.2 3.2 10.3 18.5 6.0 2.8 1.6 10.9 4.3 | 5.2 2.3 5.6 3.5 6.7 3.6 3.0 12.7 8.7 | 5.0 2.7 6.4 9.9 4.4 4.2 4.2 13.8 5.5 | 3.8 2.7 -3.2 -13.4 3.0 2.5 4.0 8.3 6.7 | | |

NOTE.—See note to table 1 for an explanation of chained (1996) dollar series. Chained (1996) dollar levels and residuals are shown in NIPA tables 2.3 and 8.9B (motor vehicles). Percent changes in major aggregates are shown in NIPA table S.1.

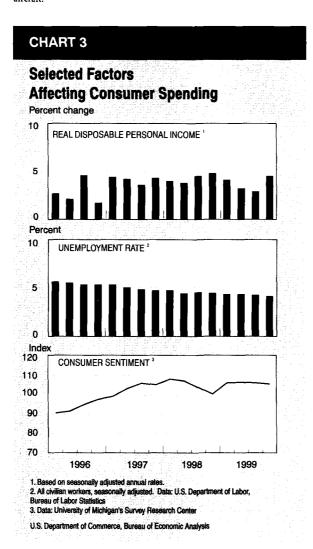
Expenditures for nondurable goods increased 7.2 percent after increasing 3.6 percent. The step-up was more than accounted for by an acceleration in food, but "other" nondurable goods also contributed. Gasoline and oil increased about the same in each quarter, fuel oil and coal decreased slightly more in the fourth quarter than in the third, and clothing and shoes decreased after increasing.

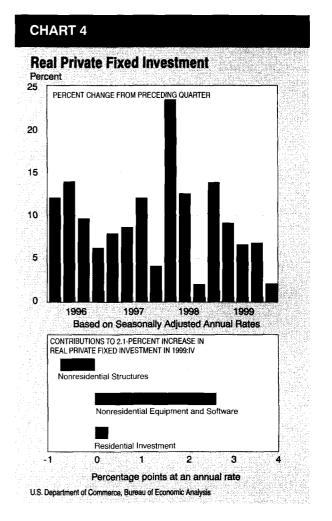
Expenditures for durable goods increased 13.0 percent after increasing 7.7 percent. The acceleration was widespread. An acceleration in motor vehicles and parts was more than accounted for by an upturn in new autos. An acceleration in "other" durable goods was largely accounted for by wheel goods and sporting equipment, which increased after no change.⁵ An acceleration in furniture and

household equipment was accounted for by furniture and equipment other than computers and software; computers and software increased less than in the third quarter.

Expenditures for services increased 3.8 percent after increasing 5.0 percent. The slowdown was primarily accounted for by a downturn in household operation, which was mostly accounted for by electricity and gas. Recreation decelerated, reflecting a downturn in motion picture admissions and a slowdown in casino gambling. Transportation also decelerated, reflecting a downturn in motor-vehicle leasing. Medical care and housing services both increased about the same in each quarter. "Other" services increased more than in the third quarter, primarily reflecting an upturn in brokerage and investment counseling.⁶

^{6. &}quot;Other" services includes personal care, personal business, net foreign travel, education and research, and religious and welfare activities.





^{4. &}quot;Other" nondurable goods includes tobacco, toilet articles, drug preparations and sundries, stationery and writing supplies, toys, film, flowers, cleaning preparations and paper products, semidurable house furnishings, and magazines and newspapers.

[&]quot;Other" durable goods includes jewelry and watches, ophthalmic products and orthopedic equipment, books and maps, bicycles and motorcycles, guns and sporting equipment, photographic equipment, boats, and pleasure aircraft

Private fixed investment

Real private fixed investment increased 2.1 percent in the fourth quarter after increasing 6.8 percent in the third (chart 4). A deceleration in nonresidential fixed investment more than offset an upturn in residential investment.

Nonresidential fixed investment.—Real private nonresidential fixed investment increased 2.5 percent in the fourth quarter after jumping 10.9 percent in the third (table 5). Equipment and software decelerated sharply, and structures decreased more than in the third quarter.

Over the past four quarters, nonresidential fixed investment increased 7.0 percent, somewhat less than the 8.3-percent average increase over the current expansion. Some of the factors that affect investment spending showed strength over the past four quarters (chart 5). Over that period, real final sales of domestic product increased 4.5 percent, and over the first three quarters of 1999, domestic corporate profits increased at an average annual rate of 6.4 percent (estimates of profits for the fourth quarter are not yet available). In contrast, the capacity utilization rate was 81.0 percent in the fourth quarter of 1999, unchanged from a year ago, and long-term interest rates increased; for example, the yield on high-grade corporate bonds increased to 7.47 percent from 6.25 percent.

Investment in equipment and software increased 4.7 percent after jumping 15.7 percent. slowdown was accounted for by a downturn in transportation equipment—reflecting downturns in trucks, buses, and trailers and in autosand by a deceleration in information processing equipment and software. Industrial equipment increased more than in the third quarter, and "other" equipment decreased less. The deceleration in information processing equipment was largely accounted for by a slowdown in computers and peripheral equipment, but communication equipment and software also slowed.

Investment in nonresidential structures decreased 4.3 percent after decreasing 3.8 percent. The larger fourth-quarter decrease was accounted for by downturns in mining exploration, shafts, and wells and in utilities. Nonresidential buildings and "other structures" decreased less than in the third quarter.8

Residential investment.—Real private residential investment increased 1.0 percent in the fourth quarter after decreasing 3.8 percent in the third (table 5). The upturn was more than accounted for by single-family structures, which increased after

Table 5.—Real Private Fixed Investment [Seasonally adjusted at annual rates]

| | E | Percer | | from prece | eding | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Levei | Level Change from preceding quarter | | | | | qua | | |
| | 1999 1999 | | | | 1999 | | | | |
| | ΙV | ī | 11 | Ш | iv | ' | 11 | | IV |
| Private fixed investment | 1,615.8 | 33.4 | 25.1 | 26.3 | 8.5 | 9.1 | 6.6 | 6.8 | 2.1 |
| Nonresidential | 1,242.0 243.4 176.5 | 21.9 -3.8 8 | 20.2 -3.4 -5.4 | 31.4 -2.4 -4.0 | 7.7 -2.7 7 | 7.8 5.8 1.8 | 7.0 5.3 11.1 | 10.9 -3.8 -8.4 | 2.5 -4.3 -1.7 |
| Utilities | 176.5 37.4 23.5 6.2 | 6 2.0 2 | 1 1.0 1.1 | .5 -1.7 8 | -1.1 8 1 | -5.7 -30.1 -12.3 | -1.5 19.5 100.1 | 5.3 35.6 –38.2 | -10.5 -13.2 -5.5 |
| Equipment and software Information processing equipment and software Computers and peripheral equipment ¹ Software ² Other Industrial equipment Transportation equipment Of which: Motor vehicles Other | 1,008.0 538.5 242.0 155.5 177.6 154.7 200.6 162.8 129.4 | 27.2 21.9 15.1 3.8 6.9 -3.9 5.0 2.2 6.0 | 25.2 30.6 19.5 5.4 10.6 1.6 .8 3.7 -3.7 | 35.7 25.0 20.6 5.0 6.3 3.4 12.4 14.0 -3.2 | 11.4 12.5 8.5 3.5 2.9 4.7 -3.4 -7.2 7 | 12.5 21.0 38.6 11.7 19.6 -9.9 11.2 6.0 18.7 | 11.2 28.6 46.9 16.1 29.9 4.3 1.6 10.3 -10.2 | 15.7 21.6 44.5 14.3 15.7 9.8 28.7 41.0 -8.7 | 4.7 9.8 15.5 9.4 6.9 12.9 -6.5 -15.9 |
| Residential Single-family structures Multifamily structures Other ³ | 376.1 195.9 22.8 157.4 | 11.1 6.5 2.2 2.3 | 5.1 0 4 5.6 | -3.7 -4.1 0 .5 | 1.0 4.2 1 -3.3 | 12.9 14.4 48.7 6.1 | 5.5 1 6.5 15.4 | -3.8 -8.0 8 1.2 | 1.0 9.1 8 7.9 |

NOTE.—See note to table 1 for an explanation of chained (1996) dollar series. Chained (1996) dollar levels and residuals are shown in NIPA tables 5.5 and 8.9B (motor vehicles). Percent changes in major aggregates are shown in NIPA table S.1.

^{7. &}quot;Other" equipment includes construction and agricultural machinery, mining and oilfield machinery, electrical equipment not included in other categories, furniture and fixtures, and service-industry machinery.

^{8. &}quot;Other" structures includes streets, dams and reservoirs, sewer and water facilities, parks, airfields, brokerage commissions on the sale of structures, and net purchases of used structures.

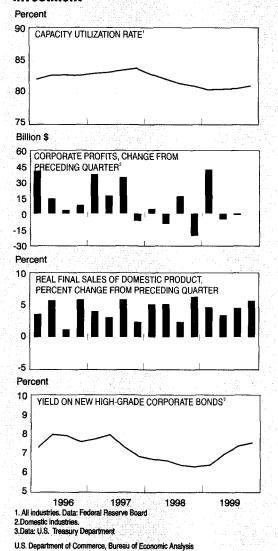
Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.
 "Other" residential investment includes home improvements, new manutactured home sales, brokers' commissions on home sales, residential equipment, net purchases of used structures, and other residential structures (which consists primarily of dormitories and of fraternity and soror-

decreasing. Multifamily structures changed little in each quarter, and "other" residential investment turned down.⁹

Investment in single-family structures increased 9.1 percent after decreasing 8.0 percent. Multifamily structures decreased 0.8 percent in each quarter. "Other" residential investment decreased 7.9 percent after increasing 1.2 percent; a downturn in brokers' commissions—which largely reflected a larger decrease in sales of existing homes in the fourth quarter than in the third—more than offset an acceleration in home improvements.

CHART 5

Selected Factors Affecting Nonresidential Investment

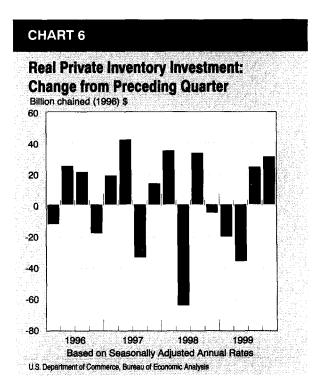


Inventory investment

Real inventory investment—that is, the change in private inventories—increased \$30.7 billion in the fourth quarter, as inventory accumulation stepped up to \$68.7 billion from \$38.0 billion; inventory investment had increased \$24.0 billion in the third quarter (table 6 and chart 6). The fourth-quarter increase in inventory investment was largely accounted for by retail trade.

Retail inventories increased \$42.1 billion after increasing \$14.1 billion. Inventories of durable-goods retailers increased \$28.1 billion after increasing \$11.8 billion; the step-up reflected both inventories of nonmotor-vehicle-durable-goods retailers, which increased \$13.6 billion after increasing \$2.5 billion, and inventories of motor vehicle dealers, which increased \$14.4 billion after increasing \$9.3 billion. Inventories of nondurable-goods retailers increased \$14.3 billion after increasing \$2.5 billion; about half of the step-up reflected an upturn in the inventories of apparel stores.

Manufacturing inventories increased \$10.2 billion after increasing \$1.7 billion. The step-up was largely accounted for by inventories of nondurablegoods manufacturers, which increased \$6.3 billion after no change. Chemical inventories increased after decreasing, and food inventories increased after little change. Inventories of durable-goods manufacturers increased \$3.8 billion after increasing \$1.8 billion. Inventories of electronic machinery increased substantially more than in



 [&]quot;Other" residential investment includes home improvements, new manufactured home sales, brokers' commissions on home sales, net purchases of used structures, residential equipment, and other residential structures (which consists primarily of dormitories and of fraternity and sorority houses).

the third quarter, and a number of other durablegoods industries recorded smaller step-ups or upturns; in contrast, inventories of transportation equipment other than motor vehicles decreased more than in the third quarter, reflecting a step-up in the liquidation of aircraft inventories.

"Other" nonfarm inventories increased \$3.9 billion after little change. ¹⁰ Inventories of durable goods turned up, and inventories of nondurable goods accelerated.

Wholesale trade inventories increased \$16.7 billion after increasing \$25.1 billion. Inventories of nondurable goods turned down, more than offsetting an acceleration in inventories of durable goods.

Farm inventories decreased \$6.4 billion after decreasing \$3.8 billion. Crop inventories decreased more than in the third quarter, and livestock inventories decreased about the same as in the third quarter.

In the fourth quarter, the ratio of real nonfarm inventories to real final sales of domestic businesses

Table 6.—Real Change in Private Inventories
[Billions of chained (1996) dollars, seasonally adjusted at annual rates]

| | Level | | | | | Chang | ge from pr | eceding qu | arter |
|---|--|---|--|---|---|---|--|--|---|
| | 1998 1999 | | | | 1999 | | | | |
| | IV | 1 | II | 111 | IV | | II | III | IV |
| Change in private inventories | 70.7 | 50.1 | 14.0 | 38.0 | 68.7 | -20.6 | -36.1 | 24.0 | 30.7 |
| Farm | 12.8 | 7.4 | .9 | -3.8 | -6.4 | -5.4 | -6.5 | -4.7 | -2.6 |
| Nonfarm Manufacturing Durable goods Nondurable goods Wholesale trade Durable goods Nondurable goods Retail trade Durable goods Of which: Motor vehicle dealers Nondurable goods Other Durable goods Other Durable goods Nondurable goods | 58.2 12.0 6.8 5.3 17.2 15.5 1.4 15.5 16.0 7.6 -3 13.6 12.6 | 43.1 0 1.8 9.5 11.8 9.5 17.5 9.5 3.1 8.00 15.7 1.7 | 13.1 -8.3 -6.6 -1.7 11.1 11.0 5.9 4.0 0 1.9 4.1 -2.0 6.3 | 41.2 1.7 1.8 0 25.1 11.1 14.0 14.1 11.8 9.3 2.5 .1 -1.0 | 74.0 10.2 3.8 6.3 16.7 19.3 -2.3 42.1 28.1 14.4 14.3 3.9 1.1 2.8 | -15.1 -12.0 -5.0 -7.1 -7.7 -3.7 -3.8 2.0 -6.5 -4.5 8.3 2.1 .7 | -30.0 -8.3 -8.4 .1 1.6 -8.5 -11.6 -5.5 -3.1 -6.1 -11.6 -3.7 -7.7 | 28.1 10.0 8.4 1.7 14.0 .1 13.9 8.2 7.8 9.3 .6 -4.0 1.0 -5.2 | 32.8 8.5 2.0 6.3 -8.4 -16.3 28.0 16.3 5.1 11.8 2.1 1.7 |
| Addenda: Motor vehicles Autos Trucks | 16.6 12.9 3.9 | 6.4 1.7 4.5 | 2.5 -7.9 9.2 | 13.3 3.3 9.4 | 18.1 7.7 9.9 | -10.2 -11.2 .6 | -3.9 -9.6 4.7 | 10.8 11.2 .2 | 4.8 4.4 .5 |

NOTE.—See note to table 1 for an explanation of chained (1996) dollar series. Chained (1996) dollar levels and residuals are shownin NIPA tables 5.11 and 8.9B (motor vehicles).

Table 7.—Real Exports and Imports of Goods and Services

[Seasonally adjusted at annual rates]

| | | Billions of chained (1996) dollars | | | | | Percent change from preceding guarter | | | |
|---|--|---|--|---|--|--|--|--|---|--|
| | Level | Change from preceding quarter | | | | | | | | |
| | 1999 | | | | | 1999 | | | | |
| | IV | | | | | II | | IV | | |
| Exports of goods and services Exports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods, except automotive Other Exports of services ¹ Imports of goods and services Capital goods, except automotive | 356.2 75.2 83.1 48.0 295.4 1,426.7 1,215.6 47.6 163.9 76.9 406.7 | -14.4 -17.8 -4.9 -5.2 -7.6 -3.4 5.5 2.0 2.9 37.8 32.3 9 0 1.4 7.9 | 10.0 7.7 3.2 3.0 -1.2 3.5 -4 -1 2.3 44.5 40.5 2.3 3.4 4.7 23.0 | 28.4 29.2 3.0 2.6 23.7 8 1.4 -1.5 0 47.6 46.4 1.2 4.5 -2.6 19.5 | 22.2 19.3 -4 9.2 4.1 .4 2.8 2.7 3.2 33.7 26.7 .4 4.9 -5.8 16.7 | -5.5 -9.3 -29.6 -13.1 -8.7 -17.1 2.8 19.2 4.1 12.5 12.6 9.0 .1 7.1 9.6 | 4.0 4.3 25.9 5.1.5 21.3 -2.3 -2.3 15.5 22.9 9.3 25.5 29.2 | 11.5 16.9 23.3 6.9 32.1 4.3 7.4 -12.2 0 14.9 17.3 10.7 12.1 -11.6 22.8 | 8.7 10.5 -2.6 26.4 4.7 2.2 15.1 26.1 4.5 10.0 9.3 2.9 12.8 -25.1 18.3 | |
| Automotive vehicles, engines, and parts Consumer goods, except automotive Other Imports of services ¹ | 184.5 263.2 75.2 212.3 | 9.7 8.4 2.6 5.6 | 3.0 5.1 1.5 4.3 | 10.7 10.8 2.1 1.8 | .4 11.6 .9 6.8 | 26.5 15.7 16.5 11.9 | 7.1 8.9 8.4 8.9 | 27.1 19.2 12.7 3.6 | .8 19.8 4.7 13.9 | |

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

NOTE.—See note to table 1 for an explanation of chained (1996) dollar series. Chained (1996) dollar levels and residuals are shown in NIPA table 4.4. Percent changes in major aggregates are shown in NIPA table S.1.

^{10. &}quot;Other" nonfarm inventories includes inventories held by the following industries: Mining; construction; public utilities; transportation; communication; finance, insurance, and real estate; and services.

was 2.09, the same as in the third quarter; over the current expansion, the ratio has fluctuated in the range of 2.07 to 2.17. The inventory-sales ratio that includes only final sales of goods and structures decreased from 3.71 to 3.70, its lowest level in more than 30 years. ¹¹

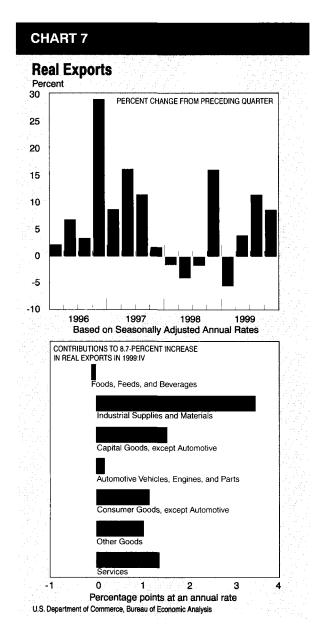
Exports and imports

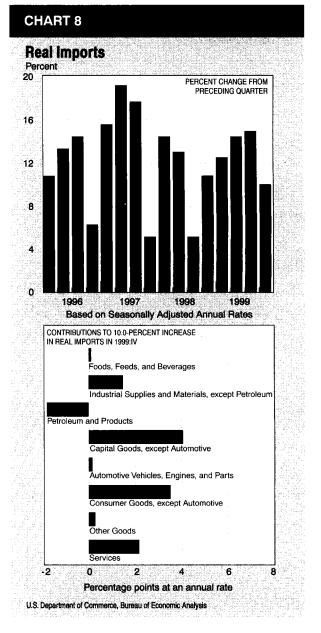
Real exports of goods and services increased 8.7 percent in the fourth quarter after jumping 11.5 percent in the third; exports of goods decelerated,

11. Use of the ratio that includes all final sales of domestic businesses in the denominator implies that the use of inventories in the production of services is similar to the use of inventories in the production of goods and structures. In contrast, use of the "goods and structures" ratio implies that the production of services does not use inventories. Because business final sales of services are large relative to final sales of goods and structures, the levels of the two ratios differ substantially. However, quarter-to-quarter changes is the two ratios tend to be similar.

and exports of services accelerated (table 7). Real imports of goods and services increased 10.0 percent after jumping 14.9 percent; imports of goods decelerated, and imports of services accelerated.

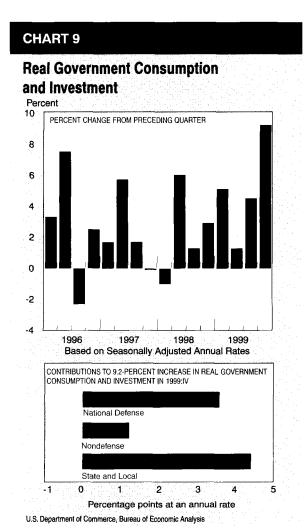
Real exports of goods increased 10.5 percent after jumping 16.9 percent (chart 7). Most of the slow-down was attributable to a sharp deceleration in nonautomotive capital goods, primarily reflecting downturns in computers, peripherals, and parts and in telecommunication equipment and reflecting decelerations in semiconductors and in civilian aircraft, engines, and parts; however, a downturn in food, feeds, and beverages also contributed to the slowdown. Exports of industrial supplies and materials and of nonautomotive consumer goods accelerated.





Exports of services increased 4.5 percent after no change. Exports of travel turned up, and exports of "other private services" accelerated.¹²

^{12.} Exports of other private services includes education, financial, telecommunications, insurance, and business, professional, and technical.



Real imports of goods increased 9.3 percent after jumping 17.3 percent (chart 8). The slowdown reflected slowdowns in imports of automotive vehicles, engines, and parts and in computers, peripherals, and parts; a downturn in imports of civilian aircraft, engine, and parts; and a larger decrease in the imports of petroleum and products.

Imports of services jumped 13.9 percent after increasing 3.6 percent. Imports of travel and of royalties and license fees turned up, and imports of passenger fares and of "other private services" accelerated.¹³

Government spending

Real government consumption expenditures and gross investment increased 9.2 percent in the fourth quarter after increasing 4.5 percent in the third (table 8 and chart 9). Spending by both the Federal Government and State and local governments increased more in the fourth quarter than in the third.

Federal defense spending jumped 16.7 percent after increasing 11.2 percent. Investment spending increased after little change; equipment and software stepped up, and structures changed little after decreasing slightly. Consumption spending increased more in the fourth quarter than in the third; the acceleration was more than accounted for by a step-up in services other than compensation of employees.

Federal nondefense spending increased 9.9 percent after decreasing 7.1 percent. Consumption expenditures increased after decreasing, largely reflecting an upturn in services. Investment spend-

Table 8.—Real Government Consumption Expenditures and Gross Investment [Seasonally adjusted at annual rates]

| | Billions of chained (1996) dollars | | | | | Percer | Percent change from preceding quarter | | | |
|---|---|--|---|--|--|--|--|---|--|-----|
| | Level | Change from preceding quarter | | | | | | | | |
| | 1999 | 1999 | | | | | 199 |) 9 | | |
| | iv | ı | 11 | III] | IV | | 11 | III | IV | |
| Government consumption expenditures and gross investment 1 | 1,570.8 | 1,570.8 18.7 | 18.7 | 8.7 4.9 | 17.0 | 34.3 | 5.1 | 1.3 | 4.5 | 9.2 |
| Federal National defense Consumption expenditures Gross investment Nondefense Consumption expenditures Gross investment | 557.9 362.0 305.0 57.3 195.9 152.0 44.5 | 6 -3.5 -4.1 .7 2.8 1.7 1.3 | 2.8 -2.2 -4.6 2.5 5.0 1.3 3.8 | 5.5 9.1 9.1 1 -3.6 -2.3 -1.3 | 18.2 13.7 11.0 2.8 4.6 2.2 2.6 | 5 -4.0 -5.4 5.2 6.1 4.4 13.9 | 2.1 2.6 6.2 20.7 10.9 3.6 45.6 | 4.1 11.2 13.4 8 -7.1 -5.8 -12.0 | 14.2 16.7 15.7 22.9 9.9 5.8 26.9 | |
| State and local | 1,012.7 811.9 201.1 | 19.3 6.7 12.8 | 2.2 6.9 -4.9 | 11.5 7.6 3.9 | 16.1 7.0 9.4 | 8.2 3.4 31.6 | .9 3.5 –9.7 | 4.8 3.9 8.6 | 6.6 3.5 21.1 | |

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.

NOTE.—See note to table 1 for an explanation of chained (1996) dollar series. Chained (1996) dollar levels and residuals are shown in NIPA table 3.8. Percent changes in major aggregates are shown in NIPA table S.1.

^{13.} Imports of other private services includes education, financial, telecommunications, insurance, and business, professional, and technical.

ing also increased after decreasing, reflecting an upturn in equipment and software.

State and local government spending increased 6.6 percent after increasing 4.8 percent. The stepup was more than accounted for by an acceleration in investment spending, which reflected an acceleration in spending for structures, largely for highways. Consumption expenditures increased slightly less than in the third quarter.

Table 9.—Revisions to Change in Real Gross Domestic Product and Prices, Fourth Quarter 1999

[Seasonally adjusted at annual rates]

| | from pr | change eceding arter | | ary estimate ance estima | |
|---|------------------------------------|-----------------------------------|-----------------------------------|--|--|
| | | Prelimi- | Change Gl | e in real DP | Contri- bution to percent change |
| | Advance estimate | nary estimate | Percent- age points | Billions of chained (1996) dollars | Percentage points |
| Gross domestic product | 5.8 | 6.9 | 1.1 | 24.0 | |
| Less: Exports of goods and services | 6.9 7.6 5.1 | 8.7 10.5 4.5 | 1.8 2.9 –.6 | 4.6 5.2 5 | .19 .22 –.02 |
| Plus: Imports of goods and services | 10.6 9.9 14.3 | 10.0 9.3 13.9 | 6 6 4 | -1.9 -1.8 1 | .07 .06 .00 |
| Equals: Gross domestic purchases | 6.3 | 7.2 | .9 | 18.1 | |
| Less: Change in private inventories | | | | 3.3 .8 2.6 | .15 .03 .12 |
| Equals: Final sales to domestic purchasers | 5.2 | 5.8 | .6 | 14.6 | |
| Personal consumption expenditures | 5.3 11.8 6.1 3.5 | 5.9 13.0 7.2 3.8 | .6 1.2 1.1 .3 | 9.1 2.1 4.7 2.4 | .44 .09 .22 .14 |
| Fixed investment | 1.5 2.5 -5.3 4.9 -1.2 | 2.1 2.5 -4.3 4.7 1.0 | .6 0 1.0 2 2.2 | 2.3 .1 .6 7 2.1 | .11 .01 .03 02 .10 |
| Government consumption expenditures and gross investment | 8.4 16.0 18.9 11.0 4.4 | 9.2 14.2 16.7 9.9 6.6 | .8 ~1.8 ~2.2 ~1.1 2.2 | 3.1 -2.2 -1.7 5 5.2 | .16 10 07 03 .24 |
| Addenda: Final sales of domestic product Gross domestic purchases price index GDP price index | 4.6 2.3 2.0 | 5.6 2.3 2.0 | 1.0 0 0 | 20.4 | |

for December, average unit value for domestic new autos for December (revised), and consumers share of new-nuck purchases for December. Nanresidential fixed investment: Construction put-in-place for October and November (revised) and December, manufacturers' shipments of machinery and equipment for November (revised) and December. Residential fixed investment: Construction put-in-place for October and November (revised) and December. Residential fixed investment Construction put-in-place for October and November (revised) and December. Change in private inventories: Manufacturing, retail trade, and wholesale trade inventories for November (revised) and December and unit inventory data for autos for December. Exports and imports of goods and services: Exports and inports of goods and services: Exports and inports of goods and services: Exports and inports of goods and services: Unit of the fourth quarter, and State and local government construction put-in-place for October and November (revised) and December. Wages and salaries: Employment, average hourly earnings, and average weekly hours for November and December (revised), GDP prices: Detailed merchandise export and import price indexes for October through December (revised), unit-value index for petroleum imports for November (revised) and December, housing prices for the fourth quarter, and consumer price indexes (revised to incorporate new seasonal adjustment factors).

Revisions

The preliminary estimate of a 6.9-percent increase in real GDP in the fourth quarter is 1.1 percentage points higher than the advance estimate (table 9); for 1978-99, the average revision, without regard to sign, from the advance estimate to the preliminary estimate was 0.5 percentage point.

The upward revision to real GDP primarily reflected upward revisions to PCE, to State and local government spending, to exports of goods, and to private nonfarm inventory investment; these revisions were partly offset by a downward revision to Federal Government spending.

The upward revision to PCE was largely to nondurable goods and services. The upward revision to nondurable goods was primarily to food, which mainly reflected the incorporation of revised Census Bureau estimates of retail sales for November and December. The upward revision to services was primarily to recreational services, which mainly reflected the incorporation of newly available data on State government gambling revenues for November and December, and to brokerage and investment counseling, which mainly reflected the incorporation of newly available trade source data on mutual funds sales for December.

The upward revision to State and local government spending was primarily to investment in highways and reflected the incorporation of newly available Census Bureau estimates of construction-put-in-place for December.

The upward revision to exports of goods was mainly to "other capital goods, except automotive" and primarily reflected the incorporation of newly available Census Bureau estimates for December.

The upward revision to private nonfarm inventory investment was mainly to retail motor vehicles and primarily reflected the incorporation of newly available trade source data on auto inventories for December.

The downward revision to Federal Government spending was mainly to defense spending and primarily reflected the incorporation of newly available detailed data from the Monthly Treasury Statement for December and Department of Defense financial reports for the fourth quarter.

The preliminary estimates of the increases in the price indexes for gross domestic purchases (2.3 percent) and for GDP (2.0 percent) were the same as the advance estimates.

The preliminary estimate of the increase in real DPI was 4.5 percent and that of the increase in current-dollar DPI was 7.1 percent, both of which were 0.1 percentage point lower than the advance estimates.

NOTE.—The preliminary estimates for the fourth quarter of 1999 incorporate the following revised or additional major source data that were not available when the advance estimates were prepared.

Personal consumption expenditures: Retail sales for November and December (revised), consumers' share of new-car purchases for December, average unit value for domestic new autos for December (revised), and consumers' share of new-truck purchases for December (revised) and consumers' share of new-truck purchases for December (revised) and consumers' share of new-truck purchases.

Federal Personal Income Tax Liabilities and Payments, 1959–97

By Thae S. Park

THIS ARTICLE presents to personal income tax liabilities and estimates for payments for HIS ARTICLE presents estimates of Federal of Federal personal income tax payments for 1959-97 (table 1).1 The estimates reflect the in-

Table 1.—Federal Personal Income Tax Liabilities and Payments, 1959-97 [Billions of dollars]

| | Feder | al personal income | taxes | Disposable perso | nal income (DPI) |
|--|---|--|---|--|--|
| | Liabilities basis 1 | Payments basis ² | Difference | Alternative DPI with NIPA Federal personal income taxes on a liabilities basis | Published DPI with NIPA Federal personal income taxes on a payments basis ³ |
| 1959 | 39.0 39.9 42.7 45.4 48.8 47.8 56.8 63.7 77.7 87.4 | 38.5 41.8 42.7 46.5 49.1 58.6 64.4 76.4 91.7 | 0.5 -1.9 .0 -1.1 -3 1.8 -7 -1.8 -7.7 1.1 | 350.7 368.1 382.3 406.8 426.2 461.2 499.8 540.9 576.9 625.1 679.3 | 351.2 366.2 382.4 405.6 425.8 463.0 498.9 539.1 576.2 626.2 675.0 |
| 1970 | 84.5 86.1 94.3 108.9 124.4 117.3 142.8 161.0 189.6 216.1 | 88.9 85.8 102.8 109.6 126.5 120.7 141.2 162.2 188.9 224.6 | -4.4 .3 -8.5 7 -2.1 -3.4 1.6 -1.2 .7 -8.5 | 740.9 801.4 877.0 976.3 1,074.3 1,184.9 1,298.3 1,437.1 1,614.1 | 736.5 801.7 868.6 972.3 1,181.4 1,299.9 1,436.0 1,614.8 1,808.2 |
| 1980 | 252.3 286.7 280.2 277.8 306.7 331.5 374.9 422.0 440.0 | 250.0 290.6 295.0 286.2 301.4 336.0 350.1 392.5 402.9 | 2.3 -3.9 -14.8 -8.4 5.3 -4.5 24.8 -13.8 -11.5 | 2,017.4 2,251.8 2,421.5 2,594.4 2,882.3 3,091.0 3,237.7 3,473.3 3,733.3 4,027.7 | 2,019.8 2,247.9 2,406.8 2,586.0 2,887.6 3,086.5 3,262.5 3,459.5 3,752.4 4,016.3 |
| 1990 1991 1992 1993 1994 1995 1996 1997 | 453.4 455.4 483.1 508.5 540.3 592.9 664.5 740.8 | 470.2 461.3 475.3 505.4 542.5 585.6 662.9 743.1 | -16.8 -5.9 7.8 3.1 -2.2 7.3 1.6 -2.3 | 4,310.4 4,480.7 4,746.8 4,932.2 5,167.7 5,415.2 5,676.2 5,985.1 | 4,293.6 4,474.8 4,754.6 4,935.3 5,165.4 5,422.6 5,677.7 5,982.8 |

^{1.} This series is derived by the Bureau of Economic Analysis and is based on data from Statistics of Income, Individual Income

3. This series is presented in NIPA table 2.1 in "BEA Current and Historical Data." See also the BEA Web site. NIPA National income and product account

corporation of the results of the comprehensive revision of the national income and product accounts (NIPA's) that was released in October 1999 and newly available tax return data for 1997 from the Internal Revenue Service (IRS).²

The first section of the article discusses the payments series, the derivation and the use of the estimates of tax liabilities, and the sources of the differences between liabilities and payments. The second section discusses the sources of the differences for selected years, and the third section discusses the sources of the revisions to the estimates for 1959-96.

Payments and liabilities

In the NIPA's, Federal personal income tax payments consist of three components: Withheld income taxes; declarations and settlements, or "nonwithheld" taxes; and refunds.3

Federal Personal Income Tax Payments, 1995-97 [Billions of dollars]

| | 1995 | 1996 | 1997 |
|-------------------------------|----------------|----------------|----------------|
| Federal personal income taxes | 585.6 501.6 | 662.9 548.6 | 743.1 595.1 |
| Declarations and settlements | 169.9 | 203.6 | 241.8 |
| Less: Refunds | 85.9 | 89.3 | 93.8 |

Withheld income taxes are those withheld at the source of the income, mainly on wage and salary income. Declarations are estimated tax payments,

liabilities for 1959-97 is available on request; for information, write to the Government Division (BE-57), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230.

^{1.} The estimates of Federal personal income tax liabilities for 1997 are new, and the estimates for 1959-96 are revised. The previously published estimates of Federal personal income tax liabilities for 1959-92 appeared in the August 1996 SURVEY OF CURRENT BUSINESS; those for 1993-94, in the December 1997 SURVEY; and those for 1995-96 in the December 1998 Survey. The quarterly series for

Tax Returns.

2. This series is presented in NIPA table 3.2 in the section "BEA Current and Historical Data" of the SURVEY OF CURRENT Business. All the estimates are available on the BEA Web site at www.bea.doc.gov and on the STAT-USA Web site at www.stat-table-number-100.

^{2.} For more information on the comprehensive revision, see Brent R. Moulton, Robert P. Parker, and Eugene Seskin, "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," SURVEY 79 (August 1999): 11-12 and Eugene P. Seskin, "Improved Estimates of the National Income and Product Accounts for 1959-98: Results of the Comprehensive Revision," SURVEY 79 (December 1999): 15-43. For tax return data for 1997, see Internal Revenue Service, Statistics of Income Bulletin (Washington, DC: U.S. Government Printing Office, Fall 1999). For tax return data for prior years, see Statistics of Income-Individual Income Tax Returns.

^{3.} The estimates of these components are published annually in NIPA table 3.4, most recently on page 68 in the December 1999 SURVEY. Quarterly estimates of Federal personal income taxes are published monthly in NIPA table 3.2 in the section "BEA Current and Historical Data." Estimates for earlier periods are available on the BEA Web site at <www.bea.doc.gov> and on the STAT-USA Web site at < www.stat-usa.gov>.

mostly on income that is not subject to withholding, such as capital gains and self-employment income; settlements are additional taxes that are paid when tax returns are filed or as the result of audits. Refunds of excess payments are recorded as negatives in the payments series when the refunds are made.

For certain analyses, payments data may not be the most appropriate basis of measurement. For example, households may base their consumption decisions, especially about major purchases, on disposable income that is calculated net of expected tax liabilities rather than net of actual tax payments. As a result, liabilities may be the more appropriate basis for analyzing the impact of taxes on consumption.

BEA estimates of Federal personal income tax liabilities are derived primarily from the estimates of "total income tax" from the IRS's Statistics of Income: Individual Income Tax Returns (SOI). SOI estimates of total income tax are the sum of income tax after credits, including a portion of the earned income tax credit, and the alternative minimum tax. The SOI estimates are adjusted so that the coverage of the liabilities series is comparable with that of the NIPA payments series.⁴ The data for these adjustments are from SOI and related publications and from the IRS Data Book.

The SOI estimates are raised by the addition of recapture taxes from the recomputation of investment, low-income housing, and other tax credits for the prior year; assessment from audits, net of refunds on amended returns (Form 1040X); and fiduciary income taxes.

The SOI estimates are reduced by the portion of the earned income credit that is used to offset social security and penalty taxes and by income taxes paid by U.S. citizens living abroad for 1 year or more. In the NIPA's, these citizens are considered residents of foreign countries.

The following paragraphs identify the sources of differences between liabilities and payments, for income that is subject to withholding and income that is not subject to withholding.

Income subject to withholding.—In the Internal Revenue Code, three types of withholding are provided—mandatory, optional, and backup.

Mandatory withholding applies to most wages and salaries, military retirement pay, supplemental wages, and certain other incomes, such as gambling winnings. For wages and salaries, liabilities differ from payments for several reasons. The most important reason is that the withholding tables that are issued by the IRS and that are used by employers to calculate the amounts to be withheld on wages and salaries are based on two simplifying assumptions.

The first assumption is that taxpayers use the standard deduction in calculating their income tax liabilities. However, taxpayers who itemize their deductions may be overwithheld if they underestimate the number of additional withholding allowances that are necessary to offset the excess of their estimated itemized deductions over the standard deduction.⁵ The second assumption is that each taxpayer's wages are constant throughout the year, so overwithholding may result if wages vary widely within the year and are therefore subject to varying withholding rates. In addition, overwithholding may result from the use of withholding for "forced savings" or from the failure to estimate growth in itemized deductions.

Overwithholding may also result when withholding for certain payments is based on flat rates rather than on the withholding-table rates. For example, at the option of an employer, withholding may be based on a flat 28 percent for supplemental wages (such as bonuses, commissions, and overtime pay) and on a flat 20 percent for taxable fringe benefits (such as company cars provided to employees and free or discounted commercial flights). For certain gambling winnings of more than \$5,000, withholding must be at a flat 28 percent.

When tax laws change, changes to withholding tables may differ from changes to liabilities either by timing or by amounts. Tax law provisions are usually effective on January 1, but the withholding tables are sometimes updated later. The withholding tables are usually updated to reflect changes in the standard deduction, exemptions, and tax rates, but they are not updated to

^{4.} The NIPA estimates of personal income taxes are derived primarily from financial statements of the Federal Government. BEA begins with the combined income and social security taxes, which are collected together. First, a timing adjustment is made to the combined collections; and then the social security tax portion is subtracted based on a tabulation of employment tax returns from the Social Security Administration. Other adjustments are also made, such as the elimination of interest charges on late taxes and of taxes paid by residences of foreign countries.

^{5.} Employees must fill out "Employee's Withholding Allowance Certificate" (Form W-4) so that their employers can withhold Federal income tax from their pay. Employees determine the number of withholding allowances based on estimated itemized deductions, on estimated adjustments to gross income, on the number of personal and dependency exemptions, and on filing status. Employees may submit new Form W-4's at any time to change the number of withholding allowances. These options provide them with some discretion over the effective rates at which taxes are withheld from their incomes.

^{6.} For example, in August 1993, the Omnibus Budget Reconciliation Act of 1993 created two new tax brackets of 36 percent and 39.6 percent, which applied to all income in 1993, but the withholding tables reflecting these new rates were not available to employers until January 1994.

reflect changes in the provisions affecting itemized deductions or adjustments to gross income.

Differences between liabilities and payments may also arise when withholding is the tax-payer's option, as is the case for pensions and annuities; unemployment compensation; certain Federal Government payments, such as social security and tier 1 railroad retirement benefits; and sick pay from other than an employer.

Backup withholding applies to all types of non-wage income that are subject to information reporting. For example, backup withholding is required if the recipient fails to furnish an accurate taxpayer identification number to the payor or if the recipient lacks certification that the income is not subject to backup withholding (this withholding was initiated in 1984 as a compliance measure). The backup withholding system requires a payor to deduct and withhold income tax from reportable payments, such as interest or dividends, at a 31-percent rate, and it may result in overwithholding if the income is actually taxed at a lower rate.

The net result of all of these factors has been persistent overwithholding of taxes on income subject to withholding, despite an attempt to reduce overwithholding by redesigning the withholding tables in 1992.⁷

Income not subject to withholding.—For income that is not subject to withholding (such as selfemployment income, capital gains, taxable social security benefits, and most interest, dividends, and pensions and annuities), liabilities differ from payments for two reasons. First, the proportion of the current year's liabilities that must be paid in estimated taxes in order to avoid a penalty is less than 100 percent. Second, settlements and the last installment of quarterly estimated taxes are for liabilities that are incurred in 1 year but that are paid to the U.S. Treasury Department in the next year; refunds also are made in the year after the liabilities were incurred. (Settlements, quarterly estimated taxes, and refunds are recorded in the payments series in the calendar year in which they are received or paid by the U.S. Treasury Department.) As a result, net payments of nonwithheld taxes during a year may not reflect that year's income. Therefore, nonwithheld tax payments (declarations and settlements) tend to be less than liabilities.

As noted below, overwithholding on wage and salary income tends to offset much of this shortfall, and the net difference between total payments and total liabilities is smaller than the difference that would be expected by an examination of either withheld income taxes or nonwithheld income taxes

In addition to the timing differences between payments and liabilities, there are measurement errors that cannot be isolated from the timing-basis differences. These errors include sampling and nonsampling errors with the SOI sample data, reporting and processing errors with the financial statements for the Federal Government and with employment tax return tabulations from the Social Security Administration, and estimating errors in the NIPA payments series and in the coverage adjustments made to the SOI data to derive the liabilities series.

Differences between liabilities and payments

BEA estimates of Federal personal income tax liabilities and the NIPA estimates of Federal personal income tax payments are derived from different source data. The BEA estimates of Federal personal income tax liabilities are derived primarily from the SOI estimates of total income tax, and the NIPA estimates of Federal personal income tax payments are derived primarily from the Monthly Treasury Statement of Receipts and Outlays of the United States Government. The most notable differences—in 1972, 1982–83, and 1986–90—usually reflect changes in tax laws.

For 1972, tax payments exceeded tax liabilities by \$8.5 billion. The excess payments primarily resulted from increases in withholding rates that were designed to eliminate widespread underwithholding. The new withholding tables effective for wages paid after January 15, 1972, resulted in overwithholding for wage earners unless they claimed one or more additional withholding allowances to offset the higher rates. However, many wage earners did not claim the additional withholding allowances, so payments greatly exceeded liabilities.

For 1982, tax payments exceeded tax liabilities by \$14.8 billion, and for 1983, by \$8.4 billion. The excess payments resulted primarily from provisions of the Economic Recovery Tax Act of 1981. The most important provision of this act was a three-stage reduction in personal income tax rates: 5 percent in October 1981, 10 percent in July 1982, and 10 percent in July 1983. Tax payments were reduced, primarily through cuts in withholding rates that were effective in October 1981, in July 1982,

^{7.} However, much of this overwithholding may not represent overwithholding for total income taxes (that is, total payments in excess of total liabilities), because individuals may choose to withhold more from their wages in order to cover tax liabilities on income not subject to withholding.

^{8.} The higher withholding rates were designed to result in overwithholding for wage earners who elected to take the standard deduction; overwithholding was much larger for wage earners who itemized their expenses and deductions. Overwithholding was built into withholding tables until 1991. New withholding tables introduced in 1992 largely removed the built-in overwithholding.

and in July 1983. However, these cuts were less than the reduction in liabilities, resulting in substantial excess payments, especially for 1982 and 1983.

For 1986–88, the differences resulted primarily from provisions of the Tax Reform Act of 1986 (TRA). Most of the provisions of the TRA were effective on January 1, 1987, but a few were retroactive to January 1, 1986.

For 1986, tax liabilities exceeded tax payments by \$24.8 billion. This substantial difference reflected unusually the large taxable capital gains declared in that year; these gains increased from \$68.3 billion in 1985 to \$132.8 billion in 1986, when the preferential tax treatment of long-term capital gains was repealed by the TRA. Under the TRA, capital gains were taxed at the same rate as ordinary income, but in 1987, the top rate was limited to 28 percent. Previously, long-term capital gains were taxed at only 40 percent of the ordinary income tax rates, so the top rate was 20 percent. Thus, many taxpayers accelerated realizations of capital gains into the fourth quarter of 1986. Because capital gains

Table 2.—Revisions to Federal Personal Income Tax Liabilities and Payments, 1959–96

[Billions of dollars]

| | Li | abilities bas | is | Pa | ayments ba | sis | | | |
|--|--|--|--|--|--|---|---|---|---|
| Year | Pre- viously published | Revised | Revision | Pre- viously published | Revised | Revision | Pre- viously published | Revised | Revision |
| 1959 | 39.1 39.9 42.7 45.3 48.7 50.2 56.7 63.6 77.4 87.2 | 39.0 39.9 42.7 45.4 48.8 47.8 50.2 56.8 63.7 77.5 87.4 | 0.0 0.1 1.1 0.1 1.1.2 | 38.4 41.7 42.6 46.4 49.0 45.8 50.9 58.4 64.1 76.2 91.1 | 38.5 41.8 42.7 46.5 49.1 46.0 51.1 58.6 64.4 76.4 | 0.1 .1 .1 .1 .2 .2 .2 .3 .2 .6 | 0.7 1.8 1.1 1.3 1.9 1.7 1.7 1.5 1.2 9 | 0.5 -1.9 -1.1 -33 1.8 -1.8 -7 1.1 -4.3 | -0.2 1 1 0 1 2 1 2 1 |
| 1970 | 84.3 85.9 94.2 108.8 124.5 117.3 142.8 161.0 189.6 216.1 | 84.5 86.1 94.3 108.9 124.4 117.3 142.8 161.0 189.6 216.1 | 99111 100000 | 88.5 85.3 102.3 109.1 126.0 120.4 140.8 161.8 188.4 224.0 | 88.9 85.8 102.8 109.6 126.5 120.7 141.2 162.2 188.9 224.6 | 4555534456 | 426 8.1 -3 -3.1 -3.1 2.0 -8 1.2 -7.9 | -4.4 3.5 -7.7 -2.1 -3.4 1.6 -1.2 -8.5 | 2 3 4 6 3 4 5 6 |
| 1980 | 252.2 286.7 280.3 278.0 307.1 332.9 375.2 379.6 422.9 441.6 | 252.3 286.7 280.2 277.8 306.7 331.5 374.9 378.7 422.0 440.0 | .1 0 -1 -2 -4 -1.4 -3 -9 -1.6 | 249.5 290.1 295.0 286.8 301.9 336.7 350.7 394.1 405.6 453.2 | 250.0 290.6 295.0 286.2 301.4 336.0 350.1 392.5 402.9 451.5 | 55 06 5 7 6 -1.6 -2.7 -1.7 | 2.7 -3.4 -14.7 -8.8 5.2 -3.8 24.5 -14.5 -11.6 | 23 -3.9 -14.8 -8.4 -5.3 -4.5 24.8 -13.8 -11.5 | 4 5 1 .4 .1 7 .3 .7 1.8 |
| 1990 1991 1992 1993 1994 1995 | 455.3 457.1 484.5 509.5 540.4 594.0 665.8 | 453.4 455.4 483.1 508.5 540.3 592.9 664.5 | -1.9 -1.7 -1.4 -1.0 -1.1 -1.1 | 472.7 464.4 478.1 508.1 545.3 589.0 666.9 | 470.2 461.3 475.3 505.4 542.5 585.6 662.9 | -2.5 -3.1 -2.8 -2.7 -2.8 -3.4 -4.0 | -17.4 -7.3 6.4 1.4 -4.9 5.0 -1.1 | -16.8 -5.9 7.8 3.1 -2.2 7.3 1.6 | .6 1.4 1.4 1.7 2.7 2.3 2.7 |

are not subject to withholding, 1986 tax payments were little affected by the accelerated realizations.

For 1987, tax payments exceeded tax liabilities by \$13.8 billion. The excess payments reflected the settlements of the 1986 capital gains tax liabilities.

For 1988, tax liabilities exceeded tax payments by \$19.1 billion. The excess liabilities reflected continued increases in the incomes of partnerships and S corporations and in capital gains, for which taxes are not withheld. The large increase in the incomes of partnerships and S corporations—from \$24.3 billion in 1987 to \$57.1 billion in 1988—was affected by the TRA's phasing out of passive losses beginning in 1987.

For 1989, tax payments exceeded tax liabilities by \$11.5 billion. The excess payments partly reflected the settlement of the 1988 tax liabilities; the excess also reflected a decrease in capital gains (by \$8.1 billion) and a slowdown in the increase in the incomes of partnerships and S corporation (by \$6.0 billion), both of which limited the increase in tax liabilities. Moreover, because of the overwithholding inherent in the withholding system, tax payments tend to exceed tax liabilities when incomes not subject to withholding increase at a slow rate or decline.

For 1990, tax payments exceeded tax liabilities by \$16.8 billion. The excess payments primarily reflected a decrease in the income not subject to withholding. Taxable capital gains declined \$31.4 billion and taxable self-employment income declined \$9.9 billion as a result of a new deduction for one-half of self-employment tax owed. As in 1989, payments also exceeded liabilities largely because of a slowdown in income not subject to withholding.

For 1991–97, the differences between liabilities and payments were relatively small, despite numerous changes in the tax laws.¹⁰

Sources of revisions for 1959-96

The revisions to the annual series for liabilities and for payments for 1959–96 reflected the incorpora-

Beginning with 1990, if a taxpayer had income from self-employment and owed self-employment tax, the taxpayer was allowed to deduct one-half of that tax. The deduction was entered on Form 1040 as an adjustment to total income.

^{10.} The following major tax law changes affected liabilities during this period: The decrease in the maximum tax rate on net long-term capital gains from 28 percent for 1991 to 20 percent for 1997; the increase in the maximum tax rate on other types of income from 31 percent for 1991 to 39.6 percent for 1997; the increase in the maximum earned income tax credit from \$1,192 for one qualifying child for 1991 to \$2,210 for 1997; the phaseout of certain itemized deductions beginning with 1991; and the taxation of up to 85 percent of social security and equivalent tier 1 railroad retirement benefits beginning with 1994. Tax payments were changed to reflect liabilities changes by the introduction of new withholding tables and by changes in the minimum estimated tax payments requirements. As noted in footnote 8, new withholding tables introduced in 1992 largely removed the built-in overwithholding that was present in the tables since 1972.

tion of definitional and statistical changes made in the comprehensive revision of the NIPA's that was released in October 1999 and the incorporation of updated *SOI* estimates of total income from the *Statistics of Income Bulletin* (table2).¹¹

The definitional changes to the NIPA payments series include the reclassifications of several Federal tax and contributions items. The refunds under the Federal Insurance Contribution Act (FICA) were reclassified as offsets against contributions for social insurance; previously, the FICA refunds were treated as offsets against personal income taxes. Penalties related to estimated taxes and to individual retirement plans were reclassified as personal nontaxes, and the excise taxes related to private pension plans were reclassified as business

nontaxes; previously, those penalties and excise taxes were treated as personal income taxes. These definitional changes were also made to the BEA liabilities series, so the differences between the two series were unaffected. ¹²

Several statistical changes were incorporated into the liabilities series, beginning with 1959, and into the payments series, beginning with 1988. Because the net amounts of statistical changes to the annual estimates of liabilities and of payments were small, revisions to the differences were also small.

^{11.} For details about the definitional changes for Federal Government taxes, see Moulton, Parker, and Seskin, "Definitional and Classificational Changes," 15. For SOI data, see Internal Revenue Service, Statistics of Income Bulletin (Washington, DC: U.S. Government Printing Office, Spring 1999).

^{12.} Previously, the items reclassified in the definitional changes were part of the adjustments made to SOI estimates of total income tax in the derivation of the liabilities series; these adjustments were made in order to make the coverage of the liabilities series comparable with that of the payments series.

^{13.} Statistical changes to the liabilities series included the incorporation of newly available source data on additional assessments from audits and revised source data for income taxes paid by U.S. citizens living abroad for 1 year or more. Statistical changes to the payments series included the incorporation of revised source data for interest paid on late taxes and for taxes paid by U.S. citizens living abroad for 1 year or more.

Federal Budget Estimates, Fiscal Year 2001

By Laura M. Beall and Sean P. Keehan

THE FEDERAL Budget of the United States Government, Fiscal Year 2001 that was released by the President shows a \$184.0 billion surplus, a \$17.3 billion increase over the projected \$166.7 billion surplus in fiscal year 2000. The surplus in fiscal year 1999 was \$124.4 billion. After adjustments that put these estimates on a consistent basis with the national income and product accounts (NIPA's), the current surplus would increase \$16.5 billion, to \$171.1 billion, in fiscal year 2001.

These Federal budget surplus estimates are derived from all Federal transactions—that is, all unified budget receipts and all unified budget outlays.² The fiscal year 2001 surplus reflects the administration's proposed legislation and program changes, the economic assumptions used in making the budget projections, and the laws that have already been enacted.³

This article summarizes the proposed legislation and program changes in the administration's budget and the budget estimates.⁴ It then presents

the budget receipts and outlays in the framework of the NIPA's, which are designed to show the composition of production and the distribution of the incomes earned in production. This framework, which differs in concept and timing from the budget, provides a means of gauging the effects of the Federal budget on aggregate measures of U.S. economic activity, such as gross domestic product, that are part of the NIPA's.

Proposed legislation and program changes

Receipts.—The fiscal year 2001 budget presents proposed legislation that would increase receipts by a net \$9.1 billion (table 1). The largest proposals are an increase in the per pack tax on cigarettes that would add \$4.1 billion to receipts and a transfer from the Federal Reserve to the U.S. Treasury that would add \$3.8 billion.

Proposals to limit the benefits of corporate tax shelter transactions by increasing the disclosure of certain transactions, codifying the judicially created economic substance doctrine, increasing and strengthening the understatement penalty on corporate tax shelter items, and penalizing all parties involved with tax shelter transactions would add \$2.3 billion to receipts.

Proposals to reinstate excise taxes for the Hazardous Substance Superfund Trust Fund, to convert Airport and Airway Trust Fund excise taxes to a cost-based user fee, and to reinstate corporate environmental taxes would each increase receipts by \$0.7 billion. The excise taxes for the Hazardous Substance Superfund Trust Fund are levied on petroleum, chemicals, and imported substances. Under the Airport and Airway Trust Fund proposal, excise taxes that are levied on domestic air passengers and cargo and on international arrivals and departures would gradually be reduced and a cost-based user fee for air traffic services would be phased in beginning in fiscal year 2001.

Corporate income tax proposals to repeal the lower-of-cost-or-market inventory accounting method for valuing ending inventories and to modify the rules for how life insurance companies

^{1.} Executive Office of the President, Office of Management and Budget, Budget of the United States Government, Fiscal Year 2001 (Washington, DC: U.S. Government Printing Office, 2000).

^{2.} Other presentations of the Federal budget distinguish between off-budget and on-budget transactions or between the trust funds surplus and the Federal funds deficit. The off-budget surplus, which consists of the social security trust funds and the Postal Service fund, is \$147.8 billion in 2000 and \$159.6 billion in 2001. In 2000, the on-budget surplus of \$18.9 billion is the difference between the total surplus and the off-budget surplus; in 2001, the on-budget surplus of \$9.0 billion is the difference between the total surplus and the off-budget surplus and the reserve for a proposed plan to ensure medicare solvency (\$15.4 billion) that is in the administration's budget. In the trust funds/Federal funds breakdown, the proposed surplus generated from all trust funds—such as social security, medicare, and unemployment compensation—would amount to \$224.3 billion in 2000 and \$241.3 billion in 2001. The Federal funds measure, which consists of all transactions that are not classified in trust funds, would show deficits of \$57.6 billion in 2000 and \$57.3 billion in 2001. There are no equivalent measures of these presentations in the NIPA's.

^{3.} Estimates of the administration's proposed legislation and program changes are the difference between the "current-services" estimates, which are included in the budget, and the actual budget. The current-services estimates, which are based on the economic assumptions underlying the budget, are designed to show what Federal receipts and outlays would be if no changes are made to the laws that have already been enacted, with the exception that excise taxes dedicated to trust funds are assumed to be extended for all years, including the years after the law is to expire. In concept, these estimates are neither recommended amounts nor forecasts; they form a baseline with which administration or congressional proposals can be analyzed.

^{4.} The article on the Federal budget estimates is usually published after the release of the Federal budget; see "Federal Budget Estimates, Fiscal Year 2000" in the March 1999 SURVEY OF CURRENT BUSINESS. This article provides updated fourth-quarter 1999 estimates that incorporate information that became available since the release of the budget, as well as more detailed estimates of receipts and expenditures than are shown in the NIPA estimates published in Analytical Perspectives: Budget of the United States Government, Fiscal Year 2001.

can capitalize policy acquisition costs would each add \$0.5 billion to receipts.

In addition, over 70 smaller proposals would increase receipts by a total of \$2.6 billion.

Partly offsetting the proposed \$16.0 billion increase in receipts are proposed tax credits and other tax law changes that would decrease receipts \$6.9 billion. There are several proposals that would reduce personal income taxes. A proposal to remove nontaxable forms of income when determining

Table 1.—Relation of Current-Services Estimates to the Budget [Billions of dollars]

| | Fiscal | year |
|--|-------------------------|---------------------------|
| | 2000 | 2001 |
| Receipts | | |
| Current-services estimates | 1,955.7 | 2,009.9 |
| Plus: Proposed legislation | .6 | 9.1 |
| Tobacco tax | .4 | 4.1 |
| Limit benefits of corporate tax shelter transactions Reinstate Hazardous Substance Superfund excise | 0 | 3.8 2.3 |
| taxes | .2 | .7 .7 |
| Reinstate environmental tax imposed on corporate income | | .7 |
| Repeal lower-of-cost-or-market inventory accounting method | | .5 .5 |
| Modify rules for life insurance policy acquisition costs Other | .2 | .5 2.6 |
| Subtotal: Provisions that increase receipts | .8 | 16.0 |
| Simplify the earned income tax credit Simplify tax law and modify alternative minimum tax | 2 | -2.3 9 |
| Education incentives | 1 0 | 7 5 |
| itemize Replace Harbor Maintenance Tax with user fee Other | 0 | 5 5 -1.4 |
| Subtotal: Provisions that decrease receipts | 2 | -6.9 |
| Equals: The budget | 1,956.3 | 2,019.0 |
| Outlays | | |
| Current-services estimates | 1,776.2 | 1,838.8 |
| Plus: Program changes | 13.4 | -3.7 |
| Commerce and housing credit | 0 6.3 | -3.3 -3.1 |
| Education, training, employment, and social services Veterans benefits and services Allowances ¹ | .1 1.8 | -1.9 -1.5 -1.0 |
| MedicareIncome security | .8 0 2.2 | 9 |
| Net interest | .3 0 0 | 8 .3 .3 .5 .7 |
| Health General government | .3 .1 | .7 .8 |
| International affairs Transportation | .5 | 1.0 1.3 |
| Agriculture | .7 .3 | 3.5 .4 |
| Equals: The budget | 1,789.6 | 1,835.0 |
| Current-services surplus or deficit (-) Proposed changes, receipts less outlays Administration budget surplus or deficit (-) | 179.5 -12.8 166.7 | 171.2 12.8 184.0 |

Allowances are included in budget totals to cover certain budgetary transactions that are expected to increase or decrease outlays, receipts, or budget authority but are not reflected in the program details. Allowances include funding for emergencies, such as natural disasters, and for unforeseen defense and nondefense costs.
 Source: The Budget of the United States Government, Fiscal Year 2001.

eligibility for the earned income tax and to increase the credit rate for families would reduce receipts by \$2.3 billion. A proposal to simplify several provisions of tax law and modify the alternative minimum tax would reduce receipts by \$0.9 billion. An increase in the tax credit for post-secondary education and the exclusion of graduate education assistance from gross income would reduce receipts by \$0.7 billion. A proposal to allow a partial deduction of charitable contributions by taxpayers who do not itemize would reduce receipts by \$0.5 billion.

A proposal to reduce customs duties by modifying international trade provisions would reduce receipts by \$0.5 billion. This proposal involves extending the provisions in the Generalized System of Preferences that eliminate duties on certain goods from eligible developing countries.

A proposal to replace the Harbor Maintenance Tax with a cost-based user fee would reduce customs duties by \$0.5 billion. The user fee would raise less revenue than would have been raised by the Harbor Maintenance Tax, which was ruled unconstitutional.

Numerous smaller proposals would reduce receipts by a total of \$1.4 billion. Of these, proposals to increase the standard deduction for married couples with two incomes to twice the amount of the deduction for single filers and to modify the child care tax credit would reduce receipts by \$0.4 billion. A proposal to lower Federal employee retirement contributions would reduce receipts by \$0.4 billion. Proposals to promote energy efficiency would reduce receipts by \$0.2 billion.

Outlays.—The fiscal year 2001 budget proposes program changes that would decrease total outlays by a net \$3.7 billion. The largest reduction is \$3.3 billion for commerce and housing credit, resulting from lower budget outlays for the 2000 decennial census. A proposal to repeal the law that delays the last payday in September 2000 would reduce national defense outlays by \$3.1 billion.⁵ Similar proposals to repeal pay and benefit delays largely account for a \$1.5 billion decrease in veterans benefits and services, a \$1.0 billion decrease in allowances, and a \$0.8 billion decrease in income security. Proposed legislation to reduce lender subsidies and to improve management and collection of defaulted loans would reduce outlays for education, training, employment, and social

these laws do not impact the NIPA estimates.

^{5.} As a result of the law, the last payday in September would actually fall in October 2000, thereby making it part of the budget for fiscal year 2001. The proposed repeal returns that payday to the budget for fiscal year 2000.

Compensation in the NIPA's is recorded on an accrual basis. Therefore,

services by \$1.9 billion. The program changes to medicare brought about by savings proposals such as cost sharing for laboratory services and by proposals to insure program integrity would decrease total outlays by \$0.9 billion.

The largest increase in outlays would be a \$3.5 billion increase in agriculture, primarily from proposed legislation that would provide financial assistance to farmers if prices fall. Outlays for transportation would increase \$1.3 billion, based on changes to airports and airways, highways, and mass transit programs. Outlays for international affairs would increase \$1.0 billion, from program changes affecting international development and humanitarian assistance, international security assistance, and conduct of foreign affairs. Outlays for general government would increase \$0.8 billion, from program changes affecting central fiscal

Table 2.—Budget Receipts by Source [Billions of dollars]

| , | | Level for fi | scal year | | Change from preceding ye | | | | |
|---|---------|--------------|-----------|---------|--------------------------|-------------|-------------|--|--|
| | 1998 | 1999 | 2000 | 2001 | 1999 | 2000 | 2001 | | |
| Budget receipts | 1,721.8 | 1,827.5 | 1,956.3 | 2,019.0 | 105.7 | 128.8 | 62.8 | | |
| Individual income taxes Social insurance taxes and | 828.6 | 879.5 | 951.6 | 972.4 | 50.9 | 72.1 | 20.8 | | |
| contributions | 571.8 | 611.8 | 650.0 | 682.1 | 40.0 | 38.2 | 32.1 | | |
| Corporation income taxes | 188.7 | 184.7 | 192.4 | 194.8 | -4.0 | 7.7 | 2.4 | | |
| Excise taxes | 57.7 | 70.4 | 68.4 | 76.7 | 12.7 2.3 | -2.0 7.6 | 8.3 -2.6 | | |
| Miscellaneous receipts | 32.7 | 34.9 | 42.5 | 39.9 | 2.3 | 7.6 | | | |
| Estate and gift taxes | 24.1 | 27.8 | 30.5 | 32.3 | 3.7 | 2.7 | 1.8 | | |
| Customs duties | 18.3 | 18.3 | 20.9 | 20.9 | 0 | 2.5 | 0 | | |

Source: The Budget of the United States Government, Fiscal Year 2001.

Table 3.—Budget Outlays by Function [Billions of dollars]

| 2000 1,789.6 406.6 290.6 251.3 202.5 | 2001 1,835.0 425.7 291.2 259.7 | 1999 50.4 10.8 6.4 | 2000 86.5 16.6 15.8 | 2001 45.5 |
|---|--|--|---|---|
| 406.6 290.6 251.3 | 425.7 291.2 | 10.8 6.4 | 16.6 | |
| 290.6 251.3 | 291.2 | 6.4 | | 19.1 |
| 220.3 154.2 63.4 46.7 46.8 26.8 24.5 32.0 17.1 15.0 11.1 5.6 .8 | 220.5 208.3 166.7 67.5 49.5 46.4 31.4 25.0 22.4 19.6 19.6 19.6 10.2 2.1.0 | 1.5 2.2 1.4 3.1 1.6 10.8 1 2.3 2.1 1.6 0 | 13.6 12.1 19.4 13.1 7.0 4.2 3.6 8.5 9.0 7 1.8 7 -7 8 3.0 8 | .68 8.44 18.00 12.5 4.1 2.8 -3.3 4.6 .5 -9.6 .8 2.55 -9.6 .4 -9.9 |
| | 46.8 26.8 24.5 32.0 18.9 17.1 15.0 11.1 5.6 | 46.8 46.4 26.8 31.4 24.5 25.0 32.0 22.4 18.9 19.6 17.1 19.6 15.0 15.4 11.1 10.2 5.6 2.9 .8 -1.0 | 46.8 46.4 1.4 26.8 31.4 3.1 24.5 25.0 1.6 32.0 22.4 10.8 18.9 19.6 -1 17.1 19.6 2.1 15.0 15.4 2.3 11.1 10.2 2.1 5.6 2.9 1.6 8 -1.0 0 | 46.8 46.4 1.4 3.6 26.8 31.4 3.1 .8 24.5 25.0 1.6 .5 32.0 22.4 10.8 9.0 18.9 19.6 -1 .7 17.1 19.6 2.1 1.8 15.0 15.4 2.3 -7 11.1 10.2 2.1 -8 5.6 2.9 1.6 3.0 .8 -1.6 -7 -4 -2.6 |

operations and legislative branch discretionary programs. Outlays for health would increase \$0.7 billion, primarily from proposed legislation to extend medicaid eligibility to parents whose children are covered under medicaid or the State Children's Health Insurance Fund.

The budget estimates

In the budget, receipts in fiscal year 2001 are projected to increase \$62.8 billion, to \$2,019.0 billion (table 2). Receipts in 2000 are projected to be \$1,956.3 billion, up \$128.8 billion from 1999. Most of the increase in 2001 is accounted for by projected increases in social insurance taxes and contributions and in individual income taxes. The projected increases in 2000 and 2001 are based on administration economic assumptions.⁶ The administration assumes the economy will grow 2.9 percent in 2000 and 2.6 percent in 2001. In addition, unemployment is projected to remain unchanged in 2000 and to increase slightly in 2001. Inflation and interest rates are projected to remain relatively low.

Excise taxes would increase \$8.3 billion after decreasing \$2.0 billion in 2000. The decrease in 2000 is accounted for by a projected decrease in excise taxes on motor fuels; provisions of the Taxpayer Relief Act of 1997 delayed deposits of excise taxes on alternative motor fuels from fiscal year 1998 to fiscal year 1999. The increase in 2001 largely reflects the proposed increase in the tobacco tax, the reinstatement of the hazardous substance excise tax, and the phasing-in of the cost-based user fee for air traffic services.

Miscellaneous receipts would decrease \$2.6 billion after increasing \$7.6 billion. These changes are primarily based on projected deposits of earnings by the Federal Reserve System.

Under the budget proposals, total budget outlays in fiscal year 2001 are projected to increase \$45.5 billion, to \$1,835.0 billion (table 3). Outlays in 2000 are projected to be \$1,789.6 billion, up \$86.5 billion from 1999. The projected increase in 2001 is mostly accounted for by increases in four areas:

- Social security. An increase of \$19.1 billion is accounted for by an increase in currentservices outlays for old-age and survivors insurance benefits. This increase reflects cost-of-living adjustments and assumptions about inflation and about the number of beneficiaries in these programs.
- Medicare. An increase of \$18.0 billion is accounted for by an increase of \$18.9 billion

Allowances are included in budget totals to cover certain budgetary transactions that are expected to increase or decrease outlays, receipts, or budget authority but are not reflected in the program details. Allowances include funding for emergencies, such as natural disasters, and for unforeseen defense and nondefense costs.
 Undistributed offsetting receipts are collections that are governmental in nature and that are not credited to expenditure accounts. Undistributed offsetting receipts fall into two categories: Receipts from performing business-like activities, such as proceeds from selling Federal assets or leases; and shifts from one account to another, such as agency payments to retirement funds. Source: The Budget of the United States Government, Fiscal Year 2001.

^{6.} See "Economic Assumptions," Analytical Perspectives: 3-15.

- in current-services outlays, based on expected increases in health services.
- Health. An increase of \$12.5 billion is mainly accounted for by a \$12.0 billion increase in current-services outlays, based on projected increases in drug prices, in home- and community-based services, and other health services.
- Income security. An increase of \$8.4 billion is more than accounted for by an \$11.4 billion increase in current-services outlays. Most of the increase is accounted for by increases in unemployment insurance programs, civilian employee and military retirement, and other income support programs.

These increases are partly offset by decreases in two areas:

- Net interest. A decrease of \$12.0 billion is mostly accounted for by the decrease in the Federal debt and the lower interest rate on the remaining debt.
- Agriculture. A decrease of \$9.6 billion is more than accounted for by a decrease of \$12.4 billion in current-services outlays. The decrease primarily reflects emergency funding for farm income stabilization in fiscal year 2000 that is not anticipated for fiscal year 2001.

Relation between budget and NIPA estimates

The Bureau of Economic Analysis (BEA) prepares estimates of the Federal sector in the framework of the national income and product accounts (NIPA's). Unlike the budget, which is a financial plan of the government on a cash basis, the NIPA's facilitate macroeconomic analyses of the impact of changes in Federal current receipts, current expenditures, and gross investment on gross domestic product and its components. BEA makes adjustments to the budget estimates in order to provide estimates of Federal current receipts and current expenditures that are consistent over time with NIPA components. As part of the comprehensive revision released in October 1999, two major changes were made to the definitions and classifications used to measure the Federal sector that affect the relationship between the budget and the NIPA estimates.

- Government employee retirement plans, which were previously classified as social insurance funds within the government sector, are now treated similarly to private pension plans. This reclassification leads to several differences between the budget and the NIPA's. For example, employer contributions to the plans are classified as personal income (other labor income); previously, they had been classified as government current receipts (contributions to social insurance). Benefits paid by the plans are treated as transactions within the personal sector; previously, they had been classified as government current expenditures (transfer payments to persons).
- Certain transactions, which mainly represent transfers of existing assets, are removed from government current receipts and expenditures and reclassified as capital transfers.
 These transactions include certain investment grants-in-aid to State and local governments, investment subsidies to businesses, and estate and gift taxes.

One major conceptual difference between the budget and the NIPA's is in the treatment of government investment in fixed assets; in the NIPA's, government consumption expenditures excludes investment in fixed assets but includes a depreciation charge on past investment as consumption of fixed capital. Transfers of nonproduced assets, such as the sale of land, are excluded from the NIPA's because they do not affect current production. The NIPA's also exclude transactions with residents of Puerto Rico and the U.S. Territories, whose product and income are by definition not included in the NIPA's, and transactions of the Federal Communication Commission Universal Service Fund, which pass through a nonprofit institution that is regulated by the Federal Communication Commission.

NIPA current receipts differ from budget receipts because of differences in coverage, in netting

^{7.} These adjustments are shown in NIPA table 3.18; this table, reflecting the comprehensive revision, is scheduled to be published in the April SURVEY. For a detailed discussion of these adjustments, see Brent R. Moulton, Robert P. Parker, and Eugene P. Seskin, "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," SURVEY 79 (August 1999): 11–14. For estimates of the effects of these adjustments, see Eugene P. Seskin, "Improved Estimates of the National Income

and Product Accounts for 1959–98: Results of the Comprehensive Revision," SURVEY 79 (December 1999): 29–30.

For a detailed discussion of other adjustments, see Government Transactions, Methodology Paper No. 5 (November 1988), which is available from the National Technical Information Service, accession no. PB 90–118480, and at BEA's Web site, at <www.bea.doc.gov>.

For changes since the publication of this paper, see Robert P. Parker, "A Preview of the Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," SURVEY 71 (September 1991): 24–25; "Preview of the Comprehensive Revision of the National Income and Product Accounts: Recognition of Government Investment and Incorporation of a New Methodology For Calculating Depreciation," SURVEY 75 (September 1995): 33–41; and "Improved Estimates of the National Income and Product Accounts for 1959–95: Results of the Comprehensive Revision," SURVEY 76 (January/February 1996): 1–31.

^{8.} Additional differences between the treatment of these plans in the budget and in the NIPA's existed prior to the comprehensive revision.

and grossing (which provide additional information on items that are recorded on a net basis in the budget), and in timing. For most years, the differences between NIPA current receipts and budget receipts primarily reflect capital transfers received, personal and business nontaxes, and supplementary medical insurance premiums. For 2001, NIPA current receipts would be below budget receipts by \$2.4 billion; capital transfers received would remove \$32.2 billion, other netting and grossing differences would add \$24.6 billion, and supplementary medical insurance premiums would add \$23.2 billion (table 4).

Similarly, NIPA current expenditures differ from budget outlays because of differences in coverage, in netting and grossing, and in timing. Coverage differences include the exclusion of capital transfers paid and Federal employee retirement plan transactions; the NIPA treatment of government investment in fixed assets; the exclusion of financial transactions, such as loans; and the exclusion of sales of nonproduced assets, such as the radio spec-

Table 4.—Relation of Federal Government Current Receipts in the NIPA's to the Budget

[Billions of dollars]

| | | Fiscal year | |
|---|-------------------|------------------|--------------------|
| | 1999 | 2000 | 2001 |
| Budget receipts | 1,827.5 | 1,956.3 | 2,019.0 |
| Less: Coverage differences | 39.2 3.4 | 42.7 3.6 | 44.6 3.7 |
| employee retirement plans 2 Capital transfers received 3 Financial transactions | 4.5 27.7 | 4.3 30.3 0 | 3.9 32.2 0 |
| Other ⁴ | 3.7 –37.0 | 4.5 -39.5 | 4.8 -41.4 |
| Netting and grossing differences | -37.0 -21.6 | -39.5 -21.7 | -23.2 |
| the world 5Other 6 | 6.2 21.6 | 6.4 24.2 | 6.4 -24.6 |
| Plus: Timing differences | 16.3 5.5 | 0 3.2 | .8 5.5 |
| Federal and State unemployment insurance taxes | .2 | 0 | 1 |
| Withheld personal income tax and social security contributions Excise taxes | 16.1 -5.2 3 | 2.8 .2 5 | -4.3 .7 -1.0 |
| Equals: Federal Government current receipts, NIPA's | 1,841.6 | 1,953.1 | 2,016.6 |

^{1.} Consists largely of contributions for social insurance by residents of U.S. territories and

trum. For 2001, NIPA current expenditures would exceed budget outlays by \$10.5 billion; capital transfers paid would remove \$37.3 billion, Federal employee retirement plan transactions would add \$31.3 billion, and loan disbursements less loan repayments and sales would remove \$27.0 billion (table 5).

Table 5.—Relation of Federal Government Current Expenditures in the NIPA's to the Budget

[Billions of dollars]

| | | Fiscal year | |
|--|---------|-------------|---------|
| | 1999 | 2000 | 2001 |
| Budget outlays | 1,703.0 | 1,789.6 | 1,835.0 |
| Less: Coverage differences | 12.7 | 27.9 | 40.0 |
| | 10.6 | 11.1 | 11.8 |
| plan transactions ² | -32.0 | -32.1 | -31.3 |
| | -46.9 | -48.7 | -49.6 |
| (employer) | -62.6 | -63.7 | -65.1 |
| Benefits paid | 77.3 | 80.2 | 83.3 |
| Administrative expenses | .1 | .1 | .1 |
| Financing disbursements from credit programs ³ | -13.3 | 28.9 | -17.5 |
| covered ⁴ | 2.3 | 5.4 | 2.8 |
| | 2.4 | 9.6 | 15.9 |
| | 31.3 | 35.0 | 37.3 |
| | 12.5 | 29.5 | 24.4 |
| loan repayments and sales | 21.3 | 32.5 | 27.0 |
| | -3.2 | -1.0 | 3 |
| Net purchases of foreign currencyOther | 0 | 0 | 0 |
| | ~5.6 | -2.0 | -2.3 |
| Net purchases of nonproduced assets Outer Continental Shelf Land and other ⁷ Other ⁸ | -1.0 | -1.6 | -3.3 |
| | 0 | 0 | 2 |
| | -1.0 | 1.6 | -3.0 |
| | 1 | 1 | 1 |
| Netting and grossing differences | -37.0 | -39.5 | -41.4 |
| Supplementary medical insurance premiums Taxes received from the | -21.6 | 21.7 | -23.2 |
| rest of the world 9 | 6.2 | 6.4 | 6.4 |
| Other 10 | 21.6 | -24.2 | -24.6 |
| Plus: Timing differences Purchases (increase in payables net of | 2.5 | -2.7 | 9.0 |
| advances) | .7 | 4 | 3.4 |
| | 0 | 0 | 0 |
| | 1.3 | -2.6 | 5.4 |
| surplus of government enterprises | .5 | .2 | .3 |
| Equals: Federal Government current expenditures, NIPA's | 1,729.9 | 1,798.4 | 1,845.5 |

^{9.} Personal and business nontaxes, which are included in "other" netting and grossing differences in table 4, are classified as receipts in the NIPA's and netted against outlays in the budget.

Consists largery or commenced.
 These transactions are included in the NIPA personal sector.
 Consists of estate and gift taxes.
 Consists largely of Treasury receipts from sales of foreign currencies to Government agentated in consists largely of the budget and netted.

^{4.} Consists largely of Treasury receipts from sales of breight contents and entitled cles.

5. Taxes received from the rest of the world are included in receipts in the budget and netted against expenditures (transfer payments) in the NIPA's.

6. Includes proprietary receipts that are netted against outlays in the budget and classified as receipts in the NIPA's. Also includes some transactions that are not reflected in the budget data but are added to both receipts and expenditures in the NIPA's. Sources: The Budget of the United States Government, Fiscal Year 2001 and the Bureau of Economic Analysis.

<sup>1,729.9 1,798.4 1,845.5

1.</sup> Consists largely of transfer payments, subsidies, and grants-in-aid to residents of U.S. territories and Puerto Rico.

2. These transactions are included in the NIPA personal sector.

3. Consists of transactions (not included in the budget totals) that record all cash flows arising from post-1991 direct loan obligations and loan guarantee commitments. Many of these flows are for new loans or loan repayments; consequently, related entries are included in "Loan disbursements less loan repayments; consequently, related entries are included in "Loan disbursements less loan repayments and sales."

4. Consists largely of agencies or accounts such as the Postal Service and the Federal Financing Bank that, in some time periods, were not included in the budget.

5. Net investment is gross investment less consumption of fixed capital for government enterprises and general government.

6. Consists of investment grants to State and local governments and maritime construction subsidies. Does not include the forgiveness of debts owed by foreign governments to the U.S. Government; this forgiveness is classified as a capital transfer paid by the United States and is excluded from both budget outlays and NIPA current expenditures.

7. Consists of net sales of land other than the Outer Continental Shelf and, beginning with 1995, the auction of the radio spectrum.

8. Consists largely of net expenditures of foreign currencies.

9. Taxes received from the rest of the world are included in receipts in the budget and netted against expenditures (transfer payments) in the NIPA's.

10. Includes proprietary receipts that are netted against outlays in the budget and classified as receipts in the NIPA's. Also includes some transactions that are not reflected in the budget data but are added to both receipts and expenditures in the NIPA's.

Sources: The Budget of the United States Government, Fiscal Year 2001 and the Bureau of Economic Analysis.

In the NIPA framework, budget outlays for national defense and nondefense are reflected in both consumption expenditures and gross investment. For national defense, the budget outlays differ from the NIPA estimates for four principal reasons. First, some defense outlays, primarily disbursements for foreign military sales, are treated as exports in the NIPA's. 10 Second, NIPA expenditures are recorded on a delivery basis, and budget outlays are recorded on a cash basis; thus, in the NIPA's, all work-in-progress except shipbuilding and structures are included in the change-inprivate-inventories component of gross domestic product. Third, in defense outlays, the cost of the military retirement program is measured as the cash payment from the military personnel appropriation account to the military retirement trust fund. In the NIPA's, a payment is added to amortize the unfunded liability for military retirement ben-

Table 6.—Relation of National Defense Consumption Expenditures and Gross Investment in the NIPA's to National Defense Outlays in the Budget

[Billions of dollars]

| | | Fiscal year | |
|--|--------------|--------------|-------------|
| | 1999 | 2000 | 2001 |
| National defense outlays in the budget | 274.9 | 290.6 | 291.2 |
| Department of Defense, military | 261.4 | 277.5 | 277.5 |
| Military personnel Operation and maintenance | 69.5 | 73.5 | 75.1 |
| Operation and maintenance | 96.4 48.8 | 103.8 | 109.3 |
| Procurement | 46.8 16.5 | 48.0 15.7 | 51.0 |
| Aircraft Missiles | 3.1 | 3.2 | 17.1 3.4 |
| Ships | 6.7 | 5.2 5.8 | 6.4 |
| Weapons | 2.9 | 2.7 | 2.9 |
| Ammunition | 1.2 | 1.2 | 1.1 |
| Other | 18.5 | 19.3 | 20.1 |
| Research, development, test, and evaluation | 37.4 | 37.4 | 37.7 |
| Other | 9.3 | 14.8 | 4.5 |
| Atomic energy and other defense-related activities | 13.5 | 13.2 | 13.7 |
| Plus: Consumption of general government fixed capital | 62.2 | 63.0 | 63.5 |
| retirement funds | 21.7 | 21.7 | 22.4 |
| Timing difference | | 6 | 3.1 |
| Military assistance programs | .2 | 0 | .2 |
| Less: Grants-in-aid to State and local governments and net interest paid | 3.2 5 | 3.3 -1.0 | 3.5 -1.2 |
| Equals: National defense consumption expenditures and gross investment, NIPA's | 356.6 | 372.7 | 378.1 |
| Less: National defense gross investment 1 | 51.9 | 56.9 | 60.9 |
| Equals: National defense consumption expenditures, NIPA's | 304.7 | 315.8 | 317.2 |

Gross investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in Federal Government consumption expenditures.

efits earned by military personnel for service before 1985, and a payment is also added to amortize the unfunded liability for defense civilian retirement benefits; these payments are recorded in the budget as intergovernmental transactions. Fourth, the NIPA measure includes general government consumption of fixed capital; this item accounts for most of the difference between the budget outlays and the NIPA estimates for national defense (table 6).

The differences between the budget and NIPA estimates of receipts, of outlays, and of the current surplus or deficit that result from the adjustments detailed above are summarized in table 7. For 2001, the budget surplus exceeds the NIPA surplus by \$12.9 billion, primarily because timing adjustments raise NIPA expenditures more than NIPA receipts.

Fiscal year 2001 NIPA estimates

In the NIPA framework, the current surplus would increase \$16.5 billion, to \$171.1 billion, in fiscal year 2001, after increasing \$42.9 billion in fiscal year 2000 (chart 1). The slowdown is due to a sharp deceleration in current receipts, mostly in personal tax and nontax receipts and in corporate profit tax accruals. Current expenditures also slowed, as a sharp deceleration in consumption expenditures and a downturn in subsidies less current

Table 7.—Relation of Administration Budget and NIPA Estimates of Federal Government Current Receipts and Expenditures

[Billions of dollars]

| | Leve | for fiscal | year | Change | | | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------|----------------------|--|--|--|--|--|--|
| İ | Actual | Estin | nates | precedin ye | | | | | | | |
| | 1999 | 2000 | 2001 | 2000 | 2001 | | | | | | |
| Administration budget: Receipts | 1,827.5 1,703.0 124.4 | 1,956.3 1,789.6 166.7 | 2,019.0 1,835.0 184.0 | 128.8 86.5 42.3 | 62.8 45.5 17.3 | | | | | | |
| NIPA's:. Receipts Outlays Surplus or deficit (-) 1 | 1,841.6 1,729.9 111.7 | 1,953.1 1,798.4 154.7 | 2,016.6 1,845.5 171.1 | 111.4 68.5 42.9 | 63.5 47.0 16.5 | | | | | | |
| | Differences | | | | | | | | | | |
| Administration budget less NIPA's:. Receipts Outlays Surplus or deficit (-) | -14.1 -26.9 12.7 | 3.2 -8.8 12.0 | 2.4 10.5 12.9 | 17.3 18.1 7 | 8 -1.7 .9 | | | | | | |

^{1.} The NIPA current surplus or deficit reflects the treatment of government investment that was introduced in January 1996. Current expenditures include (1) consumption of fixed capital for general government in consumption expenditures, and (2) consumption of fixed capital for government enterprises as an expense in the calculation of the current surplus of government enterprises. Gross investment in fixed assets by general government and by government enterprises is not classified as a current expenditure in the year the asset is purchased but is classified, instead, as an expenditure over the service life of the asset.

Sources: The Budget of the United States Government, Fiscal Year 2001 and the Bureau of Fconomic Analysis.

^{10.} The production of military equipment is initially recorded in the change in private inventories, and when the equipment is delivered, a decrease in private inventories is recorded. For sales of equipment to foreign governments, the decrease is offset by an increase in exports; for sales to the U.S. Government, the decrease is offset by an increase in government consumption expenditures and gross investment.

tures.

Sources: The Budget of the United States Government, Fiscal Year 2001 and the Bureau of Economic Analysis.

of Economic Analysis.

NIPA National income and product accounts

surplus of government enterprises more than offset an acceleration in transfer payments.

In the NIPA framework, Federal current receipts would increase \$63.5 billion, to \$2,016.6 billion, in fiscal year 2001, after increasing \$111.4 billion in fiscal year 2000 (chart 2). The slowdown is more than accounted for by a deceleration in the tax base that would increase current receipts \$54.1 billion after increasing \$110.9 billion (table 8). The tax base is estimated using administration economic assumptions and does not include the impact of any proposed legislation. Within current receipts,

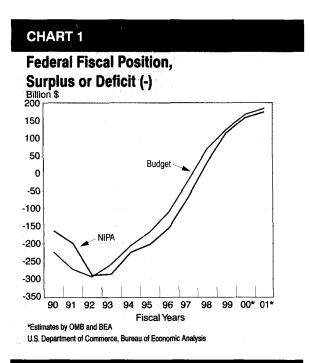
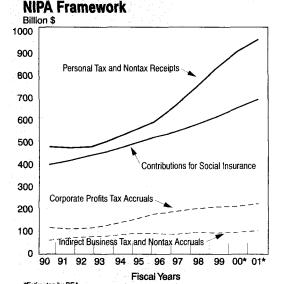


CHART 2 Federal Government Current Receipts,



*Estimates by BEA
U.S. Department of Commerce, Bureau of Economic Analysis

personal tax and nontax receipts would increase \$20.8 billion after increasing \$53.9 billion; the slowdown is mostly due to a deceleration in wages and salaries. Corporate profits tax accruals would increase \$1.5 billion after increasing \$11.7 billion; the deceleration is more than accounted for by a downturn in the tax base, according to administration economic assumptions on the level of corporate profits. These decelerations would be partly offset by a slight acceleration in indirect business taxes; the acceleration is more than accounted for by the proposed increase in the tobacco tax.

In the NIPA framework, Federal current expenditures would increase \$47.0 billion, to \$1,845.5 billion, in fiscal year 2001, after increasing \$68.5 billion (chart 3). The deceleration is attributable to a downturn in subsidies less current surplus of government enterprises and to slowdowns in nondefense consumption expenditures and in national defense consumption expenditures. Subsidies less current surplus of government enterprises would decrease \$10.3 billion after increasing \$2.4 billion; the turnaround is mainly due to a downturn in agriculture subsidies (table 9). Nondefense consumption expenditures would increase \$1.6 billion after increasing \$12.3 billion, and national defense consumption expenditures would increase \$1.4 billion after increasing \$11.1 billion. In contrast, transfer payments would increase \$48.3 billion after increasing \$30.5 billion; the acceleration is attributable to accelerations in social security and medicare.

Quarterly pattern.—Seasonally adjusted quarterly estimates of NIPA current receipts and current

Table 8.—Sources of Change in Federal Government Receipts, NIPA Framework

[Billions of dollars]

| | Change f | rom precedi year | ng fiscal |
|--|--------------|---------------------|-------------|
| | 1999 | 2000 | 2001 |
| Total receipts Due to tax bases Due to proposed legislation | 119.8 | 111.4 | 63.5 |
| | 119.8 | 110.9 | 54.1 |
| | 0 | .5 | 9.4 |
| Personal tax and nontax receipts | 73.8 | 53.9 | 20.8 |
| | 73.8 | 54.2 | 25.9 |
| | 0 | 4 | –5.2 |
| Corporate profits tax accruals Due to tax bases Due to proposed legislation | 2.8 | 11.7 | 1.5 |
| | 2.8 | 11.6 | -7.4 |
| | 0 | .1 | 8.9 |
| Indirect business tax and nontax accruals Due to tax bases Due to proposed legislation | 2.9 | 8.1 | 8.8 |
| | 2.9 | 7.3 | 3.2 |
| | 0 | .8 | 5.6 |
| Contributions for social insurance | 40.3 | 37.8 | 32.4 |
| | 40.3 | 37.8 | 32.4 |
| | 0 | 0 | 0 |

Sources: The Budget of the United States Government, Fiscal Year 2001 and the Bureau Economic Analysis.

expenditures that are consistent with the budget estimates of receipts and outlays for the fiscal year

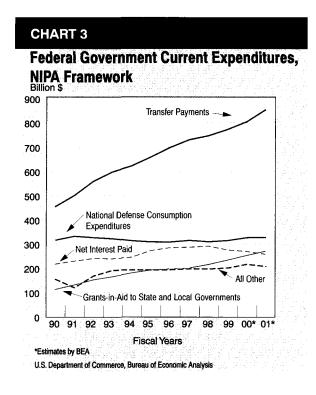


Table 9.—Sources of Change in Federal Government Current Expenditures, NIPA Framework

[Billions of dollars]

| | Change fro | m preceding | fiscal year |
|--|---|--|--|
| | 1999 | 2000 | 2001 |
| Total current expenditures | 35.9 | 68.5 | 47.0 |
| Consumption expenditures National defense Pay raise and locality pay ¹ Other Nondefense Pay raise and locality pay ¹ Other | 11.4 4.9 4.9 6.5 | 23.4 11.1 3.5 7.6 12.3 2.4 9.9 | 3.0 1.4 4.8 -3.4 1.6 2.8 -1.1 |
| Transfer payments Social security Medicare Supplemental security income Earned income and child care credits Veterans benefits Unemployment benefits Other | 14.1 10.8 -1.9 2.0 3.2 .8 1.0 -1.8 | 30.5 16.3 11.5 1.1 .1 .9 .4 | 48.3 18.7 19.4 1.3 .1 1.1 2.8 4.9 |
| Grants-in-aid to State and local governments | 17.5 6.8 2.7 2.5 3.1 3 2.8 | 18.4 8.1 3.6 3.5 1.9 .9 | 17.5 8.7 .1 3.6 2.2 1.0 1.8 |
| Net interest paid | -14.9 | -6.3 | -11.4 |
| Subsidies less current surplus of government enterprises | 7.7 10.8 –1.5 –.3 | 2.4 2.1 .6 .3 | -10.3 -8.1 .9 2 |
| enterprises: Postal Service surplus | 1.5 | .5 | 2.1 |
| Other surplus of government enterprises | 2 | .1 | .9 |

^{1.} Consists of pay raises and locality pay beginning in January 2000. Source: Bureau of Economic Analysis.

are shown in table 10. The NIPA estimates of current receipts reflect the quarterly pattern that results from the enacted and proposed legislation, from the administration's projected quarterly pattern of wages and profits, and from the use of a methodology to derive quarterly estimates of declarations and settlements (estimated income tax payments and final settlements) less refunds.¹¹ The NIPA estimates of current expenditures reflect the quarterly pattern that results from the enacted and proposed legislation that would adjust pay for Federal Government employees and provide costof-living increases in social security. The quarterly estimates do not control to the fiscal year estimates, but instead are estimated changes based on the published level of the fourth quarter of 1999. Because of the limited information available to estimate the quarterly patterns, they should be viewed as rough approximations; over the course of the year, BEA will provide more reliable estimates in NIPA table 3.2.

In the NIPA framework, the current surplus increases in the first three quarters of 2000, decreases in the fourth quarter of 2000 and the first quarter of 2001, and then increases through the third quarter of 2001. The increase in the first quarter of 2000 is due to an increase in current receipts, particularly in contributions for social insurance, and a decrease in current expenditures, primarily because of a decrease in subsidies less current surplus of government enterprises. The decrease in the current surplus in the fourth quarter of 2000 is mainly due to an increase in transfer payments, mostly because of an increase in transfer payments to the rest of the world. The increase in the current surplus in the second quarter of 2001 results from increases in personal taxes and contributions; current expenditures increase only slightly.

Table 10 follows.

^{11.} The methodology, which was adopted during the 1998 annual revision of the NIPA's, separates estimated income tax payments and final settlements into estimated taxes, final settlements, back taxes, fiduciary taxes (taxes paid by estates and trusts on income earned), and refunds. For final settlements, back taxes, and refunds—which are primarily based on tax liabilities for previous years—the full amount of the annual changes are recorded in the first quarter (in January) of the year, and the monthly and quarterly estimates are held at that level throughout the rest of the year. See Eugene P. Seskin, "Annual Revision of the National Income and Product Accounts," Survey 78 (August 1998):29–31.

Table 10.—Federal Government Current Receipts and Expenditures, NIPA Framework

[Billions of dollars; calendar year and quarters at seasonally adjusted annual rates]

| | : | Fiscal | year estin | netes 1 | Calend | ar year | | | | | · | Quarter | | | | | |
|--|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | | , | | Pub- | Esti- | | Publi | shed | | | | | Estimated | | | |
| Line | | 1999 | 2000 | 2001 | lished | mated | <u> </u> | | 92 | | | 20 | 00 | | | 2001 | |
| | | 1000 | 2000 | 2001 | 1999 ² | 2000 | | 100 | III | IV | i | | l III | lv | | 11 | |
| 1 | Current Receipts | 1,841.6 | 1,953.1 | 2,016.6 | 1,870.7 | 1,967.4 | 1,826.5 | 1,853.1 | 1,883.1 | 1,919.9 | 1,929.2 | 1,954.8 | 1,982.8 | 2,002.8 | 2,008.0 | 2,024.8 | 2,041.8 |
| 2 | Personal tax and nontax receipts ³ | 887.8 | 941.7 | 962.4 | 900.0 | 939.6 | 877.9 | 892.1 | 908.0 | 922.1 | 920.2 | 934.5 | 947.0 | 956.6 | 948.7 | 957.5 | 967.1 |
| 3 | Withheld income taxes | 705.1 | 752.3 | 787.4 | 712.7 | 750.0 | 689.1 | 704.5 | 721.3 | 735.9 | 736.0 | 745.1 | 754.8 | 764.1 | 772.1 | 781.8 | 791.6 |
| 5 | Declarations and final settlements less refunds Proposed legislation | 173.4 | 179.6 4 | 164.5 -5.8 | 178.5 | 179.7 4 | 180.3 | 178.9 | 177.6 | 177.0 | 174.4 4 | 179.6 4 | 182.2 4 | 182.4 | 166.1 -5.8 | 165.0 5.8 | 164.5 -5.8 |
| 6 7 | Other | 173.4 9.3 | 179.9 9.8 | 170.3 10.5 | 178.5 8.9 | 180.0 9.9 | 180.3 8.5 | 178.9 8.8 | 177.6 9.0 | 177.0 9.3 | 174.7 9.8 | 179.9 9.9 | 182.6 9.9 | 182.8 10.0 | 172.0 10.4 | 170.8 10.7 | 170.4 10.9 |
| 8 | Corporate profit tax accruals | 210.9 | 222.7 | 224.2 | 222.0 | 235.7 | 212.6 | 218.1 | 222.4 | 234.9 | 232.1 | 234.4 | 237.8 | 238.3 | 236.8 | 235.6 | 235.2 |
| 9 10 | Federal Reserve BanksProposed legislation | 26.0 | 28.0 0 | 29.5 3.9 | 24.1 | 27.1 1.0 | 23.5 | 23.7 | 24.6 | 24.6 | 25.9 0 | 26.9 0 | 27.8 0 | 27.9 3.9 | 28.0 3.9 | 27.6 3.9 | 27.3 3.9 |
| 11 | Other | 26.0 | 28.0 | 25.6 | 24.1 | 26.2 | 23.5 | 23.7 | 24.6 | 24.6 | 25.9 | 26.9 | 27.8 | 24.1 | 24.1 | 23.8 | 23.4 |
| 12 13 | Other corporate profit tax accruals | 185.0 | 194.7 .1 | 194.7 5.2 | 197.9 | 208.5 1.4 | 189.1 | 194.4 | 197.9 | 210.3 | 206.2 | 207.5 .1 | 210.0 | 210.3 5.2 | 208.8 5.2 | 207.9 5.2 | 207.9 |
| 14 | Other | 185.0 | 194.6 | 189.5 | 197.9 | 207.2 | 189.1 | 194.4 | 197.9 | 210.3 | 206.1 | 207.4 | 209.9 | 205.2 | 203.6 | | 202.7 |
| 15 | Indirect business tax and nontax accruals | 99.4 | 107.5 | 116.4 | 101.5 | 110.4 | 99.5 | 100.0 | 101.5 | 105.0 | 106.9 | 108.0 | 112.0 | 114.5 | 115.5 | 118.0 | 119.1 |
| 16 17 | Proposed legislation Other | 99.4 | .8 106.7 | 6.4 110.0 | 101.5 | 2.2 108.2 | 99.5 | 100.0 | 101.5 | 105.0 | 106.9 | 108.0 | 3.2 108.8 | 5.5 109.0 | 5.5 110.0 | 7.3 110.7 | 7.5 111.6 |
| 18 | Contributions for social insurance | 643.4 | 681.2 | 713.6 | 647.2 | 681.9 | 636.5 | 642.9 | 651.2 | 658.0 | 670.0 | 677.9 | 686.1 | 693.4 | 707.0 | 713.8 | 720.5 |
| 19 | Old age, survivors, disability, and hospital insurance | 587.9 | 623.6 | 652.5 | 589.1 | 621.3 | 578.8 | 584.9 | 593.0 | 599.5 | 610.8 | 617.7 | 624.9 | 631.6 | 643.0 | 649.5 | 655.8 |
| 20 | Tax on wages and salaries (FICA, gross) | 555.4 | 589.0 0 | 616.1 0 | 557.3 | 587.5 0 | 547.7 | 553.4 | 561.0 | | 577.8 0 | 584.2 0 | 591.0 0 | 597.1 0 | 607.9 | 614.0 | 620.1 0 |
| 22 | Proposed legislation | | .9 | 4.8 | | 3.8 | | | | | 3.8 | l 3.8 | 3.8 | 3.8 | 7.8 | 7.8 | 7.8 |
| 23 24 | January 2000 January 2001 | | .9 | 3.8 1.0 | | 3.8 | | | | | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 4.0 | 3.8 4.0 | 3.8 4.0 |
| 25 | Other | 555.4 | 588.1 | 611.4 | 557.3 | 583.8 | 547.7 | 553.4 | 561.0 | 567.2 | 574.0 | 580.5 | 587.2 | 593.4 | 600.1 | 606.2 | 612.3 |
| 27 | FICA RefundsVoluntary hospital insurance | -1.5 1.4 | -1.8 1.4 | -1.9 1.4 | -2.5 1.4 | -2.8 1.3 | -2.5 1.4 | -2.5 1.4 | -2.5 1.4 | -2.5 1.4 | -2.8 1.3 | 2.8 1.3 | -2.8 1.3 | -2.8 1.3 | 2.9 1.4 | -2.9 1.4 | -2.9 1.4 |
| 21 22 23 24 25 26 27 28 29 30 31 | Tax on self-employment earnings (SECA) Base increases | 32.7 | 35.0 .6 | 36.8 9. | 32.9 | 35.2 .6 | 32.3 | 32.7 | 33.1 | 33.4 | 34.5 .6 | 35.0 .6 | 35.4 .6 | 35.9 .6 | 36.6 .9 | 36.9 .9 | 37.2 .9 |
| 30 | Other | 32.7 20.1 | 34.4 20.2 | 35.9 21.6 | 32.9 20.2 | 34.6 20.6 | 32.3 20.0 | 32.7 20.1 | 33.1 20.2 | 33.4 20.4 | 33.9 20.5 | 34.4 20.6 | 34.9 20.7 | 35.3 20.7 | 35.7 22.5 | 36.0 22.5 | 36.3 22.5 |
| 32 | Supplementary medical insurance Unemployment insurance | 26.8 | 28.3 | 30.4 | 28.7 | 30.5 | 28.3 | 28.5 | 28.8 | 29.0 | 29.5 | 30.2 | 30.8 | 31.3 | 31.8 | 32.2 | 32.6 |
| 33 | Other | 8.7 | 9.1 | 9.1 | 9.2 | 9.6 | 9.3 | 9.3 | 9.1 | 9.1 | 9.2 | 9.5 | 9.7 | 9.9 | 9.8 | 9.7 | 9.6 |
| 34 | Current Expenditures | 1,729.9 | 1,798.4 | 1,845.5 | 1,755.8 | 1,815.2 | 1,728.9 | 1,735.0 | 1,749.3 | 1,809.9 | 1,804.7 | 1,807.5 | 1,811.5 | 1,837.1 | 1,857.2 | | 1,869.2 |
| 35 36 | Consumption expenditures 3 | 463.8 304.7 | 487.2 315.8 | 490.3 317.2 | 474.8 310.8 | 486.1 313.0 | 467.0 304.6 | 465.2 300.8 | 475.0 312.1 | 492.0 325.6 | 486.1 314.1 | 488.6 315.3 | 483.7 309.8 | 485.9 312.9 | 497.3 321.7 | 493.6 318.9 | 492.2 317.3 |
| 37 38 | Pay raises and locality pay | | 3.5 3.5 | 8.3 5.2 | | 4.8 4.8 | | | | | 4.4 4.4 | 4.4 4.4 | 5.2 5.2 | 5.2 5.2 | 9.3 5.2 | 9.3 5.2 | 9.3 5.2 |
| 36 37 38 39 40 41 | January 2001 | | | 3.1 | | | | | | | | | | | 4.1 | 4.1 | 4.1 |
| 41 | Other | 304.7 159.1 | 312.3 171.4 | 308.9 173.1 | 310.8 164.0 | 308.2 173.1 | 304.6 162.4 | 300.8 164.4 | 312.1 162.9 | 325.6 166.3 | 309.7 172.0 | 310.9 173.3 | 304.6 173.9 | 307.7 173.1 | 312.4 175.6 | 174.7 | 174.9 |
| 42 43 44 | Pay raises and locality pay | | 2.4 2.4 | 5.2 3.2 | | 3.2 3.2 | | | | | 3.2 3.2 | 3.2 3.2 | 3.2 3.2 | 3.2 3.2 | 5.8 3.2 | 5.8 3.2 | |
| 44 45 | January 2001 | 159.1 | 169.0 | 2.0 167.9 | 164.0 | 169.9 | 162.4 | 164.4 | 162.9 | 166.3 | 168.8 | 170.1 | 170.7 | 169.9 | 2.6 169.8 | 2.6 | 2.6 |
| 46 | Other | 741.2 | 771.7 | 819.9 | 754.4 | 793.9 | 743.4 | 749.7 | ł | | | | | | 827.9 | ŀ | 843.9 |
| 47 | Transfer payments (net) | 732.6 | 762.3 | 808.3 | 744.0 | 783.9 | 736.6 | 740.5 | 754.8 746.4 | 769.7 752.3 | 782.1 771.7 | 784.8 779.6 | 792.1 787.5 | 816.5 796.7 | 817.1 | | 836.2 |
| 48 49 | Social Security | 377.1 377.1 | 393.3 386.4 | 412.0 395.2 | 380.6 380.6 | 400.7 391.4 | 377.6 377.6 | 379.2 379.2 | 381.9 381.9 | 383.7 383.7 | 396.7 387.4 | 399.5 390.3 | 402.0 392.7 | 404.4 395.2 | 416.2 396.8 | 417.6 398.3 | 418.9 399.5 |
| 50 | Benefit increases | | 7.0 7.0 | 16.9 9.3 | | 9.3 9.3 | | | | | 9.3 9.3 | 9.3 9.3 | 392.7 9.3 | 9.3 9.3 | 19.4 9.3 | 19.4 | 19.4 |
| 52 | January 2000 January 2001 | | | 7.6 | | | | | | | | | 9.3 | | 10.1 | 10.1 | 10.1 |
| 50 51 52 53 54 55 56 | Medicare Unemployment benefits | 207.1 | 218.7 21.3 | 238.1 24.1 | 215.8 20.5 | 232.4 20.6 | 211.3 20.7 | 213.8 20.5 | 217.2 20.4 | 221.0 20.3 | 225.7 19.9 | 230.2 20.2 | 234.6 20.7 | 239.0 21.5 | 244.1 22.4 | 249.8 23.5 | 256.3 24.6 |
| 55 | Veterans benefits | 23.7 | 24.6 | 25.7 | 24.0 | 25.2 | 24.0 8.2 | 23.9 8.2 | 24.0 | 24.2 | 25.0 | 25.1 8.1 | 25.3 | 25.3 | 26.0 | 26.2 | 26.4 |
| 57 | Railroad retirement | 8.5 2.0 | 8.3 1.8 | 8.6 1.8 | 8.2 2.0 | 8.1 1.9 | 2.0 | 2.0 | 8.2 2.0 | 8.2 2.0 | 8.2 2.0 | 1.9 | 8.1 1.9 | 8.2 1.9 | 8.5 1.9 | 8.5 1.9 | 8.5 1.9 |
| 58 59 60 | Food stamps | 15.7 1.0 | 15.9 1.0 | 17.1 .9 | 15.6 1.0 | 16.3 .9 | 15.8 1.0 | 15.7 1.1 | 15.3 1.0 | 15.5 1.0 | 16.0 1.0 | 16.1 .9 | 16.2 .9 | 17.0 | 17.3 .9 | 17.5 .9 | 17.7 .9 |
| 60 | Supplemental security income | 28.1 | 29.3 26.2 | | 26.8 | 27.6 26.8 | 26.9 | 26.9 26.7 | 26.8 | 26.6 26.7 | 27.4 | 27.5 | 27.6 | 27.8 | 28.7 | 28.8 | 28.9 |
| 61 62 | Earned income and child care credits | 26.1 22.4 | 21.9 | 23.1 | 26.7 22.8 | 23.3 | 22.3 | 22.6 | 26.7 22.9 | 23.2 | 23.1 | 26.8 23.2 | 26.8 23.3 | 23.6 | 24.1 | 27.0 24.6 | 27.0 25.1 |
| 63 | To rest of the world (net) | 8.5 | 9.4 | | | | 6.8 | 9.2 | 8.5 | 17.4 | | 5.2 | 4.5 | 19.8 | 10.8 | | 7.7 |

Table 10.—Federal Government Current Receipts and Expenditures, NIPA Framework—Continued

[Billions of dollars; calendar year and quarters at seasonally adjusted annual rates]

| | | Fiscal | year esti | nates ^I | Calend | ar year | | | | | | Quarter | | | | | |
|------------|--|----------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-------------------|
| Lina | | | | | Pub- lished | Esti- mated | | Publi | shed | | | | ı | Estimated | | | |
| Line | | 1999 | 2000 | 2001 | isteu | mateu | | 199 | 9 ² | | | 20 | 000 | | | 2001 | |
| | | | | | 1999 ² | 2000 | ı | II | 111 | IV | ı | 11 | | IV | ı | - 11 | Ш |
| 64 | Grants-in-aid to State and local governments | 223.8 4.1 | 242.1 2.6 | 259.6 | 225.5 2.4 | 246.4 2.9 | 219.9 2.4 | 215.7 2.7 | 230.6 2.6 | 235.6 2.1 | 240.4 2.7 | 243.6 2.9 | 249.4 2.8 | 252.2 3.3 | 257.9 | 260.7 4.5 | 267.2 |
| 65 66 | National defense | 2.9 | 3.1 | 4.1 3.3 | 3.3 | 3.2 | 3.1 | 3.2 | 3.3 | 3.5 | 3.0 | 3.0 | 3.0 | 3.7 | 4.1 3.2 | 3.2 | 4.5 3.2 3.3 |
| 67 | Public order and safety | 1.4 | 2.3 | 3.3 | 1.6 | 2.6 | 1.5 | 1.6 | 1.5 | 1.8 | 2.3 | 2.3 | 2.3 | 3.3 | 3.2 | 3.2 | 3.3 |
| 68 69 | Economic affairs | 8.8 4.3 | 10.2 5.4 | 10.5 5.8 | 9.1 4.4 | 10.3 5.5 | 8.5 4.4 | 8.9 4.4 | 10.1 4.3 | 8.9 4.5 | 10.3 5.5 | 10.4 5.7 | 11.2 5.6 | 9.3 5.1 | 10.6 5.9 | 10.7 6.1 | 11.4 6.0 |
| 70 71 | Agriculture | .8 | 1.0 | .9 | 1.0 | 1.0 | .9 | 1.0 | 7.9 .9 | 1.0 | 1.1 | 1.0 | 1.0 | .7 | 1.0 | 1.0 | 1.0 |
| 71 | Energy | 1.1 | 1.1 | 1.2 | -11 | 1.1 | 1.2 | 1.0 | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 |
| 72 73 | Natural resources Transportation 4 | 1.7 | 1.9 | 1.7 0 | 1.8 | 1.9 0 | 1.3 | 1.5 0 | 2.7 0 | 1.7 0 | 1.8 0 | 1.6 | 2.6 0 | 1.5 | 1.6 | 1.5 0 | 2.3 0 |
| 74 75 | Space | .9 | ".8 [.] | .9 | .9 | .8 | .7 | 1.0 | 1.0 | .7 | .8 | . .9 | °.9 | .7 | .8 | .9 | .9 |
| 75 | Housing and community services | 10.6 | 11.6 | 12.0 | 10.6 | 11.7 | 10.2 | 10.6 | 10.7 | 10.9 | 11.7 | 12.0 | 11.5 | 11.6 | 12.1 | 12.3 | 12.1 |
| 76 77 | Health | 119.3 107.9 | 129.4 115.9 | 140.3 124.6 | 121.3 110.6 | 132.1 118.1 | 117.1 107.3 | 115.9 106.1 | 124.9 113.6 | 127.4 115.5 | 126.9 113.3 | 129.2 115.7 | 133.3 119.2 | 138.8 124.2 | 137.7 121.8 | 140.2 124.4 | 144.6 128.2 |
| 78 | Other | 11.5 | 13.4 | 15.7 | 10.7 | 14.0 | 9.7 | 9.8 | 11.3 | 11.9 | 13.6 | 13.5 | 14.1 | 14.6 | 15.9 | 15.8 | 16.5 |
| 79 | Recreation and culture | .3 | .3 | .3 | .2 | .3 | 1 | 2 | .3 | 3 | .3 | .3 | .3 | .3 | .3 | 3 | .3 |
| 80 81 | EducationIncome security | 19.4 56.9 | 22.9 59.7 | 23.1 62.8 | 19.2 56.5 | 23.0 60.5 | 19.9 57.0 | 17.4 55.2 | 19.2 58.0 | 20.2 55.6 | 24.0 59.2 | 23.5 60.0 | 23.9 61.0 | 20.4 61.6 | 24.1 62.6 | 23.7 62.7 | 24.0 63.8 |
| 82 | Welfare and social services | 48.6 | 52.1 | 55.7 | 49.8 | 53.0 | 49.5 | 47.8 | 50.4 | 51.5 | 51.5 | 52.6 | 53.2 | 54.6 | 55.5 | 55.8 | 56.5 |
| 83 | Other | 8.3 | 7.6 | 7.1 | 7.2 | 7.5 | 7.5 | 7.4 | 7.6 | 6.2 | 7.7 | 7.4 | 7.8 | 6.9 | 7.2 | 6.9 | 7.3 |
| 84 | Net interest paid | 264.8 | 258.5 | 247.1 | 262.8 | 253.9 | 266.0 | 264.8 | 259.9 | 260.7 | 258.3 | 255.2 | 252.1 | 249.8 | 246.8 | 243.7 | 240.6 |
| 85 | Subsidies less current surplus of government enterprises | 36.4 | 38.8 | 28.5 | 38.3 | 35.0 | 32.6 | 39.5 | 29.0 | 51.9 | 37.8 | 35.4 | 34.2 | 32.6 | 27.3 | 26.0 | 25.3 |
| 86 | Subsidies | 40.5 | 43.6 | 36.2 | 43.3 | 40.3 | 37.5 | 44.4 | 34.1 | 57.0 | 42.9 | 40.7 | 39.6 | 38.1 | 36.2 | 34.9 | 34.2 |
| 87 | Agriculture | 19.1 | 21.1 | 13.0 | 21.7 | 18.0 | 15.6 | 22.9 | 12.8 | 35.3 | 20.9 | 18.4 | 17.1 | 15.4 | 13.4 | 12.0 | 11.2 |
| 88 89 | Housing Other | 20.6 | 21.3 1.2 | 22.2 1.0 | 20.7 .9 | 21.2 1.2 | 21.0 | 20.7 .8 | 20.5 | 20.6 1.1 | 20.8 1.2 | 21.1 1.2 | 21.3 1.2 | 21.6 1.1 | 21.8 1.0 | 21.9 1.0 | 22.0 1.0 |
| 89 90 | Less: Current surplus of government enterprises | 4.2 | 4.8 | 7.7 | 5.0 | 5.3 | 4.8 | 4.9 | 5.1 | 5.2 | 5.1 | 5.2 | 5.4 | 5.5 | 8.9 | 8.9 | 8.9 |
| 91 | Postal Service | -1.6 | -1.1 | 1.0 | -1.2 3.6 | -1.3 | -1.2 | -1.2 | -1,2 3.6 | -1.1 | -1.2 | -1.3 3.9 | -1.3 | -1.3 | 1.8 | 1.7 | 1.6 |
| 92 93 | Federal Housing Administration Tennessee Valley Authority | 3.2 3.0 | 3.5 3.1 | 4.5 3.2 | 2.9 | 4.0 2.9 | 3.4 2.8 | 3.5 2.8 | 2.9 | 3.7 2.9 | 3.8 2.9 | 2.9 | 4.1 2.9 | 4.3 3.0 | 4.6 3.0 | 4.8 3.1 | 5.0 3.1 |
| 93 94 | Other | 4 | 7 | -1.0 | ž | -4 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | - .6 | 7 | - .8 |
| 95 | Less: Wage accruals less disbursements | 0 | 0 | 0 | 0 | 0 | O' | 0 | 0 | 0. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 96 | Current surplus or deficit (-) 5 | 111.7 | 154.7 | 171.1 | 114.9 | 152.2 | 97.6 | 118.1 | 133.8 | 110.0 | 124.5 | 147.3 | 171.3 | 165.7 | 150.7 | 166.2 | 172.6 |
| 07 | Addenda:. | 200 | 400.0 | 440 5 | 05.7 | 405.4 | 20.4 | | أميما | 407.0 | 400.0 | 404.5 | 407.7 | 400.0 | 400.0 | 440.0 | 445.4 |
| 97 98 | Gross investment ⁶ | 92.2 51.9 | 102.9 56.9 | 112.5 60.9 | 95.7 53.7 | 105.1 57.3 | 90.4 51.2 | 96.4 53.5 | 94.9 53.4 | 101.3 56.7 | 102.6 56.6 | 101.5 54.2 | 107.7 59.3 | 108.6 59.1 | 109.8 59.6 | 112.2 61.2 | 115.4 63.8 |
| 99 | Nondefense | 40.3 | 46.1 | 51.6 | 42.0 | 47.8 | 39.2 | 42.9 | 41.5 | 44.6 | 45.9 | 47.3 | 48.4 | 49.4 | 50.2 | 51.0 | 51.7 |
| 100 | Consumption expenditures and gross investment | 556.0 | 590.2 | 602.8 | 570.5 | 591.2 | 557.4 | 561.6 | 569.8 | 593.2 | 588.7 | 590.1 | 591.4 | 594.5 | 607.1 | 605.8 | 607.7 |
| 101 | National defense | 356.6 | 372.7 | 378.1 | 364.5 | 370.4 | 355.8 | 354.3 | 365.4 | 382.3 | 370.8 | 369.5 | 369.1 | 372.0 | 381.3 | 380.1 | 381.1 |
| 102 | Nondefense | 199.4 | 217.5 | 224.6 | 206.1 | 220.9 | 201.6 | 207.3 | 204.4 | 210.9 | 217.9 | 220.6 | 222.4 | 222.5 | 225.8 | 225.7 | 226.6 |
| 103 | Capital transfers received (net) | -3.6 | -4.7 | -5.1 | -5.0 | -5.7 | -2.7 | -4.8 | -9.7 | -2.9 | -4.2 | -5.3 | -6.3 | 7.0 | -6.3 | -5.8 | -5.9 |
| 104 105 | Capital transfers received | 27.7 27.7 | 30.3 30.3 | 32.2 32.2 | 28.7 28.7 | 29.9 29.9 | 27.1 27.1 | 29.7 29.7 | 26.2 26.2 | 31.8 31.8 | 30.5 30.5 | 29.7 29.7 | 29.4 | 29.9 29.9 | 30.7 30.7 | 31.5 31.5 | 32.2 32.2 |
| 105 | Estate and gift taxes | 31.3 | 35.0 | 37.3 | 33.8 | 35.6 | 29.9 | 34.5 | 36.0 | 34.7 | 34.7 | 29.7 35.0 | 29.4 35.7 | 36.9 | 30.7 37.0 | 37.3 | 32.2 38.1 |
| 107 | Grants-in-aid to State and local | | | | · | | 1 | | | | | | | | | | |
| 108 | governments Transportation | 31.3 28.6 | 35.0 32.0 | 37.3 34.0 | 33.8 30.7 | 35.6 32.5 | 29.9 26.9 | 34.5 31.0 | 36.0 33.2 | 34.7 31.8 | 34.7 31.8 | 35.0 32.0 | 35.7 32.4 | 36.9 33.7 | 37.0 33.7 | 37.3 34.0 | 38.1 34.5 |
| 109 | Highway | 23.0 | 25.8 | 27.7 | 23.3 | 26.2 | 20.7 | 23.4 | 24.9 | 24.1 | 26.0 | 26.2 | 26.8 | 25.9 | 27.9 | 28.2 | 28.8 |
| 110 | Other transportation | 5.6 | 6.2 | 6.3 | 7.4 | 6.3 | 6.2 | 7.6 | 8.2 | 7.7 | 5.8 | 5.8 | 5.7 | 7.8 | 5.8 | 5.8 | 5.7 |
| 111 | Housing and community services | 2.7 | 3.0 | 3.4 | 2.8 | 3.1 | 2.6 | 3.0 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 3.2 | 3.3 | 3.3 | 3.6 |

Fiscal year estimates are the sum of quarterly values not seasonally adjusted and are consistent with the budget proposals.
 Published estimates, both calendar year and quarters, appear in NIPA tables 3.2 and 3.7B elsewhere in this issue. BEA's estimate of corporate profits tax accruals for the fourth quarter of 1999 will not be available until the release of the final estimate of gross domestic product on March 30, 2000. The value shown is derived from the

The Budget of the United States Government, Analytical Perspectives, Fiscal Year 2001, "National Income and Product Accounts," page 383 contains incorrect fiscal year estimates of personal tax and nontax receipts and consumption expenditures; these estimates carried through to the budget estimates for current receipts, expenditures, and the surplus. These changes were made because of additional data received after the budget was released

and because of corrections.

4. Most transportation grants-in-aid to State and local governments are classified as capital transfers paid (see addenda); however, water and railroad transportation grants are still classified as current-account transactions.

5. See footnote 1 in table 7.

6. Gross investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in Federal Government consumption expenditures.

Sources: The Budget of the United States Government, Fiscal year 2001 and the Bureau of Economic Analysis. FICA Federal insurance contributions act

Accounting for Renewable and Environmental Resources

LAST SUMMER, a blue ribbon panel of the National Academy of Sciences' National Research Council completed a congressionally mandated review of the work that the Bureau of Economic Analysis (BEA) had published on integrated economic and environmental accounts. The panel's final report commended BEA for its initial work in producing a set of sound and objective prototype accounts. The November 1999 issue of the SURVEY OF CURRENT BUSINESS contained an article by William D. Nordhaus, the Chair of the Panel, that presented an overview of the major issues and findings and a reprint of chapter 5, "Overall Appraisal of Environmental Accounting in the United States." Chapter 3, "Accounting for Subsoil Mineral Resources" was reprinted in the February 2000 issue; chapter 4, "Accounting for Renewable and Environmental Resources" is reprinted below.

This article is reprinted with permission from Nature's Numbers: Expanding the National Economic Accounts to Include the Environment. Copyright of the National Academy Press, Washington DC. This is a report of the National Research Council, prepared by the Panel on Integrated Environmental and Economic Accounting and edited by William D. Nordhaus and Edward C. Kokkenlenberg.

THE PREVIOUS chapter reviewed issues involved in extending the national accounts to include subsoil assets. This chapter focuses on two other aspects of environmental accounting: renewable and environmental resources. BEA has proposed covering these two categories of resources in future work on integrated accounting. As discussed in Chapter 1, Phase II of that work would focus on different classes of land (e.g., agriculture, forest, and recreation land), on timber, on fisheries, and on agricultural assets such as grain stocks and livestock. Phase III would address environmental resources, including, for example, air, uncultivated biological resources, and water.

The general principles set forth in Chapter 2 indicate that increasingly severe obstacles are likely to arise as the national accounts move further from the boundaries of the market economy. The discussion in this chapter confirms the premise that BEA's Phase III raises the most difficult conceptual, methodological, and data problems. This finding presents a dilemma that must be faced in expanding the accounts: Should follow-on efforts focus on those resources that can be most easily included given existing data and methods, or should BEA focus on including those resources that would have the largest impact on our understand-

ing of the interaction between the U.S. economy and the environment? The panel's investigation, while based on data that are highly imprecise and in some cases speculative, suggests that the development of the accounts proposed for Phase III would be likely to encompass the most significant economy-environment interactions. This observation is tempered by the realization that to date nothing approaching adequate comprehensive environmental accounting for a country of the complexity of the United States has yet been undertaken. For BEA or the federal government to prepare a full set of environmental accounts would require a substantial commitment.

This chapter provides a review of the issues involved in accounting for renewable and environmental resources. It is not intended to be a comprehensive review of work in this area. Rather, it delineates the issues that are involved in environmental accounting and presents two important specific examples that illustrate these issues. The first section reviews BEA's efforts in environmental accounting to date. Next, we analyze how stocks and flows of residuals from human activities relate to natural sources of residuals, natural resource assets, stocks, flows, and economic activity. The third section examines issues involved in accounting for renewable and environmental resources. The chapter then turns to general issues associated with the physical data requirements of environmental accounting and with valuation. We next investigate in greater detail the cases of forests and air quality to illustrate how augmented accounting might actually be done. The chapter ends with the panel's conclusions and recommendations in the area of accounting for renewable and environmental resources. Appendix B identifies potentially useful sources of data for developing supplemental accounts identified by the panel in the course of its investigation.

BEA EFFORTS TO DATE IN ACCOUNTING FOR RENEWABLE AND ENVIRONMENTAL RESOURCES

This section reviews BEA's initial design for its supplemental accounts for natural-resource and environmental assets. A more complete evaluation of BEA's efforts on forests is included later in the chapter. As discussed in Chapter 2, a critical issue involved in the development of augmented accounts is setting the boundary. How far from the boundary of the marketplace should the purview

of the environmental accounts extend? Table 4-1 shows BEA's tentative decisions on how it proposed to structure its supplemental accounts (BEA's Integrated Environmental and Economic Satellite Accounts [IEESA] from Bureau of Economic Analysis, 1994a: Table 1). Phase II of BEA's development

TABLE 4-1 IEESA Asset Account, 1987

[Billions of dollars]

This table can serve as an inventory of the estimates available for the IEESA's. In decreasing order of quality, the estimates that have been filled in are as follows: For made assets, estimates of reproducible tangible stock and inventories, from BEA's national income and product accounts or based on them, and pollution abatement stock, from BEA estimates (rows 1–21); for subsoil assets, the highs and lows of the range based on alternative valuation methods, from the companion article (rows 36–41); and best available, or rough-order-of-magnitude, estimates for some developed natural assets (selected rows 23–35 and 42–47) and some environmental assets (selected rows 48–55) prepared by BEA. The "n.a."—not available—entries represent a research agenda.

| | | _ | | | | | |
|--|----------|---|-----------------------|---|----------------------|-------------------------------------|----------------------------|
| | | Opening Stocks | Total, Net (3+4+5) | Depreciaton, Depletion, Degradation | Capital Formation | Revaluation and Other Changes | Closing Stocks (1+2) |
| | Row | (1) | (2) | (3) | (4) | (5) | (6) |
| PRODUCED ASSETS | | | | | | | |
| Made assets | 1 | 11,565.9 | 667.4 | -607.9 | 905.8 | 369.4 | 12,233 |
| Fixed assets | 2 | 10,535.2 | 608.2 | -607.9 | 875.8 | 340.2 | 11,143 |
| Residential structures | | 4,001.6 | 318.1 | -109.8 | 230.5 | 197.4 | 4,319 |
| Fixed nonresidential structures and equipment | 4 | 6,533.6 503.7 | 290.1 23.1 | -498.1 -19.2 | 645.3 30.3 | 142.9 12.0 | 6,823 526 |
| Natural resource related | 6 | 241.3 | 8.4 | -19.2 -7.0 | 10.6 | 4.7 | 249 |
| Conservation and development | | 152.7 | 3.6 | -4.4 | 5.3 | 2.7 | 156 |
| Water supply facilities | 8 | 88.5 | 4.8 | -2.5 | 5.3 | 2.0 | 90 |
| Pollution abatement | | 262.4 | 14.7 | -12.2 | 19.7 | 7.3 | 27 |
| Sanitary services | | 172.9 45.3 | 12.8 .6 | -5.6 -4.1 | 13.7 3.5 | 4.8 1.3 | 18 4 |
| Water pollution abatement and control | 12 | | 1.3 | | 3.5 2.6 | 1.3 | 4 |
| Other | 13 | 6.029.9 | 267.0 | -478.9 | 615.0 | 130.9 | 6,29 |
| Inventories | 14 | 1,030.7 | | | 30.1 | 29.2 | 1,09 |
| Government | | 184.9 | | *************************************** | 2.9 | 3.8 | 19 |
| Nonfarm | | 797.3 | 62.4 | ••••• | 32.7 | 29.7 | 85 |
| Farm (harvested crops, and livestock other than cattle and calves) | | 48.5 10.2 | -9.9 | | -5.5 -1.1 | -4.4 1.4 | 3 |
| Soybeans | | 5.0 | | | -1.0 -1.0 | .9 | |
| All wheat | | 2.6 | | | 2 | .2 | |
| Other | | 30.7 | | *************************************** | -3.2 | -6.9 | 2 |
| eveloped natural assets | 22 | n.a. | n.a. | n.a. | n.a. | n.a. | r |
| Cultivated biological resources | | n.a. | n.a. | n.a. | n.a. | n.a. | |
| Cultivated fixed natural growth assets | | n.a. | n.a. | n.a. | n.a. | n.a. | , |
| Livestock for breeding, dairy, draught, etc | 25 | n.a. | n.a. | n.a. | n.a. | n.a. | i |
| Cattle | 26 | 12.9 | 2.0 | n.a. | 3 | 2.3 | 1 |
| Fish stock | | n.a. | n.a. | n.a. | n.a. | n.a. | 1 |
| Vineyards, orchards | | 2.0 288.8 | .2 47.0 | n.a. –6.9 | 0.0 9.0 | .2 44.9 | 00 |
| Work-in-progress on natural growth products | | 200.0 n.a. | | -0.9 | 9.0 n.a. | 44.9 n.a. | 33 |
| Livestock raised for slaughter | | n.a. | | | n.a. | n.a. | |
| Cattle | 32 | 24.1 | 7.5 | | 0.0 | 7.5 | 3 |
| Fish stock | | n.a. | | | n.a <u>.</u> | n.a. | ı |
| Calves | 34 | 5.0 1.8 | .9 .3 | •••••• | 5 | 1.4 | |
| Crops and other produced plants, not yet harvested | 35 36 | 270.0 - 1,066.9 | 57.8 - 116.6 | -16.7 - 61.6 | .1 16.6 - 64.6 | 58.0 - – 119.6 | 299.4 - 95 |
| Oil (including natural gas liquids) | 37 | 58.2 - 325.9 | -22.5 - 84.7 | -5.130.6 | 5.8 - 34.2 | -23.188.3 | 35.7 - 24 |
| Gas (including natural gas liquids) | 38 | 42.7 - 259.3 | 6.6 - 57.2 | -5.620.3 | 4.1 - 14.9 | 8.1 51.8 | 49.4 - 20 |
| Coal | | 140.7 - 207.7 | 2.2 - 3.4 | -5.47.6 | 4.4 - 6.3 | 3.22.1 | 143.0 - 20 |
| Metals | | (*) - 215.3 | 67.2 29.5 | 22.2 | 2.2 - 9.2 | 65.2 - 22.5 | 38.5 - 24 |
| Other minerals | | 28.4 - 58.7 n.a. | 4.38 n.a. | 49 n.a. | .10 | 4.61 | 32.8 - 5 |
| Land underlying structures (private) | | 4.053.3 | 253.0 | n.a. | n.a. n.a. | n.a. n.a. | 4.30 |
| Agricultural land (excluding vineyards, orchards) | 44 | 441.3 | 42.4 | n.a. | -2.8 | 45.2 | 48 |
| Soil | 45 | n.a. | n.a. | 5 | n.a. | n.a. | 1 |
| Recreational land and water (public) | | n.a. 285.8 | n.a. 28.8 | –.9 n.a. | .9 —.6 | n.a. 29.4 | 1 31 |
| ONPRODUCED/ENVIRONMENTAL ASSETS | | | | | | | |
| Uncultivated biological resources | | n.a. n.a. | n.a. n.a. | n.a. | n.a. | n.a. n.a. | r |
| Timber and other plants and cultivated forests | | n.a. n.a. | n.a. n.a. | n.a. n.a. | n.a. n.a. | n.a. n.a. | 1 |
| Other uncultivated biological resources | 51 | n.a. | n.a. | n.a. | n.a. | n.a. | 'n |
| Unproved subsoil assets | 52 | n.a. | n.a. | n.a. | n.a. | n.a. | 'n |
| Undeveloped land | 53 | n.a. | n.a. | -19.9 | 19.9 | n.a. | r |
| Water (economic effects of changes in stock) | 54 | *************************************** | n.a. | -38.7 | 38.7 | | |
| Air (economic effects of changes in stock) | 55 | *************************************** | n.a. | -27.1 | 27.1 | n.a. | |

NOTE: Leaders (...) indicate an entry is not applicable.

Source: Bureau of Economic Analysis (1994a) SURVEY OF CURRENT BUSINESS, April 1994. The table has been slightly simplified for this report.

n.a. = Not available
*The calculated value of the entry was negative.

of supplemental tables focused on assets listed in rows 22–35 and 42–47 of Table 4–1, while Phase III considers rows 48–55. Because BEA has not completed Phases II and III, actual decisions on what will be included have yet to be made. Each of the following sections of this chapter considers an element of how to draw the line. While an ideal set of accounts would contain "everything," this chapter examines practical issues that arise in constructing actual accounts based on available data and tools. As will be seen, the practical is likely to fall far short of the ideal.

Pollution Abatement and Control Expenditures

One particular entry in the environmental accounts—pollution abatement and control expenditures—has been the subject of detailed investigation by BEA for many years. These items are shown for 1987 in rows 5–12 of Table 4–1. The Bureau of the Census began collecting these data and BEA reporting them in 1972 (with some breaks in the series); these efforts were suspended in 1995 because of budget cuts. Reporting of these costs does not extend the accounts, but rather reorganizes the existing accounts to provide a better indication of the interaction between the environment and the economy.

The limitations of these data are well recognized and were discussed in Chapter 2. Many of the costs included in the data overstate the cost of pollution control, while other pollution-reducing costs are omitted because they involve changes in processes. There is also controversy about the extent to which stringent pollution control regulations may have a chilling effect on innovation and technological change. Finally, little thought has been given to the appropriate treatment of purchases of emission permits, which are likely to become a more important feature of environmental regulation in the future. Despite their limitations, however, data on pollution abatement are likely to be among the most precise of the data in the environmental accounts, and they have been extremely useful for understanding trends and levels in control costs and for examining how environmental programs have affected productivity. The panel finds that the data on pollution abatement expenditures are valuable and, as noted in the final section of this chapter, recommends that funds be provided to improve the design and recommence collecting these data.

Other Sectors of the Proposed Accounts

As reported by BEA, the quality of actual entries in published supplemental accounts for Phase II and III assets ranges from relatively good to conceptually defective. For Phase II assets, estimates within the category "developed land" are described as "of uneven quality" (p. 45). According to BEA, agricultural land values are "relatively good and are based on U.S. Department of Agriculture estimates of farm real estate values less BEA's estimates for the value of structures" (p. 45). BEA has not attempted to estimate the value of recreational land, but has entered federal maintenance and repair expenditures as an investment (see Table 4–1) and "assumed that these expenditures exactly offset the degradation/depletion of recreational land" (p. 45). BEA indicates that this assumption is made only for purposes of illustration and is "not to imply any judgment about the true value of degradation/depletion" (p. 45). A more detailed discussion of BEA estimates for timber and land in forests is presented later in this chapter.

For Phase III assets, BEA has entered "n.a." for most of the items, indicating that these estimates have not yet been developed. Entries for investment in and degradation of water, air, and undeveloped land are included, however. As in the case of developed recreational land, BEA has assumed that maintenance exactly offsets degradation, noting that this assumption provides entries that "are simply place markers" (p. 46). In the panel's view, the use of maintenance expenditures as degradation costs is highly misleading, and this procedure should not be followed in the future. Entering "n.a." would be more accurate. The panel notes, however, that these estimates do not necessarily reflect BEA's planned approaches, but were included by BEA to show the current state of data and research.

Regarding future plans, the United Nations System of Integrated Environmental and Economic Accounting (SEEA) "does not recommend that the stock of air—which is truly a global common—or water be valued; instead it recommends that valuation be limited to changes in these assets—their degradation and investments in their restoration" (p. 46). It should be emphasized that the entries for environmental assets in Table 4–1 are highly oversimplified. Some components of air quality, such as greenhouse gases and stratospheric ozone, are truly global assets and services; others, such as reductions in urban smog, are local and regional

^{1.} All quotations in this section are from the Bureau of Economic Analysis (1994a).

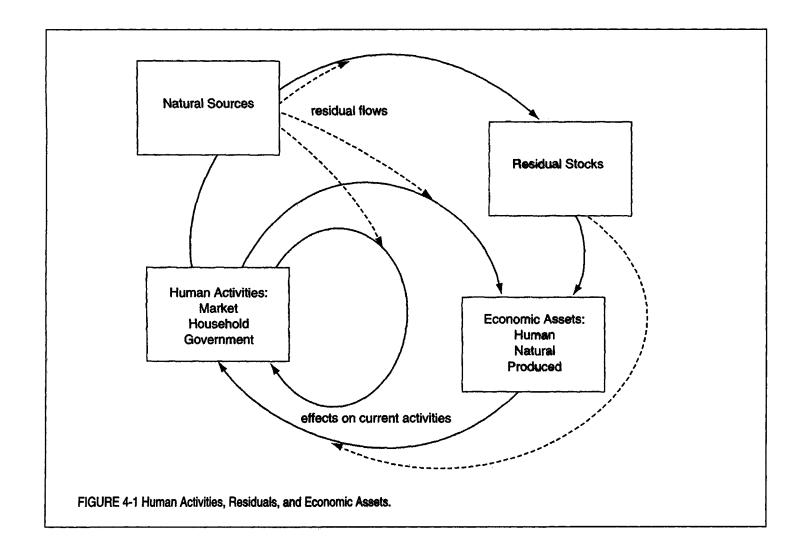
public goods. Additional dimensions that need to be incorporated are relations to external events, spatial resolution, and nonlinearities in damages. The discussion of air quality later in this chapter illustrates its multiple dimensions. Similarly, water quality and quantity, undeveloped land, and uncultivated biological resources are composites of many different assets and quality characteristics that provide multiple goods and services.

BEA's efforts have focused on the asset accounts. A preliminary table for a production account without entries is included in BEA's report on its development of the IEESA (Bureau of Economic Analysis, 1994a, 1994b). Production of market goods and services from these natural assets—e.g., timber, agricultural crops, fish—is already in the core production accounts. Greater attention is needed to identifying, measuring, and valuing the specific types of nonmarket goods and services produced by these assets.

POLLUTANT EMISSIONS AND THEIR RELATION TO STOCKS, FLOWS, AND ECONOMIC ACTIVITY

Before constructing environmental accounts, it is necessary to determine the interactions between natural resources and the environment and economic activity. It is essential to understand the key physical flows and stocks and how they affect humans and economic activities and values. A complete accounting requires detailed knowledge of the physical properties of resources and pollutants as described in fate, transport, and impact or damage models, as well as the service flows to market and nonmarket sectors.

Figure 4-1 illustrates key relationships among emissions, stocks of pollutants, natural-resource assets, and economic activities in different sectors. As the figure shows, economic activities produce a variety of uninternalized emissions and resid-



uals that find their way into the environment. Many of the pollutants of concern are residuals that also have natural sources—sulfur, carbon dioxide, carbon monoxide, nitrogen compounds—and are emitted during volcanic eruptions, produced by forests and wetlands, or released from wildfires. Other residuals of concern—such as chlorofluorocarbons (CFCs) and many pesticides used in agriculture—are anthropogenic and have no natural sources. In terms of effects on human activities, the sources of the residuals are not important. What may be important is that human activities have increased the levels occurring in the environment, concentrated them to a degree that makes them dangerous, or relocated them to areas where people or economic activities are exposed to them at high levels.

Whether from natural sources or human activities, environmental variables can affect economic well-being in three general ways, as illustrated in Figure 4–1: (1) direct effects on consumption or income of households, industry, and government; (2) accumulation in the environment of stocks of residuals that then affect economic activities or economic assets; and (3) effects on the service flows of economic assets (capital stock, natural resources, or human resources), such as recreation, clean air to breathe, and navigable river channels free of sedimentary deposits.

Direct Effects

Environmental variables affect human and natural systems directly. Urban smog, whose concentrations change daily or even hourly, is an obvious example. Sulfate and nitrate aerosols, pollutants contributing to acid precipitation, remain in the atmosphere for a matter of days. These pollutants have short-term health effects, reduce visibility, interfere with recreational activities, affect crop growth, and present their own set of problems for accounting. In many cases, the substances emitted are precursor emissions; that is, they react chemically in the atmosphere with other substances to form the substance that is ultimately damaging to humans or ecosystems. There are also complex nonlinearities because the formation of the damaging substance depends on the level of precursor emissions, weather conditions, and the presence of other substances with which the precursor emissions react. All of these processes vary on an hourly, daily, and seasonal basis. Emissions, concentrations, and impacts of damaging substances also vary spatially, and there may be important threshold effects as well. Above all, there is the "weed syndrome"—the fact that the same substance may be beneficial or harmful depending on where it is, how much of it there is, the time and duration of exposure, and what organism is absorbing it. Virtually every substance on earth, from water to plutonium, can be an economic good or an economic weed depending on the circumstances.

One of the most important difficulties is that the physical measurements used are often inaccurate indicators of actual human exposures. Average emissions of the precursor pollutant, average concentrations over the year, or concentration data for limited sites are generally not representative of concentrations to which the population is exposed and may be a misleading basis for developing damage estimates. For example, tropospheric ozone forms mainly in warm weather. Thus total annual hydrocarbon emissions, the precursor to tropospheric ozone, are a poor indicator of potential levels of tropospheric ozone. Tropospheric ozone levels also vary significantly over the distance of a few city blocks. One of the major challenges both for better environmental policy and for the construction of environmental accounts is to obtain better measures of direct human exposure to the important harmful substances among a representative sample of people.

Accumulation of Stocks

Many environmental problems result from the accumulation of residuals. These substances include most radiatively active trace gases, which remain in the atmosphere for decades or centuries, and many radioactive materials, which have half-lives of decades or centuries. Similarly, recovery from stratospheric ozone depletion is a process requiring years or decades. and agricultural chemicals often migrate very slowly through soils, contaminating drinking water only after several years or decades.

Environmental accounting therefore needs to develop and include appropriate methods to account for those persistent pollutants, such as heavy metals that accumulate in the environment and last for many years. Each year's emissions or production of residuals adds to the stock in the environment, and it is necessary to understand the processes by which these stocks decay or dissipate. In some cases (as with radioactive substances), those processes are easily understood, while in other cases (such as subsoil toxins or the carbon cycle), understanding the processes poses enormous scientific challenges. In the economic accounts, the stock-flow dynamics are similar to those of gross

investment and depreciation of capital. While there is a conceptual similarity, however, there is no readily observable market price for these stock changes. Hence, valuation of a change in stock requires estimating the value of the impact of additions over the lifetime of the stock, accounting for dissipation, and appropriately discounting future effects. It should also be recognized that, with a few exceptions, the stocks are extremely heterogeneous, so that measuring a simple "environmental capital stock" is likely to be extremely difficult.

Effects on Economic Assets

Both short-lived and long-lived residuals can affect economic activity over a number of years through their effects on other economic assets, in particular produced capital goods such as buildings and equipment. For example, acid precipitation can cause deterioration of buildings. Accumulated greenhouse gases can result in coastal flooding and higher storm surges, thereby adversely affecting the value of existing coastal structures. Pollutants such as lead can cause long-lasting health consequences, impacts on intellectual functions, and premature death.

ISSUES INVOLVED IN ACCOUNTING FOR RENEWABLE AND ENVIRONMENTAL RESOURCES

The previous section addressed the major ways in which natural resources and the environment interact with economic activity. Depending on the intended uses of the data, there are different approaches to structuring environmental and natural-resource accounts. The most complete accounting structure would treat all the relationships in Figure 4–1. However, constructing such a complete set of accounts is infeasible today, and governments must choose areas for investigation strategically in accordance with their national economic and environmental goals and interests. This section delineates some possible approaches to accounting for natural and environmental resources and activities.

Production and Income Accounts

A complete set of production accounts would identify all the cross-relationships among industry, household, government, and natural sources of emissions or residuals, as well as the nonmarketed current account input services provided by nature and the productive contribution of nature to

final demand. Current-year activities would include production of residuals, just as traditional economic accounts include production accounts. A complete set of accounts would incorporate flows of residuals from abroad, similar to imports of goods and services. It would also be necessary to calculate the "price"—negative or positive—indicating whether the effect was adverse or beneficial. The accounting for current-year activities would include final uses of residuals, identifying effects on final consumption, flows abroad, and contributions to capital stocks, just as traditional accounting frameworks identify final consumption of goods and services, exports, and gross capital accumulation.

Accounting for Capital Assets

It is important to measure the volumes and values of the nation's natural assets for many reasons. One purpose is simply to determine general trends. Another, illustrated in Table 4–1, is to determine the relative magnitudes of different assets. A further reason arises in the context of sustainable economic growth. As discussed in Chapter 2, one can calculate measures of sustainable income if one corrects conventional measures of national income by including the value of the change in the stocks of natural and other assets.

For all of these reasons, we would ideally like to have measures of the value and volume of the nation's natural assets; thus we must include measures not only of "made assets," such as houses and computers, but also renewable resources, such as timber or the fertility of land, and nonrenewable assets, such as oil and mineral resources. It is important to know whether the economy is generating an ever-growing stock of damaging environmental residuals that will pose a large economic burden on future generations. We want to know whether the economic value of investments in tangible, human, and technological capital is more than offsetting whatever depletion of natural assets is occurring.

There is a close connection between the production accounts and the asset accounts (see Chapter 2). As noted above, measures of comprehensive income or of sustainable income include not only current consumption flows, but also the value of the change in the stocks of assets. Hence augmented accounting requires careful and accurate measurement of both assets and consumption flows. Such measurement is currently undertaken within the boundary of the marketplace, but augmented accounting would require extending that

boundary for both assets and consumption in a consistent manner. The conceptual basis for asset valuation in environmental accounts parallels closely that in the conventional accounts. Depletion and degradation of natural resources is conceptually similar to depreciation of produced capital assets. Stocks of residuals can decay or dissipate, a process that is again conceptually similar to depreciation of produced assets. Natural growth of biological resources, recharge of groundwater resources, and accumulation of residuals are conceptually similar to gross capital formation or investment. Net accumulation of assets is equal to the value of the change in stocks. Many of the issues involved in constructing chain indexes of values and volumes translate directly into measurement of resource and environmental stocks.

However, some special conceptual difficulties arise in measuring stocks of natural assets. Natural-resource assets (like a physical plant or piece of equipment) are complex systems of component parts that have value because of the way they work together. Since produced capital assets are generally purchased or constructed as modules, they can be valued on the basis of their own market prices, rather than their synergistic contribution to output. To take an analogy, a baseball player's contribution to the team is a complex function not only of hitting, pitching, and fielding, but also of temperament, teamwork, and verbal abilities; from an accounting perspective, however, the economic contribution is simply wages and other compensation. For environmental assets, determining the value will become difficult when the effort extends beyond the market boundary. Consider a forest. How can the value of the stumpage in the forest be separated from the forest's contribution to erosion control, air quality, and biodiversity?

Even when markets produce evidence of the value of a bundle of assets—the composite value of soils, timber, nearness to water, and recreation—it may be difficult to separate out the values of the different components without applying complicated statistical procedures. Sometimes, the separation is misleading, as when the value of the components depends on their being together. An assembled bicycle is different from a pile of parts; similarly, forests, lakes, rivers, farmland, and coastal estuaries are valuable because of the way they are assembled.

One possible way of avoiding this difficulty is to redefine assets in terms of particular functions or characteristics, an approach similar to that taken in hedonic valuation, whereby goods are viewed as packages of characteristics. This approach would be similar to redefining an automobile as a combination of transportation mode, public-health menace, and status symbol. Under this approach, an asset is valued in terms of the sum of the values of its various characteristics. In this view, there is little point in trying to analyze the total value of holistic assets such as land or air or climate; rather, one undertakes the more modest task of looking at the different functions involved.² BEA's treatment of soil erosion is consistent with this approach; agricultural land is treated as the asset and the soil depth and organic-matter content as characteristics of the land. Other aspects of land quality—local climate or ambient level of pollution—can be considered in a similar manner. Identification of the economic effects of erosion on the value of land makes the resource link explicit.

Thus, a potentially useful alternative to consider how changes in air quality affect the value of agricultural land, forests, residential property, and human capital. Thus, fundamental nonhuman assets might include forests, lakes, rivers, estuaries, coastal regions, wetlands, farmland, and residential property. This approach has two further attractive features: it allows better integration with existing accounts, since some of these assets (such as residential property and forests) have an extensive existing database; and it allows incremental development of a set of valuations, building upon those in the market sector.

Practical Choices in Expanding the Accounting Framework

A complete accounting system including interactions in the production and asset accounts would be a significant undertaking. Deciding on the scale of augmented accounting and the next steps to be taken will require considerable strategic thought. One question is whether the accounts will be used for scorekeeping or for management (see the discussion in Chapter 2.

Scorekeeping, which involves developing a better measure of the performance of the economy over time, is one perspective. It addresses the questions of trends in the values of environmental assets and whether current consumption is sustainable. If scorekeeping of this type is the purpose of supplemental environmental accounts, it will simplify the enterprise because there will be no need to consider intermediate interactions between production sectors. Tracing where pollutants were

^{2.} Watershed valuation is an example of a holistic approach (see Anderson and Rockel [1991] and Green et al. [1994] as examples).

produced and how they affect intermediate product is unnecessary as long as one can measure final consumption and changes in assets. For example, a dying forest is a deteriorating asset; whether the deterioration is caused by acid precipitation, tropospheric ozone, or pest infestation is secondary from a scorekeeping perspective. What is important is to measure the deterioration accurately. Similarly, the overall health and skills of human populations is a central issue in measuring whether the economy as currently structured is leading to an increase or decrease in the stock of human capital. Why the change is occurring—whether because of changes in health care or education expenditures or reductions in blood lead—is secondary to the measurement issue. Overall scorekeeping would note the substantial improvements in the health status of Americans over this century rather than decreases in particular ailments.

The second broad perspective on the function of environmental accounts is that of environmental management. This perspective focuses on the sources, transportation, and ultimate disposal of residual pollutants, particularly their contributions to outcomes of economic and ecological consequence. Knowing to what extent particular emissions of residuals come from utilities, automobiles, or volcanic eruptions is critical to developing strategies for control. If human sources are dwarfed by natural sources, for example, efforts to control human sources may be futile. Similarly, knowing that life expectancies have increased dramatically is not very useful to understanding whether there are benefits to tightening controls on small particles or ozone. Improvements in health care, occupational safety, and traffic safety may result in increasing life spans and health status more than pollutants are shortening life span—but reducing pollution further could extend lives further. Thus, if the supplemental accounts are meant to support environmental management decisions, knowing the sources of pollutants and the specific causes of changes in asset quality are essential.

Analogy with Economic Accounts

The discussion in this section has emphasized the complexity involved in constructing environmental accounts. It is useful to compare environmental with conventional economic accounting. A little reflection suggests that economic activity has a similar, almost fractal complexity when one looks under the surface. It would be just as difficult to measure the physical flows in economic life as in environmental life, and indeed many of the same

processes come into play. Consider the problems involved in accounting for a simple loaf of bread. Doing so would require measuring and valuing a wide variety of flows of water, fertilizer, pesticides, labor, climate, and capital inputs that go into producing the wheat; the fuels, transport vehicles, emissions, weather-related delays, induced congestion, or floods involved in transportation; the molds, spores, and miscellaneous rodents and their droppings that invade the storage silos; the complex combination of human skills, equipment, and structures that go into milling the wheat; the entrepreneurship of the baker and the software in the computer-operated baking and slicing machinery; the complex chemistry and regulatory environment involved in the wrapping materials; and the evolving ecology of the distribution network. Behind each of these elements, in addition, is the complex general equilibrium of the marketplace, which determines the selection of production processes by prices, taxes, and locations, along with the further complexity of needing to unravel the input-output structure of the inputs into each of the steps just described.

It appears unlikely that anyone would try, and safe to conclude that no one could succeed in, describing the physical flows involved in this little loaf of bread. Fortunately, however, economic accounting does not attempt such a Herculean task. Rather, the national accounts measure all these activities by the common measuring rod of dollars. Although the dollar flows are routinely broken down into different stages-wheat, transportation, milling, baking, and distribution—one could never hope to describe the flows physically and then attach dollar values to each physical stage. Yet this is just what would be required for a full and detailed set of environmental accounts. The above comparison may give some sense of why accounting for environmental flows outside the marketplace is such a daunting task.

PHYSICAL DATA REQUIREMENTS: GENERAL ISSUES

Some of the analytical questions involved in environmental accounting have been analyzed in the previous section. To construct actual accounts requires both obtaining accurate physical data (discussed in this section) and valuing the flows (discussed in the next section).

Accurate data on physical flows and stocks are a prerequisite for developing any accounting system and are the focus of national accounting systems under development in several European nations. In some areas, ample physical data are available as a by-product of regulatory monitoring and resource management systems. Appendix B lists a number of databases identified by the panel that may be of use in further work on supplemental accounts.

Three concerns are fundamental to understanding data and measurement requirements for the development of environmental accounts: (1) the dose-response relationship, (2) measurement of actual doses experienced, and (3) the fate and transport of residuals in the environment. The first, the dose-response relationship, is the physical relationship between the concentration of or exposure to an environmental change and the response of the subject experiencing the dose. The doseresponse relationship is applied to many different situations, for example, the response of trees and crops to chemicals such as carbon dioxide, tropospheric ozone, or acid deposition and the response of humans to pollutants such as lead, particulate matter, or radiation.

Dose-response relationships are often difficult to determine because they may be affected by complex interactions and intervening factors. example, there are extensive medical data on causes of death and, less universally, illness. To determine impacts of environmental changes on human or natural ecosystems requires separating out the different causes of premature death or illness. In some areas, such as the impact of tobacco or lead, the relationships are relatively well established; in other areas, such as the impact of particulate matter or ozone, much uncertainty persists. For many of these relationships, average exposure over the year is rarely the relevant measure. Damage may be related to extreme levels or to periods in which the subject is particularly sensitive to the agent; acute effects may differ from chronic effects related to long-term, low-level exposure.

Resolving these uncertainties about doseresponse relationships is important for policy decisions, such as the level at which to set primary air-pollution standards. Resolution of these uncertainties would also allow construction of environmental accounts. The panel's review of work in this area indicates that the preparation of estimates of the economic impacts of air pollution is feasible today, but there are enormous uncertainties at virtually every stage of the effort. While BEA or those preparing environmental accounts would not necessarily be involved in preparing dose-response estimates, the accountants will need to work closely with public-health, agricultural, forestry, and ecological experts to use the best information available.

In addition to understanding the dose-response relationship, national accounting requires regular, statistically valid monitoring of the relevant populations and the doses they are receiving. A basic limitation of much of the data currently collected is that ambient concentration levels in areas where individuals, crops, forests, or other relevant entities actually reside are poorly measured. Most measurements occur at sites of convenience rather than sites of relevance. Air pollution monitors are often placed with other monitoring devices where airplanes congregate rather than where people live.

A full account of economic-environmental interactions also requires tracking the fate and transport relationship, or the connection between the emission of a particular pollutant or pollutant precursor at one time and geographic point and the level, time, and location of the pollutant at the point where it affects an economic asset or activity. These relationships are generally highly complex and variable. For air pollutants, wind direction and speed, temperature, cloudiness, and precipitation all affect how a pollutant is dispersed or concentrates. Precursor pollutants sometimes do not create damage themselves, but react chemically in the atmosphere to create other agents that are damaging. Acid precipitation and tropospheric ozone are examples. The formation of these pollutants depends on the presence of other agents that may limit, speed, or slow the process. Monitoring of emissions, concentrations, exposures, and consequences would provide the physical foundation for a complete set of environmental accounts, and is also a critical part of environmental management.

The goals of environmental accounting will dictate the assignment of priorities for improved data. Extensive data on the fate and transport of emissions and concentrations of pollutants are a lower priority if the goal is scorekeeping; even dose-response relationships may be secondary to more direct measurement of consumption flows or changes in important capital and environmental assets and human health status. If one is interested primarily in measuring the sustainability of economic activity, understanding the health status of human and natural systems is more important than understanding why conditions have changed. On the other hand, understanding these technical relationships is essential if environmental accounts are to serve as a data set to support environmental management, in which the goals are to understand the severity and causes of environmental problems, along with remedies needed to mitigate those problems.

VALUATION: GENERAL ISSUES

Once appropriate physical data have been developed, the next step in developing integrated accounts is to value changes in the physical measures. Physical data alone are often interesting and useful for policy making, and improvements in, physical environmental data could enhance policymaking efforts. Indeed, most countries have not gone beyond developing physical measures and indicators because of the difficulties involved in valuing nonmarket goods. Without valuation, however, physical data alone have serious limitations for both scorekeeping and environmental management. Aggregate physical measures, such as areas of agricultural land, forest, or wetlands or tons of sulfur, toxic wastes, or particulate emissions, provide incomplete second column evidence on the effects of these chemicals on economic wellbeing or economic sustainability over time. For example, losing 1000 acres of prime Florida Everglades would probably impose a greater economic and ecological loss than losing an equivalent area of frozen wetlands in northern Alaska. Thus an accounting entry of "total wetland acres" lost would not be a useful measure. Furthermore, a simple measure of wetland area would fail to capture improvements in quality that might occur as a result, for example, of current efforts to restore the Everglades as a fully functioning ecosystem.

For many issues, it is necessary to weight the physical measures by their importance. There are approaches to weighting physical quantities other than valuing all impacts in dollar terms; for example, different environmental residuals can be weighted by how they affect human mortality. However, such weights would be incomplete because they would exclude impacts on morbidity or on the health of ecosystems. In economic accounting, the "importance weights" are the economic values, usually market prices. The advantage of using economic valuation is that comparisons can be made across very different environmental effects and with goods that are part of the market economy. While relying on economic values has many desirable features, there are a number of difficulties involved in usefully applying nonmarket valuation studies and techniques to environmental accounting, as discussed below (see also Chapter 2).

Valuation Techniques

Markets provide the conventional valuation for market goods and services. A variety of methods for valuing nonmarket goods and services has been developed. Table 4–2 indicates the potential and actual uses of various valuation methods for many environmental problems, including the dose-response method discussed above. These methods have been developed over a number of years and have been applied to many specific problems.³

The dose-response method, as a valuation method in and of itself, is directed toward converting exposure to a specified dose of a substance, from which is calculated a physical response for which a direct market price can be observed. For example, exposure to ozone or particulate matter results in wheat-yield loss or lost work-days due to respiratory illness; using the market price of wheat or of labor, an estimate of economic value can be made. The valuation techniques in this approach are consistent with prices used in the economic accounts. Incomparability or additional uncertainties are introduced only through imputation of output by use of the dose-response relationship, which converts the environmental effects into market-good terms.

Travel-cost and hedonic methods also use behavior and observed market transactions as a basis for estimating values, but the activities involve time use and expenditures on goods and services related to use of the environmental or natural-resource good, rather than on the resource itself. For example, a recreational site might be valued using the travel-cost method by estimating the time and out-of-pocket costs involved in reaching the site.

Hedonic methods use statistical techniques to explain variations in market prices based on the bundle of characteristics of a good. This approach is currently used in the national accounts. Computers, for example, are considered bundles of attributes such as speed, memory, and random access memory (RAM), and the value of the computer is a weighted sum of the values of its attributes.

For resource and environment valuation purposes, hedonic methods are used to explain variations in land values that reflect natural-resource or environmental characteristics. Such estimates are based on observed price differences of land with different amenities or disamenities such as noise, pollution, and crime. Hedonic wage studies—looking at the wage premiums of high-risk jobs—are currently the standard approach to estimating the value of workplace hazards; the results are often used as estimates of the value of

^{3.} See Smith (1993) and Braden and Kolstad (1991) for reviews of the theory and application of these methods.

life-threatening effects due to such causes as air pollution or traffic accidents.

Contingent value (CV) methods are survey techniques that ask people directly what they would pay for goods and services. Applications in the area of environment and natural resources include, for example, asking individuals what they would be willing to pay to reduce smog, to increase visibility in places such as the front range of Colorado, and to clean up an oil spill in a coastal area. CV methods differ from the other methods discussed above in that there are no budget constraints or behavioral observations involved; the results reflect respondents' estimates of the value of a hypothetical change, rather than a dollar or time cost actually

incurred. While widely used for environmental valuation, CV is highly controversial because it often fails elementary tests of consistency and scaling and is subject to a wide variety of potential response errors if not carefully constructed.

The overriding problem with all these methods is that they require voluminous data and statistical analysis and can hardly be used routinely for a large number of products in constructing environmental accounts. Where existing CV studies are used for environmental or natural-resource valuation, they often employ valuation approaches that are inappropriate for national accounts. For example, many estimates used in environmental management rely on average value (including con-

TABLE 4-2 Methods for Environmental Valuation

| | | | | Technique | s for estimation imp | pacts | |
|--|---|---|------------------|------------------|----------------------|-------------------------|------------------|
| Pollution | Type of Effect | Impact | Hedonic Property | Hedonic Wages | Travel Cost | Contingent Valuation | Dose Response |
| Air pollution | | | | | | | |
| Conventional pollutants: (total suspensed particulate [TSP], sulfur dioxide [SO ₂], nitrous oxides [NO ₂]) | Respiratory illness | WLD RAD Medical suffering | | | v | | |
| | Respiratory illness | Death | L and U | | X | X | U |
| | Aesthetics | Visual, sensory | U | | X | U | X |
| | Recreation | Visits, especially to forests | L | X | U | U | Х |
| | Materials | Maintenance/repair | X | х | Poss | Poss | U |
| | Vegetation | Crop losses | L | Χ | X | x | U |
| Water pollution | | | | | | | |
| Conventional pollutants (e.g., biochemical oxygen demand [BOD]) | Recreation (e.g., fishing, boating) | Visit behavior | | Х | U | U | X |
| , , | Commercial | Stock losses | X | Х | X | X | U |
| | fisheries Aesthetics | Turbidity, odor, unsightliness | U | x | L | U | x |
| | Ecosystem | Habitat and species loss | X | x | X | U | U |
| Trace concentrations | Drinking water Fisheries | Illness, mortality Stock losses | x x | x x | X X | Poss X | U U |
| Toxic substances | | *************************************** | | | | | |
| Air (benzene, polychlorinated Biphenyls [PCBs], pesticides) | Illness, mortality | WLD RAD Medical expenses Pain and suffering | | | | | |
| Chemicals hazardous to land | Aesthetics Ecosystem | Unsightliness Anxiety, ecosystem losses | | | | | |
| Radiation | Illness, mortality | WLD RAD Lives lost | Poss | | | | |
| Marine pollution | | | | | | | |
| Oil, radioactive substances,sewage | Aesthetics | Unsightliness | | | | | |
| | Swimming | Visit behavior Illness Fish/livestock losses | | | | | |
| Noise | Nuisance | Annoyance | U | Х | х | U | L |

U = Used technique; Poss = Not developed, but possible; X = Inapplicable technique; WLD = Work loss days; L = Very limited applications; RAD = Resource activity days.

Source: Adapted from Organization for Economic Cooperation and Development (1989), as appearing in Costanza (1997).

sumer surplus), rather than the prices or marginal values that are the convention in national income accounting.⁴ In a competitive economy, market prices measure both the incremental value to the economy of consuming another unit of the good and the incremental cost to the economy of producing that unit. Therefore, prices are a useful benchmark for valuation.

In one sense, the market value underestimates the total value of goods and services to consumers. Because consumers pay the price of the last or marginal unit for all units consumed, they enjoy a surplus of total satisfaction over total cost. The term used for the extra utility consumers receive over what they pay for a commodity is consumer surplus (see also Chapter 2). Consumer surplus introduces a complication in comparing market prices with nonmarket values. For goods without markets, value is often measured by total willingness to pay for the good. Such values are not directly comparable to market prices because the values include the consumer surplus. In other words, when nonmarket goods are valued according to total willingness to pay, the value of those goods is overstated relative to the market value of marketed goods. For example, travel costs can provide the average value of a recreational service, but the marginal value of the resource for an open-access beach or forest with no fee may be zero. This discussion illustrates the importance of ensuring comparability in estimating values in the construction of nonmarket economic accounts.

Classes of Economic Goods

The valuation of environmental goods and services raises an issue that is largely overlooked in conventional accounting—the distinction between private and public goods. These deceptively common terms are used in a specialized sense here (see Samuelson, 1954, 1955). Private goods are ones that can be divided up and provided separately to different individuals, with no external benefits or costs to others. An example is bread. Ten loaves of bread can be divided up in many ways among individuals, and what one person eats cannot be eaten by others. *Public goods*, by contrast, are ones whose benefits are indivisibly spread among the entire community, whether or not individuals desire to purchase them. An example is smallpox eradication. It matters not at all whether one is

old or young, rich or poor, American scientist or African farmer—one will benefit from the eradication whether one wants to or not. The example of smallpox eradication is a dramatic case of a public good. The economy is replete with activities, such as pollution abatement, new scientific knowledge, national defense, and zoning, that have public-good characteristics.⁵

The distinction between public and private goods is central for many nonmarket and environmental commodities. In a perfectly competitive market, the price of a marketed private good is the marginal value of consumption to the consumer. Similarly, while observed prices do not exist for nonmarket private goods, the marginal value of the consumption of such goods is conceptually equivalent to a market price. The national accounts value food produced and consumed on farms, even though it is not marketed, the same way food sold in the marketplace is valued.

Valuation of public goods is an especially difficult problem because their value to all consumers must be reckoned with. For example, improvements in air quality affect everyone. Conceptually, therefore, one should value public goods by adding up the marginal values of changes to the entire affected population. Doing so poses severe measurement difficulties for two reasons. First, the "personal prices" or marginal values of the public good are sure to vary across people—some may be significantly affected and therefore place a high value on air quality, while others may be relatively indifferent. Second, determining the values of public goods is extremely difficult because people make few decisions that reveal their preferences in this regard. People cannot choose how much defense or smallpox eradication they would like to consume; these decisions are made collectively. Since people cannot choose different levels of a public good,

^{4.} Marginal costs and marginal values are central concepts in determining economic efficiency. For example, knowing the marginal value of reductions in atmospheric lead is more useful to the policy maker than knowing the average value of all reductions. Marginal cost and marginal value are defined in Appendix D.

^{5.} This discussion greatly simplifies the discussion of public goods. There are further distinctions among public goods that are central to many issues involved in environmental accounting, particularly as regards valuation methods. One such distinction is whether consumption is excludable; in the case of global warming, for example, no coastal nation can exclude itself from the rising seas. Another distinction is between pure and congestible public goods. Congestible public goods are those whose consumption is neither completely rival nor nonrival; one person using a beach does not preclude others from doing so, but most people find crowded beaches less enjoyable than deserted ones (see Cornes and Sandler, 1986). Crowding of this sort means that even with open access, the marginal value of use of these sites is greater than zero. A final distinction is between those goods whose use affects market activities or market values and those that are completely independent of the market. Public goods without traces in markets are frequently referred to as "nonuse values." Nonuse values include values people derive from knowing that a species exists, natural wonders remain, or natural systems survive intact beyond any specific use to which they might be put (see Randall and Stoll, 1983). When Congress created Yellowstone National Park in 1872, for example, no member of Congress had ever been there, and its value as a natural wonderland was largely a "nonuse value" imagined on the basis of photographs of William Henry Jackson and drawings of Thomas Moran.

there are no behavioral traces of their preferences or personal prices.

For the above reasons, constructing environmental accounts will necessarily be different for private and public goods. For private goods, particularly near-market goods that have close relatives in the market economy, valuation appears feasible and has a level of reliability that approaches that of the current national income accounts. Most public goods, by contrast, present greater measurement and conceptual problems. Table 4–3 shows examples of each type of goods that have these different characteristics.

Strategies for Valuation

Near-market natural-resource and environmental goods (which are largely private goods) offer the most promise for valuation and inclusion in the accounts. Often there are markets for comparable goods that provide direct evidence of the value of the nonmarketed goods or services. This approach is consistent with the use of market prices used elsewhere in the accounts and has precedent in the valuation of owner-occupied housing services. Thus, the methods for including these near-market goods have already been established. A potential source of error in using this approach is that the quality may differ for goods or services produced or provided in the household and those produced in the market. It would be appropriate to undertake a modest research program to investigate the adjustments necessary to make market and near-market activities comparable.

Two basic types of near-market goods are of interest. The first is the service flow from a natural resource. Here, as in the case of timber from forests or crops from farmland, the service flow is already in the core accounts, and the returns to these assets appear as profits and/or returns to other assets, but the accounting is incomplete because it omits the nonmarket activities. The second case is a good

TABLE 4-3 Classes of Goods and Services

| Time of search | Dinate (accounts) | Public (e | examples) |
|----------------|---|---|---|
| Type of goods | Private (examples) | Related to Markets | Independent of Markets |
| Market | Bread Cars Restaurant meals Housing rentals | Knowledge and innova- tions that are patented and copyrighted Pollutants with tradeable permits | None |
| Nonmarket | Household prepared meals Leisure time Television viewing Groundwater for drinking Rental values of owner- used assets | Air and water quality Climate Mosquito control | Passive or nonuse value (e.g., knowledge of the existence of species, unique national treas- ures such as Yellow- stone National Park) |

not currently in the accounts, such as recreation services enjoyed by households; in this case, the value that is attributable to the service is equal to the value of household labor and capital services, plus a service flow from a natural resource.

Public goods that affect markets offer opportunities for using observations of actual market transactions to generate valuation estimates. An example would be concessionaire activity within a national park. The hedonic property and wage techniques can be explored as a basis for developing values or imputing how changes in these public goods affect markets. There are some potentially sound ways to make the links between these public goods and the market explicit in the accounts, but there is not yet a consensus on how to include them, and each provides a challenge for data development and estimation of values.

Other classes of public goods, particularly those that are national or global in nature and do not leave behavioral traces of individual preferences, are currently problematic for the national accounts. Most of these public goods, such as those involving nonuse values of natural-resource and environmental assets, can be valued only with CV methods. Some reviews have conveyed cautious approval for use of these methods in limited circumstances. For example, a panel convened by the National Oceanic and Atmospheric Administration to review CV methods for use in federal compensation decisions identified "a number of stringent guidelines for the conduct of CV studies" that, when followed, allow "CV studies [to] convey useful information" (see Arrow et al., 1993:4610). However, the accuracy of the values developed with these methods remains controversial among those in the economics profession (see Portney, 1994; Hanemann, 1994; Mitchell and Carson, 1989; and Diamond and Hausman, 1994).

As discussed above, the hypothetical nature of the valuation makes these methods quite different from other methods that are based on actual market transactions. For these reasons, while CV is sometimes useful for other purposes, the panel has determined that it is currently of limited value for environmental accounting. This means that, for many important environmental assets, environmental accounts will omit a portion of the value of the assets. That is, it appears to be feasible to work toward accounting for goods such as recreation activities associated with the Florida Everglades, Yellowstone National Park, and similar sites. However, it is beyond the ability of current techniques to provide reliable measures of the value of the public-goods services provided by these assets, even though we may suspect that these services are precious to the nation.

In the remaining sections we explore the issues raised in the preceding sections in far more detail for the cases of forests and air quality.

FORESTS: A RENEWABLE NATURAL RESOURCE

Forests are a prime example of renewable natural-resource assets. They present many of the same national economic accounting issues as other renewable natural-resource assets, such as agricultural land, fisheries, and coastal and freshwater resources. Many of the products derived from natural-resource assets are included in the production accounts of the existing core NIPA. But these assets are not generally included in national asset accounts, and the production accounts themselves exclude any nonmarket goods and services derived from these natural-resource assets. Forests are a useful example because much effort has been devoted internationally to forest accounting.

While the NIPA as currently structured are not intended to include the full range of forest values, regular reports of economic activity as measured by the NIPA are widely noted and interpreted as measuring important aspects of economic well-being. It is logical to try to capture in these accounts more of the important relationship between forests and humans. Forests support human material and spiritual welfare in countless ways. They harbor many important species of plants and animals. They form an aesthetically pleasing backdrop for recreation and for everyday life. They filter and regulate the flow of much of the U.S. water supply. They have been a reservoir for land available for conversion to agriculture and other developed activities. Wood is one of the world's most important industrial raw materials and a ubiquitous source of energy. And worldwide, literally millions of indigenous people call forests home.

This section examines, in five parts, methodological and practical issues that arise with regard to including forests in national economic accounts. It begins with a discussion of the nature of the economics of forest values, providing a general framework for assessing those values. The second subsection translates this general discussion into a more precise statement of how forest values might be incorporated in the U.S. economic accounts. Given this context, the third subsection comments on BEA's work to date and provides a brief discussion of the extensive international literature on forest accounting. This is followed by discussion

of a recommended approach for measuring the net accumulation of timber. The section ends with the panel's conclusions on forest resources.

The Nature of Forest Values

Forests produce economic value through three principal classes of economic goods: private goods traded in markets, private goods not traded in markets, and public goods. These goods can affect both the national asset accounts and the NIPA. These three classes of forest goods and services are discussed in decreasing order of availability of data and of accepted analysis required to include them in the national economic accounts.

Private, market-related activities. Some forest-based market-related activities are already included in the national income accounts; examples are all forest products used in manufacturing (logging, lumber production, the manufacture of paper, wooden furniture, and musical instruments). Some fuel wood production would fall into this category; the part that flows through the market economy would enter the accounts, while the part that is produced for own consumption would not.

The major issue in the current treatment of private, marketed forest-based goods and services is the failure to account for changes in the value of the standing timber. Most of the conceptual problems involved in doing so have been fully considered and developed, as discussed below. Accounting for changes in the timber inventory would address one of the major shortcomings of the existing forest accounts.

Private goods not traded in markets. Forests produce many private goods and services that—for reasons of custom, law, or economics—society has elected not to allocate through markets. For example, the water flowing from forested watersheds has considerable economic value. Indeed, the rationale for forest conservation in the late nineteenth century related primarily to protection of forested upland watersheds. Protection

^{6.} The following discussion focuses primarily on issues pertinent to the United States. A significant issue in natural-resource accounting for many developing countries is deforestation. For example, a major concern in the national accounts of developing countries such as Indonesia is that harvesting of forests is contributing to rapid growth in current consumption at the expense of the stock of forest assets. In the late 1800s, the deforestation rate in the United States equaled or exceeded that found in many tropical countries today, but deforestation is no longer significant on a national scale, and the general trend since the 1950s has been a net growth in the forest stock of the United States

^{7.} Because of the decision not to use markets in allocating such resources, but typically to provide them through collective decisions, common usage sometimes refers to such goods and services as "public goods." This report follows the conventional definitions of public and private goods discussed in the previous section.

of navigation was the explicit constitutional basis for creation of the eastern national forests, and congressional agricultural interests concerned about irrigation provided the principal support for withdrawing the national forests from the western public-domain lands. A study by Bowes et al. (1984) of the Front Range of the Rockies around Denver and informal estimates for the Quabbin Watershed servicing Boston demonstrate that in some locations, the value of the water produced from a forest may far exceed the value of the timber production. Changes in forest attributes can affect stream flow and therefore the value of water "produced." Interestingly, Bowes et al. (1984) demonstrate that when water is valuable, it is optimal to keep timber stocks low to reduce evapotranspiration and therefore increase runoff.

Public goods. Public goods are ones for which consumption by one individual does not reduce the amount available for others to consume. Forests produce many public goods, including aesthetically pleasing landscapes, a carbon sink, and a store of biological diversity. Given data on changes in forest inventories, it may be possible to value some of these services (e.g., the value of carbon sequestration), although the uncertainties of such valuation should not be underestimated. In other cases, the valuation problems go far beyond the results of current research.

The interactions among these three sources of forest value—private marketed goods, private nonmarketed goods, and public goods—can be complex. For example, cutting trees leads to increases in manufacturing activity. This in turn might cause an increase in water yields and thereby reduce the costs of industrial and household production. It might also cause a shift of species diversity away from late-seral-stage organisms, such as spotted owls, and toward early-seral-stage ones, such as elk. It would lead to an immediate release of carbon associated with logging and forest products manufacturing, but might result in a long-term increase in carbon sequestration with forest growth if the wood products were sequestered in long-lived furniture or houses. Given the site-specific nature of such production relationships and the lack of current scientific understanding of many of the underlying ecological processes, there is currently an insufficient scientific basis for specifying a full set of such linkages in supplemental accounts.

Incorporation of Forest Values in the National Economic Accounts⁸

To be most useful, the economic accounts would identify the separable contributions of forests to the national economy. It is convenient to discuss the problems involved in incorporating forest values in the U.S. national economic accounts first for the production accounts and then for the asset accounts.

Adjustments to Production Accounts

A full treatment of forests in the production accounts would involve the following adjustments to national income and product.

Timber income. Sales of timber are already included, although some are recorded as part of personal income, some as part of manufacturing income, and some as part of government receipts. The principal difficulty is ascribing these income streams to the forest sector; in this respect, the issues are very similar to those encountered in the treatment of mineral incomes discussed in Chapter 3. Ordinary production costs associated with forest production activities are similarly covered by the current NIPA, but may not be easily associated with the forests themselves, rather than forest-products manufacturing. Problems remain with the allocation of joint costs. For example, forest roads are a costly input to the production of many forest products, including timber, minor forest products, and recreation. Yet standard accounting practices, especially for the national forests, attribute the full cost of these roads to the timber program. As currently constructed, the NIPA include the costs of road construction, but exclude the benefits produced by the road.

Near-market forest products. To the extent that near-market forest products, such as fuel wood, berries, mushrooms, and Christmas trees, are produced by households but not purchased through markets, they would be included in the forest accounts.

Contributions to household production (e.g., recreation). The accounts would include the value of household production of activities such as hiking, hunting, and fishing. However, if there is uncongested, open access to the forest-based inputs needed for household production, the contribution of these inputs to household value on the margin is zero. Current practice often uses average rather than marginal values, so care must be taken,

The discussion in this section draws heavily on the recent comprehensive treatment of the subject by Vincent and Hartwick (1997).

particularly for open-access forests, to ensure consistent valuation in order to prevent overvaluation of nonmarket activities.

Environmental services used by other industries (e.g., watershed protection, domestic/industrial water supply). Some of the impacts of forests are already included in the NIPA. For example, if forests moderate water flows and reduce the cost of agricultural production, this benefit is fully incorporated in the NIPA. Ascribing the benefit to the forest sector, while a difficult task, would be required for a full accounting.

Public goods (e.g., carbon sequestration, biodiversity, species preservation). At present, the only public goods that have been the subject of widespread attempts at valuation are those associated with carbon sequestration (Brown, 1996). While quantitative data on carbon sequestration are available, valuation is still highly uncertain. Moreover, because valuation of carbon sequestration is based on global benefits, the issue of how such benefits would be incorporated in a single nation's accounts is unresolved.

There are few comprehensive studies of the total value of forest products. Recent work on goods and services produced on public lands managed by the U.S. Forest Service indicates that more forestland value is due to recreational and wildlife services than to timber, mineral, and range goods (U.S. Department of Agriculture Forest Service, 1995). For example, of the estimated total \$9 billion value of forest goods and services in 1993 (valued at market prices), recreational and wildlife services accounted for 80 percent, whereas the production of minerals and timber and grazing range services accounted for just 20 percent.

While the above estimates illustrate the importance of nonmarket production, they should be interpreted with caution. First, they include only land managed by the U.S. Forest Service, which is not representative of all forestland. By contrast, on private lands that are intensively managed for timber production, much of the value is due to timber harvesting. Second, these estimates do not include all nonmarket values; for example, they omit the potential value of carbon sequestration. A recent estimate is that U.S. forests sequestered 211 million metric tons of carbon in 1992 (Birdsey and Heath, 1995). At \$10 per ton, a value consistent with the Intergovernmental Panel on Climate Change (IPCC) estimates of the marginal value of emission reductions (see Bruce et al., 1996), the annual value of carbon sequestration in all U.S. forests would be \$2.1 billion; the numbers could be an order of magnitude larger if the U.S. adopted

stringent emission controls under the Kyoto Protocol of 1997. Third, the Forest Service presents different types of estimates for the value of forest services, market-clearing prices being only one of these.⁹

Forests Asset Accounting

A key conceptual problem with the present NIPA is the lack of any accounting for changes in asset values of U.S. forests. Accomplishing this task was part of the Phase II work outlined by BEA (see Chapter 2). We address this issue in some detail for two reasons. First, from a conceptual standpoint, natural-resource assets should be treated consistently with produced capital assets, adding net accumulation or subtracting net decumulation from gross domestic product (GDP) to arrive at a measure of net national product (NNP) more closely associated with a sustainable-income concept. Second, the capacity exists to rectify this omission with respect to the value of forests that is linked to marketed production.

While adjustments in an asset account are conceptually similar to net investment of "made assets," for forests it is more precise to call the change in asset values net accumulation to reflect the fact that, even at constant prices, the asset value of a forest can either increase or decrease. Most generally, net accumulation is defined as the change in an asset value from one period to the next. Because asset values cannot generally be inferred, economists infer the value of the asset from assumptions about timber markets. A full analysis of this issue is presented in Appendix C. Three major alternative approaches to accounting for changes in asset values of forests are described below.

Hotelling model. The first approach is analogous to the literature on nonrenewable resources discussed in Chapter 3. In a sense, this approach treats the exploitation of primary, old-growth forests as timber mining. Since it is generally uneconomic to replace primary forests with forests of a similarly old age, this analogy is not as odd as it might appear. Under these circumstances, the change in the value is the volume of the harvest times the difference between the price and the marginal extraction cost. This model of net accumulation is called the

^{9.} USDA Forest Service (1995) also present estimates based on fees collected (which show much lower value overall and relatively less for recreation and wildlife); willingness to pay, including consumer surplus (which show higher overall values and greater importance for recreation and wildlife); and income generated, including that generated by downstream activities such as lodging and equipment rentals related to forestland recreation (which show the highest overall value). From the perspective of comparability with the current national economic accounts, the methods associated with the discussion in the text are preferable to the other three methods.

Hotelling model to emphasize the connection between mining old growth that *will not* be replaced and mining minerals that *cannot* be replaced.

Based on historical studies, this approach appears to be a reasonable approximation of empirical trends in forest development (see Berck, 1979; Lyon, 1981; Sedjo and Lyon, 1990; and Sedjo, 1990). In the early stages of development, net growth of the forest is nil: photosynthesis just balances the death of plant tissues and entire trees. Because growth is nil, any harvest at all exceeds the growth of the forest. Since the harvest is greater than the growth, the timber inventory declines. As the inventory of old-growth timber declines, timber becomes more scarce, and timber prices rise. In addition, harvesting costs increase as logging extends into increasingly remote sites. Prices rise until the purposeful husbandry of second-growth timber and the use of nonwood substitutes (stone, concrete, and steel for construction; fossil fuels, solar energy, and conservation for energy) becomes economic. This analysis is broadly consistent with the development of the forest sector in the United States. Harvest exceeded growth until the 1950s. Timber prices rose at a real rate of about 4.6 percent per year between 1910 and World War II and 3.1 percent per year from that period to the mid-1980s (Clawson, 1979; Sedjo, 1990; and Binkley and Vincent, 1988).

Transition models. While the Hotelling model may be appropriate for the case of pure depreciation under the assumption of perfect capital markets, 10 it misses several important aspects of the forest sector, including (1) "discovery" of new old-growth forest stocks (e.g., the rapid expansion of logging in the British Columbia interior to serve U.S. markets once U.S. prices had risen to the point that accessing this comparatively remote region became economic), and (2) the fact that the oldgrowth forests were replaced with faster-growing second-growth forests. Both effects attenuate price increases, causing the ordinary Hotelling model to overstate forest depreciation. These effects are the forest analog of mineral deposits analyzed in Chapter 3.

Transition models account in part for these problems by recognizing that forest growth offsets harvests. Assuming constant prices and a forest inventory recognized only by total net growth, this model suggests net accumulation is given by the

difference between price and marginal harvesting cost times growth minus harvesting (rather than simply minus harvesting in the Hotelling model). By recognizing forest growth, such a formulation improves on the ordinary Hotelling approach, but still suffers the defects of (1) ignoring endogenous price changes in the sector, and (2) characterizing the forest only by net growth and not its more complex underlying age-class structure.

Managed second-growth forests. Economic theory suggests that, once the transition between old- and second-growth forests is complete, timber prices will stabilize, and the economic return to holding forests will arise solely from forest growth. Vincent (1997) has analyzed this case and developed the appropriate measures of net accumulation for optimally managed second-growth forests. The appropriate estimate of the value of asset accumulation is more complicated here (see Appendix C for a full discussion). Accumulation depends on the forest age structure, discount rate, timber-yield function, and economically optimal rotation age. While this approach improves on both the Hotelling and transition approaches, certain shortcomings remain. In particular, this approach assumes that forest owners cut their trees at the economically optimal time and that timber prices grow at a constant rate. This theory of forest valuation can be used to formulate a practical approach to measuring the economic depreciation of forests. Before turning to that recommended approach, it is useful to examine BEA's work on forests and the international literature in this field.

BEA's Approach and International Comparisons

As noted, forests are part of Phase II of BEA's IEESA effort. As a consequence, BEA's work on forests to date has not been extensive and may need refinement (see Howell, 1996). In its current work, BEA separates forestland from the timber inventory. "Forests and other wooded land" are valued at the average value of agricultural land. In general, edaphic and geomorphologic factors make forestland less valuable than agricultural lands, and the rate of change in forestland prices is uncorrelated with the rate of change in farmland prices (see Washburn, 1990). BEA updated their estimates of the timber inventory each period using separate Forest Service estimates in physical terms of growth and removals. Starting with physical inventory estimates, BEA added physical estimates of growth (additions) and removals (depletion) to derive closing stocks. Each year's closing stock es-

^{10.} The Hotelling model assumes perfect capital markets in which the rate of return in the mining or old-forest sector equals the rate of return in alternative economic activities. In countries, especially developing countries, where both forest and mining activities earn disproportionally high returns because of special favors and licenses, the Hotelling model is not appropriate. It greatly overstates the true decline in the value of these stocks as they are mined.

timate became the following year's opening stocks (except in the Forest Service inventory years, when inventory estimates of standing timber were used). Opening and closing stocks, additions, and depletions were then valued at the stumpage prices; the difference between the opening stocks plus additions less depletion and closing stocks, in monetary terms, was placed in revaluations.

BEA uses the Hotelling model to value the timber stock in each period. Timber is valued at the national average stumpage rate, with species divided into two categories, softwood and hardwood. When measured at a national level, marginal extraction costs are probably nonzero (production increases are accomplished by turning to increasingly costly regions). There is some evidence that extraction costs are constant within regions, however (Adams, 1997). One conceptual flaw in BEA's current approach is that it measures the depreciation of recreational land on the basis of the costs of repair and maintenance of federal government expenditures for parks. The panel has noted in numerous places the flaw in this approach. Having accounted for one of the costs of providing recreational services, BEA does not adjust national income to reflect the benefits. BEA recognizes the

TABLE 4-4 Summary of Forest Accounting Studies

| | | Γ | Valuation | Method | |
|--|--|------------------|--------------|--------|--------|
| Study Area | Reference | Net Price | El Serafy | NPV | Other |
| Global Asia | World Bank (1997) Vincent and Castaneda (1996) | Т | G | U | |
| Australia I Australia II | Young (1993) Skinner (1995), Joisce (1996) | н | | Ü | υ |
| Austria Canada I | Sekot et al. (1996) Anielski (1992a, 1992b, 1994, 1996) | Ħ | | U | U |
| Canada II | Statistics Canada (1997), Baumgarten (1996) | Н | | U | |
| Chile China | Claude and Pizarro (n.d.) Li (1993) | ? | ? | ? | ? |
| Costa Rica I | Repetto et al. (1991) | ? ? T T | ? | ? | ? |
| Costa Rica II Ecuador Finland I | Aguirre (1996) Kellenberg (1995) Koltolla and Mukkonen (1996) | † T | | | U |
| Finland II | Hoffren (1996) | Ţ | | | |
| Indonesia Malaysia 1 | Repetto et al. (1989) Vincent et al. (1993) | Ť | | | |
| Malaysia II | Vincent (1997), Vincent et al. (1997) | , | G | | |
| Mexico Nepal | van Tongeren et al. (1993) Katila (1995) | T | U | | |
| New Guinea | Bartelmus et al. (1992, 1993), Bartelmus (1994) | Χ̈́ | Х | X | Х |
| New Zealand Philippines I Philippines II Sweden I | Bigsby (1995) IRG et al. (1991, 1992) Cruz and Repetto (1992) Hulkrantz (1992) | H T T T | | υ | |
| Sweden II Tanzania Thailand United States Zimbabwe | Eliasson (1996) Peskin (1989a) Sadoff (1993, 1995) Howell (1996) Crowards (1996) | X T H T | | Х | X U |

Key: H = Hotelling approach; T = transition approach; G = generalized El Serafy approach elasticity of marginal cost not infinity); X = no timber valuation performed; ? = no information; J = used technique; NPV = net present value. Source: Vincent and Hartwick (1997). References in original.

criticisms of this approach and plans to use other approaches in the future. BEA publishes a full account for 1987, although it produces data on the value of timber stocks for 1952–1992. Using BEA's data, the net accumulation of timber in 1987 was \$2.1 billion at 1987 prices and \$47.0 billion if price changes are included.

While BEA's methods can and should be refined as the environmental accounts are developed, they are consistent with current international practice. Table 4–4 provides a summary of 29 studies from around the world that have attempted to extend the treatment of forests in national income and product accounts. Most of these efforts use variants of the so-called "net price" approach (see equations C.3 and C.4 in Appendix C). Many fail to distinguish marginal and average extraction costs. Accounting for net timber accumulation is well established in the international literature. None of the studies appears to use the third method described in the previous subsection of a managed second-growth forest.

A Recommended Approach for Measuring **Net Accumulation of Timber**

The three alternative approaches to accounting for changes in asset values of forests discussed above incorporate many restrictive assumptions. The panel investigated other alternatives and identified one (developed by Vincent [1997]) that is similar to the second-growth forests approach, but allows for the possibility that forest managers may deviate from ideal wealth-maximizing behavior. This approach is described in detail in Appendix C. A review of available data indicates that the approach can be readily implemented for the United States using data maintained by the U.S. Forest Service.

Conclusions on Forest Resources

BEA has initiated a useful effort to recognize the economic contributions of forests in the NIPA. Doing so is consistent with a wide international interest in such accounts. The data and methods employed by BEA to date are reasonably consistent with the body of international work in this area. At the same time, data are available for U.S. forestlands that can enable much more complete estimates of net timber accumulation than either those developed to date by BEA or those available in the literature for other countries. BEA could fruitfully work with the U.S. Forest Service in developing annual estimates of net timber accumulation using these data.

This work could also be related to other important values of the forest, particularly recreation and other nonmarket activities. While the data and analytical methods are not yet adequate to provide precise estimates of the value of all forestsector flows to the economy, nonmarket forest values for the nation as a whole appear to exceed the value of timber by a substantial amount. Many of these forest values (such as recreation or self-produced fuel wood) are best understood conceptually in the context of household production. The household combines specific aspects of the forest resource with household capital and labor to produce valuable nonmarket goods and services. Viewed in this context, forests present many of the same challenges for national accounting as do such important products and services as home-cooked meals and in-home education or childcare. It is therefore logical for BEA to consider these aspects of environmental accounting as part of the larger problem of valuing the contributions of nonmarket activity to economic well-being.

In conclusion, constructing a set of forest accounts is a natural next step in developing integrated economic and environmental accounts. At the same time, it must be recognized that there are many thorny problems involved in forest accounting. Given the available data and methods, the panel concludes that this accounting is a useful next step in developing the IEESA.

AIR QUALITY: A PUBLIC ENVIRONMENTAL GOOD

Air quality is one of the most important examples of a public environmental good and thus should be among the top priorities for inclusion in environmental accounts. It also presents issues for environmental accounting similar to those encountered with other environmental assets, such as water quality and climate change. Severely degraded air quality in many cities of the United States in the 1960s generated a number of federal regulations during the early 1970s designed to reduce emissions of pollutants that contributed to this degradation. Air quality has many dimensions, and early regulations focused on some of the more obvious and easily addressed problems. As scientific research further illuminated the less immediately obvious impacts of degraded air quality, such as chronic effects on health, these earlier controls were tightened, and new regulations addressed a wider range of pollutants.

The first subsection below examines the various market and nonmarket impacts of air quality. The

second reviews some major pollutants that result in degradation of air quality and their primary physical effects. This is followed by review of a recent attempt to estimate comprehensively the benefits associated with improvements in air quality. The fourth subsection addresses the relevance of these damage estimates to environmental accounting. The section ends with the panel's conclusions on accounting for air quality.

Air Quality Impacts on Market and Nonmarket Activities

Degraded air quality can have a harmful effect on both market activities (e.g., reduced crop yields or lost work-days) and nonmarket activities (e.g., losses due to illness beyond those related to paid labor, such as those to retired persons, and reduced amenities in recreational facilities). These air quality effects belong in the production accounts of environmental accounts. Moreover, degraded air quality can affect the value of natural-resource assets (e.g., acid deposition damage to forests), can cause deterioration of physical capital (e.g., damage to the exterior of buildings), and has long-term health impacts that affect human capital (e.g., premature death and effects of lead on measured IQ of children). Such effects might be included in the asset component of environmental accounts. With assets as with production, there are both market and nonmarket effects: market impacts include capital asset deterioration and forest timber loss. while nonmarket impacts include lost value due to damaged landmarks or degradation of forests for recreational purposes.

Major Air Pollutants and Their Health and Ecological Effects

Table 4–5 lists some important health and ecological effects of exposure to six air pollutants for which the U.S. Environmental Protection Agency (EPA) has established National Air Quality Standards—carbon monoxide, ground-level ozone, lead, nitrogen dioxide, particulate matter, and sulfur dioxide. These chemicals are sometimes referred to as "criteria pollutants." In addition, there are many other constituents of the atmosphere that may have impacts of economic consequence. Table 4–6 lists some other components of air pollutants, including air toxins (e.g., benzene), stratospheric ozone depletors (e.g., CFCs), and greenhouse gases (e.g., carbon dioxide and methane). As indicated, EPA has identified 188 air toxins alone.

Exposure to air pollution has a wide range of impacts, including respiratory illnesses (which result from ground-level ozone, sulfur dioxide, nitrogen dioxide, particulate matter, and air toxins); child IQ loss, infant mortality, strokes, and heart attacks (which result from lead); skin cancer (which is the indirect consequence of stratospheric ozone depletors); and increased mortality (resulting from particulate matter, lead, and air toxins) (see Pearce et al., 1996). Ecological effects include impacts on agricultural, forest, and aquatic ecosystems. Airborne chemicals have both positive and negative effects on production of marketed goods and services. Ground-level ozone harms crops, while nitrogen deposition and carbon dioxide enhance plant and timber growth. Ground-level ozone and sulfur dioxide reduce crop yields and timber growth, while air toxins and sulfur dioxide reduce freshwater fish yields. In other cases, atmospheric trace gases have subtle effects that will occur far in the future affecting biological diversity (for greenhouse gases) or ocean food web stresses, and ultimately causing severe sight damage for many mammals (for stratospheric ozone depletors).

Table 4-5 also shows the change in emissions and sampled concentrations of EPA's six criteria pollu-

TABLE 4-5 Environmental Protection Agency's Six Criteria
Air Pollutants

| Pollutant Trends (1986–1995) | Major Effects | Leading Source |
|--|--|---|
| Ground-level ozone (O ₃) Concentration –6% Emissions –9% | Respiratory illness/lung damage Crop/forest damage Building/material damage Visibility problems | Transportation* (37%) Solvent utilization (28%) |
| Carbon monoxide (CO) Concentration –37% Emissions –16% | Reduced oxygenation of blood Heart damage | Transportation (81%) |
| Sulfur dioxide (SO ₂) Concentration –37% Emissions –18% | Respiratory illness Building/material damage (acid rain) Crop/forest damage Visibility problems | Electric utilities (66%) |
| Nitrogen dioxide (NO 2) Concentration -14% Emissions -3% | Respiratory illness/lung damage Building/material damage (acid rain) Crop/forest damage Visibility problems | Transportation (49%) Electric utilities (29%) |
| Lead (Pb) Concentration -78% Emissions -32% | Infant mortality Reduced birth weight Childhood IQ loss Hypertension Heart attacks | Metals processing (smelters, battery plants) (39%) Transportation (31%) |
| Particulate matter (PM- 10) Concentration –22% Emissions –17% | Lung disease Mortality | Fugitive dust (68%) Agriculture and forestry (20%) |

^{*}Based on volatile organic compounds (VOC) emissions. Source: U.S. Environmental Protection Agency (1996).

tants from 1986 to 1995. 11 Primarily as a result of the Clean Air Act and the Clean Air Act Amendments, emissions of the six primary pollutants have decreased substantially. For example, installing scrubbers and switching to low-sulfur coal caused a 19 percent decline in emissions from coal utility plants, which in turn resulted in an overall 18 percent decline in sulfur dioxide emissions from 1986 to 1995. A 16 percent decline in carbon monoxide emissions during the same period resulted primarily from a 20 percent decline in carbon monoxide emissions of on-road motor vehicles. Similarly, a 32 percent decline in lead emissions was primarily a result of the ban on leaded gasoline.

Declines in nitrogen dioxide (14 percent) and ground-level ozone emissions (6 percent) were less dramatic, but are expected to become more pronounced as the Clean Air Act Amendments of 1990 become effective. For example, reformulated fuel requirements (for oxygen and volatility) for onroad vehicles are likely to reduce carbon monoxide and ground-level ozone emissions. Similarly, the Acid Rain Program (Title IV) requires a 40 percent reduction in sulfur dioxide and a 10 percent reduction in nitrogen dioxide emissions from 1980 to 2010. Particulate matter may be more difficult to control given that almost 70 percent of anthropogenic-related emissions result from fugitive dust (e.g., unpaved roads), with an additional 20 percent coming from agriculture and forestry.

The declines in emissions are, of course, linked to lower concentrations of the six primary pollutants. Whereas emissions are estimated on the basis of

TABLE 4-6 Other Pollutants of Air Quality Identified by Environmental Protection Agency

| Pollutant | Major Effects | Leading Source |
|--|--|---|
| Air toxins (188 in total, e.g., dioxins, benzene, arsenic, beryllium, mercury, vinyl chloride) | Thought to cause cancer or other serious health effects, such as birth defects or reproductive effects Ecosystem damage (particularly freshwater fish) | Transportation, wood combustion, chemical plants, oil refineries, aerospace, manufactures, dry cleaners |
| Stratospheric ozone depleters (e.g., chlorofluorocarbons [CFCs], halons, carbon tetrachloride, methyl chloroform) | Skin cancer Cataracts Suppression of the im- mune system Ocean food chain stresses | Fossil fuel, industrial cleaners |
| Greenhouse gases (e.g., carbon dioxide, methane, halogenated fluorocarbons [HFCs]) | Broad-scale changes in temperature and pre- cipitation affecting agri- culture, health, water resources, recreation, ecosystems Sea level rise | Fossil fuel, combustion, landfills |

Source: U.S. Environmental Protection Agency (1996).

^{11.} Data prior to 1986 exist, but cannot be directly compared with data collected from 1986 on because of changes in data collection (see U.S. Environmental Protection Agency, 1996, for more details).

industrial activity, technology, fuel consumption, and vehicle miles traveled, concentrations of pollutants are measured at selected monitoring sites across the country. Based on these measurements, estimated airborne concentrations of lead have fallen by 78 percent since 1986, while concentrations of airborne carbon monoxide, sulfur dioxide, and particulate matter have fallen by 37, 37, and 22 percent, respectively. Smaller declines occurred for ground-level ozone and nitrogen dioxide (6 and 14 percent, respectively).

Data on other air chemicals vary widely. Excellent data are available on emissions and concentrations of many of the greenhouse gases (particularly carbon dioxide) and stratospheric ozone destroyers. EPA presently monitors national ambient concentrations for few of the 188 air toxins identified in the Clean Air Act Amendments. Rather, the agency sets technology-based performance standards to control emissions of these substances. As a result, EPA has only begun developing a National Toxins Inventory.

Monetized Benefits of Clean Air Regulations

Although a great deal of work has been done on valuing components of air quality, there is currently no comprehensive measure of the economic impacts of air pollution for the United States. However, a recent EPA study evaluating the economic costs and benefits of clean air regulations provides a useful benchmark that sheds light on this issue (U.S. Environmental Protection Agency, 1997). The estimates given are subject to many uncertainties due to the difficulty of estimating exposure and the incidence of effects related to exposure and valuing the effects. In addition, data on air toxins have only recently become available, making it difficult to develop comparable estimates for these pollutants. The EPA study includes no physical or monetary assessments of the impacts of changes in air quality on ecosystem health, physical capital, or global public goods, such as slowing climate change and preventing ozone depletion. Moreover, many of the estimates of benefits, particularly those involving the valuation of health benefits and the discount rate, have been the subject of major criticism (see Clean Air Act Council on Compliance, 1997).

Notwithstanding these limitations, the EPA study provides an indication of the overall economic importance of changes in air quality, as well as a sense of the relative importance of the various air pollutants and the impacts on different sectors. The study estimates the economic benefit

of actual air pollution relative to a counterfactual baseline that assumes no controls imposed after 1970; roughly speaking, the counterfactual is for emissions to grow with the economy, rather than declining as described above. The major result presented is that the economic benefits of reduced air pollution in 1990 are estimated to be worth \$1,248 billion. Reduced mortality benefits (\$1,004 billion) account for 80 percent of this total; together, avoided human health effects account for 99 percent of the total. In addition, benefits of improved visibility are estimated at \$3.4 billion, those of reduced household soiling at \$4.0 billion, and those of increased agricultural income from reduced yield losses due to ozone at about \$1.0 billion. With regard to specific pollutants, most of the benefits are attributed to reductions in particulate matter (PM-10) and lead; the benefits of ozone reduction are estimated to be only on the order of \$2 billion.

Caution is warranted in drawing too many conclusions from these estimates and comparisons. Certain assumptions might have had the effect of exaggerating the economic benefits, and there are major uncertainties about the health impacts, particularly because of weaknesses in human exposure data. Moreover, the study omits some of the major effects of acid deposition on forests, lakes, and buildings, and the impact of tropospheric ozone on ecosystems is not valued. The figures presented should therefore be viewed as order-of-magnitude estimates. Even with all these qualifications, however, it appears that the economic impacts of air quality on human health are highly significant.

Air Quality Benefits and Supplemental Accounts

The estimates of the benefits of pollution control just discussed reflect the value of changes in the level of air pollutants resulting from proposed regulations. They are relevant for regulatory or cost-benefit purposes, but they are not the appropriate values for economic accounts. Production accounts should measure the damages associated with remaining levels of pollution, in terms of both production accounts and change in asset values. This difference between abatement and residual damage can be quantitatively large. For example, ozone concentrations fell only 6 percent between 1986 and 1995. As a result, regardless of the benefits of preventing higher levels of ozone than those of 1986, the value of changes in ozone concentrations over this period would be relatively small. In contrast, lead and PM-10 concentrations fell 78

and 22 percent, respectively, over the same period, and consequently the damages from these chemicals would be much smaller in 1995 than in 1986. In other words, whereas comprehensive consumption would have a substantial negative entry due to lead and PM-10 in 1986, the negative values would be of much smaller magnitude in 1995. The result might be a substantial increase in the estimate of growth of comprehensive consumption over this period.

As discussed earlier, air pollution affects production activities, assets, and nonmarket activities. Most of the estimates from the EPA study refer to the production accounts: days of work lost, shortness of breath and acute bronchitis, loss of visibility, and crop losses are effects on production activities. Crop losses and the output losses from lost work-days are already included implicitly in the accounts because these relate to market activities. Supplemental accounts that would identify these losses separately would serve to connect them specifically to air pollution. The estimates for shortness of breath and acute bronchitis include both damages that may already be reflected in the production accounts (i.e., reduced worker productivity while on the job) and damages that would be reflected only if the accounts were expanded to include household production (e.g., impacts on tennis and jogging). Many of the effects not estimated by EPA, such as those of acid deposition on forest health, freshwater quality, or ecosystem function, would also include effects on both market activities already in the accounts, such as timber or commercial fishing, and nonmarket goods, such as recreation.

Asset effects present greater complexity, as was seen above for the case of forests. Some impacts, such as those on soil or fish farms, would be reflected in the market value of these assets. Others, such as mortality and chronic bronchitis, are long-term effects on human resources. These effects would require adjustments in the asset accounts if a full set of asset accounts for human health and capital were constructed.

One particular concern arises if the accounts are to include the impact of air pollution on human health. The impact of air pollution and other environmental activities on human health is often taken out of the context of other health-related activities. If one were to track environmental trends alone, it might be concluded that until the 1970s, growing environmental problems were leading to a deterioration in the health status of Americans. This conclusion is, in fact, incorrect. Activities outside the environmental arena—including im-

proved sanitation, vaccinations, and public-health measures—led to improved life expectancy over the first seven decades of this century. It would therefore be misleading to enter only a large health negative into a set of augmented income accounts. The positives and negatives in the environmental entry in a set of health accounts would have to be placed in the context of the vast changes in health status of the American population.

Conclusions on Air Quality

The basic finding emerging from the above discussion is that air quality is likely to be a major nonmarket effect. While EPA's estimates of benefits of \$1.2 trillion per year due to reduced air pollution are highly uncertain, do not include all effects, and measure a somewhat different concept than would be appropriate for the accounts, it is likely that a realistic assessment of reduced damages due to improved air quality would yield a much larger figure than the \$27.1 billion in air pollution control expenditures used by BEA as a placeholder. In the panel's view, no other area of natural-resource and environmental accounting would have as great an impact as the potential correction from air quality. The magnitude of this impact indicates that the development of supplemental accounts for air quality is a high priority. Indeed, the overall review of augmented accounting in Chapter 2 reveals only a few areas close in importance, such as the value of leisure, health status, and nonmarket educational investments.

At the same time, air quality is a most elusive concept since it has so many different components. To include these effects in the accounts, several data and measurement obstacles must be overcome. First, determination of the physical impacts of changes in air quality, generally estimated through dose-response functions, should be focused on the effects of actual human exposure to air pollution. Second, the damage estimates must separate the market effects of changes in air quality that are currently captured in the accounts (lost productivity) from the nonmarket effects that are not currently captured (lost leisure activities). Third, there is a need for reliable and objective physical and monetary damage estimates associated with exposure to air pollutants, including air toxins, ozone depletors, and greenhouse gases. Fourth, significant data gaps with respect to the impacts of air pollution and changes in air quality on ecosystem health must be filled. And finally, the estimates must represent year-to-year changes,

rather than changes from a hypothetical level of pollution without regulations.

Developing a set of accounts in this area, along with the associated physical measures and valuations to apply to those measures, is a major long-run task for the nation. This task far transcends the scope and budget of BEA, and much of the necessary work lies outside BEA's specialized expertise. The task for the short run, therefore, is to continue basic research on the underlying science and economics of estimating the benefits of public goods such as clean air. Many years of concerted research are likely to be required before the materials for a set of augmented accounts in this area are available. But the payoff from the research would be large, not only in producing the raw materials for improved environmental accounts, but more important in providing the data and analysis needed for improved public policy concerning the environment. In short, the task of constructing environmental accounts for important public goods should be part of a more general goal of improving the nation's information and analytical systems in this area.

CONCLUSIONS AND RECOMMENDATIONS ON RENEWABLE AND ENVIRONMENTAL RESOURCES

General Approach

4.1 The panel recommends that BEA continue its work toward accounting for changes in natural-resource assets and for the flow of services from these assets.

Environmental variables affect economic well-being in three major ways: direct effects on consumption or income of households, industry, and government; accumulation in the environment of stocks of residuals that then affect economic activities or economic assets; and effects on the service flows of economic assets, including capital stock, natural resources, and human resources. The main value of natural-resource accounting is in providing a complete picture of the role these resources play in the economy. Sometimes this information can be used to judge the overall sustainability of the use of resources, while at other times it can be used to manage natural and environmental resources and to inform public policy choices.

Valuation

4.2 For valuation, the panel recommends that BEA rely primarily on market values or proxies of market

values that are based on actual behavior. Contingent valuation, while sometimes useful for other purposes, is currently of limited value for environmental accounting in the context of the economic accounts.

Valuing environmental goods and services requires distinguishing between private and public goods. Market prices provide the marginal valuations for private goods, but determining the value of public goods requires the summation of individual values. Moreover, there may be no behavioral traces for individual valuation of public goods.

Price data are relatively reliable for private market goods produced from forest and agricultural assets, such as timber stumpage, livestock, and land use and quality. Values for near-market goods—those that have direct counterparts in the market—can be constructed by comparing the near-market goods with their market counterparts, adjusting for quality as necessary. Techniques for valuation of public goods are still under development. Some techniques—such as hedonic or travel-cost studies—rely on behavioral or marketbased estimates; while these estimates are subject to significant measurement errors, they are conceptually appropriate in economic accounts. Other techniques, such as contingent valuation, are not based on actual behavior, are highly controversial, and are subject to potential response errors.

Quantitative Data

4.3 Quantitative data on many natural-resource assets are currently relatively adequate. However, the data on many environmental variables are at present poorly designed for the construction of environmental accounts. The panel recommends that greater emphasis be placed on measuring effects as directly as possible. Of particular importance are measures of actual human exposure to air and water pollutants, rather than modeled measures of exposure based on ambient pollutant levels at current monitoring sites.

Quantitative data for natural resources are often of high quality relative to the other quantitative data in the NIPA because there are well-established units of measure for many natural resources. Quantitative data on near-market activities such as fuel wood for own use are conceptually straightforward, and many of these data are currently collected by federal agencies. Measurement of nonmarket goods and services and explicit accounting for quality changes, particularly for those that have public-good characteristics, are currently subject to severe methodological difficulties and

insufficient data. There are relatively good data on emissions of many residuals from industrial and human activities, but for most harmful pollutants except lead there is very little systematic monitoring of human exposures.

Inclusion of Public Goods

4.4 The panel finds that more work will be needed on techniques for establishing production flows and values for the assets and services of public goods to place them on a comparable basis with the prices and quantities used in the core accounts.

True public goods, for example biodiversity, species preservation, and national treasures such as the Florida Everglades and Yellowstone National Park, present severe conceptual and measurement issues for incorporation into a national accounting system.

Data Collection

4.5 The panel encourages BEA to help mount a concerted federal effort to identify the data needed for measuring changes in the quantity and quality of natural-resource and environmental assets and associated nonmarket service flows.

Many different federal agencies collect data or have expertise that will be essential to BEA, particularly as its efforts expand to include Phase III assets and associated flows. BEA already cooperates with other agencies in collecting data for the core accounts; supplemental environmental accounts will require cooperation with, for example, the Environmental Protection Agency, the Department of Agriculture, the Department of the Interior, the Bureau of Labor Statistics, the Bureau of the Census, the Energy Information Administration, the National Institute of Environmental Health Sciences, and the Department of Health and Human Services.

Regional Resolution

4.6 The panel recommends BEA focus on developing supplemental accounts for the nation as a whole as a first priority. At the same time, BEA should preserve regional detail where it exists so that these data are available for analysts interested in developing accounts at the regional level.

The development of national estimates will require sampling, measurement, and valuation techniques that reflect the fact that the quality and value of natural-resource assets and associated flows vary geographically. While some assets and flows may not be important to the national economy, they could be far more important to regional and local economies.

Next Steps

4.7 The panel recommends that funds be provided to reinitiate and improve the design of the collection of data on pollution control and abatement expenditures.

4.8 As BEA further develops its natural-resource and environmental accounts, an important step is to incorporate near-market goods and services—those that have close counterparts in marketed goods and services. There is a clear basis here for measuring quantities and establishing values in a manner comparable to that used for the core accounts.

4.9 Construction of a set of forest accounts is a natural step in developing integrated economic-environmental accounts. The United States has much of the data needed for such an effort, and the analytical techniques are relatively well developed.

4.10 Based on available information, the economic impacts of air quality are likely to be the most significant element in the environmental accounts; development of such accounts is a central task for environmental accounting. At the same time, because of the unresolved conceptual issues and the need for appropriate physical measures, the development of stock and flow accounts for air quality and other important public goods poses awesome difficulties. This task far transcends the scope, budget, and expertise of BEA. A major goal for the near term is to continue basic research on the underlying science and economics in this area.

References

Anderson, R., and M. Rockel. 1991. Economic Valuation of Wetlands. Discussion Paper #65, American Petroleum Institute. Washington, DC.

Arrow, K., R. Solow, P. Portney, E. Leamer, R. Radner, and H. Schuman. 1993. Report of the National Oceanographic and Atmospheric Administration Panel on Contingent Valuation. Federal Register (January) 58:4601–4614.

Berck, P. 1979. The economics of timber: A renewable resource in the long run. *Bell Journal of Economics* 10:447–462.

Binkley, C.S., and J.R. Vincent. 1988. Timber prices in the U.S. South: Past trends and outlook for the future. *Southern Journal of Applied Forestry* 12:15–18.

Birdsey; R.A., and L.S. Heath. 1995. Carbon changes in U.S. forests. 70 pp. in L. Joyce, ed., *Productivity of American Forests and Climate Change*.

General Technical Report RM-271, USDA FS Pub., Rocky Mountain Forest and Range Experimental Station, Fort Collins, CO.

Bowes, M., J. Krutilla, and T. Stockton. 1984. Forest management for increased timber and water yields. *Water Resources Research* 20:655–663.

Braden, J.B., and C.D. Kolstad, eds. 1991. Measuring the Demand for Environmental Quality. Amsterdam: North-Holland, Elsevier Publishers B.V.

Brown, S. 1996. Managing forests for mitigation of greenhouse gases. Pp. 773–778 in R.T. Watson, M.C. Zinyowera, and R.M. Moss, eds., Climate Change 1995: Impacts, Adaptations, and Mitigation of Climate: Scientific and Technical Analyses. Published for the Intergovernmental Panel on Climate Change. Cambridge: Cambridge University Press.

Bruce, J.P., H. Lee, and E.H. Haites, eds. 1996. Climate Change 1995: Economic and Social Dimensions. Published for the Intergovernmental Panel on Climate Change. Cambridge, U.K.: Cambridge University Press.

Bureau of Economic Analysis. 1994a. Integrated economic and environmental satellite accounts. Survey of Current Business April: 33–49.

Bureau of Economic Analysis. 1994b. Accounting for mineral resources. Survey of Current Business April: 50–72.

Clawson, M. 1979. Forests in the long sweep of American history. *Science* 204:1168–1174.

Clean Air Act Council on Compliance. 1997. Report of the Clean Air Act Council on Compliance. Letter report to the EPA Administrator, private communication.

Cornes, R., and T. Sandler. 1986. The Theory of Externalities, Public Goods, and Club Goods. New York: Cambridge University Press.

Costanza, R., R. d'Arge, R. de Groot, F. Farber, M. Grasso, B. Hannon, K. Limburg, S. Naeem, R.V. O'Neill, J. Pervello, R.Q. Raskin, P. Sutton, and M. Van den Belt. 1997. The value of the world's ecosystem services and natural capital. *Nature* (May) 387:253–260.

Diamond, P.A., and J.A. Hausman. 1994. Contingent valuation: Is some number better than no number? *Journal of Economic Perspectives* 8(4):45–64.

Green, I.M., C. Folke, K. Turner, and I. Mateman. 1994. Primary and secondary valuation of wetland ecosystems. *Environmental and Resource Economics* 4:55–74.

Hanemann, W.M. 1994. Valuing the environment through contingent valuation. *Journal of Economic Perspectives* 8(4):19-43.

Howell, S.L. 1996. A review of the conceptual and methodological issues in accounting for forests. In *Proceedings of Third Meeting of the London Group on Natural Resource and Environmental Accounting.* Stockholm: Statistics Sweden.

Lyon, K.S. 1981. Mining of the forest and the time path of the price of timber. Journal of Environmental Economics and Management 8:330-344.

Mitchell, R.C., and R.T. Carson. 1989. Using Surveys To Value Public Goods: The Contingent Valuation Method. Washington, D.C.: Resources for the Future.

Pearce, D.W., W.R. Cline, A.N. Achanta, S. Fankhauser, R.K. Pachauri, R.S.J. Tol, and P. Vellinga. 1996. The social costs of climate change: Greenhouse damage and the benefits of control. Pp. 145–178 in J.P. Bruce, H. Lee, and E.H. Haites, eds., Climate Change 1995: Economic and Social Dimensions. Cambridge, U.K: Cambridge University Press for the Intergovernmental Panel on Climate Change.

Portney, P.R. 1994. The contingent valuation debate: Why economists should care. *Journal of Economic Perspectives* 8(4):3–17.

Randall, A., and J. Stoll. 1983. Existence value in a total valuation framework. In R. Rowe and L. Chestnut, eds.,

Managing Air Quality and Scenic Resources at National Parks and Wilderness Areas. Boulder, CO: Westview Press.

Samuelson, P.A. 1954. The pure theory of public goods. *The Review of Economics and Statistics* 36(4):387–389.

Samuelson, P.A. 1955. Diagrammatic exposition of a theory of public expenditure. *The Review of Economics and Statistics* 37(4):350–356.

Sedjo, R. 1990. The Nation's Forest Resources. Discussion Paper ENR 90–07. Washington, DC: Resources for the Future.

Sedjo, R.A., and K.S. Lyon. 1990. The Long-Term Adequacy of World Timber Supply. Washington, DC: Johns Hopkins University Press.

Smith, V.K. 1993. Nonmarket valuation of environmental resources: An interpretive appraisal. *Land Economics* 69(1):1–26.

U.S. Department of Agriculture Forest Service. 1995. Chapter 4, Socioeconomic Effects and Implications of the Proposed Program, 1995 draft RPA program.

http://www.fs.fed.us/land/RPA/chapt4.htm.

U.S. Environmental Protection Agency. 1996. National Air Quality and Emissions Trend Report, 1995. EPA 454–R–96–015 Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

U.S. Environmental Protection Agency. 1997. The Benefits and Costs of the Clean Air Act, 1970 to 1990. Draft, April. Office of Air and Radiation/Office of Policy Analysis and Review/Office of Policy, Planning, and Evaluation.

Vincent, J. 1997. Net Accumulation of Timber Resources. Manuscript, Harvard Insti-

tute for International Development, Cambridge, MA.

Vincent, J., and J.M. Hartwick. 1997. Accounting for the Benefits of Forest Resources: Concepts and Experience. Draft, July 10. FAO Forestry Department.

Washburn, C.L. 1990. The Determinants of Forest Value in the U.S. South. Ph.D. thesis, Yale University.

Errata

Industrial Composition of State Earnings in 1958–98

Tables 1–3 in the February 2000 SURVEY OF CURRENT BUSINESS article "Industrial Composition of State Earnings in 1958–98" contained errors. The corrected tables follow. The text of the article is not affected by this correction.

Table 1.—Industry Shares of Earnings, 1998
[Percentage points]

| | Farms | Agricultural services, forestry, and fishing | Mining | Construction | Manu- facturing | Transportation and public utilities | Wholesale trade | Retail trade | Finance, insurance, and real estate | Services | Govern- ment |
|----------------------------|------------|---|--------------|--------------|--------------------|-------------------------------------|--------------------|-----------------|--|--------------|-----------------|
| United States | 0.8 | 0.7 | 0.9 | 5.9 | 17.4 | 6.8 | 6.4 | 9.1 | 8.9 | 28.8 | 14.4 |
| Alabama | 1.8 | .6 | 1.0 | 6.4 | 21.1 | 6.5 | 5.8 | 9.6 | 5.9 | 23.6 | 17.7 |
| Alaska | 1 1 | 1.7 | 7.6 | 7.5 | 4.6 | 10.7 | 3.1 | 9.7 | 4.1 | 21.9 | 28.9 |
| Arizona | .9 | 1.0 | .9 | 7.5 | 13.9 | 5.8 8.2 | 6.5 | 10.8 | 9.1 | 29.2 | 14.5 |
| Arkansas California | 4.2 1.2 | .8 1.1 | .5 .3 | 5.9 5.4 | 22.3 15.7 | 6.2 6.2 | 5.2 6.2 | 11.4 8.9 | 5.0 8.7 | 21.6 32.3 | 14.8 14.0 |
| Colorado | 1.5 | ':ֹּד | 1.8 | 7.9 | 11.5 | 9.6 | 6.0 | 9.4 | 8.4 | 29.7 | 14.0 |
| Connecticut | 2 | l .;i | .1 | 4.7 | 20.2 | 5.3 | 6.5 | 7.8 | 13.8 | 30.3 | 10.6 |
| Delaware | .8 | . <u>.</u> 4 | 0 | 6.8 | 25.7 | 4.4 | 3.8 | 8.2 | 14.2 | 23.7 | 11.8 |
| District of Columbia | 0 | .8 | 0 | 1.2 | 2.8 | 3.3 | .9 | 2.5 | 6.2 | 43.2 | 39.1 |
| Florida | .9 | 1.0 | .2 | 6.1 | 8.6 | 6.6 | 6.7 | 11.4 | 9.6 | 34.0 | 14.8 |
| Georgia | 1.5 | .6 | .3 | 5.9 | 15.8 | 9.6 | 8.9 | 9.2 | 7.6 | 26.3 | 14.3 |
| Hawaii | .8 3.5 | .7 | .1 | 6.2 8.5 | 3.6 | 8.3 6.9 | 3.7 | 12.0 | 8.2 | 31.1 | 25.3 16.1 |
| IdahoIllinois | 3.5 | 1.4 | 1.0 .3 | 5.5 | 17.5 19.1 | 7.3 | 5.6 7.2 | 10.9 8.0 | 5.2 10.3 | 23.4 29.4 | 11.9 |
| Indiana | 7 | .5 | .4 | 6.8 | 31.2 | l 6.0 | 5.7 | 9.2 | 6.0 | 21.8 | 11.7 |
| lowa | 4.3 | 8. | . <u>.</u> 2 | 6.4 | 21.4 | 6.2 | 6.9 | 9.4 | 7.7 | 22.3 | 14.5 |
| Kansas | 2.7 | .71 | 1.0 | 6.2 | 18.8 | 7.7 | 7.4 | 9.9 | 6.1 | 23.9 | 15.7 |
| Kentucky | 2.4 | .7 | 2.3 | 6.0 | 21.6 | 7.7 | 5.5 | 10.2 | 5.1 | 22.7 | 15.7 |
| Louisiana | .6 | .5 | 5.3 | 8.1 | 13.6 | 7.8 | 5.7 | 9.4 | 5.4 | 26.9 | 16.7 |
| Maine | .5 | 1.1 | 0, | 6.8 | 17.9 | 6.0 | 5.3 | 12.0 | 6.8 | 27.7 | 16.0 |
| Maryland | .4 | .6 | .1 | 6.9 | 9.0 | 5.7 | 5.6 | 9.4 | 8.3 | 33.3 | 20.8 |
| Massachusetts | .1 .2 | .5 .5 | .1 .2 | 4.9 5.6 | 16.8 31.3 | 5.4 5.0 | 6.8 6.5 | 8.4 8.4 | 10.5 5.6 | 35.5 24.3 | 11.0 12.3 |
| Michigan | 8. | | .5 | 6.1 | 20.8 | 6.4 | 7.9 | 9.2 | 8.8 | 24.3 26.7 | 12.2 |
| Mississippi | 2.4 | .5 .7 | .9 | 6.6 | 21.5 | l 6.5 | 4.9 | 10.2 | 4.6 | 23.0 | 18.7 |
| Missouri | <u></u> 3 | l .5 | .3 | 6.6 | 19.0 | 8.4 | 6.9 | 9.5 | 7.8 | 27.2 | 13.5 |
| Montana | .8 | 9.9 | 2.4 | 8.3 | 8.1 | 8.0 | 5.3 | 12.7 | 5.9 | 28.0 | 19.4 |
| Nebraska | 5.5 | 1.1 | .2 | 6.2 | 14.0 | 9.0 | 6.6 | 9.0 | 7.4 | 25.5 | 15.5 |
| Nevada | .3 | .7 | 2.2 | 11.8 | 4.7 | 5.7 | 4.4 | 9.8 | 7.4 | 40.3 | 12.7 |
| New Hampshire | .2 | .6 | .1 | 6.3 | 22.5 | 6.0 | 7.1 | 11.7 | 7.2 | 27.7 31.1 | 10.7 |
| New Mayica | .1 1.5 | .4 .7 | .1 3.3 | 4.4 7.1 | 15.2 7.8 | 8.5 6.0 | 9.0 4.2 | 7.8 11.4 | 9.6 5.2 | 28.3 | 13.7 24.5 |
| New Mexico New York | 1.3 | .3 | 3.3 | 3.7 | 11.9 | 5.9 | 5.8 | 6.7 | 20.1 | 31.8 | 13.6 |
| North Carolina | 1.9 | .6 | .2 | l 6.9 | 23.1 | 6.1 | 6.1 | 9.6 | 6.8 | 22.9 | 15.7 |
| North Dakota | 6.0 | 8. | 2.0 | 7.0 | 8.2 | 8.4 | 8.2 | 10.0 | 5.7 | 25.5 | 18.2 |
| Ohio | .5 | .5 | .4 | 5.7 | 26.2 | 5.7 | 6.8 | 9.4 | 6.8 | 25.3 | 12.7 |
| Oklahoma | .7 | .5 | 4.7 | 5.1 | 16.2 | 8.3 | 5.2 | 10.0 | 5.4 | 25.6 | 18.2 |
| Oregon | 1.0 | .9 | .1 | 7.4 | 19.2 | 6.3 | 7.4 | 10.9 | 6.9 | 25.8 | 14.1 |
| Pennsylvania | .4 | .5 .7 | .7 | 5.7 5.0 | 20.4 18.3 | 6.9 5.2 | 5.8 5.0 | 9.2 9.3 | 8.0 8.2 | 30.4 32.2 | 12.1 15.8 |
| Rhode IslandSouth Carolina | .2 .6 | 1 : | .1 | 7.3 | 23.6 | 5.2 5.4 | 5.0 | 11.1 | 5.7 | 32.2 22.4 | 17.8 |
| South Dakota | 7.4 | 12 | i. 8. | 6.4 | 14.2 | 6.4 | 6.1 | 10.6 | 6.9 | 24.8 | 15.0 |
| Tennessee | | 1.2 .5 | .3 | 6.4 | 21.0 | 7.7 | 6.6 | 10.7 | 6.6 | 27.5 | 12.5 |
| Texas | .2 .7 | .6 | 4.3 | 6.4 | 16.2 | 9.1 | 6.9 | 8.9 | 7.2 | 26.4 | 13.3 |
| Utah | .7 | .4 | 1.3 | 8.1 | 14.3 | 7.4 | 5.9 | 10.7 | 7.8 | 27.5 | 16.0 |
| Vermont | 1.7 | <u>.7</u> | .3 | 7.3 | 20.2 | 5.8 | 4.9 | 10.4 | 5.6 | 28.4 | 14.7 |
| Virginia | .3 | .5 | .5 | 6.1 | 12.7 | 7.0 | 5.4 | 8.6 | 7.3 | 30.7 | 20.9 |
| Washington | 1.1 | 1.0 | .2 | 6.4 | 16.4 | 7.0 | 6.1 | 9.3 | 6.4 | 30.3 | 15.7 |
| West Virginia | 0 _ | .4 | 6.5 | 6.2 | 15.5 | 7.8 | 4.9 | 10.0 | 4.2 | 25.7 | 18.8 |
| Wisconsin | .5 4 | .6 | .2 15.8 | 6.5 8.6 | 27.8 5.6 | 5.9 8.9 | 6.3 3.6 | 9.0 10.4 | 6.9 4.7 | 23.4 19.4 | 13.0 22.4 |
| Wyoming | 4 | ۰. | 10.0 | 0.0 | 5.0 | 0.9 | 3.0 | 10.4 | l 4./ | 13.4 | 22.4 |

Table 2.—Difference between State and U.S. Industry Shares of Earnings, 1998
[Percentage points]

| | | | | | • | · · | <u>. </u> | | | | | | |
|--|--|---|---|---|--|--|---|---|--|---|---|--|--|
| | 1998 similarity index | Farms | Agri- cultural services, forestry, and fishing | Mining | Con- struction | Manu- facturing | Trans- portation and public utilities | Whole- sale trade | Retail trade | Finance, insur- ance, and real estate | Services | Govern- ment | Population |
| California Washington Arizona Pennsylvania Missouri Illinois Minnesota Rhode Island Georgia Maine Utah Oregon Texas Tennessee Vermont Colorado New Jersey Kansas Virginia Massachusetts Nebraska New Hampshire Iowa Alabama Connecticut Ohio North Carolina Florida Idaho South Dakota Oklahoma Louisiana Kentucky Wisconsin Mississippi Maryland West Virginia Arkansas South Carolina Michigan Michigan Michigan Michigan Michigan Michigan Michigan Michigan Michigan Montana New York Delaware Indiana North Dakota | 91.5 91.3 90.7 90.3 90.3 90.3 88.2 87.2 87.0 86.8 86.3 86.3 86.3 86.3 81.9 81.6 82.3 82.3 81.9 81.6 80.3 79.9 78.0 78.0 78.0 78.0 78.0 78.0 78.0 78.0 | 0.4 3.1 1.5 1.6 1.6 1.9 1.1 1.6 - | 4,3,3,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4 | 67 246648694846698148787185771184447 8648758951483799 010111111111111111111111111111111111 | -0.5.6.6.7.7.4.2.9.9.9.2.1.5.5.5.4.2.2.5.5.2.2.0.9.4.5.5.2.2.2.6.5.8.2.1.6.7.0.3.0.4.4.2.2.9.9.1.1.2.3.9.6.7.7.7.7.7.2.2.5.8.2.1.6.7.0.3.0.4.3.4.2.2.9.9.1.1.2.3.9.6.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7 | -1.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 | 6.9.0.1.6.5.4.6.8.8.6.53.9.0.8.7.9.0.4.2.8.6.9.5.1.7.2.1.4.5.0.9.9.3.1.0.4.4.8.2.9.4.8.6.8.5.1.9.1.5. | 27 - 65 & 5 45 15 5 5 6 6 5 46 5 5 40 5 5 6 5 40 7 5 6 5 4 7 8 8 7 2 7 9 1 5 8 5 2 2 1 1 1 6 6 7 8 2 7 2 9 8 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Q.2.7.1.4.1.2.7.2.96.8.1.2.2.7.6.3.5.3.5.3.5.3.5.3.5.3.5.3.5.3.5.3.5.3 | 수입 1 1 1 7 7 1 1 1 0 7 3 3 5 7 8 6 6 5 7 7 20 9 4 1 1 7 7 5 8 8 0 3 6 7 9 2 3 9 2 2 3 9 2 7 7 5 8 2 4 2 7 7 5 9 2 7 7 5 9 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 5 8 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | \$5.5.4.66.66.14.51.39.44.34.9.39.99.73.1-524.55.92.46.24.91.44.58.91.03.53.53.59.44. \$1.4.54.1.39.4.1.1.24.69.1.49.55.49.1.49.55.49.1.49.45.89.1.23.59.44. | 0431-39-95-94-1-663-1-9-34-7-35-34-1-3-3-3-1-3-3-1-3-3-3-3-1-3-3-3-3-3-1-3 | 32,682,794 5,687,832 5,687,832 12,082,329 5,437,562 12,089,774 4,726,411 987,704 7,636,522 1,247,554 2,100,562 3,282,055 19,712,389 5,432,679 590,579 8,095,542 2,683,667 8,095,542 2,683,667 8,095,542 2,683,667 1,185,823 2,861,025 4,351,037 1,185,823 1,237,752 7,545,828 14,908,230 11,237,752 7,545,828 14,908,230 11,230,923 730,789 3,339,478 4,362,758 3,394,310 5,222,124 2,133 5,130,072 1,811,688 2,538,202 3,839,578 9,820,231 8,795,33 18,159,175 744,066 5,07,617 637,808 1,733,535 1,130,472 1,743,772 615,205 480,045 521,426 |

NOTE.—Industry shares are sorted based on the 1998 similarity index.

Table 3.—Change in Industry Shares of Earnings, 1958–98

[Percentage points]

| | Change in the similarity index | Farms | Agricultural services, forestry, and fishing | Mining | Con- struction | Manu- facturing | Transpor- tation and public utilities | Whole- sale trade | Retail trade | Finance, insurance, and real estate | Services | Govern- ment |
|----------------------|---|----------------|---|-----------------|-------------------|--------------------|---|-------------------------|-----------------|--|--------------|--------------------|
| United States | | -4.5 | 0.3 | -0.7 | -0.3 | -11.3 | -1.0 | 0.1 | -2.8 | 4.0 | 15.7 | 0.6 |
| South Dakota | 41.2 | -24.4 | .6 | - .5 | .5 | 7.7 | .5 | .4 | -2.5 | 3.7 | 15.2 | -1.4 |
| Alaska | 34.8 | 2 | -1.4 | 5.7 | -6.8 | -1.9 | 4.5 | .8 | 2.5 | 1.9 | 14.6 | -19.9 |
| North Dakota | 30.7 | -26.7 | .3 | .3 | .2 | 4.4 | 0 | 1.5 | -3.8 | 2.4 | 16.1 | 5.2 |
| Arizona | 26.1 | -6.4 | .5 | -4.1 | -2.6 | 1.0 | -1.5 | 1.4 | -3.5 | 4.3 | 15.7 | – 4.7 |
| Nebraska | 20.8 | -16.3 | .5 .6 .5 | 4 | .3 | .7 | 7 | .5 | -3.6 | 2.5 | 14.6 | 1.7 |
| Nevada | 19.9 | -3.7 | .5 | – .8 | 3.8 | 6 | -2.3 | 1.5 | -4.1 | 3.7 | 7.7 | -5.7 |
| New Mexico | 19.9 | -6.7 | .4 | -5.3 | -1.2 | 1.7 | -1.8 | .3 .7 | 2 | 1.8 | 12.0 | 9 |
| Montanai | 19.6 | -20.4 | .6 | -2.3 | 1.7 | -2.0 | -2.0 | | 5 | 2.7 | 16.7 | 4.6 |
| lowa | 18.8 | -18.3 -13.9 | .1 1.1 | 2 1.3 | .8 | 1.1 2.9 | -1.1 -1.6 | .8 .9 | -3.3 -2.8 | 3.4 1.8 | 11.9 11.5 | 4.9 1.4 |
| Idaho Utah | 17.2 17.1 | -13.5 -3.5 | 1.3 | -5.2 | .1 .4 | -1.9 | -1.0 -2.2 | 7 | -2.0 -1.4 | 3.5 | 15.0 | -4.0 |
| Oklahoma | 16.0 | -9.1 | .1 | -5.0 | -1.0 | 2.5 | 3.3 | , 6 | -2.0 | 1.4 | 14.0 | — - .7 |
| Florida | 15.8 | 4.9 | | 4 | -3.7 | -3.5 | -1.1 | 4 | -2.6 -3.6 | 3.4 | 16.1 | -2.2 |
| Kansas | 14.0 | -12.1 | .2 .4 .3 | -2.3 | ŏ., | 6 | -1.2 | 2.7 | -2.7 | 2.2 | 13.5 | .2 |
| Colorado | 13.3 | -5.5 | .3 | -1.3 | – .7 | -3.5 | l | 8 | -3.8 | 3.0 | 16.0 | -4.2 |
| Hawaii | 12.7 | -5.6 | .4 | Ó | _ <u>.</u> 7 | -6.4 | 1.1 | -1.6 | 1.4 | 3.7 | 18.8 | -11.0 |
| Connecticut | 12.6 | -1.3 | .1 | 0 | -2.4 | -21.9 | .2 | 2.0 | -3.6 | 7.6 | 17.5 | 1.7 |
| Rhode Island | 12.4 | 5 | .3 | 0 | 4 | -16.8 | 5 | 8 | -2.0 | 3.6 | 20.8 | -3.7 |
| Pennsylvania | 11.0 | -1.7 | .3 | -1.4 | 0 | -17.2 | -1.5 | 4 | -2.4 | 3.8 | 18.3 | 2.3 |
| Virginia | 10.3 | -5.1 | 0_ | 9 | 1 | -6.8 | -1.0 | 1.2 | -2.8 | 3.3 | 18.6 | -6.3 |
| Texas | 10.2 | -6.9 | .3 | -2.8 | - <u>.2</u> | 2.0 | .8 | 0 1 | -3.8 | 2.6 | 14.3 | -2.3 |
| Minnesota | 10.0 | -10.7 | .1 | -1.4 | 5 | -1.4 | -2.6 | .2 | -3.1 | 3.5 | 14.9 | 1.0 |
| West Virginia | 9.6 | -2.8 -3.6 | .2 | -9.7 0 | 1.2 | -11.7 -9.0 | -2.4 | .6 7 | 7 -3.4 | 1.4 1.4 | 15.6 | 8.4 |
| Washington | 5.8 l 5.3 | -2.1 | .1 .2 | 3 | 6 6 | -9.0 -14.7 | 3 -1.7 | 1.4 | -1.9 | 2.9 | 18.7 14.1 | _2.7 2.9 |
| Ohio New Jersey | 5.3 5.2 | -1.3 | .1 | 3 1 | -1.6 | -14.7 -23.4 | -i./ 8. | 3.3 | -1.9 -3.7 | 4.9 | 18.1 | 2.9 |
| Arkansas | 4.4 | -11.5 | .3 | -1.4 | -1.0 | 4.4 | 2 2 | .3 | -2.3 | 1.2 | 9.5 | 6 |
| Louisiana | 4.3 | -11.3 -4.2 | .3 –.1 | -2.1 | ا'ن | -4.0 | -2.2 | 6 | -3.0 | l i.i | 13.9 | 1.3 |
| Missouri | 4.2 | -7.6 | اوُ | 3 | .8 | -7.6 | -1.5 | 9 9 | -3.0 | 2.8 | 14.5 | 2.5 |
| California | 4.1 | -3.ž | .2 .5 | 4 | -1.4 | -9.2 | | 0.0 | -3.8 | 3.7 | 17.2 | -2.5 |
| Illinois | 3.8 | -3.8 | .3 | 7 | -1.0 | -13.9 | -1.Ž | – .3 | -3.4 | 5.0 | 16.4 | 2.4 |
| Georgia | 3.4 | -5.9 | 1 | 1 | .4 | -7.9 | 2.0 | 1.0 | -2.7 | 3.0 | 13.6 | -3.3 |
| Maine | 2.9 | -7.2 | 4 | 1 | 1.1 | -11.4 | -1.2 | 3 | .8 | 3.4 | 17.0 | -1.6 |
| Mississippi | 2.8 | -11.9 | 0 | 8 | .9 | 1.0 | .1 | .2 | -2.7 | 1.4 | 9.7 | 2.1 |
| New Hampshire | 1.9 | -2.6 | .2 | 0 | 5 | -14.4 | .2 | 3.1 | -1.2 | 2.8 | 14.6 | -2.1 |
| Wisconsin | 1.3 | 7.0 | .2 .3 .3 | 1 | .4 | -9.5 | -7 | .8 | -3.8 | 3.1 | 13.4 | 3.2 |
| Michigan | 1.2 | -2.4 | .3 | 4 | .2 | -12.0 | -1.0 | 1.4 | -2.9 | 1.8 | 13.0 | 1.8 |
| Kentucky | .9 | -8.2 | .4 | -2.9 | 0 0 | 6 | 7 | .9 | -2.5 | 1.3 | 11.3 | .8 |
| Massachusetts | .6 | 7 | 0 0 | 0 | 8 | -18.2 | 7 | .2 .8 | -3.3 2.1 | 4.7 1.5 | 20.8 | -2.1 |
| Vermont | .4 .2 | -9.4 | .2 | 8 0 | .4 2 | -6.3 -16.9 | 1.5 2.0 | .9 .9 | -2.1 -2.0 | 10.7 | 15.7 | 1.3 |
| Delaware | -1.1 | -3.4 0 | 1 .4 | ŏ | -2.9 -2.9 | -10.9 -1.8 | -2.0 -3.7 | -4.0 | 2.0 6.5 | 10.7 | 12.6 25.5 | ا‱ا |
| District of Columbia | | -6.2 | .1 | - .7 | -2.9 | -1.0 -5.0 | 3./ 3 | 4.0 .3 | 0.5 1.6 | 2.2 | 11.6 | .2 -8.8 -1.2 |
| Alabama | -2.2 -2.4 | -5.6 | .2 | -0.2 | .7 | -6.2 | -2.8 | , 9 | -1.0 -2.8 | 2.3 | 12.9 | .5 |
| North Carolina | -2.7 -2.7 | -0.0 -9.7 | .1 | 0.2 | 1.8 | -6.6 | -2.0 | .1 | -1.8 | 3.2 | 11.3 | ë. |
| Wyoming | -3.1 | -13.9 | .6 | 5.7 | 7 | -1.9 | -2.7 | -:1 | -1.9 | 1.9 | 7.9 | 5.1 |
| Indiana | -4.8 | -5.4 | .š | - .4 | ļ <u>;</u> | -9.2 | -1.2 | | -2.3 | 2.0 | 12.2 | 2.3 |
| South Carolina | -5.1 | -7.0 | .2 | 1 | 1.4 | -7.2 | .4 | 1.0 | 9 | 2.4 | 11.7 | -2.0 |
| Tennessee | -6.5 | -7.3 | .3 .2 .2 .1 | 4 | .9 | -7.3 | .7 | 7 | -1.5 | 2.4 | 14.2 | -1.2 |
| Maryland | -7.1 | -2.1 | | 2 | .1 | -18.3 | -2.1 | .9 | -2.6 | 4.1 | 21.0 | 8 |
| New York | -7.7 | -1.1 | .1 | 1 | -1.5 | -17.8 | -2.8 | -2.6 | -4.0 | 12.3 | 15.2 | 2.3 |

Note.—Industry shares are sorted based on the change in the similarity index.

An Examination of the Low Rates of Return of Foreign-Owned U.S. Companies

By Raymond J. Mataloni, Jr.

Mahnaz Fahim-Nader assisted in the development of the estimates presented in this article. This article also benefited significantly from comments by four reviewers from outside BEA-Harry Grubert, David Laster, Robert McCauley, and Deborah Swenson.

LONGSTANDING QUESTION about foreign-A owned U.S. companies is why their rates of return have been consistently below those of other U.S. companies. Previous research by the Bureau of Economic Analysis (BEA) and others has examined this issue. This article builds upon these earlier efforts by providing new estimates of the rate of return for foreign-owned U.S. nonfinancial companies that are disaggregated by industry and valued in current-period prices for the years 1988–97. The new estimates, along with companylevel estimates for foreign-owned companies and industry-level estimates for U.S.-owned nonfinancial U.S. companies, are used to examine factors that help explain the low rates of return. The article extends the previous research by providing the first detailed examination of industry-mix effects and by identifying and quantifying the importance of market share.

The rate of return measure used in this article is the return on assets (ROA), defined as the ratio of "profits from current production" plus interest paid to the average of beginning- and end-of-year total assets.² Profits from current production are profits that result from the production of goods and services in the current period. Both profits and assets are valued in prices of the current period. Profits reflect the value of inventory withdrawals and depreciation on a current-cost basis; they have been adjusted to remove the income from equity

investments in unconsolidated businesses and the expense associated with amortizing intangible assets. Total assets reflect the current cost of tangible assets; they have been adjusted to remove assets for which the return is not included in the numerator of the ROA ratio—namely, equity investments in unconsolidated businesses and amortizable intangible assets. (See the technical note for details on the construction of the ROA measure.)

The new ROA estimates for foreign-owned companies and U.S.-owned companies indicate the following:

- The new current-cost estimates show that the average ROA of foreign-owned companies in 1988-97 was 5.1 percent. In contrast, the historical-cost estimates show an average ROA of 5.7 percent.
- The ROA of all foreign-owned nonfinancial companies was consistently below that of U.S.-owned nonfinancial companies in 1988–97, but the gap narrowed over time, from nearly two percentage points in 1988 to one percentage point in 1997. The narrowing of the gap appears to be related to age effects: Acquiring or establishing a new business can add costs, such as startup costs, that disappear over time; additionally, experience can yield benefits, such as learning by doing, that accumulate over time.
- The average ROA's for foreign-owned companies less the average ROA for U.S.-owned companies ranged from -8.3 percentage points in rubber and miscellaneous plastics manufacturing to +10.2 percentage points in "other" manufacturing. The average ROA of foreign-owned companies in 1988–97 was below that of U.S.-owned companies in 22 of 30 nonfinancial industries. The pervasiveness of the negative gaps suggests that differences in the industrial distribution of operations are not a major reason for the all-industries gap. More formal analysis confirms that only a small portion of the gap was attributable to the

^{1.} In this article, "foreign-owned U.S. companies" refer to U.S. affiliates of foreign companies as defined for BEA's surveys of foreign direct investment in the United States. A U.S. affiliate is a U.S. business enterprise that is owned 10 percent or more, directly or indirectly, by a foreign person.

^{2.} This profitability measure differs in two respects from the measure for all domestic nonfinancial corporations that BEA presented in the June 1999 issue of the SURVEY OF CURRENT BUSINESS [21]. First, the numerator uses gross rather than net interest paid. Gross interest is used so that the numerator reflects the actual return to the investors who provide the debt financing, as well as those who provide the equity financing, of foreign-owned companies' total assets. Second, the denominator uses total assets rather than tangible assets. Total assets is used here because it is a more appropriate measure for examining a small subset of domestic companies—in this case, domestic companies that are foreign owned. When the profitability of all domestic nonfinancial corporations is measured, tangible assets is more appropriate because financial claims and liabilities largely cancel out; however, this is not the case when the profitability of a much smaller group of companies is measured. Furthermore, if only tangible assets were used for the denominator, the industry-level profitability measures would vary simply because the degree to which tangible assets are used in production varies across industries.

tendency for foreign-owned companies to be concentrated in low-profit industries.

- The median ROA of foreign-owned companies with a market share of 30 percent or more in 1992 was virtually identical to that of U.S.owned companies, whereas the median ROA of those with a market share of less than 20 percent was 2 percentage points below that of U.S.-owned companies.
- A comparison of the ROA's of foreign-owned companies with different propensities to import from their foreign parent companies yields only weak and inconsistent evidence that foreign-owned companies shift profits out of the United States using transfer prices. Statistical tests indicate a significant negative relationship between foreign-owned companies' ROA and the intrafirm-import content of their sales in only 2 of the 10 years studied.

The first part of this article presents the new industry-level ROA estimates for foreign-owned companies and compares them with estimates for U.S.-owned companies. The second part examines the low ROA for foreign-owned companies using estimates for foreign-owned companies at both the industry and the company level. The technical note explains how the ROA estimates were computed,

describes the statistical methods used for analysis, and presents summary results of this analysis.

New ROA Estimates for 1988–97

This section examines the new industry-level ROA estimates for foreign-owned companies and the gap between the ROA's of foreign-owned and U.S.owned companies by industry and over time. Previously, the industry-level profit and asset data needed to compute ROA estimates were available only on a historical-cost basis; that is, the valuations of assets and related expenses (mainly depreciation) were based on the prices of the assets at the time they were acquired. Because asset prices vary over time, the resulting historical-cost ROA estimates vary with the age of the assets. In the new estimates, the assets and associated depreciation charges have been adjusted to a current-cost basis; that is, they are consistently valued in current-The industry-level current-cost period prices. adjustments are based on aggregate (all-industries) current-cost adjustments that BEA makes for all foreign-owned companies combined and for all U.S. companies combined. These aggregate estimates were allocated to individual industries using the procedures described in the technical note.

Table 1.—ROA of Foreign-Owned U.S. Nonfinancial Companies, 1988-97 [Percent]

| | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1988-97 average |
|---|------|------|------|------|---|------|------|------|------|------|--------------------|
| Nonfinancial industries | 5.7 | 5.4 | 4.2 | 3.8 | 3.8 | 4.1 | 5.1 | 5.7 | 6.6 | 7.1 | 5.1 |
| Agriculture, forestry, and fishing | 2.0 | 3.4 | 6.0 | 3.8 | 1.5 | -0.9 | 1.1 | 1.3 | 2.5 | 4.0 | 2.5 |
| Mining, excluding oil and gas extraction | 6.8 | 5.9 | 7.6 | 8.3 | 8.5 | 4.6 | 7.1 | 9.9 | 6.2 | 6.9 | 7.2 |
| Construction | 0.5 | 3.4 | 1.3 | 0.5 | 0.6 | 0.4 | 0.6 | -0.9 | 0.4 | 1.3 | 0.8 |
| Manufacturing | 6.7 | 6.4 | 5.0 | 4.1 | 4.2 | 4.6 | 6.0 | 6.2 | 7.3 | 7.8 | 5.8 |
| Food and kindred products | 4.8 | 4.0 | 3.9 | 5.4 | 5.2 | 4.6 | 4.9 | 4.6 | 6.9 | 8.7 | 5.3 |
| Textile mill products | 8.3 | 5.4 | 4.2 | 3.2 | 6.8 | 7.2 | 7.9 | 8.2 | 6.4 | 7.3 | 6.5 |
| Apparel and other textile products | 3.0 | 2.1 | 0.8 | 3.5 | 5.2 | 6.5 | 5.0 | 0.3 | 7.9 | 7.9 | 4.2 |
| Lumber, wood, furniture, and fixtures | 9.2 | 7.2 | 9.4 | 3.1 | 6.4 | 11.0 | 11.5 | 8.0 | 8.7 | 5.5 | 8.0 |
| Paper and allied products | 12.7 | 10.5 | 8.6 | 6.9 | 4.1 | 4.1 | 5.5 | 9.7 | 9.2 | 5.2 | 7.6 |
| Printing and publishing | 5.3 | 3.9 | 5.1 | 4.3 | 5.7 | 6.8 | 7.8 | 6.0 | 7.1 | 6.6 | 5.9 |
| Chemicals and allied products | 9.0 | 9.7 | 7.7 | 6.4 | 6.2 | 6.9 | 7.8 | 6.7 | 7.9 | 7.2 | 7.6 |
| Petroleum and coal products 1 | 7.9 | 8.7 | 9.8 | 5.8 | 5.8 | 5.9 | 6.7 | 7.6 | 10.0 | 10.7 | 7.9 |
| Rubber and miscellaneous plastic products | 3.5 | 2.7 | -0.2 | -3.8 | -0.4 | 1.6 | 4.4 | 3.8 | 5.1 | 5.4 | 2.2 |
| Stone, clay, and glass products | 5.4 | 3.8 | -0.8 | 0.4 | 1.5 | 2.4 | 3.4 | 7.0 | 8.5 | 13.4 | 4.5 |
| Primary metal industries | 5.7 | 5.8 | 3.6 | 0.5 | 0.8 | 2.6 | 4.3 | 6.3 | 7.4 | 6.7 | 4.4 |
| Fabricated metal products | 7.6 | 7.0 | 3.5 | 4.1 | 4.0 | 2.9 | 0.6 | 4.9 | 6.5 | 7.1 | 4.8 |
| Industrial machinery and equipment | 5.7 | 3.9 | -0.4 | 0.1 | (*) | -0.7 | 4.8 | 3.4 | 4.8 | 6.3 | 2.8 |
| Electronic and other electric equipment | 1.4 | 1.0 | -0.5 | 1.7 | 1.2 | 1.0 | 3.6 | 4.3 | 3.9 | 5.6 | 2.3 |
| Motor vehicles and equipment | -5.2 | -6.3 | -1.0 | -0.8 | -4.0 | 1.2 | 5.9 | 5.5 | 2.1 | 7.3 | 0.5 |
| Other transportation equipment | -3.6 | 5.2 | 0.7 | 0.4 | 2.3 | 1.1 | 2.1 | 0.6 | 6.5 | 8.3 | 2.4 |
| Instruments and related products | 4.9 | 5.5 | 7.1 | 8.7 | 8.6 | 8.1 | 8.1 | 8.9 | 9.9 | 9.3 | 7.9 |
| Other ² | 13.9 | 11.0 | 7.7 | 15.4 | 22.0 | 11.1 | 11.6 | 16.3 | 19.9 | 17.9 | 14.7 |
| Transportation | 10.2 | 4.6 | -4.5 | 0.8 | 2.0 | 5.7 | 5.3 | 8.6 | 11.0 | 10.7 | 5.4 |
| Communication and public utilities | (*) | 1.6 | 6.4 | 3.7 | 6.3 | 5.0 | 8.3 | 11.4 | 14.4 | 8.7 | 6.6 |
| Wholesale trade | 4.6 | 4.5 | 3.8 | 3.9 | 4.0 | 3.9 | 4.6 | 5.4 | 5.4 | 6.4 | 4.6 |
| Retail trade | 7.3 | 4.6 | 4.9 | 6.7 | 3.1 | 3.9 | 7.2 | 8.2 | 7.6 | 8.0 | 6.2 |
| Real estate | 3.8 | 4.2 | 3.5 | 3.0 | 2.2 | 2.4 | 2.2 | 2.3 | 2.5 | 3.7 | 3.0 |
| Services | 4.2 | 4.3 | 4.0 | 2.2 | 3.1 | 3.7 | 2.6 | 2.2 | 3.6 | 5.7 | 3.5 |
| Hotels and other lodging places | 1.6 | 1.2 | 1.5 | -0.1 | -0.2 | 0.3 | 0.5 | 1.1 | 3.5 | 41 | 1.4 |
| Business services | 5.5 | 6.0 | 7.6 | 6.3 | 7.3 | 7.6 | 6.4 | 4.9 | 3.2 | 9.3 | 6.4 |
| Motion pictures | 1.8 | 2.7 | 3.2 | 0.6 | 3.5 | 5.1 | 3.8 | 2.8 | 3.2 | 24 | 2.9 |
| Other | 6.0 | 6.2 | 4.5 | 4.0 | 3.7 | 3.1 | -0.2 | -0.1 | 4.2 | 5.0 | 3.6 |
| | | | | | • | 0 | V.2 | | l | 0.0 | |

^(*)Less than 0.05 (±).

1. Includes oil and gas extraction.

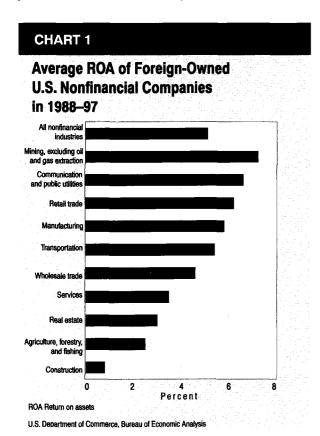
2. Other manufacturing comprises tobacco products, leather and leather products, and miscellaneous manufacturing industries.

ROA by industry

The average ROA for foreign-owned nonfinancial companies was 5.1 percent in 1988–97. The average ROA's varied considerably among the major industries, ranging from 7.2 percent in mining to 0.8 percent in construction (table 1 and chart 1). In addition to mining, the ROA's were relatively high in communication and public utilities (6.6 percent) and retail trade (6.2 percent). In addition to construction, the ROA's were relatively low in agriculture, forestry, and fishing (2.5 percent), real estate (3.0 percent), and services (3.5 percent).

Among foreign-owned manufacturing companies, the average ROA was 5.8 percent in 1988–97. The ROA's varied considerably among the major manufacturing industries, ranging from 14.7 percent in "other" manufacturing to 0.5 percent in motor vehicles and equipment (table 1 and chart 2).³ In addition to "other" manufacturing, the ROA's were relatively high in lumber, wood, furniture, and fixtures (8.0 percent) and instruments and related products (7.9 percent). In addition to motor vehicles and equipment, the ROA's were relatively low in rubber and miscellaneous plastic products (2.2 percent), electronic

[&]quot;Other" manufacturing comprises tobacco products, leather and leather products, and miscellaneous manufacturing industries.



and other electric equipment (2.3 percent), and other transportation equipment (2.4 percent).

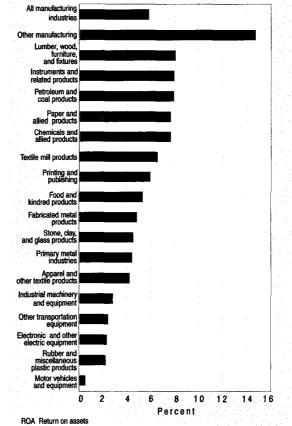
ROA gap by industry

The average ROA for foreign-owned nonfinancial companies was 2.2 percentage points below that for U.S.-owned nonfinancial companies in 1988–97. The ROA gap (that is, the ROA of foreign-owned companies) less the ROA of U.S.-owned companies) was negative in most major industries but was largest in construction (-7.5 percentage points) (table 2 and chart 3). The ROA gap was also large and negative in services (-7.2 percentage points) and wholesale trade (-4.2 percentage points). The ROA gap was positive in mining, excluding oil and gas extraction (4.5 percentage points) and transportation (1.3 percentage points).

In manufacturing, the average ROA gap was -1.1 percentage points in 1988-97. The ROA gap was negative in most manufacturing industries, but

CHART 2

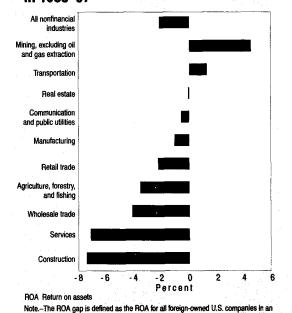
Average ROA of Foreign-Owned U.S. Manufacturing Companies in 1988–97



U.S. Department of Commerce, Bureau of Economic Analysis

CHART 3

Average ROA Gap of Foreign-Owned **U.S. Nonfinancial Companies** in 1988–97



industry less the ROA for all U.S.-owned companies in that industry.

U.S. Department of Commerce, Bureau of Economic Analysis

it varied from -8.3 percentage points in rubber and miscellaneous plastic products to 10.2 percentage points in "other" manufacturing (table 2 and chart 4).

Trends.—The negative ROA gap in all nonfinancial industries combined widened from -1.8 percentage points in 1988 to -3.1 percentage points in 1990; it was unchanged at -3.1 percentage points in 1991, and then it narrowed steadily to -1.0 percentage points in 1997 (table 2 and chart 5). In some major industries, the pattern of the ROA gap was consistent over time, suggesting that the factors underlying the gap were longstanding; for example, the ROA gap was consistently positive in mining and consistently negative in services. In other industries, including manufacturing, the negative ROA gap was eliminated over time, suggesting that factors underlying the gap were temporary.

Patterns in the ROA gap also differed across the major manufacturing industries. In petroleum and coal products, the ROA gap was consistently positive. In rubber and miscellaneous plastic products, it was consistently negative. In motor vehicles and equipment, it was initially quite negative, but it became slightly positive in some of the more recent years. In a few manufacturing industries, such as

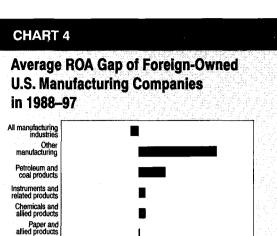
Table 2.—ROA Gap of Foreign-Owned U.S. Nonfinancial Companies, 1988-97 [Percentage points]

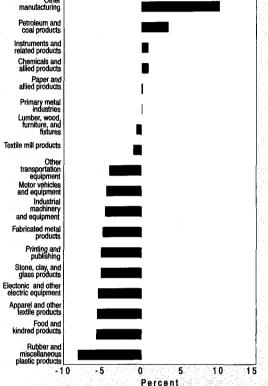
| | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1988–97 average |
|---|---------------|-------|--------------------|--------|-------------|----------------|-------|-------|-------|------|--------------------|
| Ionfinancial industries | -1.8 | -2.1 | -3.1 | -3.1 | -2.9 | -2.6 | -2,2 | -1.9 | -1.3 | -1.0 | -2.2 |
| Agriculture, forestry, and fishing | -5.4 | -3.7 | -0.4 | -1.4 | -4.5 | -6.3 | -3.5 | -4.3 | -3.9 | -2.5 | -3.6 |
| Mining, excluding oil and gas extraction | (*) -8.3 | 1.1 | 4.6 | 5.1 | 7.0 | 3.6 | 4.3 | 8.9 | 4.9 | 5.0 | 4.5 |
| Construction | | -4.9 | -6.6 | -6.3 | -5.3 | -6.2 | -7.2 | -10.1 | -10.0 | -9.7 | -7.5 |
| Manufacturing | -0.8 | -1.3 | -2.5 | -2.6 | -1.8 | -1.4 | -0.6 | -1.1 | 0.1 | 0.9 | -1.1 |
| Food and kindred products | -5.2 | -9.2 | - -9 .7 | -8.0 | -6.8 | -5.2 | -5.7 | -6.8 | -2.0 | -0.6 | -5.9 |
| Textile mill products | 0.5 | -1.3 | -3.9 | -5.0 | -3.3 | -0.4 | 1.0 | 2.6 | -1.2 | -0.2 | -1.1 |
| Apparel and other textile products | -7.1 | -9.2 | -10.1 | -7.5 | -6.1 | -3.9 | -5.5 | -8.4 | -0.7 | 0.3 | -5.8 |
| Lumber, wood, furniture, and fixtures | -0.5 | -2.3 | 2.2 | -3.0 | -1.0 | 2.0 | 1.3 | -2.9 | 0.4 | -2.9 | -0.7 |
| Paper and allied products | 1.7 | 0.4 | 0.7 | 0.5 | -0.9 | -1.0 | -0.7 | 0.3 | 1.9 | -0.3 | 0.2 |
| Printing and publishing | -6.7 | 7.8 | -5.2 | -6.6 | -4.8 | -2.9 | -4.2 | -4.2 | -5.6 | -4.6 | -5.3 |
| Chemicals and allied products | 1.3 | 2.6 | 0.9 | -0.1 | 0.3 | 1.8 | 1.7 | -1.0 | 1.0 | 0.2 | 0.9 |
| Petroleum and coal products 1 | | 4.2 | 3.9 | 1.8 | 3.1 | 2.7 | 3.6 | 3.4 | 4.8 | 5.1 | 3.5 |
| Rubber and miscellaneous plastic products | | -7.4 | -9 .7 | -16.3 | -11.0 | -9.0 | -5.7 | -5.9 | -6.7 | -6.4 | -8.3 |
| Stone, clay, and glass products | -1.3 | -4.8 | -9.7 | -7.9 | -7.1 | -5.7 | -8.5 | -5.9 | -2.9 | 0.9 | -5.3 |
| Primary metal industries | -2.2 | -2.1 | -1.1 | -3.1 | -0.7 | 1.4 | 2.0 | 0.7 | 3.5 | 2.5 | 0.1 |
| Fabricated metal products | -1.4 | -1.9 | -5.5 | -3.7 | -3.3 | −6.1 | -11.3 | -6.4 | -5.5 | -5.5 | |
| Industrial machinery and equipment | -2.4 | -4.4 | -9.2 | -6.1 | -6.4 | -7.1 | -1.5 | -5.2 | -3.9 | -1.4 | -4.8 |
| Electronic and other electric equipment | −6.4 | -7.8 | -9 .1 | -6.3 | -5.9 | -6.7 | -5.2 | -3.8 | -3.8 | -1.7 | -5.7 |
| Motor vehicles and equipment | -11.0 | -13.0 | -6.1 | -4.8 | -8.2 | -3.7 | 0.7 | 1.3 | -3.5 | 2.3 | -4.6 |
| Other transportation equipment | -11.5 | -1.3 | -5.9 | _7.2 l | -3.9 | -5.4 | -2.9 | -4.8 | -0.6 | 1.2 | -4.2 |
| Instruments and related products | -3.1 | -1.4 | -1.9 | 0.1 | 1.5 | 3.0 | 2.9 | 2.6 | 2.2 | 3.0 | 0.9 |
| Other 2 | 7.9 | 6.0 | 2.7 | 11.3 | 18.3 | 7.2 | 7.9 | 12.0 | 15.8 | 13.2 | 10.2 |
| Transportation | 5.3 | 1.4 | -7.8 | -2.1 | -0.6 | 2.3 | 0.6 | 3.8 | 5.3 | 4.4 | 1.3 |
| Communication and public utilities | -6.7 | -5.1 | -0.3 | -3.3 | -0.5 | -1.91 | 1.1 | 3.8 | 6.7 | 0.4 | -0.6 |
| Wholesale trade | -5.7 | -5.3 | -5.2 | -5.2 | -4.4 | -3.9 | -3.8 | -2.4 | -3.7 | -2.3 | -4.2 |
| Retail trade | -0.7 | -3.7 | -3.0 | -1.5 | -5.1 | -4.3 | -1.2 | 0.1 | -1.3 | -2.0 | -2.3 |
| Real estate | -0.4 | 0.7 | 0.9 | 1.3 | (*) | (*) | -0.7 | -1.2 | -1.3 | -0.1 | -0.1 |
| Services | -5.6 | -5.4 | -6.2 | -8.3 | (*) -7.7 | −7 .8 l | -9.3 | -9.3 | -7.7 | -5.0 | -7.2 |
| Hotels and other lodging places | -3.4 | -3.7 | -2.4 | -5.5 | -7.2 | 7.9 | -8.5 | -7.4 | -3.9 | -1.9 | -5.2 |
| Business services | -5.5 | -4.5 | -2.3 | -3.3 | -3.5 | -4.5 | -6.1 | -7.4 | -9.4 | -3.5 | -5.0 |
| Motion pictures | -6.0 | -2.6 | 0.3 | -3.5 | 0.3 | 1.1 | -1.9 | -2.4 | -2.3 | -3.1 | -2.0 |
| Other | -4.5 | -4.8 | -8.1 | _8.9 l | -8.6 | -9.3 | -12.9 | -12.3 | -7.8 | -5.9 | -8.3 |

NOTE: The ROA gap is defined as the ROA for all foreign-owned companies in an industry less the ROA for all U.S.-owned companies in that industry. (*)Less than 0.05 (±).

1. Includes oil and gas extraction.

2. Other manufacturing comprises tobacco products, leather and leather products, and mis-ROA Return on assets





ROA Return on assets

Note.—The ROA gap is defined as the ROA for all foreign-owned U.S. companies in an industry less the ROA for all U.S.-owned companies in that industry.

U.S. Department of Commerce, Bureau of Economic Analysis

chemicals, there was consistently almost no ROA gap.

The Low ROA of Foreign-Owned Companies

In this section, industry-level ROA estimates for foreign-owned and U.S.-owned companies along with estimates for individual foreign-owned companies are used to analyze the low ROA of foreign-owned companies. The section begins with a short review of previous research and then discusses the four factors that were examined in this study: Industry mix, market share, age effects, and intrafirm-import content.

Previous research

Several studies—including Landefeld, Lawson, and Weinberg [8], Laster and McCauley [9], Grubert, Goodspeed, and Swenson [3], and Gru-

bert [4]—have examined the low profitability of foreign-owned companies.

Landefeld, Lawson, and Weinberg examined current-cost estimates of the rate of return on foreign direct investment in the United States (FDIUS) and on all U.S. businesses at the allindustries level for 1982-91. Those estimates, along with other aggregate economic data, were used to evaluate the low rate of return on FDIUS.4 They presented evidence suggesting the following: High startup and restructuring costs related to recent acquisitions lower the profitability of foreignowned companies, newly acquired foreign-owned companies tended to be those that had low or negative rates of return, and many foreign-owned companies had a tax-related incentive to shift profits from the United States to their home country using transfer prices.⁵ They also identified reasons for which foreign owners may be willing to accept a below-average rate of return, such as having a lower cost of capital in the home country or gaining a cost advantage by acquiring U.S. companies with home-country funds at a time when the purchasing power of the U.S. dollar was weak.

Laster and McCauley used industry-level estimates of the historical-cost return on investment and on sales for foreign-owned companies from BEA's direct investment surveys, and for all domestic companies from the Internal Revenue Service, for the years 1977–92. Their evidence suggested the following: The low rate of return of foreignowned companies was largely due to a late-1980's surge in foreign acquisition activity, the new acquisitions were typically expensive and unprofitable (although their profitability grew over time) and heavy debt loads and (possibly) profit shifting using transfer prices further depressed the reported profits of these firms. They concluded that the profitability of foreign-owned companies should rebound as they reduce their acquisition activity, gain experience, and divest underperforming operations.

Grubert, Goodspeed, and Swenson performed regression analysis using company-level measures of the return on historical-cost assets and sales for foreign-controlled and domestically controlled corporations in 1980–87.⁶ Their results

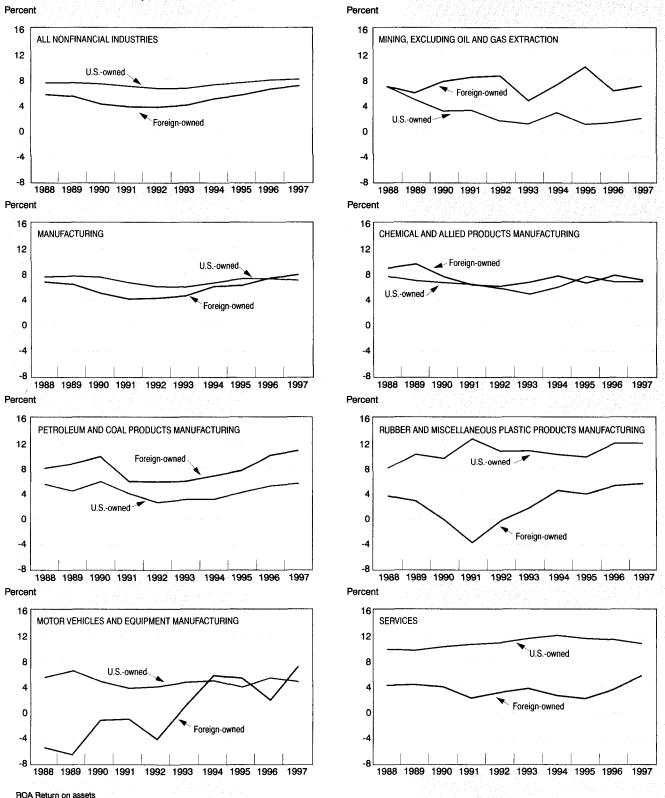
^{4.} Unlike the estimates presented here, the rate of return estimates used by Landefeld, Lawson, and Weinberg are based on data from BEA's international transactions accounts (ITA's). The major difference between the two sets of estimates is that the ITA estimates are adjusted for the percentage of foreign ownership.

^{5.} A transfer price is the price charged by one company for a product or service supplied to a related company, such as the price that a foreign-owned company is charged by its foreign parent company.

^{6.} Their analysis was based on corporate tax return data from the U.S. Department of the Treasury, Internal Revenue Service. The latest tabulated data,

CHART 5

Average ROA of Foreign-Owned U.S. Nonfinancial Companies and U.S.-Owned Nonfinancial Companies in Selected Industries, 1988–97



U.S. Department of Commerce, Bureau of Economic Analysis.

demonstrated that age effects and the effects of exchange-rate changes were significant factors. Unlike Laster and McCauley, they found no evidence of the effects of heavy debt loads. They also found no significant tendency for newly acquired foreign-owned companies to be those with low or negative rates of return. They found that roughly half of the profitability gap remained unexplained. They presented statistical evidence suggesting that part of the unexplained profitability gap could be related to profit shifting using transfer prices.

Grubert used company-level estimates of the return on historical-cost assets and sales for foreign-controlled and domestically controlled U.S. corporations in 1987–93. Most of his analysis was based on a taxable-income-to-sales measure because of the problems associated with using historical-cost assets as a denominator. In addition to using total taxable income as a numerator, Grubert examined an alternative that approximated operating income by excluding receipts of dividends, interest, and royalties; he found that the profitability gap was much smaller using the alternative measure.

As in his earlier paper with Goodspeed and Swenson, Grubert found some evidence of agerelated effects, but little evidence of exchange-rate effects (perhaps because the exchange value of the dollar was more stable in 1987–93 than in 1980– 87). After controlling for a variety of factors, Grubert found that less than half (and perhaps as little as one-quarter) of the ROA gap remained unexplained. Profit shifting using transfer prices may underlie part of the unexplained difference, but Grubert presented evidence that it is not a major factor: He found that the profitability of foreign-controlled companies was similar to that of companies that were 20- to 50-percent foreignowned even though the former group would be more likely to shift profits out of the United States using transfer prices.

Explanatory factors

This study uses the new current-cost industry-level estimates for foreign-owned and U.S.-owned companies and company-level estimates for foreign-owned companies to examine the role of agerelated effects and intrafirm-import content in explaining the low ROA of foreign-owned companies. As explained above, the previous studies examined these factors using data at the all-

industries level or with only a very limited industry breakdown, or they used company-level data that were generally valued on a historical-cost basis. This study also examines industry-mix effects in more detail than in the earlier studies, and it examines market share, a factor not explicitly considered in the earlier studies.

In the analysis that follows, each of these factors is first examined in isolation, both for ease of exposition and because differences among some of the data sets used precluded a completely integrated approach to analysis. To determine whether the results differ when the explanatory factors are (to the extent possible) examined simultaneously, a multivariate regression analysis also was performed; it is discussed at the end of the section. Such an analysis would help to identify any cases in which explanatory factors are related to one another, which would make it difficult to sort out the independent effects of each factor. (For example, market share could potentially be associated with age, inasmuch as it might take a number of years to build market share.)

Industry mix.—A possible reason that foreignowned companies have a lower ROA than U.S.owned companies is that they are concentrated in low-profit industries. However, a systematic examination of the new industry-level estimates suggests industry mix is of only limited importance. The relatively low ROA's of foreign-owned companies have been widespread across industries: During 1988–97, foreign-owned companies had a lower average ROA than U.S.-owned companies in 22 of the 30 nonfinancial industries shown in table 2. This result was pervasive over time and across industries.

To quantify the industry-mix effects, the ROA gap was statistically decomposed into three components: Industry-mix effects, within-industry

Table 3.—Decomposition of the ROA Gap [Percentage points]

| Year | ROA Gap | Industry- mix effects | Within- industry effects | Inter- action effects |
|--|--|---|--------------------------------|---|
| 1988 1989 1990 1991 1992 1993 1994 1995 1996 | -1.8 -2.1 -3.1 -2.9 -2.6 -2.2 -1.9 -1.3 -1.0 | 0.1 -0.1 -0.3 -0.4 -0.5 -0.3 -0.2 -0.3 | 77778003225 7777974795 | 1.2 1.3 0.2 0.3 0.3 0.9 0.4 -0.5 -0.9 -0.1 |

NOTE.—The ROA gap is defined as the ROA for all foreign-owned companies in an industry less the ROA for all U.S.-owned companies in that industry. ROA Return on assets

covering foreign-controlled domestic corporations, appear in U.S. Department of the Treasury [24]. In these data, "control" is generally defined as ownership by a foreign person or entity, directly or indirectly, of 50 percent or more of a U.S. corporation's voting stock.

gaps, and interaction effects (table 3).⁷ This computation indicated that only a small percentage of the gap was attributable to a tendency for foreignowned companies to be concentrated in low-profit industries. Industry mix accounted for only 12 percent of the ROA gap, on average, in 1988–97.

These decompositions were carried out on industry estimates at both the 2-digit and 3-digit Standard Industrial Classification (SIC) level.⁸ At both levels of detail, only small industry-mix effects were found.⁹

Notwithstanding the general unimportance of industry-mix effects, factors specific to particular industries may in some cases cause the ROA's of foreign-owned companies to be lower than those of U.S.-owned companies. For example, profits in some industries (such as lodging) are highly dependent on local business conditions, and foreign-owned companies' low ROA can be partly explained by the concentration of their operations in slow-growing areas of the United States. Detailed industry-by-area distributions of foreignowned and U.S.-owned business establishments are available for 1992, and in that year, the ROA of foreign-owned companies in hotels and other lodging places was 7.2 percentage points below that of U.S.-owned lodging companies. The foreignowned companies had a relatively large presence in some slow-growing lodging markets (such as California) and a relatively small presence in some fast-growing markets (such as Nevada).¹⁰

Market share.—One factor that was not investigated in the aforementioned studies is market share. However, more general studies of companies' profitability, such as that of Buzzell, Gale, and Sultan [2], have shown a positive relationship between market share and profitability. A large market share may be indicative of conditions, such as economies of scale and market power,

that can enhance profitability.¹¹ It is also possible that high profitability can lead companies to expand their operations, such as through the acquisition of other companies, resulting in the observed relationship. Market share and profitability are probably, to some degree, mutually reinforcing, but the existing research suggests that the causality of this relationship runs mainly from market share to profitability.¹²

Industry patterns in the new ROA estimates provide some indication that the profitability of foreign-owned companies is related to their market shares. Industries in which the profitability of foreign-owned companies is relatively high (such as petroleum and chemical manufacturing) tend to be those in which the largest foreign-owned companies have a significant share of the total U.S. market for certain products. However, in some industries (such as stone, clay, and glass products manufacturing and rubber and miscellaneous plastic products manufacturing), the largest foreign-owned companies both are relatively less profitable and have a significant share of the total U.S. market for certain products. More definitive results can be obtained by performing the analysis at the company level.

To perform company-level analysis, ROA estimates were developed for 2,133 foreign-owned manufacturing companies for 1992 using procedures similar to those used to compute the industry-level estimates. The ROA gap for each foreign-owned company was calculated as the company's ROA minus the average ROA for U.S.-owned companies in the same industry. Market-share estimates for the foreign-owned companies were developed using detailed product-level shipments data for each company obtained from the Census Bureau's 1992 Census of Manufactures through a joint project that linked BEA and Census Bureau data. 14

^{7.} The decomposition method is described in the technical note.

^{8.} Although the 3-digit estimates are available only on a historical-cost basis, the industry patterns in the historical-cost and current-cost estimates are similar, so it is unlikely that using historical-cost data significantly biased the results.

^{9.} However, industry-mix effects may be more significant within some of the industries shown in table 2. For example, the large and negative ROA gap in rubber and miscellaneous plastic products appears to reflect foreignowned companies' concentration in one of the less profitable segments of that industry—tire and inner tube manufacturing. The large and positive ROA gap in "other" manufacturing appears to reflect foreign-owned companies' concentration in one of the more profitable segments of that industry—tobacco product manufacturing.

^{10.} The geographic distribution of foreign-owned companies is based on data for business establishments from the Census Bureau's 1992 Census of Manufactures through a joint project that linked BEA and Census Bureau data. The 1988–92 industry growth is based on average annual employment data by industry from the U.S. Department of Labor [22].

For a recent examination of the geographic distribution of foreign-owned U.S. businesses, see Johnson, Shannon, and Zeile [5].

^{11.} Microeconomic theory suggests, and industrial organization research has demonstrated, that concentration in an industry can allow the producers in that industry to restrict output and earn above-normal profits (economic rents). Although this research has usually dealt with explaining differences in profitability across industries, some researchers have extended the research to explain profitability differences within industries. Porter [13] and others have shown that the economic rents in an industry tend to be disproportionately distributed to those companies that most strongly possess the features that limit competition within at hindustry. For example, if the presence of heavily advertised national brands limits competition within an industry, then the companies that sell those brands will enjoy most of the economic rents, and those that sell generic brands may receive none at all. Companies that earn economic rents in this way are said to have "market power."

^{12.} For a review of the literature on the relationship between market share and profitability, see Kohli, Venkatraman, and Grant [6].

^{13.} The examination was restricted to manufacturing and to 1992 because market-share estimates were available only in that industry and only for that year.

^{14.} Although the product-level data were not published, the BEA-Census Bureau data link project provided data on shipments by foreign-owned companies at the detailed 7-digit product level. Each company's market share for each

Table 4 shows the median ROA gap for foreignowned companies grouped by their average market share.¹⁵ For example, the 1,639 companies that had an average market share across all product lines of less than 10 percent had a median ROA gap of -2.0 percentage points. In general, as a foreign-owned company's market share increased, the gap between its ROA and the average ROA for U.S.-owned companies decreased. A regression of foreign-owned companies' ROA gap on their market share confirmed the statistical significance of this relationship.¹⁶ (See the technical note for summary results of the regression analysis.)

Table 4.—Market Share and Median ROA Gap for Foreign-Owned U.S. Manufacturing Companies, 1992

| Market share (percent) | Median ROA gap (percentage points) | Number of companies |
|--|---|---------------------------------|
| Less than 10.0 10.0 to 19.9 20.0 to 29.9 30.0 to 39.9 40.0 or more | -2.0 -2.0 -1.0 (*) | 1,639 294 127 38 35 |

NOTE.—The ROA gap is defined as the ROA for a foreign-owned company less the ROA for all U.S.-owned companies in the same industry. (*) Less than 0.05 (±) ROA Return on assets

Age effects.—The age effects examined in this study include (1) the effects of acquiring or establishing a new business and (2) the benefit of experience. Foreign-owned companies may have a lower ROA than U.S.-owned companies because of factors related to the share of their operations that are newly acquired or established. These factors include high startup costs for newly established businesses, a possible tendency for acquired companies to be those that are relatively less profitable, and accounting changes resulting from mergers and acquisitions (see the box "Accounting for Mergers and Acquisitions"). The relationship between the newness of foreign-owned companies and the relative size of their negative ROA gap suggests that newness is an important factor (chart 6). The chart shows that, in relative terms, the negative ROA gap of foreign-owned companies tends to rise or fall with their degree of newness.

The profits of foreign-owned companies that have been newly acquired or established may be

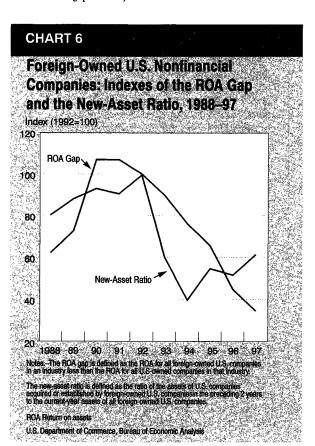
product that it produces was derived by computing the ratio of the company's shipments of the product to total U.S. shipments of that product. Because foreign-owned companies tend to be large and diversified, and because only an overall ROA was available for each company, an average market share across all products for each company was computed using a weighted average based on the distribution by product of the company's shipments.

dampened by high startup costs related to activities such as aggressive spending for capital equipment or advertising.¹⁷ In 1996, for example, foreignowned nonfinancial companies that acquired or established a U.S. business in the preceding 2 years had an average capital-spending-to-sales ratio of 8.4 percent, compared with 5.1 percent for other foreign-owned nonfinancial companies.

Other studies identified additional factors related to the newness of foreign ownership. As noted earlier, some studies detected a tendency for newly acquired companies to be those that are relatively less profitable.¹⁸ Others have detected a tendency for foreign-owned companies to incur heavy debt burdens (and associated interest expenses) when they acquired or established other U.S. businesses. (The ROA estimates presented here are not directly affected by variations in debt burden, because they measure the return to holders of both equity and debt.)

The industry-level estimates provide a mixed picture of the connection between the ROA gap and the newness of foreign-owned companies. Some

^{18.} Both Landefeld, Lawson, and Weinberg [8] and Laster and McCauley [9] used data from BEA's survey of new foreign direct investments in the United States to show that a large percentage of U.S. companies acquired by foreigners had below-average profitability.



^{15.} Companies with an ROA gap that exceeded 25 percentage points in absolute value were considered outliers and were excluded here and in all of the

^{16.} For the regression analysis in this study, significance is uniformly defined at the 1-percent level, unless otherwise noted.

^{17.} In the case of capital expenditures, profits would be reduced mainly by the associated depreciation charges.

Table 4 shows the median ROA gap for foreignowned companies grouped by their average market share. 15 For example, the 1,639 companies that had an average market share across all product lines of less than 10 percent had a median ROA gap of -2.0 percentage points. In general, as a foreign-owned company's market share increased, the gap between its ROA and the average ROA for U.S.-owned companies decreased. A regression of foreign-owned companies' ROA gap on their market share confirmed the statistical significance of this relationship. 16 (See the technical note for summary results of the regression analysis.)

Table 4.—Market Share and Median ROA Gap for Foreign-Owned U.S. Manufacturing Companies, 1992

| Market share (percent) | Median ROA gap (percentage points) | Number of companies |
|--|---|---------------------------------|
| Less than 10.0 10.0 to 19.9 20.0 to 29.9 30.0 to 39.9 40.0 or more | -2.0 -2.0 -1.0 (*) (*) | 1,639 294 127 38 35 |

Note.—The ROA gap is defined as the ROA for a foreign-owned company less the ROA for all U.S.-owned companies in the same industry. (*) Less than $0.05\ (\pm)$ ROA fletum on assets

Age effects.—The age effects examined in this study include (1) the effects of acquiring or establishing a new business and (2) the benefit of experience. Foreign-owned companies may have a lower ROA than U.S.-owned companies because of factors related to the share of their operations that are newly acquired or established. These factors include high startup costs for newly established businesses, a possible tendency for acquired companies to be those that are relatively less profitable, and accounting changes resulting from mergers and acquisitions (see the box "Accounting for Mergers and Acquisitions"). The relationship between the newness of foreign-owned companies and the relative size of their negative ROA gap suggests that newness is an important factor (chart 6). The chart shows that, in relative terms, the negative ROA gap of foreign-owned companies tends to rise or fall with their degree of newness.

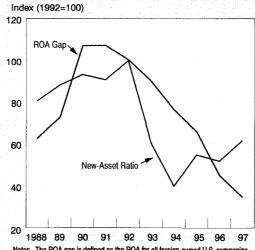
The profits of foreign-owned companies that have been newly acquired or established may be dampened by high startup costs related to activities such as aggressive spending for capital equipment or advertising.¹⁷ In 1996, for example, foreignowned nonfinancial companies that acquired or established a U.S. business in the preceding 2 years had an average capital-spending-to-sales ratio of 8.4 percent, compared with 5.1 percent for other foreign-owned nonfinancial companies.

Other studies identified additional factors related to the newness of foreign ownership. As noted earlier, some studies detected a tendency for newly acquired companies to be those that are relatively less profitable.¹⁸ Others have detected a tendency for foreign-owned companies to incur heavy debt burdens (and associated interest expenses) when they acquired or established other U.S. businesses. (The ROA estimates presented here are not directly affected by variations in debt burden, because they measure the return to holders of both equity and debt.)

The industry-level estimates provide a mixed picture of the connection between the ROA gap and the newness of foreign-owned companies. Some

CHART 6

Foreign-Owned U.S. Nonfinancial Companies: Indexes of the ROA Gap and the New-Asset Ratio, 1988-97



Notes.—The ROA gap is defined as the ROA for all foreign-owned U.S. companies in an industry less than the ROA for all U.S. owned companies in that industry.

The new-asset ratio is defined as the ratio of the assets of U.S. companies acquired or established by freeign-owned U.S. companies acquired or established by freeign-owned U.S. companies to the current-year assets of all foreign-owned U.S. companies.

U.S. Department of Commerce, Bureau of Economic Analysis

product that it produces was derived by computing the ratio of the company's shipments of the product to total U.S. shipments of that product. Because foreign-owned companies tend to be large and diversified, and because only an overall ROA was available for each company, an average market share across all products for each company was computed using a weighted average based on the distribution by product of the company's shipments.

^{15.} Companies with an ROA gap that exceeded 25 percentage points in absolute value were considered outliers and were excluded here and in all of the

^{16.} For the regression analysis in this study, significance is uniformly defined at the 1-percent level, unless otherwise noted.

^{17.} In the case of capital expenditures, profits would be reduced mainly by the associated depreciation charges.

^{18.} Both Landefeld, Lawson, and Weinberg [8] and Laster and McCauley [9] used data from BEA's survey of new foreign direct investments in the United States to show that a large percentage of U.S. companies acquired by foreigners had below-average profitability.

industries in which the profitability of foreignowned companies was relatively high (such as petroleum manufacturing and chemical manufacturing) were those in which newly acquired or established businesses accounted for a relatively small share of the operations of foreign-owned companies. However, in some industries (such as food and kindred products manufacturing), newly acquired or established businesses accounted for a relatively small share of the operations of foreign-owned companies, but the profitability of foreign-owned companies was relatively low.

The relationship between the ROA gap and the newness of foreign ownership was examined in greater detail using company-level estimates covering 7,906 foreign-owned nonfinancial companies in 1989 and 10,223 foreign-owned nonfinancial companies in 1996. The newness of foreign ownership of a given company was measured by the ratio of (1) the assets of companies acquired or established by the given company in the preceding 2 years—as reported on BEA's survey of new foreign direct investments in the United States—to (2) the current-year assets of the given company. ¹⁹ This

measure is referred to hereafter as the "new-asset ratio."

Table 5 shows the average ROA gap for foreignowned companies grouped by their new-asset ratios. For example, in 1989, companies with a "high" new-asset ratio (25 percent or more) had an average ROA gap nearly twice as large (-3.0 percent) as that of companies with a "low" newasset ratio (less than 25 percent). The differences between the mean ROA's for the low and high new-

acquisition, they are reported after revaluation. For newly acquired companies, asset values are projections for the end of the first full year of operations. A two-year lag was chosen for the newness measure because it was judged long enough to include transactions that could have had an impact on rate of return, but short enough to preclude dissipation of the factors related to newness. Comparisons of two-year and three-year lags in earlier work showed little difference in results.

Table 5.—Average ROA Gap for Foreign-Owned U.S. Nonfinancial Companies by New-Asset Ratio, 1989 and 1996
[Percentage points]

| | Year | Low new- asset ratio | High new- asset ratio |
|------|------|----------------------------|--------------------------------|
| 1989 | | -1.7 | -3.0 |
| 1996 | | -2.3 | -3.0 -3.2 |

Notes.—The new-asset ratio is the ratio of the assets of companies acquired or established by the given company in the preceding 2 years to the current-year assets of the given company. A new-asset ratio less than 25 percent is considered "low," and one that is 25 percent or more is considered "high."

The ROA gap is defined as the ROA for a foreign-owned company less the ROA for all U.S.-owned companies in the same industry.

ROA Return on assets

Accounting for Mergers and Acquisitions

Business combinations (mergers and acquisitions) may result in accounting changes that distort return on assets (ROA) comparisons across companies and across time. U.S. generally accepted accounting principles currently provide two methods for accounting for business combinations—the "purchase" method and the "pooling-of-interests" method. In the purchase method, one company is identified as the buyer and records the value of the company being acquired in its financial statements at the price it actually paid. In the pooling-of-interests method, the two combining companies add together the historical-cost values of their net assets.

The effect of a business combination on the combined companies' ROA depends on the method used. The purchase method will often result in substantial changes in the ROA of the combined companies because the purchased company's assets are revalued to current prices. In addition, any premium paid for the purchased company beyond the fair-market value of its assets is recorded as "goodwill," which is treated as an amortizable intangible asset. The annual amortization of goodwill is a charge against income and thus reduces the ROA. In contrast, the pooling-of-interests method generally does not affect the ROA of the combined companies, because the transaction generally does not result in any charges against income and because the combining companies' assets are carried over to the new combined company at historical cost.

Companies generally prefer the pooling-of-interests method because it does not disrupt comparisons of financial results across companies or across time. ¹

This study tried to remove some of the effects of business combinations on the ROA estimates. Specifically, an estimate for annual amortization of intangible assets (chiefly, goodwill) was removed from the numerator, and an estimate for the stock of amortizable intangible assets was removed from the denominator (see the technical note for details). These adjustments mitigated, but did not completely remove, potential inconsistencies over time in the ROA estimates. For example, special allowance was not made for other intangible assets that may have been restated at market value after a business combination.

Another potential effect of business combinations on the ROA estimates is the usually higher depreciation charges that result when assets are purchased for an amount greater than their value at historical cost. However, the ROA estimates presented here should not be affected, because all companies' fixed assets (and the associated depreciation charges) have been revalued to current prices.

^{19.} BEA's survey of new foreign direct investments covers outlays by foreign direct investors to acquire or establish affiliates in the United States. For newly acquired companies, asset values reported on the survey are as of the end of the most recent financial year preceding acquisition; if assets are to be revalued after

However, in mid-1999, the U.S. Financial Accounting Standards Board (FASB) announced that it would eliminate the pooling-of-interests method for business combinations beginning late in 2000. The faults with this method that the FASB cited included lack of conformity with international accounting standards and inconsistency with the treatment for other acquired assets.

asset ratio categories were found to be statistically significant.²⁰

A second age-related effect is the benefit of experience. Foreign-owned companies may initially have a lower ROA than U.S.-owned companies because they are relatively less mature and have a greater need for improvements that will be made in their operations over time. These improvements may include reaching a higher level of capacity utilization, restructuring or shedding unprofitable operations, and learning by doing. Earlier research demonstrated the benefits of experience on a company's ROA. For example, Lupo, Gilbert, and Liliestedt [10] examined company-level data for 4,507 foreign manufacturing affiliates of U.S. multinational companies and found that the average ROA for the affiliates increased steadily with age, at least for the first 10 years. As mentioned earlier, Grubert, Goodspeed, and Swenson [3] and Laster and McCauley [9] found a similar result in their research.

This study examined the relationship between a foreign-owned company's age and its ROA gap using data for a panel of 749 foreign-owned manufacturing companies that existed throughout 1988–97. The panel was restricted to manufacturing companies because some of the benefits of experience (such as higher capacity utilization) are expected to be strongest for companies in that industry. For analytical purposes, the age of a given company was measured as the number of years that the affiliate was in the panel.²¹ To test for the presence of a relationship between age and the ROA gap, panel-data regressions were performed on the company-level data.

A significant relationship between a company's age and its ROA gap was detected for all foreign-owned manufacturing companies in the panel and for companies in 11 of the 18 manufacturing industries shown in tables 1 and 2. For all man-

ufacturing industries combined, the median ROA gap, which was -2.7 percentage points in 1988, had been completely eliminated by 1997 (table 6). Among individual industries, a particularly strong relationship between age and the ROA gap was found in motor vehicles and equipment manufacturing: The median ROA gap was -6.5 percentage points in 1988, but a positive 3.0 percentage points in 1997. (See the technical note for summary results of the regression analysis.)

Table 6.—Median ROA Gap for a Matched Sample of Foreign-Owned U.S. Companies in All Manufacturing Industries and in Motor Vehicles and Equipment Manufacturing, 1988-97

| [Percentage | points? |
|-------------|---------|
| | |

| | All manu- facturing industries | Motor vehicles and equipment |
|------|--|--|
| 1988 | -2.7 -2.6 -3.5 -3.0 -2.0 -1.4 -0.3 -1.9 -0.1 | -6.5 -6.4 -2.2 -3.9 -1.0 -0.7 1.5 -1.8 3.0 |

NOTE.—The ROA gap is defined as the ROA for a foreign-owned company less the ROA for all U.S.-owned companies in the same industry.

ROA Return on assets

Intrafirm-import content.—Some analysts speculate that foreign-owned companies have actually made higher profits than as measured by the BEA data but then have shifted some of them out of the United States using transfer prices. Although tax regulations generally require that intrafirm transactions be at "arms-length" prices, intercountry differences in tax rates create incentives to deviate from this standard, particularly for trade in nonstandardized goods and services for which market-based reference prices are lacking.²² It was not possible to directly test for profit shifting using transfer prices. However, the greatest opportunities to shift profits using transfer prices exist for foreign-owned companies with a high percentage of their sales accounted for by intrafirm imports. Thus, any relationship detected between the share of sales accounted for by intrafirm imports and the ROA gap may provide indirect evidence of profit shifting using transfer prices.

The industry-level estimates indicated no clear relationship. To investigate the relationship at a more detailed level, company-level estimates for foreign-owned companies in manufacturing and wholesale trade in 1988–97 were used.

^{20.} A sample inference between two population means was used to test the statistical significance of these differences; the procedure is described in the technical note.

An extension of the analysis of the effects of newness would measure newness in U.S.-owned companies and its impact on the ROA gap for the foreign-owned companies. Using readily available data, a crude measure of newness was developed for U.S. parent companies in manufacturing using data from BEA's surveys of U.S. direct investment abroad. In contrast to the findings for foreign-owned companies, U.S. parent companies in manufacturing with a high degree of newness had a higher ROA than those with a low degree of newness. This difference may reflect the types of companies acquired: Foreign-owned companies may tend to acquire relatively less profitable companies, whereas U.S.-owned companies may tend to acquire companies that are relatively more profitable. Further work is needed to confirm and interpret these preliminary results and to investigate whether they apply to U.S.-owned companies in general.

^{21.} This measure of age is limited in two ways. First, the companies were not of uniform age in the first year of the panel (1988). Second, the companies in the panel may have acquired or established other businesses during the period, an activity that would have subjected them to new rounds of profit-reducing "newness." Therefore, any benefit of experience detected for these companies must have been strong enough to offset the effects of these data limitations.

^{22.} An "arm's-length" price is the price that would be charged between unrelated parties.

Table 7 shows the median ROA gap for foreignowned companies grouped by the intrafirmimport content of their sales. For example, the 1,744 companies in the first group had an intrafirm-import content of sales of less than 10 percent and a median ROA gap of -3.0 percentage points. From the table, there does not appear to be a strong relationship between the two variables. Regressions of the two variables detected a statistically significant relationship in only 2 of the 10 years studied. However, these 2 years were at the end of the period, when the profitability of foreignowned firms was highest and the incentives to shift profits thus possibly the greatest.²³ (See the technical note for summary results of the regression analysis.)

Table 7.—Average Intrafirm-Import Content of Sales and Median ROA Gap for Foreign-Owned Manufacturing and Wholesale Trade Companies, 1988–97

| Intrafirm-import content of sales (percent) | Median ROA gap (percentage points) | Number of companies |
|--|---|-----------------------------------|
| Less than 10.0 10.0 to 29.9 30.0 to 49.9 50.0 to 69.9 70.0 or more | -3.0 -2.6 -3.1 -3.4 -4.0 | 1,744 672 575 492 390 |

NOTE.—The ROA gap is defined as the ROA for a foreign-owned company less the ROA for all U.S.-owned companies in the same industry.

ROA Return on assets

The regression equation was also estimated annually by country for foreign-owned companies from five major investing countries: Canada, France, Germany, Japan, and the United Kingdom. Effective tax rates varied considerably across these countries, and the incentive to shift profits from the United States would have been strongest for parent companies in countries such as the United Kingdom, where the tax rates on business profits were low relative to the rates in the United States.²⁴ However, when the regression equations

were estimated for the individual countries, the coefficients were insignificant in all but 1 of the 50 country-by-year regressions.

Combined effects.—The preceding analysis showed that, when taken separately, industry mix, market share, newness, and the benefit of experience are each (to varying degrees) associated with the ROA gap of foreign-owned companies, and that intrafirm-import content of sales is generally not. To determine whether a particular factor still independently does or does not contribute to differences in the ROA gaps once the influence of each of the other factors is taken into account, the measures of market share, newness, and intrafirm-import content were included as independent variables in a multivariate regression equation in which the ROA gap was the dependent variable. The equation was estimated using data for 2,133 foreign-owned manufacturing companies in 1992.²⁵

It was not necessary to include a variable for industry in the equation, because the manner in which the data are constructed implicitly controls for industry effects; that is, for each foreign-owned company, the gap is computed as the ROA for the company less the average ROA for U.S.-owned companies in the same industry. It was not possible to include a variable for the benefit of experience, because that variable is tested in a dynamic, rather than a static, framework. That is, the effect of experience was tested using time-series data; however, data limitations made it necessary to base the estimation of the multivariate regression equation on data for a single year.

The regression results confirmed that, even after allowing for the influence of the other measures, market share and newness were each significantly correlated with differences in the ROA gaps, and that intrafirm-import content was not.

As noted earlier, there could be relationships between some of the explanatory variables that, if present, might influence the results of the regression analysis; in particular, such relationships would tend to make it difficult to discern the independent effect of each variable. Statistical tests performed in conjunction with the multivariate analysis suggest that such relationships were not significant. (See the technical note for summary results of the regression analysis.)

^{23.} To see if imports might affect profitability in other ways, such as by influencing the cost of inputs, the relationship between the *total* import content of sales and the ROA gap was also tested. However, as was the case for intrafirm imports, the relationship was found to be statistically significant in only 2 of the 10 years studied. In light of the results of the analysis of intrafirm imports, this result was to be expected because intrafirm imports accounted for 80 percent, on average, of total imports of goods by foreign-owned companies during the period.

In addition to intrafirm imports, the relationship between foreign-owned companies' ROA's and their intrafirm exports was tested. However, the regression analysis provided no evidence that foreign-owned companies with larger intrafirm export-to-sales ratios have larger ROA gaps. The opportunity for foreign-owned companies to use exports for profit shifting is probably limited. Their intrafirm exports are significantly smaller than their intrafirm imports, and the exports are more likely to consist of standard goods for which arm's-length prices are readily available. The only previous study to examine explicitly the relationship between trade and profits was Laster and McCauley [9]; their findings were based primarily on tests using imports, but they also examined the relationship between profits and exports and, like this study, found no correlation

^{24.} Data for majority-owned foreign affiliates of U.S. multinational companies suggest that effective tax rates for the five foreign investing countries

varied considerably and that tax rates in the United Kingdom were particularly low relative to those in the United States. For a study of corporate tax rates in the member countries of the Organisation for Economic Co-Operation and Development, see KPMG [7].

^{25.} The estimation was restricted to manufacturing and to 1992 because market-share estimates were available only in that industry and only in that year.

Technical Note

This note explains how the ROA estimates were computed, describes the statistical methods used for analysis, and presents summary results of the regression analysis.

Computation of the ROA estimates

The ROA estimates for foreign-owned nonfinancial companies and U.S.-owned nonfinancial companies were computed as the ratio of profits plus interest paid to the average of beginningand end-of-year total assets.²⁶ (Tables 8 and 9 summarize the derivation of the numerator and denominator of the ROA estimates.) Profits are the national income and product accounts (NIPA's) item "profits from current production," which measures profits before deduction of income taxes and excluding nonoperating items such as capital gains and losses and income from equity investments. Profits from current production reflect the value of inventory withdrawals and depreciation on a current-cost basis. Interest paid is gross interest paid (that is, interest receipts are not netted against interest payments). Total assets consist of

Table 8.—Derivation of the Numerator of the ROA Estimates for Nonfinancial Companies for 1997

[Millions of dollars]

| | Foreign-owned companies | |
|----------------------|---|---|
| 1 2 3 4 | Profit-type return 1 | 45,635 2,233 433 |
| 5 6 7 8 | expenditures Amortization of intangible assets Effect of recognition of software as fixed investment Monetary interest paid Equals: Numerator | 766 4,309 829 40,452 94,657 |
| | All U.S. companies | 2 4,521 |
| 9 | Corporate profits with inventory valuation adjustment, NIPA's 2 | 510,927 |
| 10 11 12 13 | Plus: CCAdj for consistent accounting at historical cost 3 | 114,934 -63,092 378,018 940,787 |
| | U.Sowned companies | |
| 14 | Numerator (line 13 less line 8) | 846,130 |

As published in Zeile (1999), 36. includes an inventory valuation adjustment.
 As published in NIPA table 6.16C. In the NIPA's, petroleum and natural gas exploration and development expenditures, business purchases of software, and business own-account soft-ware production are regarded as fixed investment. Also, amortization of intangible assets is not

both tangible and intangible assets but exclude assets for which the return is not included in the numerator of the ROA ratio. Reproducible tangible assets are valued at current cost—that is, at the price that would have been paid for them if they had been purchased new in the period to which the estimates refer.

Most of the information used to compute the ROA's for foreign-owned companies is available from BEA's surveys of foreign direct investment in the United States, and most of the information used for U.S.-owned companies is available from the NIPA's. However, some of the data used to compute the ROA's for both groups of companies had to be obtained from other sources or estimated. Most of the estimation involved allocating estimates at the all-industries level to individual industries; these estimates were allocated to individual companies using identical methods. These allocations required assumptions that may have resulted in the understatement or overstatement of some of the ROA components for some industries or companies. However, it is unlikely that these allocations had a material impact on the analysis, because the allocated items' contribution to the ROA estimates was small relative to the variation in the estimates across industries and to the size of the gaps between the estimates for foreign- and U.S.-owned companies. Checks using alternative methods to allocate the estimated data across industries confirmed that the ROA patterns for foreign- and U.S.-owned companies were not

Table 9.—Derivation of the Denominator of the ROA **Estimates for Nonfinancial Companies for 1997** [Millions of dollars]

| | <u> </u> | | |
|--------------------------|--|--|---|
| | | 1996 | 1997 |
| | Foreign-owned companies | | |
| 1 2 3 4 5 | Current-cost net plant and equipment Plus: Current-cost inventories Cither assets Less: Amortizable intangible assets Equity investment in unconsolidated businesses Equals: Current-cost assets | 484,327 164,995 830,418 86,261 97,828 1,295,651 | 505,971 169,513 898,848 90,149 106,197 1,377,986 |
| 7 | Denominator ¹ | .,, | 1,336,819 |
| | All U.S. companies | | , , |
| 8 9 10 11 12 | Current-cost net plant and equipment | 4,249,578 1,145,500 7,745,510 683,108 | 727,655 |
| 13 | businesses Equals: Current-cost assets | 963,974 11,493,506 | 986,543 12,223,126 |
| 14 | Denominator 1 | | 11,858,316 |
| | U.Sowned companies | | |
| 15 | Denominator (line 14 less line 7) | | 10,521,498 |

^{1.} Equals the average of current-year and prior-year current-cost assets NOTES.—See the technical note for more information. Assets are valued at yearend ROA Return on assets

^{26.} The data for U.S.-owned companies is restricted to corporations because the source data used are available only for those companies. In 1997, foreignowned corporations accounted for 95 percent of the gross product (value added) of all foreign-owned companies.

cognized as an expense.

3. As published in NIPA table 8.15.

4. Consistent, in concept, with data in NIPA table 8.20. The estimates presented here are eliminary and have since been revised.

NOTE.—See the technical note for more information. CCAdj Capital consumption adjustment E&D Exploration and development NIPA's National Income and Product Accounts ROA Return on assets

significantly affected by the method used for the allocations.

Foreign-owned companies

Profits.—Profits from current production for foreign-owned companies were estimated by adjusting the existing estimates of the companies' 'profit-type return" (PTR) to place depreciation charges on a consistent accounting basis that reflects geometric depreciation patterns and to value them at current costs. The PTR estimates include an adjustment to place inventories, but not depreciation, on a current-cost basis.²⁷ To remove inconsistencies in the valuation of depreciation, a capital consumption adjustment (CCAdj) was computed for foreign-owned companies. In addition, to be consistent with profits from current production, the PTR of foreign-owned companies was adjusted to make it more consistent with the NIPA treatment of expensed petroleum and natural gas exploration charges, amortization of intangible assets, and business purchases of computer software.²⁸

The profit estimates for foreign-owned companies required a CCAdj because depreciation reported on the direct investment surveys is valued at historical cost.²⁹ The CCAdj, which is the difference between the historical-cost and the current-cost value of depreciation charges, comprises two parts: One part adjusts depreciation charges used by businesses in financial or tax accounting so that they are on a consistent historical-cost accounting basis, and the other part adjusts those charges to a current-cost basis.³⁰

The CCAdj estimates for the PTR of foreignowned companies were based on CCAdj estimates that BEA has computed for income on foreign direct investment in the United States as shown in the international transactions accounts (ITA's).31 The ITA estimates are based on (1) estimates of historical-cost depreciation from data collected in annual and benchmark surveys and (2) estimates of current-cost depreciation computed by BEA using a perpetual-inventory model that takes into account the service lives and depreciation rates of the assets.32 Because direct investment income in the ITA's reflects the foreign parent company's share in the earnings of their U.S. affiliates, the CCAdj estimates used in the ITA's are adjusted for percentage of foreign ownership. The CCAdj estimates are made only at the all-industries level.³³

The CCAdj estimates from the ITA's were used to adjust the PTR of foreign-owned companies. Because PTR reflects the total earnings of foreignowned companies, not just the foreign parents' share, the two CCAdj components were modified to remove the adjustment for percentage of foreign ownership. The modified adjustment for consistent accounting at historical cost was allocated to individual industries in proportion to the industries' respective shares in the reported depreciation charges in that year; this procedure assumes that the composition of the fixed assets and the relationship between financial-statement-based and consistent-historical-cost depreciation charges is the same across industries. The adjustment for current cost was allocated to individual industries according to industry-level estimates of the ratio of historical-cost to current-cost depreciation for all U.S. companies from BEA's wealth estimates.

The adjustment for current cost may have been overstated or understated in some industries because the industrial distribution of the ratio of historical-cost to current-cost depreciation for all U.S. companies from the BEA wealth estimates is based on data for establishments, which are classified by the principal product or service produced at each establishment; in contrast, the distribution of the depreciation charges for foreign-owned com-

^{27.} BEA estimates the PTR of foreign-owned companies from financial and operating data reported in its annual and benchmark surveys of foreign direct investment in the United States. These data provide a picture of the overall operations of foreign-owned companies, and include balance sheets and income statements, employment and compensation of employees, trade in goods, research and development expenditures, sources of finance, and selected data by State. The PTR estimates are based primarily on data from the income statement and are computed as net income (before the deduction of income taxes or depletion charges), excluding capital gains and losses, income from equity investments, and other nonoperating income, and they also include an inventory valuation adjustment. For a summary of the most recent estimates—covering 1997—see Zeile [25]. For more detailed estimates, see U.S. Department of Commerce [18]

^{28.} The NIPA profit measure is primarily based on tabulations of business tax return data by the Internal Revenue Service (IRS). NIPA table 8.25 shows the relationship between NIPA profit measures and the corresponding measures published by the IRS. For the most recent estimates, see U.S. Department of Commerce (201.

^{29.} The data collected in the direct investment surveys are required to be reported as they would have been in the financial statements of the foreign-owned companies and generally reflect U.S. generally accepted accounting principles (GAAP). Under GAAP, depreciable assets and their related depreciation charges are usually valued at historical cost, and depreciation charges generally follow a straight-line (rather than a geometric) pattern.

^{30.} For more information about these adjustments, see page M-6 of U.S. Department of Commerce [19] and page 2 of U.S. Department of Commerce [16].

^{31.} BEA collects data on direct investment income, along with data on other transactions and positions between foreign parent companies and their U.S. affiliates needed for preparation of the ITA's and NIPA's, in quarterly surveys of foreign direct investment in the United States. (Parallel surveys are conducted for U.S. direct investment abroad.) Unlike the data from the annual and benchmark surveys described in footnote 27, which cover the overall operations of foreign-owned companies, the data from the quarterly surveys cover only transactions and positions between foreign parent companies and their U.S. affiliates.

^{32.} For a description of the perpetual-inventory model, see pages M-4 to M-6 of U.S. Department of Commerce [17].

^{33.} The CCAdj estimates, which extend back to 1982, were introduced in Murad [12], pp. 72–73.

panies is based on data collected for enterprises (companies), which are classified by the principal product or service produced by all of their establishments combined.

Profits of foreign-owned companies were also adjusted to include three items that are treated as expenses in the computation of PTR but not in the computation of NIPA profits: Expenditures for petroleum and natural gas exploration and development, amortization of intangible assets, and purchases of software.³⁴ The estimates of amortization of intangible assets were computed in three steps: First, the stock of amortizable intangible assets was estimated from balance sheet data for the companies reported on the direct investment surveys and for all U.S. corporations from the Internal Revenue Service's Corporate Source Book [23] (the estimation procedure is described in the section "Total assets")³⁵; second, annual amortization charges were computed based on these stock estimates and on an assumed amortization pattern (using amortization rules prescribed by U.S. generally accepted accounting principles); and finally, profits for foreign-owned companies were adjusted to reflect BEA's new treatment of software in the profit estimates for all domestic corporations.³⁶

These adjustments make the estimates of profits from current production (and profit-type return) for foreign-owned companies as comparable as possible with their counterparts in the NIPA's.

However, one minor difference could not be eliminated. For the NIPA profits measures, accounting provisions for losses related to bad debts are not treated as an expense, whereas such provisions are treated as an expense for foreign-owned companies' PTR.

Total assets.—Current-cost assets of foreignowned companies were estimated by applying several adjustments to the financial-accounting-based total assets data for foreign-owned companies. First, the reported values for net plant and equipment and for inventories for all foreign-owned companies were revalued to current prices using ratios of historical-cost to current-cost net plant and equipment and inventories. These adjustment ratios are generated by the perpetual inventory model used to compute the CCAdj and inventory valuation adjustment for direct investment income in the ITA's. Industry-level current-cost estimates were derived by applying the all-industries ITA adjustment ratios to the reported historical-cost data for each industry. This procedure implicitly assumes that the ratios of historical- to currentcost tangible assets are the same for each industry. Assets other than plant and equipment and inventories did not have to be adjusted, because those assets, which are mostly financial assets, are usually valued at (or near) current cost in financial accounting.37

Second, the value of equity investments in unconsolidated businesses was subtracted from total assets for consistency with the profit estimates (which exclude income from such investments).

Third, an estimate of amortizable intangible assets was subtracted from total assets. The estimate was derived by multiplying the ratio of amortizable intangible assets to "other noncurrent assets" for all U.S. companies from the Corporate Source Book by reported data on foreign-owned companies' "other noncurrent assets."38 This adjustment was made to improve consistency with the profit measure (which, as noted above, excludes the amortization of intangible assets) and to lessen the impact of variations in the level of acquisition-related amortizable intangible assets on changes in the estimated ROA's. (See the section "Age effects" in the text for details.)

^{34.} Data on expenditures of foreign-owned companies for petroleum and natural gas exploration and development are collected in BEA's annual and benchmark surveys of foreign direct investment in the United States.

In the NIPA's, expenditures for mining exploration, shafts, and wells are treated as fixed investment and, accordingly, the NIPA profits measures reflect the depreciation associated with the investments rather than the expenditures themselves. Because the data are unavailable to measure the depreciation associated with the investments by foreign-owned companies, the PTR of the foreign-owned companies could not be adjusted to reflect the depreciation.

^{35.} The estimates for 1997 were mainly based on data from the Census Bureau's Quarterly Financial Report [14] because 1997 data were not available from the Corporate Source Book

^{36.} In the NIPA's, business purchases of software and business own-account software production are regarded as fixed investment. Business incomes (proprietors' income and corporate profits) are increased by the elimination of the deductions for the purchases of software and by the addition of the value of the production of own-account software as a receipt. These effects are partly offset by the deduction of the consumption of fixed capital (depreciation) on both purchased software and own-account software production. (For details, see Moulton, Parker, and Seskin [11].)

In the reports to BEA, for the period covered by this study, foreign-owned companies are believed to have treated software purchases and development of own-account software primarily as current expenses rather than fixed investment. (Until recently, there were no authoritative accounting guidelines on how companies should treat these software items in their financial reports. Beginning in 1998, the Accounting Standards Executive Committee of the American Institute of Certified Public Accountants (AICPA) has advised all of its members to treat them as fixed investment (see AICPA [1] for details).

Accordingly, it was necessary to adjust the profits of foreign-owned companies to make the treatment of software consistent with that in the NIPA's. The adjustment was estimated in two steps: First, the overall adjustment for all foreign-owned nonfinancial companies was derived based on the data for all U.S. corporations from the NIPA's on the software-related effects on profits and on the foreign-owned companies' share of corporate gross domestic product; second, the adjustment for foreign-owned companies was allocated by industry based on the industry distribution of total U.S. expenditures for computer and data processing services from the 1992 input-output accounts [15].

^{37.} It would have also been desirable to revalue holdings of land to currentperiod prices, but this was not done, because the necessary price data were unavailable. Because land's share of the total assets of both foreign-owned and U.S.-owned companies is very small, any adjustment probably would not have had a material impact on the ROA estimates.

^{38. &}quot;Other noncurrent assets" are all noncurrent assets except (1) equity investments involving 20 percent or more equity ownership and (2) net property, plant, and equipment.

U.S.-owned companies

Most of the data used to compute industry-level ROA's for all U.S. nonfinancial companies are available from the NIPA's and from the IRS Corporate Source Book. The derivation of those ROA estimates is explained below. Once the ROA estimates for all nonfinancial U.S. companies were computed, estimates for nonfinancial U.S.-owned companies were derived by subtracting the estimates for foreign-owned nonfinancial companies.

The NIPA's provide most of the data used to compute the numerator of the ROA ratios. They provide estimates of profits from current production for all U.S. companies but not by industry, because industry-level estimates of the CCAdj are not available. They also provide industry-level estimates of interest paid.

Profits.—Industry-level estimates of profits from current production for all U.S. companies were derived by computing and applying a CCAdj to the historical-cost industry-level estimates from the NIPA's. To compute industry-level CCAdj's, the aggregate adjustments from the NIPA's were allocated to individual industries. These allocations were made using the same techniques used for the estimates for foreign-owned companies; that is, the adjustment for consistent accounting at historical cost was allocated by industry using annual industry-level data on historical-cost depreciation from the Corporate Source Book. The adjustment for current cost was allocated by industry using industry-level estimates of the ratio of historical-cost to current-cost depreciation for all U.S. companies from BEA's wealth estimates. Because the data used to calculate the ratios are for business establishments and the profits data are for companies, the adjustment for current cost may be understated or overstated in some industries.

Total assets.—The Corporate Source Book provides the industry-level asset data to compute industry-level ROA estimates for all U.S. companies for this analysis. These data are at historical cost, so adjustments had to be made to derive estimates in current-period prices. Specifically, the industry-level estimates of net plant and equipment and of inventories for all nonfinancial U.S. corporations from the Corporate Source Book were revalued from historical cost to current prices using industry-level ratios of historical-cost assets to current-cost assets from BEA's wealth estimates. To make the denominator more reflective of the companies' own operations, the resulting estimates of current-

cost assets were adjusted to remove an estimate of the value of equity investments in unconsolidated businesses.³⁹ Finally, amortizable intangible assets from the *Corporate Source Book* were subtracted from total assets.

An adjustment could not be made for the potential difference in the levels of consolidation underlying the asset and profit data for all U.S. corporations. The level of consolidation of the NIPA profit data reflects the profits and related revenue and expense items reported on the IRS forms that are used in the estimation of NIPA profits by industry. Companies are required to report total assets and other balance sheet items to IRS on their income tax forms, and, when doing so, tend to follow U.S. generally accepted accounting principles (GAAP). Under GAAP, companies must consolidate subsidiaries in which they directly or indirectly control a majority interest (over 50 percent). In contrast, the IRS allows U.S. corporations to consolidate subsidiaries in which they control an 80-percent interest when reporting their profit data. If differences in the level of consolidation caused a company's profit data and assets data to appear in different industries, then the resulting ROA estimates may be understated or overstated for some industries.

Identification of industry-mix effects

The ROA gap was decomposed statistically into industry-mix, within-industry, and interaction effects. First, the ROA for all industries may be expressed as a weighted average of the ROA's in individual industries; the weight for any given industry is the industry's share of total assets. Thus, the average ROA for U.S.-owned companies can be expressed as

$$ROA^{u} = \sum_{i=1}^{30} s_{i}^{u} ROA_{i}^{u},$$

and the average ROA of foreign-owned companies can be expressed as

$$ROA^{f} = \sum_{i=1}^{30} s_i^f ROA_i^f,$$

where ROA is the average return on assets for the 30 industries, ROA_i is the average return on assets for industry i, and s_i is ith industry's share of the total assets of companies in the 30 industries.

^{39.} Because the Corporate Source Book did not provide the necessary balance sheet detail, this estimate was derived from ratios for U.S. multinational companies that were calculated from data collected in BEA surveys of U.S. direct investment abroad.

Variables with the superscript f denote data for foreign-owned companies, and variables with the superscript u denote data for U.S.-owned companies. The ROA gap can then be decomposed algebraically as

$$ROA^{f} - ROA^{u} = \sum_{i=1}^{30} ROA_{i}^{u} (s_{i}^{f} - s_{i}^{u}) + \sum_{i=1}^{30} (ROA_{i}^{f} - ROA_{i}^{u}) s_{i}^{u} + \sum_{i=1}^{30} (ROA_{i}^{f} - ROA_{i}^{u})$$

$$(s_{i}^{f} - s_{i}^{u}).$$

The first term on the right side of the equation measures the effects of differences in industry mix; it is the ROA gap that would have resulted if, in each industry, ROA's were the same for both foreignowned companies and U.S.-owned companies and if the differences in the industrial distribution of assets were as observed. The second term on the right side measures the effects of within-industry ROA gaps; it is the ROA gap that would have resulted if both foreign-owned and U.S.-owned companies had the same distribution of assets by industry and if the ROA gaps in each industry were as observed. The third term reflects the interaction between these two effects.

Sample inference between two population means

The statistical significance of the differences between the average ROA gaps for foreign-owned companies with a "high" new-asset ratio and those with a "low" new-asset ratio was tested using a sample inference between two population means (see below). A test statistic was derived based on summary statistics for the ROA gaps for foreign-owned companies in the high and low new-asset-ratio classes. Because the number of observations was large and the observations were assumed to be normally distributed, the value of the test statistic was then checked against a critical t-statistic for the 1percent confidence level. The following formula was used to calculate the test statistic:

$$z = \frac{(\overline{GAP}_H - \overline{GAP}_L)}{\sqrt{\frac{\sigma_H^2}{n_H} + \frac{\sigma_L^2}{n_L}}}$$

where \overline{GAP} is the average ROA gap, σ^2 is the variance of the ROA gaps, and n is the number of observations. Variables with the subscript H

denote data for companies with a high new-asset ratio (25 percent or more), and variables with a subscript L denote data for companies with a low new-asset ratio (less than 25 percent). The choice of 25 percent as the threshold for the high and low new-asset ratios was based on patterns detected in less aggregated classes.

Regression analysis

The statistical significance of market share, the benefit of experience, and the intrafirm-import content of sales in explaining the low ROA's of foreign-owned companies was separately tested using univariate regression analysis of companylevel data. (Companies with an ROA gap that exceeded 25 percentage points in absolute value were considered outliers and were excluded from the analysis.) The dependent variable in each of the regression equations is the company's ROA gap, which is the company's ROA less the average ROA of U.S.-owned companies in the same indus-

Table 10.—Regression Results The equations are of the form: GAP = a + bX

| | Number of obser- | | ed coeffi- ents | t-statistic | R ² |
|--|--|--|--|---|---|
| | vations | а . | b | | |
| | (1) | (2) | (3) | (4) | (5) |
| Market share | | , | | | |
| All manufacturing industries | 2,133 | -3.1 | 0.07 | 3.29** | 0.005 |
| Benefit of experience | | | | | |
| All manufacturing industries Food and kindred products Textile mill products Apparel and other textile products Lumber, wood, furniture, and fixtures Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Petroleum and coal products Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Motor vehicles and equipment Other transportation equipment Instruments and related products Other | 20,830 740 200 100 160 200 210 820 100 460 480 650 540 1,250 270 270 200 | -2.2 -7.9 -1.4 -1.2 -5.0 -5.1 -5.1 -5.1 -5.1 -5.1 -7.9 -2.4 -7.8 -2.2 -2.2 | 0.07 0.68 0.29 -0.29 0.49 0.25 0.70 0.21 0.34 0.47 0.46 1.16 -0.25 0.56 | 5.13** 8.94** 1.47 -1.28 -0.12 3.39** 1.86 3.58** 3.60** 3.25** 5.34** 6.40** 5.87** 8.13** -0.94 4.12** 3.71** | 0.001 0.107 0.011 0.011 0.017 0.050 0.011 0.024 0.047 (1) 0.035 0.051 0.006 0.065 0.065 |
| Intrafirm-import content of sales 1988 1989 1990 1990 1991 1992 1993 1994 1995 1996 | 3,067 3,257 3,522 3,709 3,241 4,350 4,361 4,428 4,466 4,339 | -2.8 -3.0 -4.0 -2.1 -2.1 -1.2 -1.7 -0.6 | -0.01 -0.01 -0.01 -0.01 -0.02 -0.02 -0.03 -0.03 -0.03 -0.03 | -1.81 0.20 0.92 1.40 -1.42 -0.83 -2.76** -0.69 -4.72** -2.52* | 0.001 (†) 0.001 (†) (†) (†) 0.015 (†) 0.005 0.002 |

[&]quot;Significant at the 1-percent level.
"Significant at the 5-percent level.
(†) In column 3, less than 0.005 (±); in column 5, less than 0.0005 (±).

NOTE.—The dependent variable in each equation is the ROA gap. See the text for a description of the independent variables (X).

try. The estimated equations and their summary statistics are presented in table 10.

For the market-share and intrafirm-import equations, the number of observations is the number of companies included in the regression. The benefit of experience was tested using a panel data regression covering the years 1988–97; thus, there were 10 observations for each company. In table 10, a is the intercept term, and b is the coefficient of the independent variable.

The independent variables are as follows: For market share, the average market share of the company across all of its products; for the benefit of experience, the number of years that the company is in the panel (1 through 10); and for intrafirm-import content of sales, the percentage of the company's sales that was accounted for by intrafirm imports of goods.

In addition to the univariate analysis, multivariate regression analysis of the effects of market share, newness, and intrafirm-import content was also performed to determine whether the results differ when several explanatory variables are examined simultaneously. (It was not possible to include a variable for the benefit of experience, because that variable is tested in a dynamic, rather than a static, framework.) Using 2,133 foreign-owned manufacturing companies in 1992 as observations, the estimation yielded the following results:

$$GAP = -2.90 + .07MS - .03NEW + .01IMPORT$$

(3.42) (-3.30) (0.30)
 $R^2 = .010$,

where GAP, MS, NEW, and IMPORT are measures of the ROA gap, market share, newness, and intrafirm-import content of sales, respectively. The t-statistics for the independent variables, which appear in parentheses, indicate that the coefficients for market share and newness are statistically significant at the 1-percent level, but the coefficient for the intrafirm-import content of sales is not.

There could be relationships between the explanatory variables (multicollinearity) that influence the results of the regression analysis; in particular, such relationships would tend to make it difficult to discern the independent effect of each variable. Two factors suggest the absence of multicollinearity in this case: (1) the strength of the t-statistics for the significant coefficients and (2) the virtual absence of collinearity between the estimated coefficients as indicated by a correlation matrix.

References

- 1. American Institute of Certified Public Accountants (AICPA). Accounting for the Costs of Computer Software Developed or Obtained for Internal Use. Statement of Position 98–1 New York, AICPA: 1998.
- 2. Buzzell, Robert D., Bradley T. Gale, and Ralph G.M. Sultan. "Market Share—A Key to Profitability." *Harvard Business Review* 53 (January-February 1975): 97–106.
- 3. Grubert, Harry, Timothy Goodspeed, and Deborah Swenson. "Explaining the Low Taxable Income of Foreign-Controlled Companies in the United States." In *Studies in International Taxation*, edited by Alberto Giovannini, Glenn Hubbard, and Joel Slemrod, 237–75. Chicago: University of Chicago Press, 1993.
- 4. Grubert, Harry. "Another Look at the Low Taxable Income of Foreign-Controlled Companies in the United States." U.S. Treasury Department, Office of Tax Analysis Paper 74. October 1997.
- 5. Johnson, Kenneth P., Dale P. Shannon, and William J. Zeile. "Regional Patterns in the Location of Foreign-Owned U.S. Manufacturing Establishments." Survey of Current Business 79 (May 1999): 8–25.
- 6. Kohli, Ajay K., N. Venkatraman, and John H. Grant. "Exploring the Relationship Between Market Share and Business Profitability." *Research in Marketing* 10 (1990): 113–133.
- 7. KPMG International Tax and Legal Centre. "Corporate Tax Rate Survey, January 1999." In the Virtual Tax Library at <www.tax.kpmg.net>. Accessed March 1, 2000.
- 8. Landefeld, J. Steven, Ann M. Lawson, and Douglas B. Weinberg. "Rates of Return on Direct Investment." Survey of Current Business 72 (August 1992): 79–86.
- 9. Laster, David S. and Robert N. McCauley. "Making Sense of the Profits of Foreign Firms in the United States." Federal Reserve Bank of New York Quarterly Review (Summer-Fall 1994): 44–75.
- 10. Lupo, L.A., Arnold Gilbert, and Michael Liliestedt. "The Relationship Between Age and Rate of Return of Foreign Manufacturing Affiliates of U.S. Manufacturing Parent Companies." Survey of Current Business 58 (August 1978): 60–66.
- 11. Moulton, Brent R., Robert P. Parker, and Eugene P. Seskin. "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes." Survey of Current Business 79 (August 1999): 7–20.

- 12. Murad, Howard. "U.S. International Transactions: First Quarter 1992 and Revised Estimates for 1976–91." Survey of Current Business 72 (June 1992): 60–113.
- 13. Porter, Michael E. "The Structure Within Industries and Companies' Performance." *Review of Economics and Statistics* 25 (May 1979): 214–27.
- 14. U.S. Department of Commerce, Bureau of the Census. Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations, First Quarter 1998, Series QFR/98–1. Washington, DC: U.S. Government Printing Office, 1998.
- 15. U.S. Department of Commerce, Bureau of Economic Analysis. *Benchmark Input-Output Accounts of the United States*, 1992. Washington, DC: U.S. Government Printing Office, September 1998.
- 16. U.S. Department of Commerce, Bureau of Economic Analysis. Corporate Profits: Profits Before Tax, Profits Tax Liability, and Dividends. Methodology Paper Series MP-2. Washington, DC: U.S. Government Printing Office, May 1985.
- 17. U.S. Department of Commerce, Bureau of Economic Analysis. *Fixed Reproducible Tangible Wealth in the United States*, 1925–94. Washington, DC: U.S. Government Printing Office, August 1999.
- 18. U.S. Department of Commerce, Bureau of Economic Analysis. Foreign Direct Investment in the United States: Preliminary Results from the 1997 Benchmark Survey. Washington, DC: U.S. Government Printing Office, September 1999.

- 19. U.S. Department of Commerce, Bureau of Economic Analysis. *National Income and Product Accounts of the United States*, 1929–94: Volume 1. Washington, DC: U.S. Government Printing Office, April 1998.
- 20. U.S. Department of Commerce, Bureau of Economic Analysis. "National Income and Product Accounts Tables." Survey of Current Business 79 (December 1999): 44–131.
- 21. U.S. Department of Commerce, Bureau of Economic Analysis. "Note on Rates of Return for Domestic Nonfinancial Corporations, 1960–98." Survey of Current Business 79 (June 1999): 13–15.
- 22. U.S. Department of Labor, Bureau of Labor Statistics. *Employment and Wages, Annual Averages*. Washington, DC: U.S. Government Printing Office, annual.
- 23. U.S. Department of the Treasury, Internal Revenue Service, Statistics of Income Division. *Corporate Source Book.* Washington, DC: U.S. Government Printing Office, annual.
- 24. U.S. Department of the Treasury, Internal Revenue Service, Statistics of Income (SOI) Division. "Foreign-Controlled Domestic Corporations." *SOI Bulletin* 19 (Fall 1999): 143–213.
- 25. Zeile, William J. "Foreign Direct Investment in the United States: Preliminary Results from the 1997 Benchmark Survey." SURVEY OF CURRENT BUSINESS 79 (August 1999): 21–54.

BEA CURRENT AND HISTORICAL DATA

National, International, and Regional Estimates

This section presents an extensive selection of economic statistics prepared by the Bureau of Economic Analysis and a much briefer selection of collateral statistics prepared by other Government agencies and private organizations. Series originating in Government agencies are not copyrighted and may be reprinted freely. Series from private sources are provided through the courtesy of the compilers and are subject to their copyrights.

BEA makes its economic information available on three World Wide Web sites. The BEA Web site <www.bea.doc.gov> contains data, articles, and news releases from BEA's national, international, and regional programs. The Federal Statistical Briefing Room (FSBR) on the White House Web site <www.whitehouse.gov/fsbr> provides summary statistics for GDP and a handful of other NIPA aggregates. The Commerce Department's STAT-USA Web site <www.stat-usa.gov> provides detailed databases and news releases from BEA and from other Federal Government agencies by subscription; for information, go to the Web site or call 202-482-1986.

The tables listed below present annual, quarterly, and monthly estimates, indicated as follows: [A] Annual estimates only; [Q] quarterly estimates only; [QA] quarterly and annual estimates; [MA] monthly and annual estimates.

National Data

A. Selected NIPA Tables: [QA]

S. Summary tables......D-2 1. National product and incomeD-3 2. Personal income and outlaysD-7 3. Government receipts, current expenditures, and 4. Foreign transactions......D-12 B. Other NIPA and NIPA-related tables: Monthly estimates: [MA] Annual estimates: [A] B.4. Personal consumption expenditures by type of expenditure......D-31 B.5. Private purchases of structures by type D-32 B.6. Private purchases of producers' durable equipment by type......D-32 B.7. Compensation and wage and salary accruals B.9. Wage and salary accruals and employment by industry per full-time equivalent......D-35 B.10. Farm sector output, gross product, and national income.......D-36 B.11. Housing sector output, gross product, and B.12. Net stock of fixed private capital, by type....... D-37 C. Historical measures: [A] C.1. Historical estimates for major NIPA aggregates......D-38 E. Charts: Selected NIPA seriesD-43

International Data

| F. Transactions tables: |
|---|
| F.1. U.S. international transactions in goods |
| and services [MA]D-51 |
| F.2. U.S. international transactions [QA]D-52 |
| F.3. Selected U.S. international transactions, |
| by area [O] D_53 |
| by area [Q]D-53 F.4. Private service transactions [A]D-56 |
| 1.4.111vate service transactions [11] |
| G. Investment tables: |
| G.1. International investment position of the United |
| States [A] |
| G.2. USDIA: Selected items [A] |
| G.3. Selected financial and operating data for nonbank |
| foreign affiliates of U.S. companies [A]D-59 |
| G.4. FDIUS: Selected items [A] |
| G.5. Selected financial and operating data of nonbank |
| U.S. affiliates of foreign companies [A] |
| U.S. attitudes of foreign companies [A] |
| H. International perspectives [MA, QA]D-62 |
| I. Charts |
| |
| Regional Data |
| U |
| • |
| J. State and regional tables: |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A]D-66 J.3. Per capita personal income and disposable personal incomeD-67 J.4. Gross state product [A]D-68 K. Local area tableD-69 L. Charts |
| J. State and regional tables: J.1. Total and nonfarm personal income [QA]D-65 J.2. Percent of personal income for selected components [A] |

National Data

A. Selected NIPA Tables

The tables in this section include the most recent estimates of gross domestic product and its components; these estimates were released on February 25, 2000 and include the "preliminary" estimates for the fourth quarter of 1999.

The selected set of NIPA tables shown in this section presents quarterly estimates, which are updated monthly; in most of these tables, annual estimates are also shown.

The news release on gross domestic product (GDP) is available within minutes of the time of release, and the "Selected NIPA Tables" are available later that day, on STAT-USA's Web site <www.stat-usa.gov>; for information, call STAT-USA on 202–482–1986. The GDP news release is also available within minutes of the time of release, and the "Selected NIPA Tables" a day or two later, on BEA's Web site <www.bea.doc.gov>.

The "Selected NIPA Tables" are also available on printouts or diskettes from BEA. To order NIPA subscription products, call the BEA Order Desk at 1–800–704–0415 (outside the United States, 202–606–9666).

S. Summary Tables

Table S.1.—Summary of Percent Change From Preceding Period in Real Gross Domestic Product and Related Measures

[Percent]

| | | | S | easonall | y adjuste | ed at ann | ual rates | S |
|---|--|---|--|--|---|--|---|---|
| | 1998 | 1999 | 19 | 98 | • | 199 | 99 | |
| | | | 111 | IV | ı | II | Ш | IV |
| Gross domestic product | 4.3 | 4.1 | 3.8 | 5.9 | 3.7 | 1.9 | 5.7 | 6.9 |
| Personal consumption expenditures Durable goods Nondurable goods Services | 4.9 11.3 4.0 4.0 | 5.3 11.5 5.4 4.0 | 3.9 4.1 2.4 4.7 | 4.6 20.4 5.0 1.5 | 6.5 12.4 8.9 4.2 | 5.1 9.1 3.3 5.2 | 4.9 7.7 3.6 5.0 | 5.9 13.0 7.2 3.8 |
| Gross private domestic investment Fixed investment Nonresidential Structures Equipment and software Residential Change in private inventories | 11.7 11.8 12.7 4.1 15.8 9.2 | 5.8 8.0 8.3 –2.6 12.0 7.4 | 10.4 2.0 0 -6.6 2.4 8.0 | 11.5 13.8 15.3 5.8 18.6 9.8 | 3.6 9.1 7.8 –5.8 12.5 12.9 | -2.1 6.6 7.0 - 5.3 11.2 5.5 | 13.6 6.8 10.9 -3.8 15.7 -3.8 | 10.0 2.1 2.5 -4.3 4.7 1.0 |
| Net exports of goods and services Exports Goods Services Imports Goods Services Services | 2.2 2.1 2.5 11.6 11.7 10.8 | 3.6 4.0 2.8 11.8 12.7 7.6 | -1.7 1.6 -8.8 5.2 4.9 6.4 | 16.1 19.4 8.6 10.8 12.8 1.6 | -5.5 -9.3 4.1 12.5 12.6 11.9 | 4.0 4.3 3.2 14.4 15.5 8.9 | 11.5 16.9 0 14.9 17.3 3.6 | 8.7 10.5 4.5 10.0 9.3 13.9 |
| Government consumption expenditures and gross investment Federal National defense Nondefense State and local | 1.7 9 -1.9 1.0 3.2 | 3.7 2.8 1.8 4.7 4.2 | 1.3 -2.3 7.0 -17.4 3.3 | 2.9 3.9 –2.9 17.8 2.3 | 5.1 5 -4.0 6.1 8.2 | 1.3 2.1 -2.6 10.9 | 4.5 4.1 11.2 -7.1 4.8 | 9.2 14.2 16.7 9.9 6.6 |
| Addenda: Final sales of domestic product Gross domestic purchases Final sales to domestic purchasers | 4.3 5.4 5.4 | 4.5 5.1 5.5 | 2.4 4.6 3.2 | 6.2 5.5 5.8 | 4.6 5.8 6.7 | 3.4 3.2 4.7 | 4.5 6.3 5.2 | 5.6 7.2 5.8 |
| Gross national product Disposable personal income | 4.1 4.1 | 4.0 | 2.6 4.5 | 6.3 4.8 | 3.8 4.1 | 1.9 3.2 | 5.6 2.9 | 4.5 |

NOTE.—Percent changes from preceding period in the current-dollar and price measures for these series are shown in table 8.1.

Table S.2.—Summary of Contributions to Percent Change in Real Gross

Domestic Product

| **** | 1 | | | | | | | |
|--|--|--|--|--|--|--|---|---|
| | | | | easonally | / adjuste | | | s |
| | 1998 | 1999 | 19 | 98 | | 199 | 99 | |
| | | | 111 | 2 | ł | II | III . | IV |
| Percent change at annual rate: | | | | | | | | |
| Gross domestic product | 4.3 | 4.1 | 3.8 | 5.9 | 3.7 | 1.9 | 5.7 | 6.9 |
| Percentage points at annual rates: | | | | | | | | |
| Personal consumption expenditures Durable goods Nondurable goods Services | 3.24 .86 .79 1.59 | 3.54 .90 1.05 1.59 | 2.64 .33 .49 1.83 | 3.13 1.51 .98 .64 | 4.27 .96 1.68 1.63 | 3.36 .71 .64 2.01 | 3.33 .62 .73 1.97 | 4.03 1.02 1.44 1.57 |
| Gross private domestic investment | 1.93 1.86 1.49 .13 1.37 .37 | 1.01 1.33 1.02 08 1.10 | 1.74 .34 .01 21 .22 .33 | 1.94 2.20 1.79 .18 1.61 .41 | .67 1.48 .94 18 1.12 | 36 1.10 .86 16 1.02 .24 | 2.25 1.16 1.33 11 1.44 17 | 1.72 .39 .34 12 .46 |
| inventories | .07 | 32 | 1.40 | 26 | 80 | -1.46 | 1.09 | 1.33 |
| Net exports of goods and services Exports Goods Services Imports Goods Services Services | -1.18 .25 .17 .08 -1.43 -1.21 22 | -1.09 .39 .30 .09 -1.49 -1.32 16 | .82 18 12 30 65 51 13 | .33 1.65 1.38 .27 -1.32 -1.29 03 | -2.13 61 74 .13 -1.52 -1.28 24 | -1.35 .42 .32 .10 -1.77 -1.59 19 | -,72 1.19 1.19 0 -1.91 -1.83 08 | 43 .93 .79 .15 -1.37 -1.07 30 |
| Government consumption expenditures and gross investment Federal National defense Nondefense State and local | .31 06 08 .02 .37 | . 65 .17 .07 .10 .48 | .23 14 .27 42 .37 | . 51 .24 12 .36 .28 | .87 03 16 .13 | .23 .13 10 .23 .10 | . 81 .26 .42 16 .55 | 1.61 .84 .63 .21 |

NOTE.—More detailed contributions to percent change in real gross domestic product are shown in table 8.2. Contributions to percent change in major components of real gross domestic product are shown in tables 8.3 through

1. National Product and Income_

Table 1.1.—Gross Domestic Product

[Billions of dollars]

| | | | s | easonall | y adjusto | ed at an | nual rate | s |
|--|---|------------------------------------|---------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | _ |
| | | , _ | = | IV | 1 | H | Ш | īV |
| Gross domestic product | 8,759.9 | 9,254.6 | 8,797.9 | 8,947.6 | 9,072.7 | 9,146.2 | 9,297.8 | 9,501.6 |
| Personal consumption expenditures | 5,848.6 | 6,257.3 | 5,889.6 | 5,973.7 | 6,090.8 | 6,200.8 | 6,303.7 | 6,434.2 |
| Durable goods Nondurable goods Services | | 758.6 1,842.7 3,656.0 | 1,716.6 | 1,742.9 | 1,787.8 | 1,824.8 | 1,853.9 | 1,904.3 |
| Gross private domestic investment | 1,531.2 | 1,622.9 | 1,535.3 | 1,580.3 | 1,594.3 | 1,585.4 | 1,635.0 | 1,676.9 |
| Fixed investment | 1,460.0 1,091.3 272.8 818.5 368.7 71.2 | 893.8 411.3 | 1,087.2 271.7 815.4 | 1,121.4 278.0 843.4 387.5 | 1,139.9 274.7 865.2 403.4 | 1,155.4 272.5 882.9 412.4 | 1,181.6 272.1 909.5 412.7 | 1,189.2 271.5 917.7 416.6 |
| Net exports of goods and services | -149.6 | -255.5 | -165.7 | -161.2 | -201.6 | -245.8 | -278.2 | 296.4 |
| Exports Goods Services Imports Goods Services | 966.3 681.3 285.1 1,115.9 930.4 185.5 | | 667.2 281.9 | 693.3 288.6 1,143.1 | 674.3 292.6 1,168.5 | 680.5 297.7 1,224.0 | 299.7 1,286.6 1,079.3 | 731.5 304.7 1,332.6 1,119.2 |
| Government consumption expenditures and gross investment | 1,529.7 | 1,629.8 | 1,538.7 | 1,554.8 | 1,589.1 | 1,605.9 | 1,637.2 | 1,687.0 |
| Federal National defense Nondefense State and local | 538.7 348.6 190.1 991.0 | 570.5 364.5 206.1 1,059.3 | 354.7 185.0 | | 355.8 201.6 | 354.3 207.3 | 365.4 204.4 | 382.3 210.9 |

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 1.2.-Real Gross Domestic Product

[Billions of chained (1996) dollars]

| | | | , , | | | | | |
|--|---|----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|
| | 1 | | s | easonall | y adjuste | ed at an | nual rate | s |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | IV | 1 | n. | HI | IV |
| Gross domestic product | 8,516.3 | 8,867.0 | 8,536.0 | 8,659.2 | 8,737.9 | 8,778.6 | 8,900.6 | 9,050.9 |
| Personal consumption expenditures | 5,698.6 | 6,000.9 | 5,730.7 | 5,795.8 | 5,888.4 | 5,961.8 | 6,033.3 | 6,120.3 |
| Durable goods Nondurable goods Services | 731.5 1,685.3 3,284.5 | 815.7 1,775.8 3,417.3 | 731.2 1,692.0 3,309.6 | 766.0 1,712.6 3,322.0 | 788.8 1,749.5 3,356.5 | 806.1 1,763.7 3,399.2 | 821.2 1,779.3 3,440.6 | 846.6 1,810.6 3,473.0 |
| Gross private domestic investment | 1,547.4 | 1,637.7 | 1,551.1 | 1,593.9 | 1,608.2 | 1,599.8 | 1,651.6 | 1,691.5 |
| Fixed investment | 1,471.8 1,122.5 254.1 870.6 350.2 74.3 | 1,215.4 247.5 975.3 | 870.6 354.2 | 1,160.8 255.7 908.5 | 1,182.7 251.9 935.7 373.7 | 1,202.9 248.5 960.9 | 1,234.3 246.1 996.6 375.1 | 1,242.0 243.4 1,008.0 |
| Net exports of goods and services | -2 15.1 | -322.9 | _237.9 | -232.3 | -284.5 | -319.0 | -338.2 | -349.7 |
| Exports Goods Services Imports Goods Services | 722.8 284.4 1,222.2 | 292.4 1,366.5 1,162.2 | 712.0 281.1 1,231.0 1,037.9 | 744.2 287.0 1,263.1 1,069.7 | 726.4 289.9 1,300.9 1,102.0 | 734.1 292.2 1,345.4 1,142.5 | 292.2 1,393.0 1,188.9 | 782.6 295.4 1,426.7 1,215.6 |
| Government consumption expenditures and gross investment | 1,480.3 | 1,535.4 | 1,485.3 | 1,495.9 | 1,514.6 | 1,519.5 | 1,536.5 | 1,570.8 |
| Federal | 526.1 341.7 184.4 953.9 | 540.8 347.7 193.0 994.3 | | 344.9 187.1 | 341.4 189.9 | 339.2 194.9 | 348.3 191.3 | 362.0 |
| Residual | .9 | 5.2 | 2.9 | -2.2 | 2.6 | 8.1 | 6.4 | 3.8 |

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Percent changes from preceding period for selected items in this table are shown in table 8.1; contributions to the percent change in real gross domestic product are shown in table 8.2. Chain-type quantity indexes for the series in this table are shown in table 7.1.

Table 1.3.-Gross Domestic Product by Major Type of Product

| | | | S | easonall | y adjusto | ed at an | nual rate | s |
|---|---------|---------|---------|----------|-----------|----------|-----------|----------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | i | # | IV | _ | - | III | IV |
| Gross domestic product | 8,759.9 | 9,254.6 | 8,797.9 | 8,947.6 | 9,072.7 | 9,146.2 | 9,297.8 | 9,501.6 |
| Final sales of domestic | | | l | | | | | |
| product | | | 8,724.2 | | | | | |
| Change in private inventories | 71.2 | | | | 51.0 | | | |
| Goods | 1 ' | | 3,305.6 | | | | | |
| Final sales | 3,239.1 | 3,437.7 | 3,231.9 | 3,318.4 | 3,365.6 | 3,406.6 | 3,453.2 | 3,525.5 |
| Change in private inventories | 71.2 | 45.1 | 73.7 | 71.4 | 51.0 | 17.6 | 40.8 | 71.1 |
| Durable goods | 1,567.8 | 1.645.4 | 1,559.7 | 1,610.0 | 1,608.3 | 1,607.9 | 1,654.0 | 1,711.4 |
| Final sales | 1,528.9 | 1,619.3 | 1,519.9 | 1,571.4 | 1,584.3 | 1,601.7 | 1,631.1 | 1,660.0 |
| Change in private | | ١ | ٠., | | ١ | ۱ | | . |
| inventories | 38.9 | | | | | *** | | |
| Nondurable goods | | | 1,745.9 | | | | | |
| Final sales | 1,710.2 | 1,818.5 | 1,712.1 | 1,747.0 | 1,781.3 | 1,804.9 | 1,822.2 | 1,865.5 |
| Change in private inventories | 32.2 | 19.0 | 33.9 | 32.8 | 27.0 | 11.4 | 17.8 | 19.7 |
| Services | | | | | | | | |
| - | ' | 1 ' | 4,700.4 | | | | | |
| Structures | 785.1 | 841.2 | /91.9 | 809.9 | 835.3 | 836.5 | 840.1 | 852.9 |
| Addenda: | 040.0 | 1 240 - | 200 | 045.0 | 205.0 | 200.0 | ۸ محد | 250.4 |
| Motor vehicle output Gross domestic product less | 313.3 | 342.5 | 306.1 | 345.3 | 325.0 | 330.9 | 355.0 | 359.1 |
| motor vehicle output | 8,446.7 | 8,912.1 | 8,491.7 | 8,602.2 | 8,747.6 | 8,815.3 | 8,942.8 | 9,142.6 |

NOTE.-Percent changes from preceding period for gross domestic product and for final sales of domestic product are shown in table 8.1.

Table 1.5.-Relation of Gross Domestic Product, Gross Domestic Purchases, and Final Sales to Domestic Purchasers

[Billions of dollars]

| Gross domestic product | 8,759.9 | 9,254.6 | 8,797.9 | 8,947.6 | 9,072.7 | 9,146.2 | 9,297.8 | 9,501.6 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Less: Exports of goods and services | 966.3 | 997.4 | 949.1 | 981.8 | 966.9 | 978.2 | 1,008.5 | 1,036.2 |
| Plus: Imports of goods and services | 1,115.9 | 1,252.9 | 1,114.8 | 1,143.1 | 1,168.5 | 1,224.0 | 1,286.6 | 1,332.6 |
| Equals: Gross domestic purchases | 8,909.5 | 9,510.1 | 8,963.6 | 9,108.8 | 9,274.2 | 9,392.0 | 9,575.9 | 9,798.1 |
| Less: Change in private inventories | 71.2 | 45.1 | 73.7 | 71.4 | 51.0 | 17.6 | 40.8 | 71.1 |
| Equals: Final sales to domestic purchasers | 8,838.3 | 9,464.9 | 8,889.9 | 9,037.4 | 9,223.2 | 9,374.4 | 9,535.1 | 9,726.9 |

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 1.7.—Gross Domestic Product by Sector

[Billions of dollars]

| Gross domestic product | 8,759.9 | 9,254.6 | 8,797.9 | 8,947.6 | 9,072.7 | 9,146.2 | 9,297.8 | 9,501.6 |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Business 1 | 7,402.0 | 7,827.4 | 7,432.1 | 7,568.0 | 7,669.1 | 7,729.4 | 7,862.6 | 8,048.4 |
| | | | 7,351.6 | | | | | |
| Nonfarm less housing | 6,621.4 | 6,999.7 | 6,645.4 | 6,757.5 | 6,850.3 | 6,906.2 | 7,034.3 | 7,208.2 |
| Housing | 700.4 | 745.0 | 706.2 | 718.0 | 730.2 | 739.1 | 749.7 | 760.8 |
| Farm | 80.2 | 82.7 | 80.6 | 92.5 | 88.6 | 84.1 | 78.6 | 79.4 |
| Households and institutions | 385.6 | 408.3 | 388.4 | 393.4 | 399.7 | 404.9 | 411.0 | 417.7 |
| Private households | 14.0 | 15.9 | 14.3 | 15.2 | 15.6 | 15.8 | 16.0 | 16.2 |
| Nonprofit institutions | 371.6 | 392.4 | 374.1 | 378.2 | 384.1 | 389.0 | 395.0 | 401.5 |
| General government ³ | 972.3 | 1,018.9 | 977.4 | 986.2 | 1,003.9 | 1,012.0 | 1,024.2 | 1,035.6 |
| Federal | 296.9 | 308.2 | 297.5 | 298.8 | 307.8 | 307.2 | 308.3 | 309.7 |
| State and local | 675.4 | 710.7 | 679.9 | 687.3 | 696.1 | 704.7 | 715.9 | 725.9 |

Equals gross domestic product less gross product of households and institutions and of general government. Equals gross domestic business product less gross farm product. Equals compensation of general government employees plus general government consumption of fixed capital

Table 1.4.—Real Gross Domestic Product by Major Type of Product

[Billions of chained (1996) dollars]

| | | | - (1000, | | | | | |
|-------------------------------|---------|------------|----------|---|-----------|----------|-----------|---|
| | | | s | easonall | y adjuste | ed at an | nual rate | s |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | _ |
| | | | Ш | IV | 1 | 11 | III | IV |
| Gross domestic product | 8,516.3 | 8,867.0 | 8,536.0 | 8,659.2 | 8,737.9 | 8,778.6 | 8,900.6 | 9,050.9 |
| Final sales of domestic | i | | | | | | | l |
| product | 8,441.3 | 8,818,8 | 8,459.6 | 8,588.3 | 8,685.2 | 8,757.9 | 8,855.8 | 8,976.3 |
| Change in private inventories | 74.3 | 42.7 | 76.1 | 70.7 | 50.1 | 14.0 | 38.0 | 68.7 |
| Residual | .7 | 5.5 | .3 | .2 | 2.6 | 6.7 | 6.8 | 5.9 |
| Goods | 3.330.5 | 3.509.5 | 3,323.9 | 3.417.4 | 3.442.1 | 3.446.1 | 3,525.3 | 3.624.5 |
| Final sales | | | 3,246.9 | | | | | |
| Change in private | -,= | },,,,,,,,, | 0,00 | 0,0 .0 | 0,000.0 | 0, | , | , |
| inventories | 74.3 | 42.7 | 76.1 | 70.7 | 50.1 | 14.0 | 38.0 | 68.7 |
| Durable goods | 1.625.0 | 1.743.0 | 1,619.1 | | | 1.699.5 | 1.758.1 | 1.820.8 |
| Final sales | 1.585.1 | 1.715.8 | 1,578.1 | 1.646.9 | 1.668.7 | 1,693.5 | 1.734.2 | 1.766.7 |
| Change in private | .,,,,,, | ''' ''' | 1,0.0 | 1,0,0.0 | .,,000 | .,000.0 | ., | 1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| inventories | 39.7 | 27.1 | 40.7 | 39.6 | 25.1 | 6.5 | 23.8 | 52.9 |
| Nondurable goods | 1 708 1 | | 1,707.1 | | | | | |
| Final sales | | | 1,671.2 | | | | | |
| Change in private | ',* | ',,, • | ., | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .,,,_,, | ., | 1,,, 02,, | ',' ' |
| inventories | 34.6 | 15.7 | 35.3 | 31.0 | 25.0 | 7.5 | 14.2 | 16.1 |
| Services | 4.449.4 | 4.597.5 | 4,471.4 | 4,494.6 | 4,529,5 | 4.571.0 | 4.620.4 | 4.668.9 |
| Structures | 738.9 | | | | | | | |
| Residual | -4.0 | | | | | | | |
| Addenda: | I ~ | I ~ | ٠.٠ | "" | J -0.0 | ٠ | ~ | ~ |
| Motor vehicle output | 315.7 | 345.2 | 305.7 | 348.6 | 329.0 | 335.7 | 355.8 | 360.3 |
| Gross domestic product less | 313.7 | 545.2 | 000.7 | 070.0 | 029.0 | 555.7 | 1 000.0 | 000.0 |
| motor vehicle output | 8,200.9 | 8,522.7 | 8,230.2 | 8,311.9 | 8,409.3 | 8,443.6 | 8,546.2 | 8,691.9 |

Note.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not addition. The residual line following change in private inventiones is the difference between gross domestic product and the sum of final sales of domestic product and of change in private inventories; the residual line following structures is the difference between gross domestic product and the sum of the detailed lines of goods, of services, and of structures.

Percent changes from preceding period for gross domestic product and for final sales of domestic product are

Percent changes from preceding period for gross domestic product and for final sales of domestic product are shown in table 8.1 Chain-type quantity indexes for the series in this table are shown in table 7.17.

Table 1.6.-Relation of Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers

[Billions of chained (1996) dollars]

| | 8,516.3 | 8,867.0 | 8,536.0 | 8,659.2 | 8,737.9 | 8,778.6 | 8,900.6 | 9,050.9 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Less: Exports of goods and services | 1,007.1 | 1,043.6 | 993.0 | 1,030.8 | 1,016.4 | 1,026.4 | 1,054.8 | 1,077.0 |
| Plus: Imports of goods and services | 1,222.2 | 1,366.5 | 1,231.0 | 1,263.1 | 1,300.9 | 1,345.4 | 1,393.0 | 1,426.7 |
| Equals: Gross domestic purchases | l | 9,170.0 | | | | | | |
| Less: Change in private inventories | 74.3 | | İ | | | | l | 68.7 |
| Equals: Final sales to domestic purchasers | 8,648.1 | 9,121.9 | 8,687.6 | 8,810.6 | 8,954.8 | 9,057.8 | 9,172.2 | 9,302.9 |

Note.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Percent changes from preceding period for selected series in this table are shown in table 8.1. Chain-type quantity indexes for selected series in this table are shown in table 7.2.

Table 1.8.—Real Gross Domestic Product by Sector

| Gross domestic product | 8,516.3 | 8,867.0 | 8,536.0 | 8,659.2 | 8,737.9 | 8,778.6 | 8,900.6 | 9,050.9 |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Business 1 | 7,223.2 | 7,553.5 | 7,241.0 | 7,359.5 | 7,432.8 | 7,469.1 | 7,584.1 | 7,727.9 |
| Nonfarm 2 | | | | 7,257.1 | | | | |
| Nonfarm less housing | 6,462.2 | 6,772.1 | 6,477.6 | 6,592.7 | 6,659.3 | 6,690.1 | 6,802.2 | 6,936.9 |
| Housing | 660.2 | 681.0 | 662.6 | 665.4 | 672.9 | 677.2 | 684.2 | 689.6 |
| Farm | 100.5 | 99.5 | 100.4 | 101.3 | 100.2 | 101.6 | 95.8 | 100.7 |
| Households and institutions | 369.0 | 376.3 | 369.6 | 371.3 | 373.2 | 374.8 | 377.2 | 380.1 |
| Private households | 13.3 | 14.6 | 13.5 | 14.2 | 14.6 | 14.6 | 14.7 | 14.7 |
| Nonprofit institutions | 355.7 | 361.7 | 356.1 | 357.0 | 358.6 | 360.2 | 362.5 | 365.4 |
| General government ³ | 924.8 | 939.1 | 926.1 | 929.6 | 933.3 | 936.2 | 941.3 | 945.6 |
| Federal | 285.8 | 284.8 | 286.1 | 286.1 | 285.5 | 284.5 | 284.5 | 284.7 |
| State and local | 638.9 | 654.2 | 639.9 | 643.4 | 647.7 | 651.5 | 656.7 | 660.7 |
| Residual | 3 | 9 | 2 | 9 | 9 | -1.1 | 0 | -1.8 |

as shown in table 3.7.

Equals gross domestic product less gross product of households and institutions and of general government.
 Equals gross domestic business product less gross farm product.
 Equals compensation of general government employees plus general government consumption of fixed capital as shown in table 3.8.

NOTE—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Chain-type quantity indexes for the series in this table are shown in table 7.14.

Table 1.9.—Relation of Gross Domestic Product, Gross National Product, Net National Product, National Income, and Personal Income

| | | | Seasonally adjusted at annual rates | | | | | | |
|--|-------------------------------|------------------|-------------------------------------|-------------------------------|------------------|---|------------------------|------------------|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | |
| | | ŧ | 111 | IV | I | | 111 | IV | |
| Gross domestic product | 8,759.9 | 9,254.6 | 8,797.9 | 8,947.6 | 9,072.7 | 9,146.2 | 9,297.8 | 9,501.6 | |
| Plus: Income receipts from the rest of the world | 285.3 | | 276.4 | 280.8 | 283.8 | 296.1 | 307.7 | | |
| Less: Income payments to the rest of the world | 295.2 | | 302.0 | 297.9 | 298.2 | 310.4 | 323.2 | ļ | |
| Equals: Gross national product | 8,750.0 | ļ | 8,772.2 | 8,930.5 | 9,058.2 | 9,131.9 | 9,282.3 | | |
| Less: Consumption of fixed capitalPrivate | 1,066.9 880.8 | 1,141.2 945.2 | | | 1,108.8 916.7 | 1,126.3 931.8 | 1,160.9 963.7 | 1,168.7 968.6 | |
| consumption allowances Less: Capital | 906.2 | 975.5 | 914.2 | 932.2 | 947.1 | 964.7 | 989.9 | 1,000.5 | |
| consumption adjustment Government General | 25.4 186.2 | 30.3 196.0 | 25.9 186.9 | | 30.3 192.0 | 32.9 194.5 | | 31.9 200.2 | |
| government Government | 158.6 | 166.7 | 159.2 | 160.9 | 163.4 | 165.5 | 167.7 | 170.2 | |
| enterprises | 27.6 | 29.3 | 27.7 | | 28.6 | 29.0 | 29.5 | 29.9 | |
| Equals: Net national product | 7,683.1 | | 7,697.1 | 7,836.5 | 7,949.5 | 8,005.6 | 8,121.4 | | |
| Less: Indirect business tax and nontax liability | 677.0 | 716.3 | 676.6 | 1 | 696.6 | 706.7 | 718.3 | 743.5 | |
| payments Statistical discrepancy Plus: Subsidies less current surplus of government | 38.1 -47.6 | 39.4 | 38.2 87.9 | | 38.8 -99.4 | 39.3 -135.5 | | 40.0 | |
| enterprises | 20.8 | 26.5 | 16.9 | 31.4 | 21.0 | 27.9 | 17.3 | 39.6 | |
| Equals: National income | 7,036.4 | | 7,087.1 | 7,193.8 | 7,334.5 | 7,423.1 | 7,522.1 | | |
| Less: Corporate profits with inventory valuation and capital consumption adjustments Net interest Contributions for social | 846.1 435.7 | •••••• | 843.8 444.0 | 834.3 440.8 | 882.0 446.3 | 875.5 456.4 | 879.2 476.3 | | |
| insurance | 621.9 | 658.2 | 626.1 | 633.8 | 647.2 | 653.8 | 662.3 | 669.4 | |
| disbursements Plus: Personal interest income Personal dividend | 3.5 897.8 | 0 930.5 | 3.5 909.3 | 3.5 906.4 | 0 907.4 | 0 920.5 | 0 938.8 | 955.5 | |
| income | 348.3 | 364.3 | 348.0 | 351.9 | 356.1 | 361.2 | 367.0 | 373.1 | |
| payments to persons Business transfer | 954.8 | 988.5 | 957.7 | 962.0 | 978.5 | 984.1 | 991.6 | 999.9 | |
| payments to persons Equals: Personal income | 28.8 7.358.9 | 29.6 7 791.0 | 28.8 7.413.6 | 29.0 7 530 8 | 29.3 7.630.2 | 29.5 7.732.6 | 29.7 7,831.4 | 29.9 7 969 6 | |
| Addenda: | .,,,,,,,,, | ., | . , 710.0 | . ,000.0 | .,000.2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | .,,,,,,,,,,, | . ,505.0 | |
| Gross domestic income Gross national income Net domestic product | 8,807.5 8,797.6 7,693.0 | 8,113.4 | 8.860.2 | 9,009.9 8,992.8 7,853.6 | 9,157.6 | 9.267.4 | 9,423.5 | 8,332.9 | |

Table 1.10.—Relation of Real Gross Domestic Product, Real Gross National Product, and Real Net National Product

[Billions of chained (1996) dollars]

| | | l | s | easonall | y adjusto | ed at an | nual rate | s |
|--|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------|---------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | III | 1V | 1 | 11 | Ш | IV |
| Gross domestic product | 8,516.3 | 8,867.0 | 8,536.0 | 8,659.2 | 8,737.9 | 8,778.6 | 8,900.6 | 9,050.9 |
| Plus: Income receipts from the rest of the world | 279.2 | | 270.3 | 274.0 | 276.0 | 286.6 | 296.5 | |
| rest of the world | 289.6 | | 295.8 | 291.3 | 290.7 | 301.1 | 311.8 | |
| Equals: Gross national product | 8,506.0 | | 8,510.6 | 8,641.9 | 8,723.3 | 8,764.3 | 8,885.5 | |
| Less: Consumption of fixed capital | 899.8 185.4 158.4 | 978.6 192.4 164.4 | 908.4 186.1 159.0 | 925.8 187.8 160.5 | 941.6 189.6 161.9 | 962.8 191.4 163.5 | 165.1 | 1,010.0 195.3 166.9 |
| enterprises | 26.9 | 28.0 | 27.1 | 27.3 | 27.6 | 27.9 | 28.2 | 28.5 |
| Equals: Net national product | 7,432.5 | | 7,429.2 | 7,542.3 | 7,606.8 | 7,626.1 | 7,710.0 | |
| Gross national income 2 | 8,562.4 8,552.1 7,442.7 | | 8,595.9 | 8,702.3 | 8,819.0 | 8,894.3 | 9,020.6 | |

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.
2. Gross national income deflated by the implicit price deflator for gross national product.

NOTE.—Except as noted in footnotes 1 and 2, chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

The chain-type quantity index for gross national product is shown in table 7.3.

Table 1.11.—Command-Basis Real Gross National Product

| Gross national product | 8,506.0 | 8,510.6 | 8,641.9 | 8,723.3 | 8,764.3 | 8,885.5 | |
|--|---------|-------------|---------|---------|---------|--------------------|--|
| Less: Exports of goods and services and income receipts from the rest of the world Plus: Command-basis exports of goods and services and income receipts from the rest of the world ¹ | 1,286.1 | | | | | 1,351.5 1,391.6 | |
| Equals: Command-basis gross national product | 8,559.9 | [| | · | | 8,925.6 | |
| Addendum: Terms of trade 2 | 104.2 | 104.5 | 104.3 | 104.9 | 104.0 | 103.0 | |

Exports of goods and services and income receipts deflated by the implicit price deflator for imports of goods and services and income payments.
 Ratio of the implicit price deflator for exports of goods and services and income receipts to the corresponding implicit price deflator for imports divided by 100.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Percent changes from preceding period for gross national product are shown in table 8.1. Chain-type quantity indexes for the series in this table are shown in table 7.3.

Table 1.14.-National Income by Type of Income [Billions of dollars]

| | | | Seasonally adjusted at annual rates | | | | | | |
|---|-------------------------|----------------------|--|---|-------------------------|-------------------------|-------------------------|------------------|--|
| | 1998 | 1999 | 19 | 98 | <u> </u> | 19 | 99 | | |
| | | | III | IV | ī | - 11 | III | IV | |
| National income | 7,036.4 | | 7,087.1 | 7,193.8 | 7,334.5 | 7,423.1 | 7,522.1 | | |
| Compensation of employees Wage and salary accruals GovernmentOther | 4,189.5 692.8 | 4,472.4 726.5 | 5,053.6 4,227.9 696.7 3,531.2 | 4,300.8 702.8 | 715.8 | 4,432.6 721.3 | 4,509.4 730.3 | 4,576.0 738.6 | |
| Supplements to wages and salaries Employer contributions for | 821.7 | 859.4 | 825.7 | 833.9 | 846.2 | 854.5 | 864.2 | 872.8 | |
| social insurance Other labor income | 306.0 515.7 | 323.6 535.8 | | 311.8 522.1 | 318.3 528.0 | 321.5 533.0 | | | |
| Proprietors' income with inventory valuation and capital consumption adjustments | 606.1 | 658.5 | 606.4 22.9 | 637.1 | 639.9 | 655.3 34.1 | | | |
| Farm Proprietors' income with inventory valuation adjustment | 25.1 32.7 | 31.4 38.7 | 30.5 | 41.1 48.6 | 32.5 39.6 | 41.2 | 21.0 | | |
| Capital consumption adjustment Nonfarm | -7.6 581.0 | -7.3 627.1 | -7.6 583.6 | -7.5 596.0 | -7.2 607.5 | -7.1 621.2 | | | |
| Proprietors' income | 532.2 | 579.3 | 534.6 | | 558.9 | 573.8 | 586.2 | 598.4 | |
| adjustment Capital consumption adjustment | 47.6 | 3 48.6 | 47.7 | 47.5 | .8 47.7 | i | | | |
| Rental income of persons with capital consumption adjustment | 137.4 | 145.9 | 139.3 | 147.0 | 148.6 | 148.8 | 139.0 | 147.1 | |
| Rental income of persons Capital consumption adjustment | 188.6 -51.1 | 201.9 -56.1 | 190.7 -51.4 | 199.6 -52.6 | | 203.5 -54.7 | | | |
| Corporate profits with inventory valuation and capital consumption | | | | | | | | <u>!</u> : | |
| adjustments | | | 843.8 | | | ĺ | | | |
| adjustment | 781.9 240.2 541.7 | 364.7 | 244.3 535.8 | 787.4 766.7 235.6 531.0 352.2 | 818.1 248.0 570.1 | 835.8 254.4 581.4 | 853.8 259.4 594.3 | 373.5 | |
| Undistributed profits Inventory valuation adjustment | 193.1 | | 187.4 | | 213.7 | 219.9 | 227.0 | | |
| Capital consumption adjustment | 43.3 | | | | | | | | |
| Net interest | 435.7 | | 444.0 | 440.8 | 446.3 | 456.4 | 476.3 | ļ Ī | |
| Corporate profits after tax with inventory valuation and capital consumption adjustments | 605.8 | | 599.5 | 598.7 | 634.0 | 621.0 | 619.8 | | |
| valuation and capital consumption adjustments Undistributed profits with inventory valuation and | 876.5 | | 876.1 | 883.6 | 923.4 | 916.7 | 929.0 | | |
| capital consumption adjustments Consumption of fixed | 257.2 | | 251.1 | 246.5 | | | | ŀ | |
| capital Less: Inventory valuation adjustment | 619.2 20.9 | | 625.0 19.8 | | | ŀ | | 1 | |
| Equals: Net cash flow | 855.5 | | 856.3 | 862.8 | 910.1 | | 955.6 | | |

Table 1.16.—Gross Product of Corporate Business in Current Dollars and Gross Product of Nonfinancial Corporate Business in Current and **Chained Dollars**

| | Seasonally adjusted at annual rates | | | | | | | | |
|---|-------------------------------------|--------------|----------------|------------------|----------------|----------------|---------|---------------|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | |
| | | | ill | IV | 1 | II. | III | IV | |
| | | | | Billions o | of dollars | } | | | |
| Gross product of corporate business | 5,445.3 | | 5,495.9 | 5,571.7 | 5,673.5 | 5,740.1 | 5,835.7 | | |
| Consumption of fixed capital | 619.2 | 666.3 | | | 645.8 | | | 685.8 | |
| Net product | 4,826.0 | ••••• | 4,870.9 | 4,934.6 | 5,027.7 | 5,083.0 | 5,159.1 | ••••• | |
| business transfer payments less subsidies Domestic income | 564.0 4,262.0 | 599.5 | | 584.9 4,349.7 | | | | 622.4 | |
| Compensation of employees | 3,385.3 | 3,614.2 | 3,416.8 | 3,481.2 | 3,532.0 | 3,582.7 | 3,644.4 | 3,697.6 | |
| Wage and salary accruals | 2.871.5 | 3.076.0 | 2.900.8 | 2,958.4 | 3.002.1 | 3.047.6 | 3.103.3 | 3.151.1 | |
| Supplements to wages and salaries | 513.9 | | | | 529.9 | | 1 | 546.4 | |
| inventory valuation and capital consumption | 740.0 | | 757.0 | 700.0 | | 770.4 | 774.4 | | |
| adjustments Profits before tax | | | 757.2 693.5 | 736.0 668.3 | 777.7 713.8 | | 745.6 | | |
| Profits tax liability Profits after tax | 240.2 441.6 | | 244.3 449.2 | 235.6 432.7 | 248.0 465.8 | 254.4 478.0 | | | |
| Dividends | | | 310.8 | | 308.4 | 342.2 | 337.9 | | |
| Undistributed profits Inventory valuation adjustment | • | | 138.4 | 104.6 20.8 | 157.4 13.3 | | | | |
| Capital consumption | | | 1 | | | İ | ŀ | | |
| adjustment Net interest | 43.3 130.6 | 52.0 | 43.9 133.6 | | 50.6 134.6 | | | 52.0 | |
| Gross product of financial corporate business | 610.7 | | 613.5 | 623.3 | 645.0 | 645.2 | 659.1 | | |
| Gross product of nonfinancial corporate business | 4,834.6 | | 4,882.4 | 4,948.4 | 5,028.6 | 5,094.9 | 5,176.6 | ************* | |
| Consumption of fixed capital | 522.2 | 559.6 | 526.7 | 537.2 | 543.8 | 552.3 | 568.5 | 573.7 | |
| Net product | 4,312.4 | ļ | 4,355.7 | 4,411.1 | 4,484.8 | 4,542.7 | 4,608.1 | | |
| less subsidies | 523.5 3,788.9 | 557.5 | | 544.5 3,866.7 | | | | | |
| Compensation of employees | 3,090.4 | 3,298.8 | 3,118.6 | 3,174.6 | 3,223.8 | 3,270.0 | 3,326.3 | 3,374.9 | |
| accruals | 2,618.7 | 2,805.3 | 2,645.1 | 2,695.5 | 2,737.9 | 2,779.4 | 2,830.1 | 2,873.7 | |
| Supplements to wages and salaries | 471.7 | 493.5 | 473.5 | 479.0 | 486.0 | 490.7 | 496.2 | 501.2 | |
| inventory valuation and capital consumption adjustments | | ************ | 588.5 | 568.0 479.8 | 592.5 | | | | |
| Profits before tax Profits tax liability | | | 503.9 157.1 | 148.8 | 508.6 157.9 | | 169.3 | | |
| Profits after tax | 338.1 | | 346.9 | | | | | | |
| Dividends Undistributed profits | 92.7 | | 242.9 104.0 | | 241.5 109.1 | 267.9 99.4 | 108.0 | | |
| Inventory valuation adjustment | 20.9 | | 19.8 | 20.8 | 13.3 | -13.6 | -26.7 | <u></u> | |
| Capital consumption adjustment | 63.5 | 73.7 | | 67.4 | 70.6 |] | 74.1 | 76.1 | |
| Net interest | 123.5 | | 125.5 | 124.1 | 126.1 | 128.1 | 134.0 | | |
| | | | Billions | of chain | ed (1996 |) dollars | | | |
| Gross product of nonfinancial corporate business ¹ | 4,803.4 | | 4 844 º | 4,911.2 | 4 981 7 | 5.025.0 | 5 116 7 | | |
| | 7,000.4 | | I ' | | l ' | | | | |
| Consumption of fixed capital 2 | 537.7 | 587.3 | 543.2 | 554.3 | 564.0 | 576.9 | 599.7 | l 608.5 | |

^{1.} Chained-dollar gross product of nonfinancial corporate business equals the current-dollar product deflated by the implicit price deflator for goods and structures in gross domestic product. Effective with the estimates scheduled for release on March 30, 2000, the current-dollar product will be deflated by a chain-type price index calculated using gross product price indexes for each nonfinancial industry.

2. Chained-dollar consumption of fixed capital of nonfinancial corporate business is calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100.

3. Chained-dollar net product of nonfinancial corporate business is the difference between the gross product and the consumption of fixed capital.

2. Personal Income and Outlays.

Table 2.1.—Personal Income and Its Disposition [Billions of dollars]

| | | 1 | Seasonally adjusted at annual rates | | | | | | |
|--|--|--|--|--|--|--|--------------------------------------|--|--|
| | 4000 | 4000 | | | i adjust | | | | |
| | 1998 | 1999 | 18 | 98 | <u> </u> | 18 | 99 | | |
| | | | i 11 | IV | | 11 | 111 | IV | |
| Personal income | 7,358.9 | 7,791.0 | 7,413.6 | 7,530.8 | 7,630.2 | 7,732.6 | 7,831.4 | 7,969.6 | |
| Wage and salary disbursements Private industries | 4,186.0 3,493.2 | 4,472.4 3,745.9 | 4,224.4 3,527.7 | 4,297.3 3,594.5 | 4,371.5 3,655.7 | 4,432.6 3,711.3 | 4,509.4 3,779.1 | 4,576.0 3,837.4 | |
| Goods-producing industries Manufacturing Distributive industries Service industries | 1,509.9 | 779.7 1,005.8 1,657.7 | 762.3 953.5 1,528.6 | 765.6 969.9 1,568.0 | 1,062.9 767.0 986.3 1,606.6 | 774.8 997.6 1,638.5 | 786.4 1,013.4 1,675.5 | 790.6 1,025.7 1,710.4 | |
| Other labor income | 692.8 515.7 | 726.5 535.8 | 696.7 517.7 | 702.8 522. 1 | 715.8 528.0 | 721.3 533.0 | 730.3 538.5 | 738.6 543.7 | |
| Proprietors' income with inventory valuation and capital consumption adjustments | 606.1 25.1 581.0 | 658.5 31.4 | 606.4 22.9 583.6 | 637.1 | | | 654.0 21.0 | 684.8 38.2 646.6 | |
| Rental income of persons with capital consumption adjustment | 137.4 | | | | | | | 147.1 | |
| Personal dividend income | 348.3 | | 348.0 | 351.9 | 356.1 | 361.2 | | 373.1 | |
| Personal interest income | 897.8 | 930.5 | 909.3 | 906.4 | 907.4 | 920.5 | 938.8 | 955.5 | |
| Transfer payments to persons | 983.6 | 1,018.1 | 986.5 | 991.0 | 1,007.8 | 1,013.6 | 1,021.3 | 1,029.8 | |
| insurance benefits Government unemployment | 578.1 | 596.4 | 579.6 | 581.1 | 588.9 | 593.0 | | 604.7 | |
| insurance benefits Veterans benefits Other transfer payments Family assistance ¹ Other | 19.8 23.3 362.3 17.1 345.2 | 20.3 24.3 377.2 15.9 361.2 | 20.6 23.3 362.9 17.1 345.8 | 19.9 23.6 366.4 17.3 349.1 | 20.5 24.3 374.1 16.9 357.2 | 20.3 24.1 376.2 16.3 359.9 | 24.3 377.8 15.4 | 20.1 24.5 380.5 15.1 365.4 | |
| Less: Personal contributions for social insurance | 315.9 | 334.6 | 318.0 | 322.0 | 328.9 | 332.3 | 336.7 | 340.4 | |
| Less: Personal tax and nontax payments | 1,072.6 | 1,151.9 | 1,088.3 | 1,113.0 | 1,124.8 | 1,139.4 | 1,160.4 | 1,183.2 | |
| Equals: Disposable personal income | 6,286.2 | 6,639.0 | 6,325.3 | 6,417.8 | 6,505.4 | 6,593.2 | 6,671.0 | 6,786. 5 | |
| Less: Personal outlays | 6,056.6 | 6,483.5 | 6,100.5 | 6,190.3 | 6,310.3 | 6,425.2 | 6,531.5 | 6,666.8 | |
| Personal consumption expenditures Interest paid by persons Personal transfer payments to | 185.7 | 201.7 | 187.9 | 193.2 | 6,090.8 196.1 | 199.9 | 203.3 | 207.6 | |
| the rest of the world (net) | 22.3 | 24.4 | 22.9 | 23.3 | 23.5 | 24.6 | 24.5 | 25.1 | |
| Equals: Personal saving Addenda: | 229.7 | 155.5 | 224.8 | 227.5 | 195.1 | 168.0 | 139.5 | 119.6 | |
| Disposable personal income: Total, billions of chained (1996) dollars 2 | 6,125.1 23,231 22,636 270.6 | 6,367.2 24,304 23,309 273.2 | 23,345 | 23.628 | 6,289.3 23,904 23,110 272.1 | 6,339.1 24,171 23,239 272.8 | 6,384.8 24,389 23,343 273.5 | 24,750 | |
| Personal saving as a percentage of disposable personal income | 3.7 | 2.3 | 3.6 | 3.5 | 3.0 | 2.5 | 2.1 | 1.8 | |

Consists of aid to families with dependent children and, beginning with 1996, assistance programs operating under the Personal Responsibility and Work Opportunity Reconciliation Act of 1996.
 Equals disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Table 2.2.—Personal Consumption Expenditures by Major Type of Product

[Billions of dollars]

| | |] | s | easonall | y adjust | ed at an | nual rate | s |
|--|--|-------------------------|-------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | Ш | IV | 1 | II | 111 | IV |
| Personal consumption expenditures | 5,848.6 | 6,257.3 | 5,889.6 | 5,973.7 | 6,090.8 | 6,200.8 | 6,303.7 | 6,434. |
| Durable goods | 698.2 | 758.6 | 696.9 | 722.8 | 739.0 | 751.6 | 761.8 | 782.0 |
| Motor vehicles and parts Furniture and household | 289.2 | | } | | | } | | 325.6 |
| equipment Other | 268.7 140.3 | 152.1 | 140.8 | 143.1 | 148.3 | 150.5 | 151.8 | 157. |
| Nondurable goods | 1,708.9 | 1,842.7 | 1,716.6 | 1,742.9 | 1,787.8 | 1,824.8 | 1,853.9 | 1,904.3 |
| Food | 853.4 286.3 | | | | | | | 933.9 308.9 |
| energy goods | 126.2 112.9 13.2 | 123.5 14.9 | 111.8 13.4 | 108.3 12.6 | 106.5 13.7 | 121.7 14.6 | 129.3 15.4 | 136. 15. |
| Other | 442.9 | | | | 480.5 | 488.4 | | 509. |
| Services | 1 ' | | 3,476.1 | , | l ' | ' | · · | ١ ′ |
| Housing Household operation Electricity and gas Other household operation Transportation Medical care Recreation Other | 855.9 346.9 128.1 218.8 245.2 894.3 221.0 878.2 | 362.3 130.3 231.9 | 356.0 134.6 221.5 | 347.3 122.9 224.5 247.7 | 356.2 128.3 227.9 250.3 | 360.3 129.4 230.9 | 366.8 133.8 233.0 | 919.0 365.129.236.0 259.961.0 259.982. |
| Addenda: Energy goods and services ¹ Personal consumption expenditures less food and | 254.3 | 268.7 | 259.7 | 243.8 | 248.4 | 265.7 | 278.5 | 282. |
| energy | 4,740.8 | 5,084.5 | 4,772.3 | 4,854.3 | 4,956.9 | 5,041.6 | 5,121.3 | 5,218. |

^{1.} Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

Table 2.3.—Real Personal Consumption Expenditures by Major Type of **Product**

| | | | | , | | | , | |
|---|--|---|---|---|----------------------------------|---|----------------------------------|---|
| Personal consumption expenditures | 5,698.6 | 6,000.9 | 5,730.7 | 5,795.8 | 5,888.4 | 5,961.8 | 6,033.3 | 6,120.3 |
| Durable goods | 731.5 | 815.7 | 731.2 | 766.0 | 788.8 | 806.1 | 821.2 | 846.6 |
| Motor vehicles and parts Furniture and household | 291.9 | | | | | | | |
| equipment Other | 297.4 142.7 | | | 312.6 146.5 | 326.7 152.9 | | | |
| Nondurable goods | 1,685.3 | 1,775.8 | 1,692.0 | 1,712.6 | 1,749.5 | 1,763.7 | 1,779.3 | 1,810.6 |
| Food | 820.6 292.2 | | | | | | | |
| energy goods | 142.1 127.7 14.5 430.6 | 128.0 16.0 | 128.5 | 127.7 14.2 | 127.1 15.8 | 127.5 16.4 | 128.2 16.3 | |
| Services | | | | | 1 | 3,399.2 | | |
| Housing | 805.6 344.3 129.6 214.7 234.2 854.4 208.8 837.3 | 359.6 132.3 227.1 241.0 877.0 | 353.7 136.6 217.2 234.6 856.4 | 345.4 125.7 219.6 236.1 862.2 | 354.0 131.1 222.8 237.7 | 358.8 132.2 226.4 239.9 872.0 | 364.4 135.4 228.9 242.4 | 361.4 130.6 230.5 243.9 889.5 |
| Residual | -3.6 | -9.5 | -3.9 | -5.0 | -8.0 | -8.9 | -10.6 | -11.7 |
| Addenda: Energy goods and services ¹ Personal consumption expenditures less food and | 271.8 | 276.5 | 280.2 | 267.3 | 274.1 | 276.2 | 280.0 | 275.7 |
| energy | 4,605.9 | 4,871.5 | 4,628.0 | 4,691.7 | 4,773.8 | 4,839.9 | 4,902.3 | 4,969.9 |

NOTE.-Percent changes from preceding period for disposable personal income are shown in table 8.1.

Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

Chain-type quantity indexes for the series in this table are shown in table 7.4.

Contributions to the percent change in real personal consumption expenditures are shown in table 8.3.

3. Government Current Receipts and Expenditures

Table 3.1.—Government Current Receipts and Expenditures
[Billions of dollars]

| | | | S | easonall | y adjust | ed at an | nual rate | s |
|---|---|--|------------------------|--|---|---|------------------------------------|------------------------|
| | 1998 | 1998 1999 1998 19 | | 98 | | 19 | 99 | |
| | | } | 111 | IV | ı | 15 | 118 | iv |
| Current receipts | 2,611.8 | | 2,635.3 | 2,680.2 | 2,716.6 | 2,754.4 | 2,800.5 | |
| Personal tax and nontax receipts Corporate profits tax accruals Indirect business tax and nontax accruals Contributions for social insurance | 240.2 677.0 | 716.3 | 244.3 676.6 | 235.6 | | 254.4 706.7 | 1,160.4 259.4 718.3 662.3 | 743.5 |
| Current expenditures | 2,523.1 | 2,619.4 | 2,525.9 | 2,566.3 | 2,570.3 | 2,598.7 | 2,617.8 | 2,690.8 |
| Consumption expenditures | 1,261.0 | 1,332.2 | 1,265.2 | 1,282.1 | 1,299.4 | 1,313.7 | 1,341.5 | 1,374.2 |
| Transfer payments (net) | 954.8 | 988.5 | 957.7 | 980.7 962.0 18.7 | 985.3 978.5 6.8 | 984.1 | 1,000.1 991.6 8.5 | |
| Net interest paid | 277.3 91.1 | 356.8 | 368.8 277.7 91.1 | 272.5 365.6 274.8 90.8 93.2 | 265.0 358.1 267.4 90.7 93.1 | 264.1 358.6 266.0 92.6 94.5 | 257.7 96.6 | |
| Less: Dividends received by government | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| Subsidies less current surplus of government enterprises | 35.6 | 43.8 | 32.3 | 31.4 46.4 15.0 | 21.0 38.0 16.9 | 44.9 | 34.6 | 57.5 |
| Less: Wage accruals less disbursements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Current surplus or deficit (), national income and product accounts | 88.7 | | 109.5 | 113.9 | 146.3 | 155.7 | 182.7 | |
| Social insurance funds | | 77.7 | 59.6 49.9 | 67.0 46.9 | 72.7 73.6 | | | 82.1 |
| Addenda: Net lending or net borrowing (-) Current surplus or deficit (-), national income and product accounts Plus: Consumption of fixed capital Plus: Capital transfers received (net) Less: Gross investment Less: Net purchases of nonproduced assets | 34.4 88.7 186.2 32.6 268.7 4.3 | 196.0 36.9 297.6 | 109.5 | 58.2 113.9 189.1 34.8 272.6 7.0 | | 155.7 194.5 37.9 292.2 | 34.5 295.7 | 200.2 40.3 312.8 |

Table 3.2.—Federal Government Current Receipts and Expenditures
[Billions of dollars]

| | | | Seasonally adjusted at annual rates | | | | | | |
|--|------------------------------|-------------------------------|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | |
| | | | 111 | IV | 1 | II | Ш | IV | |
| Current receipts | 1,750.7 | | 1,770.3 | 1,793.3 | 1,826.5 | 1,853.1 | 1,883.1 | | |
| Personal tax and nontax receipts income taxes | 835.7 827.6 8.1 | 900.0 891.2 8.9 | 847.3 839.1 8.2 | 868.1 859.8 8.3 | 877.9 869.4 8.5 | 892.1 883.4 8.8 | 908.0 899.0 9.0 | | |
| Corporate profits tax accruals Federal Reserve banks Other | 26.6 | | 209.9 26.7 183.2 | 202.6 26.7 175.9 | 212.6 23.5 189.1 | 218.1 23.7 194.4 | | | |
| Indirect business tax and nontax accruals | 97.3 62.9 19.6 14.8 | 101.5 67.0 20.0 14.5 | 97.7 63.1 19.9 14.7 | 99.6 65.7 19.6 14.3 | 99.5 66.3 19.0 14.1 | 100.0 66.9 18.8 14.2 | 101.5 66.9 20.5 14.2 | 105.0 68.0 21.5 15.5 | |
| Contributions for social insurance | 611.2 | 647.1 | 615.4 | 623.1 | 636.5 | 642.9 | 651.2 | 658.0 | |
| Current expenditures | 1,703.8 | 1,755.8 | 1,710.7 | 1,733.5 | 1,728.9 | 1,735.0 | 1,749.3 | 1,809.9 | |
| Consumption expenditures | 453.5 | 474.8 | 451.4 | 460.0 | 467.0 | 465.2 | 475.0 | 492.0 | |
| Transfer payments (net) | 730.4 720.0 10.4 | 754.4 743.9 10.5 | 731.0 721.9 9.1 | 742.1 723.5 18.7 | 743.4 736.6 6.8 | 749.7 740.5 9.2 | 754.8 746.4 8.5 | 769.7 752.3 17.4 | |
| Grants-in-aid to State and local governments | 209.3 | 225.5 | 220.2 | 214.2 | 219.9 | 215.7 | 230.6 | 235.6 | |
| Net interest paid | 91.1 | 262.9 285.4 | 279.6 298.1 207.0 91.1 | 274.3 294.8 204.0 90.8 | 266.0 287.1 196.4 90.7 | 264.8 287.4 194.8 92.6 | 96.6 | •••••• | |
| Subsidies less current surplus of government enterprises | 19.3 32.1 35.1 | 22.6 38.3 43.3 | 18.5 28.5 31.8 | 20.5 42.9 45.9 | 21.1 32.6 37.5 | 22.6 39.5 44.4 | 23.0 29.0 34.1 | 23.5 51.9 57.0 | |
| Less: Current surplus of government enterprises | 3.0 | 5.0 | 3.3 | 3.0 | 4.8 | 4.9 | 5.1 | 5.2 | |
| Less: Wage accruals less disbursements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Current surplus or deficit (-), national income and product accounts | 46.9 | | 59.6 | 59.7 | 97.6 | 118.1 | 133.8 | | |
| Social insurance fundsOther | 56.4 9.4 | 76.9 | 58.6 1.0 | 66.3 6.6 | 72.2 25.4 | 75.6 42.5 | 78.9 54.9 | 81.0 | |
| Addenda: Net lending or net borrowing () | 51.1 | | 58.3 | 60.8 | 96.2 | 108.3 | 120.4 | ••••• | |
| Current surplus or deficit (-), national income and product accounts | 46.9 | | 59.6 | 59.7 | 97.6 | 118.1 | 133.8 | ******* | |
| Plus: Consumption of fixed capital | 87.4 | 90.9 | 87.5 | 88.1 | 89.6 | 90.2 | 91.2 | 92.4 | |
| Plus: Capital transfers received (net) Less: Gross investment | -3.6 85.2 | -5.0 95.7 | -5.5 88.3 | -3.4 86.7 | -2.7 90.4 | -4.8 96.4 | -9.7 94.9 | -2.9 101.3 | |
| Less: Net purchases of nonproduced assets | -5.6 | 8 | -5.0 | -3.1 | -2.1 | -1.1 | 0 | 2 | |

Table 3.3.—State and Local Government Current Receipts and Expenditures

| | ĮE | SILIONS O | r dollarsj | | | | | |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | s | easonall | y adjust | ed at an | nual rate | s |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | , | 111 | IV | 1 | | 111 | IV |
| Current receipts | 1,070.4 | | 1,085.3 | 1,101.1 | 1,110.0 | 1,117.0 | 1,148.0 | |
| Personal tax and nontax receipts Income taxes | 236.9 184.7 33.2 19.0 | 251.9 196.8 35.3 19.7 | 241.0 188.4 33.5 19.1 | 244.9 191.6 34.0 19.3 | 246.9 192.9 34.5 19.5 | 247.3 192.5 35.1 19.7 | 252.4 197.0 35.6 19.8 | 261.0 204.9 36.2 19.9 |
| Corporate profits tax accruals | 33.8 | | 34.4 | 33.1 | 35.4 | 36.4 | 37.0 | |
| Indirect business tax and nontax accruals | 579.6 284.3 225.5 69.8 | 614.8 307.1 234.5 73.2 | 579.0 284.8 226.4 67.7 | 598.2 291.1 226.3 80.8 | 597.1 298.5 229.5 69.1 | 606.8 303.7 232.8 70.3 | 616.8 309.5 236.1 71.2 | 638.6 316.8 239.5 82.3 |
| Contributions for social insurance | 10.7 | 11.1 | 10.7 | 10.7 | 10.7 | 10.9 | 11.2 | 11.5 |
| Federal grants-in-aid | 209.3 | 225.5 | 220.2 | 214.2 | 219.9 | 215.7 | 230.6 | 235.6 |
| Current expenditures | 1,028.7 | 1,089.1 | 1,035.4 | 1,046.9 | 1,061.2 | 1,079.4 | 1,099.1 | 1,116.5 |
| Consumption expenditures | 807.5 | 857.4 | 813.8 | 822.2 | 832.4 | 848.4 | 866.5 | 882.2 |
| Transfer payments to persons | 234.8 | 244.6 | 235.7 | 238.5 | 241.9 | 243.6 | 245,3 | 247.5 |
| Net interest paid Interest paid Less: Interest received by | -2.0 70.7 | 7 71.3 | -2.2 70.7 | -1.8 70.8 | -1.0 71.0 | 7 71.2 | –.6 71.5 | –.6 71.8 |
| government | 72.7 | 72.1 | 72.9 | 72.7 | 72.0 | 71.9 | 72.1 | 72.4 |
| Less: Dividends received by government | .3 | .3 | .3 | .3 | .3 | .3 | .3 | .3 |
| Subsidies less current surplus of government enterprises | -11.3 .5 | -11.8 .5 | -11.6 .5 | -11.6 .5 | -11.6 .5 | -11.6 .5 | -11.7 .5 | -12.2 .5 |
| Less: Wage accruals less | '''' | , | 12.0 | ' | | ,, | ,,,,, | , |
| disbursements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Current surplus or deficit (-), national income and product accounts | 41.7 | | 49.9 | 54.2 | 48.7 | 37.6 | 48.9 | , |
| Social insurance fundsOther | .9 40.8 | 8 | .9 48.9 | .7 53.4 | .6 48.2 | .8 36.8 | .8 48.1 | 1.0 |
| Addenda: Net lending or net borrowing (-) Current surplus or deficit | -16.8 | ••••• | -8.9 | -2.6 | -20.6 | -21.4 | -11.6 | |
| (-), national income and product accounts | 41.7 | | 49.9 | 54.2 | 48.7 | 37.6 | 48.9 | |
| capital | 98.8 | 105.1 | 99.4 | 101.1 | 102.4 | 104.3 | 106.0 | 107.8 |
| Plus: Capital transfers received (net) | 36.2 183.5 | 42.0 201.9 | 37.1 185.2 | 38.2 185.9 | 37.8 199.4 | 42.6 195.8 | 44.2 200.8 | 43.2 211.5 |
| Less: Net purchases of nonproduced assets | 9.9 | 9.9 | 10.1 | 10.2 | 10.1 | 10.0 | 9.8 | 9.6 |

Table 3.7.-Government Consumption Expenditures and Gross Investment by Type

| | [| | Seasonally adjusted at annual rates | | | | | |
|--|---|---|---|---|--|--------------------------------------|---|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | IV | 1 | H | III | IV |
| Government consumption expenditures and gross investment ¹ | 1,529.7 | 1,629.8 | 1,538.7 | 1,554.8 | 1,589.1 | 1,605.9 | 1,637.2 | 1,687.0 |
| Federal | 538.7 | 570.5 | 539.7 | 546.7 | 557.4 | 561.6 | 569.8 | 593.2 |
| National defense Consumption expenditures Durable goods 2 Nondurable goods 2 Nondurable goods Services Compensation of general government employees, except | 348.6 299.9 21.0 7.0 271.9 | 364.5 310.8 21.4 8.2 281.2 | 354.7 302.5 21.8 7.6 273.1 | 352.9 303.4 21.4 6.9 275.1 | 355.8 304.6 20.4 6.4 277.8 | 7.4 | 365.4 312.1 22.4 9.8 279.9 | 382.3 325.6 21.9 9.2 294.5 |
| own-account investment 3 | 131.0 | 133.0 | 131.1 | 129.9 | 133.2 | 132.9 | 133.3 | 132.6 |
| general government fixed capital 4 Other services Gross investment Structures Equipment and software | 61.6 79.3 48.7 5.4 43.3 | 62.5 85.6 53.7 5.3 48.4 | 61.5 80.4 52.2 5.9 46.3 | 61.5 83.6 49.5 5.1 44.4 | 51.2 5.4 | 77.1 53.5 5.3 | 62.7 83.9 53.4 5.2 48.2 | 62.9 99.0 56.7 5.3 51.4 |
| Nondefense | 190.1 153.6 2 8.4 | 206.1 164.0 1.3 9.8 | 1 85.0 149.0 -4.8 8.4 | 193.8 156.5 1.2 8.6 | 201.6 162.4 1.3 9.5 | | 204.4 162.9 1.1 10.1 | 210.9 166.3 1.3 10.2 |
| Corporation inventory change Other nondurables Services Compensation of general government | .1 8.2 145.5 | 1.1 8.8 152.9 | .3 8.1 145.3 | .4 8.2 146.8 | 1.1 8.4 151.7 | | 1.1 8.9 151.7 | 1.2 9.0 154.8 |
| employees, except own-account investment ³ Consumption of | 81.9 | 87.9 | 82.1 | 84.2 | 88.3 | 87.6 | 87.3 | 88.6 |
| general government fixed capital 4 Other services Gross investment Structures Equipment and software | 20.9 42.7 36.5 11.3 25.2 | 23.0 41.9 42.0 11.3 30.7 | 21.1 42.2 36.1 11.7 24.4 | 21.5 41.0 37.2 11.6 25.7 | 41.1 | 22.7 43.2 42.9 10.8 32.1 | 23.2 41.2 41.5 11.4 30.1 | 24.0 42.3 44.6 11.4 33.2 |
| State and local | 991.0 807.5 15.2 86.3 706.1 | 1,059.3 857.4 16.2 95.3 745.9 | 999.0 813.8 15.3 86.8 711.6 | 1,008.1 822.2 15.5 86.7 719.9 | 832.4 15.8 87.7 | 16.0 93.1 | 1,067.4 866.5 16.3 98.5 751.7 | 1,093.8 882.2 16.6 102.0 763.6 |
| own-account investment ³ Consumption of general | 592.6 | 621.9 | 596.4 | 602.6 | 609.8 | 616.9 | 626.4 | 634.6 |
| government fixed capital 4 | 76.0 37.5 183.5 135.2 48.3 | 81.2 42.8 201.9 149.6 52.3 | 76.6 38.6 185.2 136.5 48.8 | 77.8 39.5 185.9 136.1 49.8 | 40.2 199.4 148.9 | 41.9 195.8 144.4 | 43.4 200.8 | 45.7 211.5 |
| Addenda: Compensation of general government employees 3 FederalState and local | 813.8 214.4 599.4 | 222.7 | 818.2 214.9 603.3 | 215.7 | 223.3 | 222.2 | 222.4 | 222.8 |

Table 3.8.—Real Government Consumption Expenditures and Gross Investment by Type

| | | | Seasonally adjusted at annual rates | | | | | |
|--|---|-------------------------------------|--|-------------------------------------|--|--|--------------------------------|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | IV | 1 | II. | Iti | IV |
| Government consumption expenditures and gross investment ¹ | 1,480.3 | l ′ | | 1,495.9 | | | , · | · |
| Federal | 526.1 | 540.8 | 527.0 | 532.0 | 531.4 | 534.2 | 1 | 557.9 |
| National defense Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except | 341.7 291.4 21.2 8.1 262.3 | 8.9 | 347.5 293.6 22.0 8.9 263.0 | | 341.4 289.5 20.6 7.7 261.2 | 339.2 284.9 21.3 8.5 255.4 | 294.0 22.7 10.4 | 362.0 305.0 22.2 9.2 273.9 |
| own-account investment 3 | 124.3 | 121.0 | 124.3 | 122.6 | 121.5 | 121.0 | 121.2 | 120.3 |
| general government fixed capital 4 | 62.2 75.9 50.3 5.1 45.3 | 62.2 80.0 54.6 4.8 50.0 | 62.1 76.6 54.0 5.5 48.6 | 62.1 79.3 51.4 4.8 46.8 | 62.1 77.8 52.1 5.0 47.2 | 62.1 72.4 54.6 4.9 49.9 | 54.5 4.7 | 62.3 91.4 57.3 4.7 52.8 |
| Nondefense | 184.4 147.3 1 8.4 | 1.5 | 179.6 142.9 -4.5 8.5 | 1.3 | 189.9 150.8 1.5 10.4 | 1.7 | 149.8 1.4 | 1.5 |
| inventory change Other nondurables Services Compensation of general government employees, except | .1 8.3 139.1 | 2.4 8.6 140.1 | .3 8.1 138.8 | .5 8.3 139.4 | 2.0 8.4 139.8 | 2.0 8.6 141.1 | 8.6 | |
| own-account investment ³ Consumption of | 76.8 | 77.3 | 76.7 | 78.1 | 78.2 | 77.2 | 76.4 | 77.2 |
| general government fixed capital 4 Other services Gross investment Structures Equipment and software | 21.3 41.1 37.2 10.6 26.7 | 39.9 42.2 | 21.5 40.7 36.9 11.0 25.9 | 10.8 | 22.5 39.3 39.4 10.9 28.6 | | 39.2 41.9 10.4 | 39.9 44.5 10.3 |
| State and local Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except own-account | 953.9 775.1 15.3 91.4 668.8 | 801.1 16.4 97.3 688.1 | 15.4 92.1 670.6 | 93.5 675.0 | 16.0 95.0 680.0 | 797.3 16.2 96.5 685.2 | 804.9 16.5 98.1 691.1 | 811.9 16.8 99.6 696.2 |
| investment ³ Consumption of general government fixed | 557.6 | 568.4 | 558.1 | 560.6 | 563.5 | | | |
| Capital 4 Other services | 75.0 36.3 178.8 127.5 51.8 | 41.1 193.3 136.5 | 37.2 180.3 128.3 | 38.2 179.9 126.6 | 39.3 192.7 137.8 | 40.5 187.8 132.1 | 41.5 191.7 134.1 | 43.0 201.1 142.0 |
| Residual | -1.5 | 5.0 | -1.4 | -2.3 | -2.9 | -4.7 | -5.6 | -6.0 |
| Addenda: Compensation of general government employees 3 Federal | 766.6 202.6 564.0 | 199.8 | | 202.3 | | 199.8 | 199.2 | 198.9 |

Note.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the lines in the addenda.

See footnotes to table 3.7.
Chain-type quantity indexes for the series in this table are shown in table 7.11.
Contributions to percent change in real government consumption expenditures and gross investment are shown in table 8.6.

^{1.} Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.

2. Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries by the Federal Government.

3. Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software. The compensation of all general government employees is shown in the addenda.

4. Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

Table 3.10.—National Defense Consumption Expenditures and Gross Investment

| | | | S | easonall | y adjuste | ed at ann | nual rate | s |
|--|--|--|--|--|--|--|--|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | III | IV | l | 11 | III | IV |
| National defense consumption expenditures and gross investment ¹ | 348.6 | 364.5 | 354.7 | 352.9 | 355.8 | 354.3 300.8 | 365.4 | 382.3 |
| Consumption expenditures | 299.9 | 310.8 | 302.5 | 303.4 | 304.6 | | 312.1 | 325.6 |
| Aircraft Missiles Ships Vehicles Electronics Other durable goods | 21.0 10.1 2.3 .6 .9 2.5 4.6 | 21.4 10.0 2.2 .7 .8 2.9 4.8 | 21.8 9.8 3.0 .6 .9 2.5 4.9 | 21.4 11.0 2.1 .6 .9 2.4 4.4 | 20.4 9.6 2.2 .6 .7 2.5 4.7 | 21.1 9.7 2.1 .8 .8 2.8 4.9 | 22.4 10.4 2.3 .7 .8 3.0 5.0 | 21.9 10.2 2.3 .6 .8 3.2 4.7 |
| Nondurable goods | 7.0 | 8.2 | 7.6 | 6.9 | 6.4 | 7.4 | 9.8 | 9.2 |
| Petroleum products Ammunition Other nondurable goods | 2.1 1.9 3.1 | 2.5 1.9 3.8 | 2.1 2.5 3.0 | 1.7 2.0 3.2 | 1.5 1.8 3.1 | 2.3 1.8 3.4 | 3.6 2.3 3.9 | 2.5 1.9 4.8 |
| Services | 271.9 | 281.2 | 273.1 | 275.1 | 277.8 | 272.3 | 279.9 | 294.5 |
| Compensation of general government employees, except own-account investment ³ | 131.0 83.7 47.2 | 133.0 84.5 48.5 | 131.1 83.7 47.4 | 129.9 83.1 46.8 | 133.2 84.7 48.5 | 132.9 84.2 48.7 | 133.3 84.6 48.7 | 132.6 84.5 48.2 |
| capital 4 Other services Research and | 61.6 79.3 | 62.5 85.6 | 61.5 80.4 | 61.5 83.6 | 62.2 82.4 | 62.3 77.1 | 62.7 83.9 | 62.9 99.0 |
| development | 21.2 23.9 8.5 18.9 | 18.7 26.8 8.8 23.8 | 22.4 25.1 8.6 18.7 | 22.8 23.4 9.3 20.3 | 18.8 24.6 8.5 22.0 | 15.3 24.2 8.4 20.9 | 18.0 27.1 8.8 23.8 | 22.5 31.2 9.6 28.5 |
| material Travel of persons | 4.9 3.5 –1.7 | 5.5 3.5 -1.4 | 4.9 3.5 -2.7 | 5.3 3.5 –1.0 | 5.6 3.6 7 | 6.0 3.6 1.4 | 5.4 3.6 –2.7 | 4.9 3.3 –1.0 |
| Gross investment | 48.7 | 53.7 | 52.2 | 49.5 | 51.2 | 53.5 | 53.4 | 56.7 |
| Structures | 5.4 | 5.3 | 5.9 | 5.1 | 5.4 | 5.3 | 5.2 | 5.3 |
| Equipment and software Aircraft Missiles Ships Vehicles Electronics and software Other equipment | 43.3 5.6 3.3 6.4 1.5 12.7 13.8 | 48.4 7.6 2.8 6.7 1.6 15.1 14.5 | 46.3 6.0 4.4 6.5 1.5 12.9 15.0 | 44.4 7.0 2.9 6.9 1.4 13.0 13.2 | 45.8 6.1 2.8 6.8 1.4 13.7 15.1 | 48.2 7.6 2.7 6.6 1.8 15.2 14.4 | 48.2 7.8 2.7 6.5 1.6 15.6 14.0 | 51.4 8.9 3.0 7.1 1.7 16.2 14.5 |
| Addendum: Compensation of general government employees 3 | 131.5 | 133.6 | 131.6 | 130.5 | 133.8 | 133.5 | 133.9 | 133.2 |

Table 3.11.—Real National Defense Consumption Expenditures and Gross Investment

[Billions of chained (1996) dollars]

| | JINOHS U | | (1000) | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | s | easonali | y adjuste | ed at ann | nual rate | s |
| | 1998 | 1999 | 19 | 98 | | 199 | 99 | |
| | | | 111 | IV | ı | 11 | 111 | ١٧ |
| National defense consumption expenditures and gross investment ¹ | 341.7 | 347.7 | 347.5 | 344.9 | 341.4 | 339.2 | 348.3 | 362.0 |
| Consumption expenditures | 291.4 | 293.4 | 293.6 | 293.6 | 289.5 | 284.9 | 294.0 | 305.0 |
| Durable goods 2 Aircraft Missiles Ships Vehicles Electronics Other durable goods | 21,2 10.2 2.4 .6 .7 2.6 4.6 | 21.7 10.2 2.2 .7 .7 3.1 4.8 | 22.0 10.0 3.1 .6 .7 2.7 5.0 | 21.6 11.2 2.2 .6 .7 2.6 4.4 | 20.6 9.8 2.2 .7 .6 2.7 4.7 | 21.3 9.9 2.1 .8 .7 3.1 4.9 | 22.7 10.7 2.3 .8 .7 3.3 5.1 | 22.2 10.4 2.3 .6 .7 3.5 4.7 |
| Nondurable goods | 8.1 | 8.9 | 8.9 | 8.1 | 7.7 | 8.5 | 10.4 | 9.2 |
| Petroleum products AmmunitionOther nondurable goods | 3.0 1.9 3.1 | 3.1 2.0 3.8 | 3.3 2.6 3.0 | 2.7 2.1 3.1 | 2.6 1.8 3.1 | 3.2 1.8 3.4 | 4.2 2.4 3.8 | 2.5 1.9 4.7 |
| Services | 262.3 | 263.0 | 263.0 | 263.9 | 261.2 | 255.4 | 261.5 | 273.9 |
| Compensation of general government employees, except own-account investment ³ | 124.3 80.1 44.2 | 121.0 78.5 42.5 | 124.3 80.2 44.2 | 122.6 79.4 43.3 | 121.5 78.6 42.8 | 121.0 78.2 42.8 | 121.2 78.8 42.5 | 120.3 78.5 41.9 |
| government fixed capital ⁴ Other services Research and | 62.2 75.9 | 62.2 80.0 | 62.1 76.6 | 62.1 79.3 | 62.1 77.8 | 62.1 72.4 | 62.2 78.2 | 62.3 91.4 |
| development | 20.3 23.2 8.1 17.5 | 17.7 25.5 8.1 21.2 | 21.5 24.2 8.1 17.2 | 21.8 22.4 8.8 18.5 | 17.9 23.6 7.9 19.8 | 14.5 23.1 7.8 18.8 | 17.0 25.8 8.0 21.1 | 21.2 29.5 8.7 24.9 |
| material Travel of persons Other | 4.9 3.4 –1.5 | 5.4 3.3 –1.3 | 4.8 3.3 –2.5 | 5.4 3.4 –1.0 | 5.7 3.4 6 | 6.0 3.4 –1.2 | 5.2 3.4 2.4 | 4.7 3.1 9 |
| Gross investment | 50.3 | 54.6 | 54.0 | 51.4 | 52.1 | 54.6 | 54.5 | 57.3 |
| Structures | 5.1 | 4.8 | 5.5 | 4.8 | 5.0 | 4.9 | 4.7 | 4.7 |
| Equipment and software Aircraft Missiles Ships Vehicles Electronics and software Other equipment | 45.3 6.2 3.5 6.4 1.5 13.8 13.8 | 50.0 7.8 3.0 6.7 1.6 16.4 14.4 | 48.6 6.7 4.7 6.5 1.5 14.1 15.0 | 46.8 8.1 3.0 6.9 1.4 14.3 13.1 | 47.2 6.3 2.9 6.8 1.4 14.7 15.0 | 49.9 7.8 2.9 6.6 1.8 16.4 14.3 | 50.0 8.1 2.9 6.5 1.6 17.0 14.0 | 52.8 9.1 3.2 7.0 1.8 17.4 14.4 |
| Addendum: Compensation of general government employees ³ | 1 124.8 | 7 121.5 | 6 124.8 | 4 123.1 | 1 122.0 | 9 121.5 | -1.4 121.7 | 8 120.7 |

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the line in the addendum.

Chain-type indexes for the series in this table are shown in table 7.12.

See footnotes to table 3.10.

^{1.} Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.

2. Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries.

3. Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software. The compensation of all general government employees is shown in the addendum.

4. Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

4. Foreign Transactions_

Table 4.1.—Foreign Transactions in the National Income and Product Accounts

[Billions of dollars]

| | | | s | easonali | y adjuste | ed at an | nual rate | s |
|--|---|---------------------------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | _ | | Ш | IV | 1 | И | HI | IV |
| Receipts from the rest of the world | 1,251.6 | | 1,225.5 | 1,262.7 | 1,250.7 | 1,274.3 | 1,316.2 | |
| Exports of goods and services Goods ¹ Durable Nondurable Services ¹ | 966.3 681.3 487.2 194.0 285.1 | 698.8 503.5 195.3 | 667.2 479.4 187.8 | 693.3 498.3 195.0 | 674.3 486.7 187.6 | 680.5 489.8 | 512.2 196.6 | 731.5 525.4 206.1 |
| Income receipts | 285.3 | | 276.4 | 280.8 | 283.8 | 296.1 | 307.7 | |
| Payments to the rest of the world | 1,251.6 | ļ | 1,225.5 | 1,262.7 | 1,250.7 | 1,274.3 | 1,316.2 | |
| Imports of goods and services Goods ¹ Durable Nondurable Services ¹ | 1,115.9 930.4 636.1 294.3 185.5 | 1,048.8 715.9 332.8 | 632.0 295.2 | 952.6 659.5 | 974.3 676.6 297.7 | 1,022.3 701.7 320.6 | 1,079.3 732.5 346.7 | 1,119.2 753.0 366.3 |
| Income payments | 295.2 | | 302.0 | 297.9 | 298.2 | 310.4 | 323.2 | |
| Transfer payments (net) From persons (net) From government (net) From business | 42.0 22.3 10.4 9.3 | 24.4 10.5 | 22.9 9.1 9.3 | 23.3 18.7 9.6 | 23.5 6.8 | 24.6 9.2 | 24.5 8.5 9.8 | 25.1 17.4 10.1 |
| Net foreign investment | -201.5 | ļ | -232.6 | -229.9 | -255.7 | -303.7 | -336.3 | |

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

Table 4.2.—Real Exports and Imports of Goods and Services and Receipts and Payments of Income

| | | | s | easonall | y adjuste | ed at an | innual rates | | | | |
|--|---|---------------------------|---------------------------|------------------|---------------------------|---------------------------|----------------|-------------------------|--|--|--|
| | 1998 | 1999 | 19 | 1998 1999 | | | | | | | |
| | | | | IV | 1 | 11 | 111 | IV | | | |
| Exports of goods and services Goods ¹ Durable Nondurable Services ¹ | 1,007.1 722.8 513.5 209.3 284.4 | 537.4 214.1 | 712.0 507.5 204.4 | 744.2 529.3 | 726.4 518.2 208.1 | 734.1 522.8 211.2 | 548.2 214.9 | 782.6 560.2 222.2 | | | |
| Income receipts | 279.2 | | 270.3 | 274.0 | 276.0 | 286.6 | 296.5 | | | | |
| Imports of goods and services Goods ¹ Durable Nondurable Services ¹ | | 1,162.2 803.9 358.6 | 1,037.9 700.7 337.5 | 1,069.7 733.7 | 1,102.0 753.6 348.5 | 1,142.5 787.4 355.0 | 363.8 | 1,215.6 849.2 | | | |
| Income payments | 289.6 | | 295.8 | 291.3 | 290.7 | 301.1 | 311.8 | | | | |

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Chain-type quantity indexes to the series in this table are shown in table 7.9.

Table 4.3.-Exports and Imports of Goods and Services by Type of Product

| | Γ | | Seasonally adjusted at annual rates | | | | | | | |
|--|--|---|---|---|---|--|--|---|--|--|
| | | l | | easonali | y adjust | s u at an | iidai rate | :S | | |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | |
| | | | 10 | IV | 1 | - 11 | Ш | IV | | |
| Exports of goods and | | | | | | | | | | |
| services | 966.3 | | 949.1 | 981.8 | 966.9 | | 1,008.5 | | | |
| Exports of goods 1 | 681.3 | | 667.2 | 693.3 | 674.3 | 1 | | l | | |
| Foods, feeds, and beverages | 46.4 | 45.5 | 42.8 | 47.5 | 43.2 | 45.3 | 47.1 | 46.4 | | |
| Industrial supplies and materials | 142.8 | 141.9 | 138.8 | 139.7 | 133.6 | 137.0 | 142.6 | 154.5 | | |
| Durable goods | 53.7 | 53.9 | 51.9 | 52.6 | 51.7 | 52.5 | 53.8 | 57.5 | | |
| Nondurable goods | 89.1 | 88.1 | 86.9 | 87.1 | 81.9 | 84.5 | 88.8 | 97.1 | | |
| Capital goods, except automotive | 300.1 | 311.1 | 299.0 | 309.2 | 301.7 | 299.5 | 319.3 | 323.9 | | |
| Civilian aircraft, engines, | | | | | | i | | 1 | | |
| and parts | 53.5 | 53.3 | 56.2 | 63.6 | 56.6 | 48.7 | 53.9 | 54.2 | | |
| Computers, peripherals, and parts | 45.2 | 46.6 | 44.8 | 45.6 | 44.1 | 46.5 | 48.2 | 47.7 | | |
| Other | 201.3 | 211.1 | 198.0 | 200.0 | 200.9 | | 217.2 | 222.0 | | |
| Automotive vehicles, engines, | | | | | | | | | | |
| and parts | 73.2 | 74.8 | 68.2 | 74.7 | 71.4 | 75.0 | 76.0 | 76.7 | | |
| Consumer goods, except automotive | 79.3 | 80.7 | 80.3 | 79.2 | 79.6 | 79.1 | 80.6 | 83.7 | | |
| Durable goods | 40.5 | 41.4 | 41.2 | 40.3 | 39.5 | 40.5 | 41.5 | 44.2 | | |
| Nondurable goods | 38.7 | 39.3 | 39.1 | 38.9 | 40.1 | 38.7 | 39.0 | 39.5 | | |
| Other | 39.5 | 44.7 | 37.9 | 43.0 | 44.8 | l . | 43.2 | 46.2 | | |
| Exports of services 1 | 285.1 | 298.7 | 281.9 | 288.6 | 292.6 | 297.7 | 299.7 | 304.7 | | |
| Transfers under U.S. military agency sales contracts | 16.3 | 16.0 | 15.1 | 15.1 | 16.5 | 16.0 | 16.5 | 15.1 | | |
| Travel | 71.3 | 73.5 | 68.6 | 71.8 | 72.6 | 73.5 | 73.0 | 74.9 | | |
| Passenger fares | 20.0 | 21.0 | 20.2 | 19.4 | 20.0 | 21.0 | 21.3 | 21.9 | | |
| Other transportation | 25.5 | 27.2 | 25.4 | 26.3 | 26.0 | 26.9 | 27.6 | 28.4 | | |
| Royalties and license fees Other private services | 36.8 92.1 | 37.5 99.0 | 36.1 93.1 | 39.6 93.0 | 37.3 96.4 | 37.6 98.6 | 37.4 99.3 | 37.6 101.7 | | |
| Other | 23.1 | 24.4 | 23.4 | 23.5 | 23.8 | | 24.5 | 25.0 | | |
| Imports of goods and | | Į į | | | | | | | | |
| | | | | | | | | | | |
| services | 1,115.9 | 1,252.9 | , , | 1,143.1 | 1,168.5 | 1,224.0 | 1,286.6 | 1,332.6 | | |
| Imports of goods 1 | | 1,252.9 1,048.8 | 1,114.8 927.2 | 1,143.1 952.6 | | 1,224.0 1,022.3 | 1 | ' | | |
| Imports of goods 1 Foods, feeds, and beverages | | | , , | , . | | ' ' | 1 | 1,119.2 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and | 930.4 | 1,048.8 | 927.2 | 952.6 | 974.3 | 1,022.3 | 1,079.3 | 1,119.2 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum | 930.4 41.2 | 1,048.8 43.6 | 927.2 41.3 | 952.6 41.6 | 974.3 41.7 | 1,022.3 43.8 | 1 ,079.3 44.2 | 1,11 9.2 44.8 | | |
| Imports of goods ¹ | 930.4 41.2 142.6 75.8 | 1,048.8 43.6 148.5 79.0 | 927.2 41.3 144.3 77.2 | 952.6 | 974.3 | 1,022.3 | 1,079.3 | 1,119.2 44.8 158.6 83.3 | | |
| Imports of goods 1 | 930.4 41.2 142.6 75.8 66.8 | 1,048.8 43.6 148.5 79.0 69.5 | 927.2 41.3 144.3 77.2 67.1 | 952.6 41.6 140.3 75.1 65.2 | 974.3 41.7 140.0 75.0 65.0 | 1,022.3 43.8 143.8 77.8 66.1 | 1,079.3 44.2 151.6 80.1 71.5 | 1,119.2 44.8 158.6 83.3 75.2 | | |
| Imports of goods 1 | 930.4 41.2 142.6 75.8 | 1,048.8 43.6 148.5 79.0 | 927.2 41.3 144.3 77.2 | 952.6 41.6 140.3 75.1 | 974.3 41.7 140.0 75.0 | 1,022.3 43.8 143.8 77.8 | 1,079.3 44.2 151.6 80.1 | 1,119.2 44.8 158.6 83.3 75.2 | | |
| Imports of goods 1 | 930.4 41.2 142.6 75.8 66.8 50.9 | 1,048.8 43.6 148.5 79.0 69.5 67.6 | 927.2 41.3 144.3 77.2 67.1 49.8 | 952.6 41.6 140.3 75.1 65.2 45.8 | 974.3 41.7 140.0 75.0 65.0 42.4 | 1,022.3 43.8 143.8 77.8 66.1 63.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 | 1,119.2 44.8 158.6 83.3 75.2 85.9 | | |
| Imports of goods 1 | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 | 1,048.8 43.6 148.5 79.0 69.5 67.6 | 927.2 41.3 144.3 77.2 67.1 49.8 | 952.6 41.6 140.3 75.1 65.2 45.8 | 974.3 41.7 140.0 75.0 65.0 42.4 | 1,022.3 43.8 143.8 77.8 66.1 63.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 | 143.8 43.8 143.8 77.8 66.1 63.7 291.7 22.6 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 | 143.8 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 123.9 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 | 952.6 41.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 123.9 115.9 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 | | |
| Imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 | 927.2 41.3 144.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services¹ | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods. Nondurable goods. Petroleum and products. Capital goods, except automotive Civilian aircraft, engines, and parts. Computers, peripherals, and parts. Other Automotive vehicles, engines, and parts. Consumer goods, except automotive vehicles, engines, and parts. Consumer goods, except automotive Durable goods. Nondurable goods. Other Imports of services ¹ Direct defense expenditures | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 12.8 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 | 952.6 41.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 | 1,022.3 43.8 143.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 60.4 185.5 12.8 56.1 19.8 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.3 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 20.5 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 14.0 59.4 20.5 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 201.7 14.4 60.0 21.3 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 16.0 63.1 22.2 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods. Nondurable goods. Petroleum and products. Capital goods, except automotive Civilian aircraft, engines, and parts. Computers, peripherals, and parts. Other Automotive vehicles, engines, and parts. Consumer goods, except automotive vehicles, engines, and parts. Consumer goods, except automotive burable goods Nondurable goods Other Imports of services¹ Direct defense expenditures. Travel Passenger fares. Other transportation. | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 15.8 30.5 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.8 | 952.6 41.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 20.5 31.4 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 20.5 9.4 20.5 9.4 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7' 207.4 60.9 21.8 36.1 | 1,119.2 44.8 158.6 83.3,75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 16.0 63.1 22.2 37.2 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Incomposition of the supplies of the supplie | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 12.8 30.5 11.3 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.3 30.8 10.9 | 952.6 41.6 41.6 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 20.5 31.4 11.7 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.5 70.3 194.2 14.0 59.4 20.5 30.9 12.7 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 13.0 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 36.1 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 123.0 74.7 213.4 160.3 122.2 37.2 12.6 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 15.8 30.5 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 123.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 52.3 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.8 | 952.6 41.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 20.5 31.4 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 20.5 9.4 20.5 9.4 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 60.0 21.3 33.2 133.2 133.2 133.2 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7' 207.4 60.9 21.8 36.1 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 74.7 213.4 160.0 63.1 22.2 37.2 126.6 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Incomposition of the supplies of the supplie | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 110.5 2 60.4 185.5 113.8 56.1 19.8 30.5 114.7 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.3 30.8 10.9 48.7 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 50.5 31.4 11.7 49.1 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 113.5 70.3 194.2 14.0 59.4 20.5 30.9 12.7 49.3 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 13.0 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 36.1 11.9 53.3 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 74.7 213.4 160.0 63.1 22.2 37.2 126.6 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services Other Addenda: Exports of agricultural goods ² | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 110.5 2 60.4 185.5 113.8 56.1 19.8 30.5 114.7 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 123.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 52.3 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 20.3 30.8 10.9 48.7 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 13.6 56.5 50.5 31.4 11.7 49.1 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 113.5 70.3 194.2 14.0 59.4 20.5 30.9 12.7 49.3 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 13.3 22.2 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 36.1 11.9 53.3 | 1,119.2 44.8 158.6 83.3,752.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3,123.0 74.7 213.4 60.5 121.6 122.2 12.6 54.4 7.9 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods. Nondurable goods. Petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 1105.2 60.4 185.5 12.8 30.5 11.9 30.5 11.9 30.5 11.3 47.7 7.4 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 52.3 7.7 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 30.8 10.3 48.7 7.6 49.2 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 13.6 56.5 20.5 31.4 11.7 49.1 7.6 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.5 70.3 194.2 14.0 59.4 20.5 30.9 12.7 49.3 7.4 | 1,022.3 43.8 77.8 66.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 13.3 21.3 49.0 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 36.1 111.9 21.8 36.1 51.8 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 16.0 63.1 22.2 37.2 12.6 5.9 5.9 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Other Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services Other Addenda: Exports of agricultural goods ² Exports of nonagricultural goods Exports of nonagricultural goods | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 111.5 105.2 60.4 185.5 11.3 47.7 7.4 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 52.3 7.7 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 156.3 20.3 30.8 10.9 48.7 7.6 | 952.6 41.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 68.5 190.4 11.7 49.1 7.6 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.8 113.5 70.3 194.2 20.5 30.9 12.7 49.3 7.4 | 1,022.3 43.8 77.8 661.1 63.7 291.7 22.6 82.0 187.1 175.1 232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 7.7 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 60.9 21.8 36.1 11.9 53.3 7.9 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 16.0 63.1 22.2 37.2 12.6 | | |
| Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products. Durable goods. Nondurable goods. Petroleum and products | 930.4 41.2 142.6 75.8 66.8 50.9 269.6 21.8 72.5 175.3 149.1 216.7 1105.2 60.4 185.5 12.8 30.5 11.9 30.5 11.9 30.5 11.3 47.7 7.4 | 1,048.8 43.6 148.5 79.0 69.5 67.6 296.8 23.4 81.4 192.0 179.9 239.9 115.9 72.5 204.2 15.0 60.8 21.4 34.3 12.5 52.3 7.7 | 927.2 41.3 77.2 67.1 49.8 268.2 22.5 71.6 174.1 144.3 219.0 112.2 106.8 60.3 187.7 13.1 56.3 30.8 10.3 48.7 7.6 49.2 | 952.6 41.6 140.3 75.1 65.2 45.8 274.2 24.2 74.7 175.3 161.2 221.1 114.7 106.4 13.6 56.5 20.5 31.4 11.7 49.1 7.6 | 974.3 41.7 140.0 75.0 65.0 42.4 279.1 22.2 77.6 179.3 171.6 229.2 115.5 70.3 194.2 14.0 59.4 20.5 30.9 12.7 49.3 7.4 | 1,022.3 43.8 77.8 661.1 63.7 291.7 22.6 82.0 187.1 175.1 1232.8 121.5 111.4 71.4 201.7 14.4 60.0 21.3 33.2 7.7 49.0 631.4 | 1,079.3 44.2 151.6 80.1 71.5 78.3 302.2 24.9 82.5 194.7 186.2 243.0 127.2 115.8 73.7 207.4 15.4 60.9 21.8 36.1 111.9 21.8 36.1 51.8 | 1,119.2 44.8 158.6 83.3 75.2 85.9 314.1 23.8 83.6 206.7 186.8 254.3 131.3 123.0 74.7 213.4 16.0 63.1 22.2 37.2 50.6 680.9 | | |

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.
2. Includes parts of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable nonautomotive consumer goods.

Table 4.4.-Real Exports and Imports of Goods and Services by Type of **Product**

[Billions of chained (1996) dollars]

| | | <u> </u> | Seasonally adjusted at annual rates | | | | | | | |
|---|--|--|---|--|---|--|---|--|--|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | |
| | | | 111 | IV | ı | | | IV | | |
| Exports of goods and services | 1 007 1 | 1,043.6 | 903.0 | 1 030 8 | 1 016 4 | 1 026 4 | 1,054.8 | 1 077 0 | | |
| Exports of goods 1 | 722.8 | 1 ' | 712.0 | 744.2 | | J ' . | 763.3 | 782.6 | | |
| Foods, feeds, and beverages | 55.1 | 56.7 | 51.4 | 57.8 | 52.9 | 56.1 | 59.1 | 58.7 | | |
| Industrial supplies and materials | 151.5 | 152.9 | 149.0 | 152.3 | 147.1 | 150.1 | 152.7 | 161.9 | | |
| Durable goods | 56.5 | 58.2 | 55.0 | 56.3 | 55.9 | 57.0 | 58.2 | 61.7 | | |
| Nondurable goods | 95.1 | 94.7 | 94.0 | 96.0 | 91.1 | 93.1 | 94.4 | 100.2 | | |
| Capital goods, except automotive | 324.5 | 341.6 | 325.1 | 337.2 | 329.6 | 328.4 | 352.1 | 356.2 | | |
| Civilian aircraft, engines, | ٠., | 40.0 | l | | | 1 | 1 | l | | |
| and parts Computers, peripherals, | 51.1 | 49.9 | 53.7 | 60.4 | 53.2 | 45.6 | 50.3 | 50.3 | | |
| and parts | 59.9 | 68.0 | 61.0 | 63.1 | 62.6 | 67.1 | 71.4 | 70.8 | | |
| OtherAutomotive vehicles, engines, | 212.7 | 224.8 | 209.5 | 212.3 | 213.4 | 217.5 | 231.9 | 236.4 | | |
| and parts | 72.5 | 73.6 | 67.6 | 73.9 | 70.5 | 74.0 | 74.8 | 75.2 | | |
| Consumer goods, except | 70.7 | 80.4 | 70.0 | 70.0 | 70.0 | 70.0 | 00.0 | 83.1 | | |
| automotive Durable goods | 78.7 40.2 | 41.4 | 79.8 41.0 | 78.8 40.2 | 79.3 39.5 | 78.9 40.5 | 80.3 41.4 | 44.1 | | |
| Nondurable goods | 38.4 | 39.0 | 38.8 | 38.6 | 39.8 | 38.4 | 38.8 | 39.1 | | |
| Other | 40.9 | 46.8 | 39.4 | 44.9 | 46.9 | 46.8 | 45.3 | 48.0 | | |
| Exports of services 1 | 284.4 | 292.4 | 281.1 | 287.0 | 289.9 | 292.2 | 292.2 | 295.4 | | |
| Transfers under U.S. military agency sales contracts | 17.1 | 16.0 | 16.0 | 16.1 | 16.5 | 16.1 | 16.5 | 14.9 | | |
| Travel | 69.4 | 70.8 | 66.6 | 69.5 | 70.7 | 70.6 | 70.1 | 71.8 | | |
| Passenger fares | 20.9 26.4 | 20.4 | 21.5 26.1 | 19.6 | 19.7 27.7 | 20.7 27.7 | 20.6 | 20.7 28.1 | | |
| Other transportation Royalties and license fees | 36.0 | 27.8 36.2 | 35.3 | 27.4 38.6 | 36.3 | 36.3 | 27.7 36.0 | 36.0 | | |
| Other private services | 91.4 | 97.1 | 92.3 | 92.1 | 95.0 | 96.7 | 97.2 | 99.6 | | |
| Other | 23.2 | 24.0 | 23.4 | 23.7 | 23.9 | 24.1 | 24.0 | 24.1 | | |
| Residual | .3 | -1.8 | .4 | .3 | .8 | -1.9 | -2.9 | -2.7 | | |
| IMPORTS OF ANNAS SINA | | | | | | | | | | |
| Imports of goods and services | 1,222.2 | 1.366.5 | 1.231.0 | 1,263,1 | 1.300.9 | 1.345.4 | 1.393.0 | 1.426.7 | | |
| services | | 1,366.5 1,162.2 | | | | | 1,393.0 1,188.9 | | | |
| | | 1,366.5 1,162.2 46.1 | | | | | | | | |
| imports of goods ¹ Foods, feeds, and beverages industrial supplies and | 1,031.6 | 1,162.2 | 1,037.9 | 1,069.7 | 1,102.0 | 1,142.5 | 1,188.9 | 1,215.6 | | |
| imports of goods 1 | 1,031.6 42.2 | 1,162.2 46.1 | 1,037.9 42.6 | 1,069.7 42.8 | 1,102.0 43.7 | 1,142.5 46.0 | 1,188.9 47.2 | 1,215.6 47.6 | | |
| imports of goods ¹ | 1,031.6 42.2 150.2 78.2 | 1,162.2 46.1 157.1 81.3 | 1,037.9 42.6 153.3 80.2 | 1,069.7 42.8 151.1 79.6 | 1,102.0 43.7 151.1 78.7 | 1,142.5 46.0 154.5 80.7 | 1,188.9 47.2 159.0 81.2 | 1,215.6 47.6 163.9 84.5 | | |
| imports of goods ¹ Foods, feeds, and beverages industrial supplies and materials, except petroleum and products | 1,031.6 42.2 150.2 78.2 71.9 | 1,162.2 46.1 157.1 81.3 75.8 | 1,037.9 42.6 153.3 80.2 73.0 | 1,069.7 42.8 151.1 79.6 71.4 | 1,102.0 43.7 151.1 78.7 72.3 | 1,142.5 46.0 154.5 80.7 73.7 | 1,188.9 47.2 159.0 81.2 77.8 | 1,215.6 47.6 163.9 84.5 79.3 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products | 1,031.6 42.2 150.2 78.2 | 1,162.2 46.1 157.1 81.3 | 1,037.9 42.6 153.3 80.2 | 1,069.7 42.8 151.1 79.6 | 1,102.0 43.7 151.1 78.7 | 1,142.5 46.0 154.5 80.7 | 1,188.9 47.2 159.0 81.2 | 1,215.6 47.6 163.9 84.5 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive | 1,031.6 42.2 150.2 78.2 71.9 | 1,162.2 46.1 157.1 81.3 75.8 | 1,037.9 42.6 153.3 80.2 73.0 | 1,069.7 42.8 151.1 79.6 71.4 | 1,102.0 43.7 151.1 78.7 72.3 | 1,142.5 46.0 154.5 80.7 73.7 | 1,188.9 47.2 159.0 81.2 77.8 | 1,215.6 47.6 163.9 84.5 79.3 | | |
| services imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 | 1,069.7 42.8 151.1. 79.6 71.4 79.2 339.6 22.8 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products. Durable goods | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 | 1,069.7 42.8 151.1. 79.6 71.4 79.2 339.6 22.8 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products. Durable goods | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 | | |
| services imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except | 1,031.6 42.2 150.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 | | |
| services imports of goods ¹ Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 | | |
| services imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.33 113.4 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 | | |
| services imports of goods ¹ Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services 1 | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 1162.2 73.1 205.2 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 123.3 113.4 70.7 199.4 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 | | |
| services imports of goods ¹ Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares | 1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 16.5 63.4 19.5 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation | 1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 16.5 63.4 19.5 32.0 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 190.0 32.3 | 1,102.0 43.7 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 190.3 20.0 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 116.3 74.3 205.5 17.0 62.7 19.2 19.2 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 20.2 23.5 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services | 1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 16.5 63.4 19.5 32.0 12.1 154.3 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 | 1,102.0 43.7 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services Other | 1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 19.1 7.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 16.5 32.0 12.1 54.3 7.6 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.3 1.8 10.6 50.3 7.6 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 62.5 19.0 32.0 12.3 50.9 7.4 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 32.5 1.5 7.7 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other Other Residual | 1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 16.5 63.4 19.5 32.0 12.1 154.3 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 111.4 51.0 | 1,102.0 43.7 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 111.4 55.4 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 32.5 12.7 57.5 | | |
| imports of goods 1 Foods, feeds, and beverages industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive burable goods Nondurable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other Private services Other Residual Addenda; | 1,031.6 42.2 78.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 18.5 31.7 11.0 49.1 7.3 -2.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 73.1 16.5 63.4 19.5 32.0 12.1 54.3 7.6 -5.0 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 18.9 31.8 10.6 50.3 7.6 50.3 7.3 2.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.0 7.5 —.6 | 1,102.0 43.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 113.4 70.7 199.4 62.5 19.0 32.0 12.3 50.9 7.4 8 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 -5.5 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 116.3 74.3 205.5 116.3 74.3 205.5 119.4 32.1 11.4 55.4 7.7,7 -5.9 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 2.5 55.2 20.2 32.5 7.7, -8.0 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive burable goods Nondurable goods Other Imports of services 1 Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services Other Residual Addenda: Exports of agricultural goods 2 | 1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 19.1 7.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 16.5 32.0 12.1 54.3 7.6 | 1,037.9 42.6 153.3 80.2: 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.3 1.8 10.6 50.3 7.6 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.0 7.5 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 62.5 19.0 32.0 12.3 50.9 7.4 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 32.5 1.5 7.7 | | |
| imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Nondurable goods Other Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other Residual Addenda: Exports of agricultural goods 2 Exports of nonagricultural | 1,031.6 42.2 78.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 18.5 31.7 11.0 49.1 7.3 -2.3 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 205.2 73.1 16.5 63.4 19.5 32.0 12.1 54.3 7.6 -5.0 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 18.9 31.8 10.6 50.3 7.6 50.3 7.3 2.3 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.0 7.5 —.6 | 1,102.0 43.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 113.4 70.7 199.4 62.5 19.0 32.0 12.3 50.9 7.4 8 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 -5.5 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 116.3 74.3 205.5 116.3 74.3 205.5 119.4 32.1 11.4 55.4 7.7,7 -5.9 | 1,215.6 47.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 32.5 7.7 -8.0 | | |
| imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Petroleum and products Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Nondurable goods Other Imports of services¹ Direct defense expenditures Travel Passenger fares Other transportation Royalties and license fees Other private services Other Residual Addenda: Exports of agricultural goods² Exports of nonagricultural | 1,031.6 42.2 78.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.5 58.7 11.0 17.3 -2.3 62.6 659.9 | 1,162.2 46.1 157.1 81.3 75.8 81.4 378.7 21.7 131.2 229.5 178.1 247.9 131.7 116.2 73.1 1205.2 16.5 63.4 19.5 32.0 12.1 54.3 7.6 -5.0 63.3 | 1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 14.6 59.4 18.9 31.8 10.6 59.4 18.9 31.8 10.6 59.4 59.4 59.4 59.4 59.4 59.4 59.4 59.4 | 1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.0 7.5 -6 66.3 677.9 | 1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 154.4 62.5 19.0 32.0 12.3 50.9 7.4 -8 58.8 666.7 | 1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 -5.5 62.7 671.1 | 1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 55.4 7.7 -5.9 | 1,215.6 47.6 163.9 84.5 79.3 76.9 406.7 22.1 139.3 249.2 184.5 263.2 140.0 123.4 75.2 212.3 17.5 65.2 20.2 32.5 7.7 -8.0 65.0 | | |

Note.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line following the detail for exports is the difference between the aggregate "exports of goods and exports of services. The residual line following the detail for imports is the difference between the aggregate "imports of services. The residual line following the detail fines for imports of goods and imports of services.

Chain-type quantity indexes for the series in this table are shown in table 7.10.

Contributions to the percent change in real exports and in real imports of goods and services are shown in table 8.5.

table 8.5. See footnotes to table 4.3.

5. Saving and Investment_

Table 5.1.-Gross Saving and Investment

[Billions of dollars]

| | | | s | easonall | y adjuste | ed at an | nual rate | s |
|---|--|------------------------|---|--|---|--|---|------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 181 | ١٧ | 1 | n | IH | IV |
| Gross saving | 1,646.0 | | 1,664.1 | 1,685.4 | 1,727.8 | 1,709.5 | 1,735.6 | |
| Gross private saving Personal saving Undistributed corporate profits with inventory valuation and capital consumption adjustments Undistributed profits Inventory valuation adjustment Capital consumption adjustment Corporate consumption of fixed capital Noncorporate consumption of fixed capital Wage accruals less disbursements | 1,371.2 229.7 257.2 193.1 20.9 43.3 619.2 261.5 | 52.0 666.3 278.9 | 251.1 187.4 19.8 43.9 625.0 | 227.5 246.5 178.8 20.8 46.9 | 195.1 277.6 213.7 13.3 50.6 645.8 271.0 | 168.0 259.5 219.9 13.6 53.2 657.2 | 139.5 252.4 227.0 –26.7 52.1 | |
| Gross government saving Federal Consumption of fixed capital Current surplus or deficit (-), national income and product accounts State and local Consumption of fixed capital Current surplus or deficit (-), national income and product accounts | 274.8 134.3 87.4 46.9 140.5 98.8 41,7 | 90.9 | 296.4 147.1 87.5 59.6 149.3 99.4 49.9 | 303.0 147.8 88.1 59.7 155.2 101.1 54.2 | 338.3 187.2 89.6 97.6 151.1 102.4 | 350.2 208.3 90.2 | 379.9 225.1 91.2 133.8 154.8 106.0 | 92.4 |
| Gross investment | 1,598.4 | | 1,576.2 | 1,623.0 | 1,628.4 | 1,574.0 | 1,594.4 | ļ |
| Gross private domestic investment Gross government investment Net foreign investment | 268.7 | 1,622.9 297.6 | | 272.6 | 289.8 | 292.2 | 295.7 | |
| Statistical discrepancy | -47.6 | | -87.9 | -62.4 | -99.4 | -135.5 | -141.2 | ı |
| Addendum: Gross saving as a percentage of gross national product | 18.8 | | 19.0 | 18.9 | 19.1 | 18.7 | 18.7 | |

Table 5.4.—Private Fixed Investment by Type

[Billions of dollars]

| | | | s | easonall | y adjuste | ed at an | nual rate | s |
|--|---------------------------------|---------------|---------------|----------|-----------|----------|---------------|---------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | IV | 1 | 11 | III | IV |
| Private fixed investment | 1,460.0 | 1,577.8 | 1,461.7 | 1,508.9 | 1,543.3 | 1,567.8 | 1,594.2 | 1,605.8 |
| Nonresidential | 1,091.3 | 1,166.5 | 1,087.2 | 1,121.4 | 1,139.9 | 1,155.4 | 1,181.6 | 1,189.2 |
| Structures | 272.8 | 272.7 | 271.7 | 278.0 | 274.7 | 272.5 | 272.1 | 271.5 |
| Nonresidential buildings, including farm Utilities Mining exploration, shafts | 197.0 39.2 | | | | | | | |
| Mining exploration, shafts, and wells Other structures | 30.0 6.5 | | | | | | | |
| Equipment and software | 818.5 | 893.8 | 815.4 | 843.4 | 865.2 | 882.9 | 909.5 | 917.7 |
| Information processing equipment and software Computers and | 356.9 | 406.3 | 361.0 | 369.7 | 382.3 | 401.7 | 416.8 | 424.5 |
| peripheral equipment ¹ Software ² Other | 88.5 123.4 144.9 | 143.2 | 126.2 | | 135.5 | 140.7 | 145.8 | 150.9 |
| Industrial equipment Transportation equipment Other | 150.2 176.0 135.5 | 198.2 | | 187.0 | 193.1 | 193.6 | 204.9 | 201.2 |
| Residential | 368.7 | 411.3 | 374.5 | 387.5 | 403.4 | 412.4 | 412.7 | 416.6 |
| Structures Single family Multifamily Other structures | 360.4 189.5 24.5 146.5 | 213.8 27.7 | 194.0 24.1 | 24.8 | | | 211.7 27.8 | 218.0 |
| Equipment | 8.3 | 8.9 | 8.4 | 8.5 | 8.7 | 8.9 | 9.0 | 9.1 |

Table 5.5.—Real Private Fixed Investment by Type

| | | | S | easonall | y adjuste | ed at an | nual rate | s |
|---|---------------------------------|----------------|----------------|----------------|---------------------------------|---------------|-----------|---------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | Ш | IV | l | II. | 111 | IV |
| Private fixed investment | 1,471.8 | 1,590.0 | 1,474.0 | 1,522.5 | 1,555.9 | 1,581.0 | 1,607.3 | 1,615.8 |
| Nonresidential | 1,122.5 | 1,215.4 | 1,120.3 | 1,160.8 | 1,182.7 | 1,202.9 | 1,234.3 | 1,242.0 |
| Structures Nonresidential buildings, | 254.1 | 247.5 | 252.1 | 255.7 | 251.9 | 248.5 | 246.1 | 243.4 |
| including farm Utilities Mining exploration, shafts, | 184.6 38.0 | | 184.2 37.9 | | | 181.2 38.0 | | |
| and wellsOther structures | 25.4 6.2 | 23.0 6.4 | 24.2 5.9 | 23.6 6.2 | | | | |
| Equipment and software | 870.6 | 975.3 | 870.6 | 908.5 | 935.7 | 960.9 | 996.6 | 1,008.0 |
| Information processing equipment and software Computers and | 418.5 | 509.0 | 427.4 | 448.5 | 470.4 | 501.0 | 526.0 | 538.5 |
| peripheral equipment 1 | 154.2 | | | | | | | 242.0 |
| Software 2 | 129.2 147.1 | 149.0 | | 137.8 | | | | |
| OtherIndustrial equipment | 148.1 | 169.6 149.1 | 148.3 148.7 | 150.9 148.9 | | | | |
| Transportation equipment | 175.3 | 196.7 | | 185.8 | | | | |
| Other | 132.3 | 132.4 | 135.1 | 131.0 | | | | 129.4 |
| Residential | 350.2 | 375.9 | 354.2 | 362.6 | 373.7 | 378.8 | 375.1 | 376.1 |
| Structures Single family Multifamily Other structures | 341.8 180.3 21.8 139.8 | | | 189.3 | 364.8 195.8 23.3 145.7 | 195.8 | | 195.9 22.8 |
| Equipment | 8.4 | 9.1 | 8.4 | 8.5 | 8.9 | 9.1 | 9.2 | 9.3 |
| Residual | -18.9 | -51.1 | -21.1 | -28.7 | -35.7 | -46.6 | -58.6 | -63.7 |

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.
 Note—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Chain-type quantity indexes for the series in this table are shown in table 78.
 Contributions to the percent change in real private fixed investment are shown in table 8.4.

Table 5.10.-Change in Private Inventories by Industry Group

| | | | Sea | sonally | adjuste | ed at a | nnual ra | ates | |
|---|--------------|-------------|--------------|--------------|--------------|---------------|---------------|----------------|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | 99 | |
| | | | III | ١٧ | 1 | = | 18) | IV | |
| Change in private inventories | 71.2 | | 73.7 | 71.4 | 51.0 | í 1 | 40.8 | | |
| Farm | .3 | 3.4 | -1.1 | 15.2 | 10.1 | 4.8 | .7 | -1.8 | |
| Nonfarm | 70.9 | 41.7 | 74.7 | 56.2 | 40.9 | | | 73.0 | |
| Change in book value 1 | 45.7 25.2 | | 49.7 25.0 | 33.7 22.5 | 22.8 18.2 | 32.1 -19.3 | 73.7 –33.6 | 100.1 -27.2 | |
| Manufacturing | 24.1 | .9 | 21.2 | | 0_ | -7.8 | 1.6 | 9.7 | |
| Durable goodsNondurable goods | 16.4 7.8 | .2 .7 | 12.8 8.4 | 6.5 5.1 | 1.7 1.7 | | 1.6 0 | 3.6 6.1 | |
| Wholesale trade | 22.4 | 15.0 | 32.3 | 16.3 | 8.8 | 10.7 | 24.2 | 16.4 | |
| Durable goods Nondurable goods | 16.0 6.4 | 12.8 2.3 | 18.2 14.1 | 15.2 1.1 | 11.3 -2.6 | 10.5 .2 | 10.6 13.6 | 18.6 -2.2 | |
| Merchant wholesalers | 19.6 | 13.7 | 29.1 | 13.9 | 7.5 | 8.3 | | 16.8 | |
| Durable goodsNondurable goods | 14.0 5.7 | 11.3 2.3 | 16.1 13.0 | 13.6 .2 | 9.8 -2.3 | 7.0 1.3 | 9.6 12.4 | 18.8 -2.0 | |
| Nonmerchant wholesalers | 2.8 | 1.4 | 3.2 | 2.4 | 1.3 | 2.4 | 2.2 | -2.0 4 | |
| Durable goods | 2.1 | 1.5 | 2.1 | 1.6 | 1.5 | 3.5 | 1.0 | 3 | |
| Nondurable goods | .7 | ~.1 | 1.1 | .9 | 2 | -1.1 | 1.2 | 1 | |
| Retail trade | 11.1 | | 10.9 | 15.6 | 17.5 | 5.9 | 14.3 | 42.9 | |
| Durable goods Motor vehicle dealers ³ | 5.3 | 13.3 | 7.7 | 16.0 | 9.4 | 4.0 | 11.7 | 28.1 | |
| Other 3 | 1.3 4.0 | 6.7 6.6 | 4.2 3.4 | 7.6 8.4 | 3.1 6.3 | 0 4.0 | 9.2 2.6 | 14.4 13.7 | |
| Other ³ Nondurable goods | 5.8 | 6.8 | 3.4 | 4 | 8.1 | 1.9 | 2.6 | 14.8 | |
| Other | 13.2 | 5.7 | 10.3 | 12.8 | 14.7 | i 1 | 0 | 4.0 | |
| Durable goods | 1.3 | 1 | 1.1 | 1.0 | 1.7 | -2.0 | -1.0 | 1.2 | |
| Nondurable goods | 12.0 | 5.7 | 9.2 | 11.8 | 13.0 | | 1.0 | 2.8 | |

Table 5.11.—Real Change in Private Inventories by Industry Group [Billions of chained (1996) dollars]

| | | | Sea | sonally | adjuste | ed at ar | nual ra | ites |
|-------------------------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|
| | 1998 | 1999 | 19 | 98 | | 199 | 99 | |
| | | | 111 | IV | 1 | II. | III | IV |
| Change in private inventories | 74.3 | 42.7 | 76.1 | 70.7 | 50.1 | 14.0 | 38.0 | 68.7 |
| Farm | .9 | 5 | -2.1 | 12.8 | 7.4 | .9 | -3.8 | -6.4 |
| Nonfarm | 73.2 | 42.8 | 77.5 | 58.2 | 43.1 | 13.1 | 41.2 | 74.0 |
| Manufacturing | 25.1 | .9 | 22.2 | 12.0 | 0 | -8.3 | 1.7 | 10.2 |
| Durable goods | 16.9 | .2 .7 | 13.4 | 6.8 | 1.8 | -6.6 | 1.8 | 3.8 |
| Nondurable goods | 8.1 | | 8.8 | 5.3 | | -1.7 | 0 | 6.3 |
| Wholesale trade | 23.4 | 15.6 | 33.8 18.6 | 17.2 15.5 | 9.5 11.8 | 11.1 11.0 | 25.1 11.1 | 16.7 19.3 |
| Durable goodsNondurable goods | 16.3 7.1 | 13.3 2.3 | 15.3 | 13.5 | | 11.0 | 14.0 | -2.3 |
| Merchant wholesalers | 20.4 | 14.2 | 30.4 | 14.6 | 8.2 | 8.6 | 22.8 | 17.2 |
| Durable goods | 14.2 | | 16.5 | 13.9 | | 7.3 | 10.0 | |
| Nondurable goods | 6.2 | 2.5 | 14.0 | .5 | -2.1 | 1.3 | 12.8 | -2.2 |
| Nonmerchant wholesalers | 3.0 | 1.4 | 3.4 | 2.6 | | 2.5 | 2.3 | 4 |
| Durable goods | 2.1 .9 | 1.5 1 | 2.1 1.3 | 1.6 1.0 | 1.6 | 3.7 -1.2 | 1.1 1.2 | 3 2 |
| Nondurable goods | | 1 | | | 3 | | | |
| Retail trade | 11.1 5.3 | 19.9 13.3 | 11.0 7.7 | 15.5 16.0 | 17.5 9.5 | 5.9 4.0 | 14.1 11.8 | 42.1 28.1 |
| Durable goods | 1.3 | 6.7 | 4.3 | 7.6 | 3.1 | 0 | 9.3 | 14.4 |
| Other 1 | 4.0 | 6.6 | 3.4 | 8.4 | 6.3 | 4.0 | 2.5 | 13.6 |
| Nondurable goods | 5.8 | 6.7 | 3.3 | 3 | 8.0 | 1.9 | 2.5 | 14.3 |
| Other | 13.9 | 6.0 | 10.8 | 13.6 | 15.7 | 4.1 | .1 | 3.9 |
| Durable goods | 1.2 | 0 | 1.1 | 1.0 | | -2.0 | -1.0 | 1.1 |
| Nondurable goods | 12.6 | 6.0 | 9.7 | 12.6 | 14.0 | 6.3 | 1.1 | 2.8 |
| Residual | .1 | .6 | .3 | − .5 | .2 | 1 | .5 | 2.0 |

^{1.} Inventories of auto and home supply stores are included in "other durable goods."

This series is derived from the Census Bureau series "current cost inventories."
 The inventory valuation adjustment (IVA) shown in this table differs from the IVA that adjusts business incomes. The IVA in this table reflects the mix of methods (such as first-in, first-out and last-in, first-out) underlying inventories derived primarily from Census Bureau statistics (see douthote 1). This mix differs from that underlying business income derived primarily from Internal Revenue Service statistics.
 Inventories of auto and home supply stores are included in "other durable goods."

NOTE.—Chained (1996) dollar series for real change in private inventories are calculated as the period-to-period change in chained-dollar end-of-period inventories. Quarterly changes in end-of-period inventories are stated at annual rates. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

Table 5.12.—Private Inventories and Domestic Final Sales of Business by **Industry Group**

| | Seasonally adjusted quarterly totals | | | | | | | | | | | |
|--|--------------------------------------|----------------|----------------|----------------|----------------|----------------|--|--|--|--|--|--|
| | 19 | 98 | | 19 | 99 | | | | | | | |
| | 111 | IV | ı | 11 | 111 | IV | | | | | | |
| Private inventories 1 | 1,326.6 | 1,334.5 | 1,345.7 | 1,360.1 | 1,386.1 | 1,411.4 | | | | | | |
| Farm | 92.3 | 92.4 | 99.3 | 98.9 | 96.7 | 95.9 | | | | | | |
| Nonfarm | 1,234.3 | 1,242.1 | 1,246.4 | 1,261.3 | 1,289.4 | 1,315.5 | | | | | | |
| Durable goodsNondurable goods | 689.1 545.2 | 694.0 548.1 | 692.8 553.5 | 697.8 563.5 | 707.9 581.4 | 724.2 591.3 | | | | | | |
| Manufacturing | 453.9 | 450.5 | 448.2 | 451.1 | 458.3 | 465.6 | | | | | | |
| Durable goods | 282.8 | 280.3 | 279.2 | 279.4 | | 285.6 | | | | | | |
| Nondurable goods | 171.0 | | | 171.6 | 175.8 | | | | | | | |
| Wholesale trade | 338.1 | 341.8 | | 345.1 | 355.6 | | | | | | | |
| Durable goods | 216.0 | 218.9 | 217.9 | 220.9 | 224.1 | 229.7 | | | | | | |
| Nondurable goods | 122.1 | 122.9 | 123.1 | 124.3 | 131.6 | | | | | | | |
| Merchant wholesalers | 293.0 | 296.6 | 295.4 | 298.2 | 307.0 | 313.0 | | | | | | |
| Durable goodsNondurable goods | 188.2 104.9 | | | 192.0 106.2 | 194.9 112.1 | 200.5 112.5 | | | | | | |
| Nonmerchant wholesalers | 45.0 | 45.3 | 45.5 | 46.9 | 48.6 | 49.1 | | | | | | |
| Durable goods | 27.9 | 28.1 | 27.9 | 28.8 | 29.2 | 29.2 | | | | | | |
| Nondurable goods | 17.2 | | 17.6 | | 19.5 | 19.9 | | | | | | |
| Retail trade | 339.4 | 344.0 | 347.3 | 351.1 | 358.1 | 369.4 | | | | | | |
| Durable goods | 182.3 | 186.6 | 187.1 | 189.2 | 193.5 | 200.6 | | | | | | |
| Motor vehicle dealers 2 | 93.6 | 95.8 | 95.3 | 95.8 | 99.6 | 103.2 | | | | | | |
| Other 2 | 88.6 | 90.9 | 91.8 | 93.4 | 93.8 | 97.5 | | | | | | |
| Nondurable goods | 157.1 | 1 | | 161.9 | | 168.8 | | | | | | |
| Other | 103.0 | | 109.9 | 113.9 | 117.3 | 118.4 | | | | | | |
| Durable goodsNondurable goods | 7.9 95.1 | 8.1 97.6 | 8.6 101.3 | 8.3 105.7 | 7.9 109.4 | 8.2 110.1 | | | | | | |
| Final sales of domestic business ³ | 613.2 | | 634.8 | 642.6 | 651.8 | 664.8 | | | | | | |
| Final sales of goods and structures of | 013.2 | 024.7 | 034.0 | 042.0 | 051.0 | 004.0 | | | | | | |
| domestic business 3 | 335.3 | 344.0 | 350.1 | 353.6 | 357.8 | 364.9 | | | | | | |
| Ratio of private inventories to final sales of domestic business | | | | | | | | | | | | |
| Private inventories to final sales | 2.16 | 2.14 | 2.12 | 2.12 | | 2.12 | | | | | | |
| Nonfarm inventories to final sales | 2.01 | 1.99 | 1.96 | 1.96 | 1.98 | 1.98 | | | | | | |
| Nonfarm inventories to final sales of goods and structures | 3.68 | 3.61 | 3.56 | 3.57 | 3.60 | 3.61 | | | | | | |

 ^{1.} Inventories are as of the end of the quarter. The quarter-to-quarter change in inventories calculated from current-dollar inventories in this table is not the current-dollar change in the private inventories component of GDP. The former is the difference between two inventory stocks, each valued at its respective end-of-quarter prices. The latter is the change in the physical volume of inventories valued at average prices of the quarter. In addition, changes calculated from this table are at quarterly rates, whereas, the change in private inventories is stated at annual rates.

2. Inventories of auto and home supply stores are included in "other durable goods."

3. Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and of general government, and it includes a small amount of final sales by farm and by government enterprises.

Table 5.13.—Real Private Inventories and Real Domestic Final Sales of **Business by Industry Group**

| | S | easonall | y adjust | ed quart | erly total | \$ |
|--|----------------|----------------|----------------|----------|----------------|----------------|
| | 19 | 98 | | 19 | 99 | |
| | 111 | IV | | 11 | III | IV |
| Private inventories 1 | 1,377.6 | 1,395.3 | 1,407.8 | 1,411.3 | 1,420.8 | 1,438.0 |
| Farm | 104.4 | 107.6 | 109.4 | 109.7 | 108.7 | 107.1 |
| Nonfarm | 1,272.9 | 1,287.4 | 1,298.2 | 1,301.4 | 1,311.7 | 1,330.2 |
| Durable goods | 706.3 | 716.2 | 722.5 | 724.1 | 730.0 | 743.3 |
| Nondurable goods | 566.6 | 571.2 | 575.7 | 577.3 | 581.7 | 587.1 |
| Manufacturing | 474.2 | 477.2 | 477.2 | 475.1 | 475.5 | 478.1 |
| Durable goods | 294.6 | | 296.7 | 295.1 | 295.5 | 296.4 |
| Nondurable goods | 179.6 | 180.9 | 180.5 | | | |
| Wholesale trade | 351.2 | | 357.8 | | | 371.1 |
| Durable goods | 220.7 130.4 | 224.6 | 227.6 130.2 | | 233.1 | 237.9 133.1 |
| Nondurable goods | | 130.8 | | | 133.7 | |
| Merchant wholesalers | 304.0 192.2 | 307.6 195.7 | 309.7 198.3 | | 317.5 202.6 | 321.9 207.5 |
| Durable goodsNondurable goods | 111.8 | 111.9 | 111.3 | | 114.9 | 114.3 |
| Nonmerchant wholesalers | 47.2 | 47.8 | 48.1 | 48.8 | | 49.2 |
| Durable goods | 28.5 | 28.9 | 29.3 | 30.2 | 30.5 | 30.4 |
| Nondurable goods | 18.7 | 18.9 | 18.8 | 18.6 | 18.9 | 18.8 |
| Retail trade | 339.0 | 342.9 | 347.2 | 348.7 | 352.2 | 362.8 |
| Durable goods | 183.3 | 187.3 | 189.7 | | | 200.6 |
| Motor vehicle dealers 2 | 95.1 | 97.0 | 97.8 | | | 103.7 |
| Other ² | 88.2 | 90.3 | | | | 96.9 |
| Nondurable goods | 155.6 | | | | | |
| Other | 108.9 | | | | | |
| Durable goods | 7.8 101.0 | 8.1 104.2 | 8.5 107.7 | | | |
| Nondurable goods | | | | 1 | | |
| Residual | .1 | .1 | 1 | 1 | .3 | |
| Final sales of domestic business 3 | 597.0 | 607.4 | 615.0 | 620.7 | 628.3 | 637.8 |
| Final sales of goods and structures of domestic business 3 | 332.5 | 341.4 | 346.7 | 349.3 | 353.3 | 359.4 |
| Ratio of private inventories to final sales of | - WE.S | 341.4 | 340.1 | 343.0 | 333.5 | 333.4 |
| domestic business | ļ | l | | l | ł | l |
| Private inventories to final sales | 2.31 | 2.30 | 2.29 | 2.27 | 2.26 | 2.25 |
| Nonfarm inventories to final sales | 2.13 | | 2.11 | 2.10 | 2.09 | 2.09 |
| Nonfarm inventories to final sales of goods and | | | | | | |
| structures | 3.83 | 3.77 | 3.74 | 3.73 | 3.71 | 3.70 |

Inventories are as of the end of the quarter. The quarter-to-quarter changes calculated from this table are at quarterly rates, whereas, the change in private inventories component of GDP is stated at annual rates.
 Inventories of auto and home supply stores are included in "other durable goods."
 Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and of general government, and it includes a small amount of final sales by farm and by government enterprises.

Sales by farm and by government enterprises. NOTE—Chairned (1996) dollar inventory series are calculated to ensure that the chained (1996) dollar change in inventories for 1996 end that the average of the 1995 and 1996 end-of-year chain-weighted and fixed-weighted inventories are equal. Chained (1996) dollar final sales are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines for inventories.

6. Income and Employment by Industry____

Table 6.1C.—National Income Without Capital Consumption Adjustment by Industry Group

[Billions of dollars]

| | - | | | | | | | |
|--|---------------------------|--------|------------------|----------|----------------|-------------------------|------------------|---------|
| | | | s | easonall | y adjuste | ed at an | nual rate | s |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | 1/ | ı | 1) | 111 | IV |
| National income without capital consumption adjustment | 7,004.4 | | 7,054.5 | 7,159.6 | 7,297.4 | 7,383.3 | 7,488.9 | |
| Domestic industries | 7,014.3 | | 7,080.1 | 7,176.7 | 7,311.9 | 7,397.6 | 7,504.4 | |
| Private industries | 6,104.4 | | 6,165.5 | 6,253.4 | 6,373.9 | 6,453.1 | 6,549.4 | |
| Agriculture, forestry, and fishing Mining Construction | 102.5 54.7 342.0 | | | | 49.9 | 116.8 49.2 371.0 | 51.4 | ••••••• |
| Manufacturing Durable goods Nondurable goods | 1,155.9 689.0 466.9 | | 694.1 | 703.2 | | 706.5 | 711.7 | |
| Transportation and public utilities | 222.3 166.9 | | 224.5 169.0 | 227.5 | 228.8 174.7 | 543.9 229.0 176.0 | 234.5 181.0 | |
| Wholesale trade | 1,274.3 | •••••• | 584.9 1,288.1 | 1,311.0 | | 1,361.5 | 618.8 1,392.0 | |
| Government | 909.9 | | | | | 1 - | | |
| Rest of the world | -9 .9 | | -25.6 | -17.1 | -14.4 | 14.3 | -15.5 | |

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table 6.16C.—Corporate Profits by Industry Group
[Billions of dollars]

| | | | Sea | sonally | adjuste | ed at a | nnual r | ates |
|---|--|------------|--|---|---|--|---|---------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | = | I۷ | _ | = | = | IV |
| Corporate profits with inventory valuation and capital consumption adjustments | 846.1 | ., | 843.8 | 834.3 | 882.0 | 875.5 | 879.2 | |
| Domestic industries | 746.0 | l | 757.2 | 736.0 | 777.7 | 772.1 | 771.1 | [|
| FinancialNonfinancial | 171.0 575.0 | | 168.7 588.5 | 168.0 568.0 | | 177.4 594.7 | | |
| Rest of the world | 100.0 | | 86.6 | 98.3 | 104.3 | 103.3 | 108.1 | |
| Receipts from the rest of the world Less: Payments to the rest of the world | 148.4 48.4 | | 137.1 50.5 | 146.8 48.5 | | 164.1 60.8 | | |
| Corporate profits with inventory valuation adjustment | 802.8 | | 799.9 | 787.4 | 831.4 | 822.2 | 827.1 | |
| Pomestic industries Financial Federal Reserve banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products | 702.8 191.3 24.6 166.7 511.5 168.4 95.1 5.4 17.3 | | 713.2 189.5 24.7 164.8 523.7 171.9 97.2 5.0 19.9 | 500.6 161.7 | 24.3 180.9 521.9 171.0 | 718.9 198.3 24.5 173.7 520.6 167.8 100.7 1.2 19.0 | 203.9 25.5 178.4 515.1 163.1 | |
| Industrial machinery and equipment Electronic and other electric | 14.6 | ********** | 15.7 | 19.4 | 16.6 | 18.6 | 17.1 | |
| equipment Motor vehicles and equipment Other Nondurable goods Food and kindred products Chemicals and allied products Petroleum and coal products Other Transportation and public utilities Transportation Communications Electric, gas, and sanitary services Wholesale trade Retail trade Other | 17.0 20.6 8.3 27.3 109.0 19.4 49.3 40.2 | | 16.9 6.6 33.1 74.7 21.3 19.0 6.8 27.5 113.0 20.1 51.2 41.7 49.7 69.3 119.9 | 21.4 9.8 33.7 55.5 7.1 20.0 4.1 24.2 106.9 19.7 46.8 40.5 41.2 69.0 121.7 | 20.5 10.7 31.6 70.5 17.2 25.1 9 29.0 111.9 18.3 43.4 75.7 119.8 | 19.6 10.4 32.0 67.0 18.6 20.8 3 28.0 107.9 17.2 52.5 38.2 44.3 75.4 | 9.5 27.2 68.7 18.7 17.4 3.6 29.0 117.3 17.7 56.4 43.2 | |
| Rest of the world | 100.0 | •••••• | 86.6 | 98.3 | 104.3 | 103.3 | 108.1 | |

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification.

7. Quantity and Price Indexes.

Table 7.1.—Quantity and Price Indexes for Gross Domestic Product [Index numbers, 1996=100]

| | | | | | | | | ex mumbe | rs, 1990=100j T | | | | | | | | |
|--|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|---|------------------------------------|--|------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| | | | | Se | easonally | adjuste | d | | | | | | Se | easonally | adjuste | d | |
| | 1998 | 1999 | 19 | 98 | _ | 19 | 99 | | | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | ' | 1 | 111 | IV | | ii. | 111 | IV | | | | III | IV | ı | 11 | 10 | IV |
| Gross domestic product: Current dollars | 109.00 102.86 | 113.49 104.31 | 109.25 103.06 | 114.52 110.83 103.28 103.33 | 111.84 103.79 | 112.36 104.13 | 113.92 | 115.84 104.93 | Exports of goods and services: Current dollars | 110.54 115.21 95.95 95.95 | 114.10 119.39 95.56 95.57 | 108.57 113.60 95.57 95.57 | 112.32 117.92 95.25 95.25 | 110.61 116.27 95.13 95.13 | 111.90 117.41 95.30 95.30 | 120.66 95.61 | 118.54 123.20 96.21 96.21 |
| Personal consumption expenditures: Current dollars Chain-type quantity index Implicit price deflator | 108.80 102.63 | 114.58 104.27 | 109.42 102.78 | 114.06 110.66 103.08 103.07 | 112.43 103.44 | 113.83 104.01 | 115.19 104.49 | 122.85 116.86 105.13 105.13 | Exports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 110.17 116.89 94.25 94.25 | 113.00 121.54 92.96 92.97 | 107.89 115.14 93.70 93.70 | 112.11 120.35 93.15 | 109.04 117.46 92.83 | 110.04 118.71 92.69 92.69 | 114.61 123.43 92.85 | 118.29 126.56 93.47 93.47 |
| Durable goods: Current follars Chain-type quantity index Chain-type price index Implicit price deflator | 113.26 118.66 95.45 95.45 | 132.31 93.00 | 118.62 95.29 | 117.25 124.26 94.34 94.36 | 119.88 127.95 93.67 93.69 | 121.92 130.76 93.22 93.24 | | 137.33 | Exports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 111.19 100.24 | 116.78 114.34 102.13 102.13 | 109.93 100.27 | 112.22 100.55 | 114.41 113.35 100.94 100.94 | 114.24 101.88 | 114.26 | 115.51 103.13 |
| Nondurable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Services: | 107.07 101.40 | 117.07 112.82 103.76 103.77 | 109.05 107.49 101.46 101.45 | 108.80 101.78 | 102.19 | 112.05 103.47 | 113.04 104.20 | 120.98 115.03 105.18 105.17 | Imports of goods and services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 115.86 126.89 91.31 91.31 | 130.09 141.88 91.63 91.69 | 115.75 127.81 90.55 90.56 | 131.14 | 121.32 135.07 89.81 89.82 | 127.09 139.69 90.96 90.98 | 92.35 | 138.36 148.13 93.39 93.41 |
| Current dollars | 107.80 104.78 | 112.16 | 114.08 108.62 105.04 105.03 | 109.03 105.60 | 116.97 110.16 106.19 106.18 | 111.56 106.63 | 112.92 107.19 | 123.00 113.98 107.92 107.92 | Imports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 115.10 127.62 90.19 90.19 | 143.78 90.16 | 114.70 128.40 89.30 89.33 | | 120.53 136.33 88.38 88.41 | 126.47 141.34 89.46 89.48 | 90.75 | 138.46 150.38 92.04 92.07 |
| Investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 123.22 124.52 98.96 98.95 | 131.79 98.80 | 123.55 124.82 98.89 98.98 | 127.17 128.26 98.85 99.14 | 98.87 | 127.58 128.74 98.78 99.10 | | 98.86 | Imports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 119.86 123.21 97.29 97.29 | 131.90 132.56 99.49 99.50 | 121.24 124.75 97.21 97.19 | 98.26 | 125.48 128.81 97.43 97.41 | 130.28 131.58 99.03 99.02 | 132.74 100.95 | 137.87 137.13 100.55 100.53 |
| Fixed investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 120.40 121.37 99.20 99.20 | 131.11 99.23 | | 124.43 125.55 99.11 99.11 | 99.19 | 129.28 130.37 99.17 99.17 | 131.46 132.54 99.19 99.19 | 133.24 99.38 | Government consumption expenditures and gross investment: Current dollars | 104.10 | 107.98 | 104.46 | 109.34 105.20 | 106.52 | 106.86 | 108.06 | 110.47 |
| Nonresidential: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 121.33 124.80 97.22 97.22 | 135.14 95.97 | 120.87 124.56 97.03 97.04 | 96.60 | 96.38 | 128.46 133.74 96.04 96.05 | 131.37 137.23 95.72 95.73 | 132.22 138.09 95.74 95.75 | Chain-type price index Implicit price deflator Federal: Current dollars | 103.34 103.34 101.33 | 107.32 | 103.59 | 103.94 103.94 102.84 | | 105.64 | 106.55 | 107.40 |
| Structures: Current dollars | 121.25 | 121.21 | 120.78 | 123.56 | 122.12 | 121.12 | 120.94 | 120.67 | Chain-type quantity index Chain-type price index Implicit price deflator | 98.97 102.38 102.39 | 101.73 105.49 105.49 | 99.14 102.41 102.41 | 100.08 102.76 102.75 | 99.97 104.89 104.89 | 105.13 | 101.52 105.60 105.59 | 106.33 |
| Chain-type quantity index Chain-type price index Implicit price deflator | 112.93 107.37 107.37 | 109.99 110.22 110.21 | 112.05 107.79 107.79 | 113.64 108.73 108.73 | 111.96 109.07 109.07 | 110.44 109.67 109.67 | 109.37 110.58 110.58 | 108.17 111.56 111.56 | National defense: Current dollarsChain-type quantity index Chain-type price index | 95.71 102.03 | | 97.33 102.07 | | 99.66 95.64 104.21 | 99.25 95.01 104.47 | 97.56 104.93 | 101.41 105.60 |
| Equipment and software: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 121.36 129.09 94.01 94.01 | | 129.09 93.64 | 134.70 92.81 | 138.74 92.44 | 130.90 142.47 91.86 91.88 | 147.77 91.24 | 91.02 | Implicit price deflator Nondefense: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 108.87 | 104.81 118.03 110.54 106.77 106.77 | 102.85 103.05 | 110.99 107.16 | 115.48 108.77 106.18 | 118.72 111.62 106.37 | 109.59 106.85 | 120.82 112.19 107.69 |
| Residential: Current dollarsChain-type quantity index Chain-type price index Implicit price deflator | 117.71 111.78 105.30 | 131.28 120.00 | 119.55 113.07 105.76 | 123.71 115.74 | 128.76 119.30 107.97 | 131.66 120.91 108.93 | 131.73 119.75 110.04 | 132.99 120.06 110.81 | State and local: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 111.31 107.14 103.89 | 118.97 111.68 106.53 | 112.20 107.61 104.27 | 113.22 108.23 104.62 104.61 | 115.88 110.39 104.98 | 117.29 110.64 106.02 | 119.88 111.93 107.11 107.10 | 122.84 113.74 108.01 |

NOTE.—Chain-type quantity and price indexes are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. Implicit price deflators are weighted averages of the detailed price indexes used to prepare each aggregate and component and are calculated as the ratio of current- to chained-

dollar output multiplied by 100.

Percent changes from preceding period for items in this table are shown in table 8.1. Contributions to the percent change in real gross domestic product are shown in table 8.2.

Table 7.2.—Quantity and Price Indexes for Gross Domestic Product, Final Sales, and Purchases

[Index numbers, 1996=100]

| | | | L | S | easonall | y adjuste | ed | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | Ш | IV | ı | II. | 111 | IV |
| Gross domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 112.12 109.00 102.86 102.86 | 113.49 | 109.25 103.06 | 110.83 103.28 | 111.84 | 112.36 104.13 | 119.00 113.92 104.41 104.46 | 121.61 115.84 104.93 104.98 |
| Final sales of domestic product: Current dollars | 111.63 108.46 102.93 102.93 | 113.31 | 108.69 103.13 | 110.34 103.36 | 103.88 | 112.52 104.24 | 118.94 113.78 104.54 104.53 | 121.17 115.33 105.07 105.06 |
| Gross domestic purchases: Current dollars Chain-type quantity index Implicit price deflator | 112.75 110.39 102.14 102.14 | 116.05 103.65 | 110.91 | | 113.99 102.92 | 114.88 103.40 | | |
| Final sales to domestic purchasers: Current dollars | 112.27 109.86 102.20 102.20 | 120.23 115.88 103.76 103.76 | 112.93 110.36 102.33 102.33 | | 117.16 113.75 103.00 103.00 | | 116.52 103.96 | 123.56 118.18 104.56 104.56 |
| Addenda: Final sales of computers ¹: Current follars | 117.75 223.72 52.63 52.63 | 125.03 321.94 38.34 38.84 | 119.86 239.90 49.13 49.96 | | | | | 127.83 353.98 35.48 36.11 |
| Current dollars | 112.06 108.17 103.60 103.60 | 112.23 | 112.53 108.33 103.86 103.88 | 114.47 109.80 104.20 104.25 | 116.10 110.73 104.81 104.85 | 116.99 111.15 105.21 105.26 | 118.88 112.58 105.55 105.60 | 114.46 |
| computers: Current dollars | 112.61 109.35 102.98 102.98 | 120.13 114.41 104.94 105.00 | 113.28 109.79 103.18 103.19 | 115.11 111.11 103.56 103.60 | 117.20 112.56 104.08 104.12 | 113.29 | 120.92 114.90 105.19 105.24 | 123.78 116.87 105.86 105.91 |
| gross domestic purchases: Food | 103.71 92.35 102.40 | 105.73 95.85 103.78 | 91.46 | 104.55 89.82 102.84 | 105.11 89.11 103.28 | 105.37 94.67 103.58 | 105.92 98.32 103.88 | 106.51 101.30 104.37 |

^{1.} For some components of final sales of computers, includes computer parts.

Table 7.3.—Quantity and Price Indexes for Gross National Product and Command-Basis Gross National Product

[Index numbers, 1996=100]

| Gross national product: Current dollars Chain-type price index Implicit price deflator | | 108.68 | 110.35 103.29 | | 111.91 104.14 | 113.46 104.41 | |
|---|--------|------------|------------------|--------|------------------|------------------|--|
| Less: Exports of goods and services and income receipts from the rest of the world: Chain-type quantity index | 114.86 | 112.79 | 116.46 | 115.39 | 117.27 | 120.70 | |
| Plus: Command-basis exports of goods and services and income receipts from the rest of the world: Chain-type quantity index | 119.68 | 117.92 | 121.53 | 121.01 | 121.93 | 124.29 | |
| Equals: Command-basis gross national product: Chain-type quantity index | 109.31 | 109.41 | 111.08 | 112.20 | 112.58 | 113.98 | |

 $\label{thm:note-percent} \mbox{Note.-Percent changes from preceding period for selected items in this table are shown in table 8.1.}$

Table 7.4.—Chain-Type Quantity and Price Indexes for Personal Consumption Expenditures by Major Type of Product

[Index numbers, 1996=100]

| | [IIIGEX | number | 5, 1330- | -1001 | | | | | | | | | |
|--|--|--|--|---|---|---|--|--|--|--|--|--|--|
| | 1998 1999 1998 1999 | | | | | | | | | | | | |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | | | | |
| | | | 111 | IV | 1 | ll . | 111 | IV | | | | | |
| | | | Chair | -type qu | antity in | dexes | | | | | | | |
| Personal consumption expenditures | 108.80 | 114.58 | 109.42 | 110.66 | 112.43 | 113.83 | 115.19 | 116.86 | | | | | |
| Durable goods | 118.66 | 132.31 | 118.62 | 124.26 | 127.95 | 130.76 | 133.21 | 137.33 | | | | | |
| Motor vehicles and parts Furniture and household | 113.87 | 124.16 | 111.87 | 119.94 | | 123.77 | 124.68 | 127.11 | | | | | |
| equipment Other | 125.55 115.78 | 144.32 127.59 | 127.38 116.54 | | | 141.65 125.44 | 146.06 127.87 | 151.66 133.07 | | | | | |
| Nondurable goods | 107.07 | 112.82 | 107.49 | 108.80 | 111.15 | 112.05 | 113.04 | 115.03 | | | | | |
| Food | 104.40 113.00 | 108.38 122.90 | 104.71 113.01 | 106.29 114.33 | 106.82 121.72 | 107.46 122.52 | 108.15 124.38 | 111.11 122.97 | | | | | |
| energy goods | 101.70 102.83 92.82 110.47 | 103.09 103.11 102.81 118.56 | 102.44 103.48 94.28 111.31 | 101.57 102.87 91.44 112.72 | 102.28 102.34 101.69 116.12 | 102.98 102.67 105.38 117.65 | 103.43 103.25 104.76 118.90 | 103.69 104.17 99.43 121.57 | | | | | |
| Services | 107.80 | 112.16 | 108.62 | 109.03 | 110.16 | 111.56 | 112.92 | 113.98 | | | | | |
| Housing | 104.28 108.53 100.69 113.87 109.34 104.91 109.27 113.54 | 106.92 113.36 102.80 120.48 112.51 107.68 119.44 120.12 | 104.59 111.48 106.12 115.19 109.54 105.15 110.05 114.87 | 105.10 108.88 97.61 116.46 110.23 105.86 111.36 | | 112.00 107.06 117.77 | 107.25 114.85 105.17 121.39 113.16 108.16 121.63 121.04 | 107.97 113.90 101.46 122.28 113.86 109.21 124.08 123.01 | | | | | |
| Addenda: Energy goods and services ¹ Personal consumption | 101.23 | | 104.35 | 99.57 | | | 104.30 | 102.69 | | | | | |
| expenditures less food and energy | 110.11 | 116.46 | 110.64 | 112.16 | 114.12 | 115.70 | 117.20 | 118.81 | | | | | |
| | | | Cha | in-type p | rice inde | exes | | | | | | | |
| Personal consumption expenditures | 102.63 | 104.27 | 102.78 | 103.08 | 103.44 | 104.01 | 104.49 | 105.13 | | | | | |
| Durable goods | 95.45 | 93.00 | 95.29 | 94.34 | 93.67 | 93.22 | 92.75 | 92.35 | | | | | |
| Motor vehicles and parts Furniture and household | 99.10 | 99.31 | 99.60 | 99.03 | 98.86 | 98.93 | 99.54 | 99.93 | | | | | |
| equipment Other | 90.35 98.27 | 84.96 96.68 | 89.61 97.97 | 88.01 97.66 | 86.84 97.02 | 85.56 97.31 | 84.33 96.29 | 83.10 96.11 | | | | | |
| Nondurable goods | 101.40 | 103.76 | 101.46 | 101.78 | 102.19 | 103.47 | 104.20 | 105.18 | | | | | |
| Food Clothing and shoes Gasoline, fuel oil, and other | 104.01 98.00 | 106.14 96.38 | 104.21 98.07 | 104.83 97.83 | 105.47 95.89 | 105.79 96.82 | 106.35 95.79 | 106.95 97.02 | | | | | |
| energy goods | 88.80 88.46 91.65 102.85 | 95.99 96.40 92.94 106.89 | 87.44 87.03 90.99 103.11 | 85.19 84.82 88.34 104.07 | 84.06 83.79 86.26 106.17 | 94.71 95.44 89.13 106.52 | 100.08 100.84 94.22 107.31 | 105.11 105.52 102.16 107.55 | | | | | |
| Services | 104.78 | 106.98 | 105.04 | 105.60 | 106.19 | 106.63 | 107.19 | 107.92 | | | | | |
| Housing Household operation Electricity and gas Other household operation Transportation Medical care Recreation Other | 106.24 100.74 98.83 101.90 104.71 104.67 105.87 104.88 | 109.26 100.72 98.46 102.12 105.81 107.34 107.96 107.07 | 106.66 100.66 98.49 101.99 104.94 104.98 106.06 105.08 | 107.68 100.55 97.78 102.24 104.91 105.61 106.28 105.69 | 108.22 100.61 97.85 102.30 105.27 106.58 106.74 106.23 | 109.02 100.42 97.87 101.99 105.88 107.00 107.12 106.58 | 109.56 100.67 98.82 101.82 105.84 107.64 108.49 107.20 | 110.25 101.20 99.29 102.39 106.25 108.14 109.47 108.27 | | | | | |
| Addenda: Energy goods and services ¹ Personal consumption | 93.57 | 97.13 | 92.71 | 91.19 | 90.63 | 96.19 | 99.43 | 102.28 | | | | | |
| expenditures less food and energy | 102.93 | 104.37 | 103.13 | 103.47 | | 104.17 | 104.47 | 105.01 | | | | | |

^{1.} Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

 $[\]label{thm:continuous} \mbox{Note.-Percent changes from preceding period for selected items in this table are shown in table 8.1.}$

Table 7.6.—Chain-Type Quantity and Price Indexes for Private Fixed Investment by Type

[Index numbers, 1996=100]

| | [| | | Se | easonally | adjuste | d d | |
|---|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|---------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 181 | ١٧ | 1 | И | ill | IV |
| | | | Chain | -type qu | antity in | dexes | | |
| Private fixed investment | 121.37 | 131.11 | 121.55 | 125.55 | 128.30 | 130.37 | 132.54 | 133.24 |
| Nonresidential | 124.80 | 135.14 | 124.56 | 129.06 | 131.49 | 133.74 | | 138.09 |
| Structures | 112.93 | 109.99 | 112.05 | 113.64 | 111.96 | | 109.37 | 108.17 |
| Nonresidential buildings, including farm | 114.18 | 111.58 | 113.94 | | 115.42 | 112.07 | 109.64 | 109.18 |
| Utilities | 120.22 | 105.47 | 105.09 | | 105.81 | 105.42 106.95 | 106.80 | 103.87 |
| and wells Other structures | 100.28 | 109.02 103.71 | 114.94 95.89 | 111.86 100.09 | 96.84 | 115.18 | | 100.70 |
| Equipment and software Information processing | 129.09 | 144.61 | 129.09 | 134.70 | 138.74 | 142.47 | 147.77 | 149.46 |
| equipment and software Computers and | 145.69 | 177.18 | 148.79 | 156.14 | 163.75 | 174.39 | 183.12 | 187.45 |
| peripheral equipment ¹ Software ² | 217.67 135.81 | 311.14 156.66 | 226.43 138.65 | 251.60 144.82 | | 300.52 154.54 | 329.49 159.80 | 341.55 163.43 |
| Other | 121.33 | 139.88 | 122.28 | 124.40 | 130.09 | 138.89 | 144.05 | 146.49 |
| Industrial equipment Transportation equipment | 108.56 126.19 | 109.25 141.63 | 108.99 118.22 | 109.09 133.75 | 106.30 137.34 | | 109.95 146.87 | 113.34 144.42 |
| Other | 118.33 | | 120.78 | | | | | |
| Residential | 111.78 | 120.00 | 113.07 | 115.74 | 119.30 | 120.91 | 119.75 | 120.06 |
| Single family | 111.84 113.32 | 1 20.03 122.42 | 113.14 115.64 | 115.84 118.98 | 119.38 123.05 | 120.96 123.02 | 119.74 120.48 | 1 20.0 4 123.14 |
| Multifamily | 107.06 | 113.09 | 104.36 | 103.85 | | 112.78 | 112.55 | 112.32 |
| Other structures | 110.80 | 118.18 | 111.50 | 113.93 | 115.49 | 119.77 | 120.05 | 117.42 |
| Equipment | 109.41 | 119.02 | 109.96 | 111.47 | 115.80 | 118.66 | 120.45 | 121.18 |
| | | | Cha | in-type p | rice inde | exes | | |
| Private fixed investment | 99.20 | 99.23 | 99.16 | 99.11 | 99.19 | 99.17 | 99.19 | 99.38 |
| Nonresidential | 97.22 | 95.97 | 97.03 | 96.60 | 96.38 | 96.04 | 95.72 | 95.74 |
| Structures | 107.37 | 110.22 | 107.79 | 108.73 | 109.07 | 109.67 | 110.58 | 111.56 |
| Nonresidential buildings, including farm | 106.72 | 110.87 | 107.23 | 108.50 | 109.35 | 110.29 | 111.43 | 112.41 |
| Utilities | 103.31 | 103.38 | 103.49 | 103.52 | 102.85 | 102.89 | | 104.25 |
| Mining exploration, shafts, and wells Other structures | 118.51 105.26 | 115.83 106.97 | 118.70 105.54 | 118.75 105.81 | 116.65 106.01 | 115.19 106.89 | 114.93 107.32 | 116.54 107.66 |
| Equipment and software | 94.01 | 91.64 | 93.64 | 92.81 | 92.44 | 91.86 | 91.24 | 91.02 |
| Information processing equipment and software Computers and | 85.26 | 79.78 | 84.35 | 82.31 | 81.17 | 80.08 | 79.15 | 78.74 |
| peripheral equipment 1 | 57.38 | 44.04 | 54.92 | 50.22 | 47.23 | 44.82 | 42.73 | 41.36 |
| Software 2 Other | 95.54 98.50 | 96.06 97.54 | 95.63 98.31 | 95.20 98.10 | 95.64 97.94 | 95.66 97.71 | 95.92 97.43 | 97.04 97.10 |
| Industrial equipment | 101.37 | 102.04 | 101.48 | 101.73 | 101.94 | 101.87 | 102.00 | 102.34 |
| Transportation equipment Other | 100.38 102.42 | 100.74 103.59 | 100.41 102.64 | 100.65 103.25 | 101.20 103.66 | 101.05 103.80 | 100.43 103.55 | 100.28 103.36 |
| Residential | 105.30 | 109.44 | 105.76 | 106.93 | 107.97 | 108.93 | 110.04 | 110.81 |
| Structures | 105.45 | 109.72 | 105.91 | 107.12 | 108.20 | 109.20 | | 111.13 |
| Single family Multifamily | 105.06 112.40 | 109.77 120.66 | 105.45 113.61 | 106.79 117.59 | 108.19 118.92 | 109.15 119.98 | 110.44 121.40 | 111.27 122.32 |
| Other structures | 104.80 | | 105.21 | | | | 108.39 | 109.08 |
| | | | | | | | | |

Table 7.9.—Chain-Type Quantity and Price Indexes for Exports and Imports of Goods and Services and for Receipts and Payments of Income

[Index numbers, 1996=100]

| | | | / adjuste | d | | | | |
|---|--|--|--|--|--|--|--|--|
| | 1998 | 1999 | 19 | 98 | | 199 | 99 | |
| | | | M | IV | | = | 111 | IV |
| | | | Chain | type qu | antity in | dexes | | |
| Exports of goods and services Goods ¹ Durable Nondurable Services ¹ Income receipts | 115.21 116.89 121.78 106.40 111.19 113.69 | 108.85 | 113.60 115.14 120.35 103.92 109.93 110.06 | 117.92 120.35 125.52 109.25 112.22 111.58 | 116.27 117.46 122.89 105.78 113.35 | 117.41 118.71 123.99 107.39 114.24 116.72 | 120.66 123.43 130.01 109.25 114.26 120.75 | 123.20 126.56 132.85 112.98 115.51 |
| Imports of goods and services Goods 1 Durable Nondurable Services 1 Income payments | 126.89 127.62 131.30 120.56 123.21 127.28 | 141.88 143.78 150.74 130.38 132.56 | 127.81 128.40 131.40 122.71 124.75 130.05 | 131.14 132.33 137.58 122.15 125.24 128.07 | 135.07 136.33 141.30 126.71 128.81 127.79 | 139.69 141.34 147.66 129.07 131.58 132.36 | 132.27 | 148.13 150.38 159.24 133.48 137.13 |
| | | | Cha | in-type p | rice inde | exes | | |
| Exports of goods and services Goods ¹ Durable Nondurable Services ¹ | 95.95 94.25 94.88 92.71 100.24 | 95.56 92.96 93.70 91.16 102.13 | 95.57 93.70 94.46 91.85 100.27 | 95.25 93.15 94.14 90.72 100.55 | 95.13 92.83 93.91 90.16 100.94 | 92.69 93.68 90.26 | 93.42 91.47 | |
| Income receipts | 102.20 | | 102.26 | 102.49 | 102.80 | 103.31 | 103.77 | |
| Imports of goods and services Goods ¹ Durable Nondurable Services ¹ | 91.31 90.19 90.85 88.74 97.29 | 91.63 90.16 89.05 92.68 99.49 | 90.55 89.30 90.17 87.43 97.21 | 90.48 89.03 89.86 87.24 98.26 | 89.81 88.38 89.76 85.40 97.43 | | 92.35 90.75 88.73 95.29 100.95 | 93.39 92.04 88.64 99.74 100.55 |
| Income payments | 101.95 | | 102.08 | 102.25 | 102.58 | 103.09 | 103.64 | |

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

Table 7.10.—Chain-Type Quantity and Price Indexes for Exports and Imports of Goods and Services by Type of Product [Index numbers, 1996=100]

| | , | | | | | | fine | EX HUITIDE | ers, 1996=100] | | ı | | | | | | |
|---|--------------------|------------------|--------------------|--------------------------|------------------|------------------|--------------------|------------------|--|-----------------------|-----------------------|------------------|------------------|-----------------------|-----------------------|------------------------|------------------|
| | | 1 | | s | easonali | y adjuste | ed | | | | | | s | easonall | y adjuste | ed | |
| | 1998 | 1999 | | 98 | | | 99 | | | 1998 | 1999 | | 98 | | 1 | 99 | |
| | - | | | IV. | <u> </u> | -1 | | IV | | _ | <u> </u> | | IV | <u> </u> | l II | 111 | IV |
| | | | Chair | n-type qu | antity in | dexes | | | | L | | Cha | in-type p | orice inde | exes | r | |
| Exports of goods and services | 115.21 | 119.39 | 113.60 | 117.92 | 116.27 | 117.41 | 120.66 | 123.20 | Exports of goods and services | 95.95 | 95.56 | 95.57 | 95.25 | 95.13 | 95.30 | 95.61 | 96.21 |
| Exports of goods 1 | 116.89 | 121.54 | 115.14 | 120.35 | 117.46 | 118.71 | 123.43 | 126.56 | Exports of goods 1 | 94.25 | 92.96 | 93.70 | 93.15 | 92.83 | 92.69 | 92.85 | 93.47 |
| Foods, feeds, and beverages industrial supplies and | 99.28 | 102.10 | 92.48 | 104.05 | 95.32 | 100.96 | 106.40 | 105.71 | Foods, feeds, and beverages | 84.15 | 80.32 | 83.37 | 82.24 | 81.65 | 80.77 | 79.75 | 79.10 |
| materials | 107.43 | 108.43 | 105.65 | 108.00 | 104.28 | 106.44 | 108.23 | 114.77 | Industrial supplies and materials | 94.22 | 92.75 | 93.18 | 91.71 | 90.83 | 91.24 | 93.44 | 95.47 |
| Durable goods Nondurable goods | | | | | | | | 121.03 111.16 | Durable goods Nondurable goods | 95.02 93.75 | 92.55 92.91 | 94.44 92.43 | 93.34 90.75 | 92.48 89.85 | 92.12 90.75 | 92.38 94.13 | 93.19 96.92 |
| Capital goods, except | | | | | 1 | | ' | | I Capital goods, except | | | | | | | | |
| automotive Civilian aircraft, engines, | 1 | 134.88 | | 1 | 130.16 | | l | 140.64 | automotive | 92.50 | | 91.97 | 91.69 | | | | 90.94 |
| and parts Computers, peripherals, and | 165.96 | 161.89 | 174.48 | 196.09 | 172.66 | 148.09 | 163.46 | 163.37 | and parts Computers, peripherals, and | 104.79 | 107.07 | 104.66 | 105.40 | 106.49 | 106.87 | 107.05 | 107.89 |
| parts | | 155.48 | | | 143.22 | | | | parts | 75.58 | | 73.31 | 72.08 | 70.39 | 69.12 | 67.48 | 67.27 |
| OtherAutomotive vehicles, engines, | 119.03 | 125.77 | 117.22 | 118.78 | 119.41 | 121.66 | 129.76 | 132.23 | Other | 94.64 | 93.93 | 94.51 | 94.23 | 94.14 | 93.98 | 93.65 | 93.94 |
| and parts | 111.45 | 113.25 | 103.92 | 113.67 | 108.47 | 113.83 | 115.03 | 115.66 | and parts | 100.96 | 101.56 | 101.00 | 101.11 | 101.31 | 101.39 | 101.57 | 101.99 |
| Consumer goods, except automotive | 112.30 | 114.76 | 113.98 | 112.43 | 113.21 | 112.57 | 114.58 | 118.69 | Consumer goods, except automotive | | | | 100.53 | 100.34 | 100.34 | 100.39 | 100.66 |
| Durable goods Nondurable goods | 112.66 | 115.81 | 114.83 113.09 | 112.41 112.46 | 110.56 115.96 | 113.26 | 116.04 113.08 | 123.40 113.81 | Durable goods Nondurable goods | 100.69 | | | 100.39 100.69 | | | 100.21 100.57 | 100.26 101.08 |
| Other | | | | 134.10 | | | | | Other | 96.68 | 95.50 | | 95.63 | 95.55 | 95.02 | 95.22 | 96.21 |
| Exports of services 1 | 111.19 | 114.34 | 109.93 | 112.22 | 113.35 | 114.24 | 114.26 | 115.51 | Exports of services 1 | 100.24 | 102.13 | 100.27 | 100.55 | 100.94 | 101.88 | 102.56 | 103.13 |
| Transfers under U.S. military agency sales contracts | 117 26 | 109 66 | 109.26 | 110.28 | 113 27 | 109.96 | 113 35 | 102.05 | Transfers under U.S. military agency sales contracts | 95.37 | 100.33 | 94.94 | 93.74 | 100.12 | 99.70 | 100.03 | 101 47 |
| Travel | 99.46 | 101.50 | 95.52 | 99.62 | 101.32 | 101.21 | 100.54 | 102.95 | Travel | 102.71 | 103.81 | 102.96 | 103.26 | 102.66 | 104.11 | 104.15 | 104.31 |
| Passenger fares Other transportation | 102.61 101.08 | 100.18 106.63 | 105.40 100.22 | 96.03 104.98 | 96.73 106.14 | 101.54 106.11 | 100.83 106.32 | 101.60 107.96 | Passenger fares Other transportation | 95.46 96.83 | 102.88 97.90 | | 98.82 96.07 | 101.18 93.96 | | 103.62 99.63 | 105.58 100.94 |
| Royalties and license fees | 110.75 | 111.34 | 108.62 | 118.76 | 111.73 | 111.88 | 110.82 | 107.96 110.93 | Royalties and license fees | 102.35 | 103.71 | 102.41 | 102.63 | 102.95 | 103.46 | 103.92 | 104.51 |
| Other private services Other | | 134.15 119.66 | | 127.16 118.06 | | 133.49 120.03 | | 137.58 120.10 | Other private servicesOther | 100.84 99.16 | | 100.85 100.20 | 100.96 99.49 | 101.41 99.82 | 102.00 100.60 | | 102.14 103.68 |
| imports of goods and | | | | | | 400.00 | | | Imports of goods and | | | | | | | | |
| Services Imports of goods 1 | 126.89 | 141.88 143.78 | 127.81 | 131.14 132.33 | 135.07 136.33 | 139.69 141.34 | 144.63 147.08 | 148.13 150.38 | services Imports of goods 1 | 91.31 90.19 | 91.63 90.16 | 90.55 89.30 | 90.48 89.03 | 89.81 88.38 | 90.96 89.46 | 92.35 90.75 | 93.39 92.04 |
| Foods, feeds, and beverages | | 129.22 | | 119.84 | | | | 133.21 | Foods, feeds, and beverages | 97.73 | 94.53 | 96.73 | 97.12 | 95.37 | 95.05 | | 94.12 |
| Industrial supplies and | | | | | | .20.00 | 102,120 | | Industrial supplies and | | 0 1.00 | | • | 00.07 | 30.00 | 00.00 | 01.12 |
| materials, except petroleum and products | | | | 120.69 | | | | | materials, except petroleum and products | 94.96 | 94.44 | 94.09 | 92.83 | 92.62 | 93.07 | 95.33 | 96.75 |
| Durable goods | 123.87 | 128.77 | 127.01 | 126.06 114.99 | 124.75 | 127.82 | 128.66 | 133.87 | Durable goods Nondurable goods | 97.00 92.88 | 97.17 91.60 | 96.26 91.87 | 94.37 91.31 | 95.19 89.96 | 96.35 89.63 | 98.56 91.95 | 98.57 94.85 |
| Petroleum and products | 111.97 | 111.84 | 116.69 | 108.87 | 110.75 | 117.22 | 113.66 | 105.73 | Petroleum and products | 62.50 | 83.41 | 58.70 | 57.85 | 52.60 | 74.68 | 94.71 | 111.66 |
| Capital goods, except automotive | 143.96 | 166.04 | 144.82 | 148.92 | 152.37 | 162.45 | 171.02 | 178.34 | Capital goods, except automotive | 82.10 | 78.43 | 81.17 | 80.71 | 80.29 | 78.73 | 77.47 | 77.22 |
| Civilian aircraft, engines, | | 1 | | 179.71 | | 166 00 | 102 16 | 17/1 3/ | Civilian aircraft, engines, | 1 1 | | | 1 | | | | |
| and parts Computers, peripherals, and | | ľ | | | | | | | and parts Computers, peripherals, and | 105.56 | | 105.30 | | 107.27 | 107.37 | 107.50 | 107.97 |
| parts Other | | | | 179.65 134.69 | | 212.57 144.91 | | 226.53 161.92 | parts Other | 71.55 84.81 | 62.12 83.69 | 70.25 83.98 | 67.47 84.55 | 65.78 84.69 | | 60.20 83.22 | 59.86 82.95 |
| Automotive vehicles, engines, and parts | | | | 124.62 | | | | | Automotive vehicles, engines, and parts | | 101.02 | | 100.34 | | | | |
| Consumer goods, except | 1 | | | | | | | | Consumer goods, except | | | | | | | | |
| automotive Durable goods | 129.16 129.55 | | 131.06 131.19 | 132.07 133.96 | 136.97 135.34 | 139.94 142.91 | | 152.97 154.93 | automotive Durable goods | 97.47 95.23 | 96.78 94.08 | 97.09 94.61 | 97.26 94.74 | 97.24 94.65 | 96.68 94.03 | 96.57 93.84 | 96.61 93.80 |
| Nondurable goods | 128.79 | 142.22 | 130.95 | 130.13 | 138.71 | 136.86 | 142.34 | 150.95 | Nondurable goods | 99.92 | 99.73 | 99.81 | 100.03 | 100.08 | 99.58 | 99.57 | 99.70 |
| Other Imports of services 1 | 132.40 123.21 | 1 | | 149.25 1 25.24 | | 158.20 131.58 | | 164.88 137.13 | Imports of services 1 | 99.93 97.29 | 99.26 99.49 | 100.41 97.21 | 100.67 98.26 | 99.42 97.43 | 98.99 99.03 | 99.19 100.95 | 99.44 100.55 |
| Direct defense expenditures | 130.92 | 149.84 | 132.50 | 131.12 | 139.93 | 146.68 | | | Direct defense expenditures | 88.93 | 90.58 | 89.69 | 94.25 | 90.83 | 89.04 | 90.81 | 91.66 |
| Travel | 122.14 | 131.92 | 123.56 | 121.19 | 129.99 | 131.42 | 130.56 | 135.71 | Travel | 95.60 | 95.99 | 94.80 | 97.08 | 95.09 | 94.99 | 97.09 | 96.81 |
| Passenger fares Other transportation | 116.70 115.73 | 116.79 | 116.09 | 120.37 117.80 | 116.61 | 122.05 115.04 | 117.08 | | Passenger fares Other transportation | 107.24 96.04 | 110.05 107.28 | 107.62 96.83 | 107.67 97.28 | 107.93 96.73 | 110.15 105.21 | 112.33 112.60 | 109.79 114.60 |
| Royalties and license fees Other private services | 140.80 129.29 | 154.28 | 135.62 | 145.36 134.19 | 157.46 | 159.94 | 145.68 | 154.03 | Royalties and license fees | 102.33 | 103.69 | 102.39 | 102.62 | 102.93 | 103.45 | 103.90 | 104.49 |
| OtherOther services | | | | 111.88 | | | | | Other private services Other | 97.09 100.40 | 96.28 102.01 | 96.79 100.72 | 96.33 101.75 | 96.82 100.81 | 97.45 101.67 | 96.31 102.80 | 94.55 102.77 |
| Addenda: | | | | | | | | | Addenda: | | | | | | | | |
| Exports of agricultural goods 2 | 101.87 | 102.88 | 95.45 | 107.80 | 95.70 | 101.92 | 108.29 | 105.63 | Exports of agricultural goods 2 | 84.79 | 78.58 | 83.82 | 81.98 | 80.42 | 78.24 | 77.72 | 77.92 |
| Exports of nonagricultural | | | | | ł | ľ | | 1 | Exports of nonagricultural | | - 1 | i | - 1 | - 1 | - 1 | - 1 | |
| goods Imports of nonpetroleum | | 123.51 | | 121.73 | - 1 | | | | goods Imports of nonpetroleum | 95.19 | 94.35 | 94.68 | 94.24 | 94.04 | 94.09 | 94.31 | 94.97 |
| goods | 129.07 | 146.54 | 129.60 | 134.28 | 138.42 | 143.34 | 149.93 | 154.47 | goods | 92.63 | 91.02 | 92.01 | 91.79 | 91.50 | 90.90 | 90.74 | 90.92 |
| | | | | | | | | | | | | | | | | ال | |

NOTE.-See footnotes to table 4.3.

Table 7.11.—Chain-Type Quantity and Price Indexes for Government Consumption Expenditures and Gross Investment by Type [Index numbers, 1996=100]

| | | | | | | | Įiilu | ex mumbe | s, 1990=100j | | | | | | | | |
|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| | | | | Se | easonally | adjuste | d | | | | | | Se | easonally | adjuste | d | |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | 1998 | 1999 | 19 | 98 | | 199 | 99 | |
| | | | Ш | ١٧ | ı | II | III | IV | | | | 181 | IV | ı | II | 111 | IV |
| | | | Chain | -type qu | antity ind | dexes | | | | | | Cha | in-type p | rice inde | exes | | |
| Government consumption expenditures and gross investment ¹ | 104.10 | 107.98 | 104.46 | 105.20 | 106.52 | 106.86 | 108.06 | 110.47 | Government consumption expenditures and gross investment 1 | 103.34 | 106.14 | 103.60 | 103.94 | 104.93 | 105.69 | 106.56 | 107.40 |
| Federal | 98.97 | 101.73 | 99.14 | 100.08 | 99.97 | 100.49 | 101.52 | 104.95 | Federal | 102.38 | 105.49 | 102.41 | 102.76 | 104.89 | 105.13 | 105.60 | 106.33 |
| National defense Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except | 95.71 96.37 100.91 105.22 95.81 | 97.40 97.02 103.46 116.58 96.08 | 116.43 | 96.61 97.08 103.03 105.74 96.42 | 95.64 95.74 98.12 100.24 95.43 | 95.01 94.23 101.75 110.36 93.30 | 108.23 135.75 | 101.41 100.86 105.73 119.99 100.07 | National defense Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except | 102.03 102.91 99.18 86.89 103.66 | 105.92 98.74 90.97 | 102.07 103.01 98.90 85.49 103.84 | 102.32 103.37 99.22 85.18 104.23 | 104.21 105.20 98.93 82.52 106.36 | 104.47 105.58 98.67 87.76 106.64 | 104.93 106.13 98.51 93.93 107.05 | 105.60 106.77 98.84 99.68 107.52 |
| own-account investment 3 Consumption of general government | 93.39 | 90.91 | 93.43 | 92.14 | 91.26 | 90.90 | 91.09 | 90.39 | own-account investment 3 Consumption of general government | 105.37 | 109.96 | 105.45 | 105.95 | 109.71 | 109.86 | 109.98 | 110.27 |
| fixed capital 4 Other services Gross investment Structures Equipment and software | 92.11 76.17 | 102.98 99.98 | 98.56 98.63 98.93 82.14 101.39 | 98.53 102.14 94.12 71.10 97.58 | 98.49 100.23 95.33 74.25 98.47 | 98.55 93.28 99.91 72.51 104.04 | 100.69 99.70 69.89 | 117.72 104.97 | fixed capital 4 Other services Gross investment Structures Equipment and software | 99.17 104.45 96.83 105.89 95.68 | 100.59 107.03 98.29 109.67 96.89 | 99.06 105.04 96.55 106.33 95.31 | 105.48 96.20 | 105.87 98.38 | 106.55 98.02 109.26 | | 108.30 98.82 |
| Nondefense | 105.63 103.11 | 110.54 105.78 | 1 02.85 99.98 | 107.16 104.37 | 108.77 105.49 | 111. 62 106.43 | | 112.19 106.34 | Nondefense Consumption expenditures | 103.07 104.24 | 106.77 108.51 | 103.05 104.26 | | 106.18 107.76 | 106.37 108.10 | 1 06.85 108.72 | 107.69 109.46 |
| Durable goods 2 Nondurable goods Commodity Credit | | | | | | | | | Durable goods 2 | | | | | | | | |
| Corporation inventory change Other nondurables Services Compensation of general government employees, except | | 131.85 103.24 | | 127.94 102.68 | 129.38 103.03 | | | 132.39 103.72 | Corporation inventory change Other nondurables Services Compensation of general government employees, except | 99.36 104.58 | 102.50 109.14 | 99.55 104.71 | | | | 103.65 109.33 | |
| own-account investment 3 | 100.54 | 101.16 | 100.45 | 102.20 | 102.34 | 101.12 | 100.03 | 101.14 | own-account investment 3 Consumption of general government | 106.62 | 113.83 | 107.01 | 107.88 | 112.96 | 113.41 | 114.28 | 114.67 |
| general government fixed capital 4 Other services Gross investment Structures Equipment and software | 118.15 99.51 117.50 94.86 130.18 | 96.50 133.33 93.07 | 119.42 98.42 116.39 98.35 126.26 | 122.07 95.33 120.29 96.51 133.70 | 124.27 97.52 | 127.46 99.61 136.51 89.07 164.30 | 94.84 132.22 93.48 | 140.33 92.24 | fixed capital 4 Other services Gross investment Structures Equipment and software | 98.20 103.89 97.97 106.48 94.30 | 99.30 105.13 99.50 109.17 95.42 | 98.10 103.62 97.81 106.74 93.98 | | 99.11 104.56 99.47 107.99 95.77 | 99.13 | 105.11 99.10 | 100.29 |
| State and local Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except own-account | 106.69 116.86 114.37 | 125.34 121.83 | 107.06 117.89 | 119.84 117.07 | 108.79 122.01 118.95 | 109.74 124.20 120.85 | 111.93 110.79 126.43 122.78 109.08 | 111.74 128.71 | State and local Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, except own-account | 103.89 104.18 99.18 94.44 105.57 | 98.82 97.86 | 104.27 104.63 99.18 94.23 106.12 | 99.06 92.72 | 104.98 105.32 98.94 92.31 107.19 | 106.42 98.78 96.39 | | 98.92 102.33 |
| investment ³ Consumption of general government fixed | | | 102.92 110.56 | | | | | 105.69 | investment ³ Consumption of general government fixed | | | | | | | 109.80 | |
| Capital 4 | 157.71 109.14 | 178.25 118.00 | 161.61 110.06 | 165.82 109.80 | 170.62 117.60 | 175.92 114.64 | 180.03 117.02 | 186.45 122.75 115.91 144.78 | Capital 4 | 103.11 102.64 | 104.18 104.43 109.59 | 103.80 102.74 106.41 | 103.45 103.36 107.54 | 102.16 103.49 108.02 | 103.48 104.28 109.33 | 102.99 104.71 104.75 110.21 90.49 | 106.38 105.19 110.77 |
| Addenda: Compensation of general government employees 3 Federal | 100.94 96.00 102.84 | 102.07 94.69 104.92 | 101.03 96.03 102.95 | 101.31 95.85 103.41 | 95.36 | 94.70 | 94.43 | 102.61 94.29 105.83 | Addenda: Compensation of general government employees 3 Federal | 106.16 105.84 106.28 | 109.94 111.45 109.40 | 106.65 106.04 106.87 | 107.27 106.68 107.49 | 108.93 110.97 108.21 | 109.50 111.23 108.89 | 110.29 111.64 109.80 | 111.05 111.97 110.72 |

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries by the Federal Government.
 Compensation of government employees engaged in new own-account investment and related expenditures

for goods and services are classified as investment in structures and in software. The compensation of all general government employees is shown in the addenda.

4. Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

Table 7.14.—Chain-Type Quantity and Price Indexes for Gross Domestic **Product by Sector**

[Index numbers, 1996=100]

| | Seasonally adjusted | | | | | | | | | | | | |
|--|--------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|------------------|-------------------------------------|------------------|--------------------------------------|--|--|--|--|--|
| | | | | - 5 | easonall | adjuste | 90 | | | | | | |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | | | | |
| | | | Ξ | IV | - | == | = | IV | | | | | |
| | | | Chair | type qu | antity in | dexes | | | | | | | |
| Gross domestic product | 109.00 | 113.49 | 109.25 | 110.83 | 111.84 | 112.36 | 113.92 | 115.84 | | | | | |
| Business 1 | 110.18 | 115.22 | 110.45 | 112.26 | 113.38 | 113.93 | 115.68 | 117.88 | | | | | |
| Nonfarm ² Nonfarm less housing Housing Farm | 110.18 111.02 102.71 109.03 | | 110.46 111.28 103.08 108.92 | 112.27 113.26 103.52 109.88 | 104.67 | 114.93 105.34 | 116.86 106.43 | 117.97 119.17 107.28 109.19 | | | | | |
| Households and institutions | 105.87 | 107.96 | 106.04 | 106.51 | 107.07 | 107.52 | 108.22 | 109.05 | | | | | |
| Private households Nonprofit institutions | 110.60 105.70 | 121.93 107.46 | 112.54 105.81 | 118.59 106.08 | 121.19 106.56 | 121.56 107.02 | 122.36 107.71 | 122.61 108.57 | | | | | |
| General government ³ | 101.78 | 103.35 | 101.92 | 102.30 | 102.71 | 103.03 | 103.59 | 104.07 | | | | | |
| FederalState and local | 97.89 103.61 | 97.54 106.08 | 97.97 103.77 | 97.98 104.33 | 97.77 105.03 | 97.44 105.66 | 97.43 106.49 | 97.51 107.15 | | | | | |
| | | | Cha | in-type p | rice inde | exes | | | | | | | |
| Gross domestic product | 102.86 | 104.31 | 103.06 | 103.28 | 103.79 | 104.13 | 104.41 | 104.93 | | | | | |
| Business 1 | 102.48 | 103.56 | 102.62 | 102.77 | 103.12 | 103.42 | 103.61 | 104.09 | | | | | |
| Nonfarm ² Nonfarm less housing Housing Farm | 102.81 102.47 106.09 79.75 | 103.93 103.36 109.40 78.23 | 102.97 102.59 106.58 78.74 | 102.50 | | 103.79 103.23 109.16 77.93 | 103.41 | 104.52 103.91 110.34 74.07 | | | | | |
| Households and institutions | 104.49 | 108.50 | 105.08 | 105.98 | 107.10 | 108.03 | 108.97 | 109.89 | | | | | |
| Private households Nonprofit institutions | 105.45 104.46 | 108.55 108.50 | 105.89 105.05 | 106.64 105.95 | | 108.25 108.02 | | 109.84 109.89 | | | | | |
| General government ³ | 105.14 | 108.50 | 105.54 | 106.09 | 107.57 | 108.10 | 108.81 | 109.52 | | | | | |
| FederalState and local | 103.87 105.72 | 108.23 108.64 | 103.98 106.25 | 104.45 106.84 | 107.81 107.49 | | 108.37 109.02 | 108.76 109.87 | | | | | |

Equals gross domestic product less gross product of households and institutions and of general government.
 Equals gross domestic business product less gross farm product.
 Equals compensation of general government employees plus general government consumption of fixed capitai.

Table 7.15.-Price, Costs, and Profit Per Unit of Real Gross Product of **Nonfinancial Corporate Business**

[Dollars]

| Price per unit of real gross product of nonfinancial corporate business 1 | 1.007 | | 1.008 | 1.008 | 1.009 | 1.012 | 1.012 | |
|---|----------------------|---------|---------------------|---------------------|----------------------|---------------------|---------------------|-------|
| Compensation of employees (unit labor cost) | .643 | | .644 | .646 | .647 | .649 | .650 | ļ |
| Unit nonlabor cost Consumption of fixed capital | . 244 .109 | | .243 .109 | .245 .109 | . 243 .109 | .244 .110 | .246 .111 | |
| Indirect business tax and nontax liability plus business transfer payments less subsidies | .109 .026 | | .108 .026 | .111 .025 | .109 .025 | .109 .025 | .109 .026 | |
| Corporate profits with inventory valuation and capital consumption adjustments (unit profits from current production) Profits tax liability | .120 .032 | ••••••• | .121 .032 | .116 .030 | .119 .032 | .118 .033 | .115 .033 | |
| valuation and capital consumption adjustments | .088 | | .089 | .085 | .087 | .085 | .082 | |

^{1.} The implicit price deflator for gross product of nonfinancial corporate business divided by 100.

Table 7.16.-Implicit Price Deflators for Private Inventories by Industry Group

[Index numbers, 1996=100]

| | | S | easonall | y adjuste | ed | |
|--|---|--|-------------------------|---------------------------|--|---|
| | 19 | 98 | | 19 | 99 | |
| | 111 | IV | 1 | 11 | 111 | IV |
| Private inventories 1 | 96.30 | 95.64 | 95.59 | 96.37 | 97.56 | 98.15 |
| Farm | 88.38 | 85.84 | 90.74 | 90.14 | 88.98 | 89.54 |
| Nonfarm | 96.97 97.56 96.23 | 96.90 | 95.89 | 96.37 | 96.97 | 97.43 |
| Manufacturing | 95.71 96.02 95.21 | 94.42 94.62 94.08 | 93.92 94.10 93.64 | 94.71 | 95.60 | 97.39 96.35 99.10 |
| Wholesale | 96.28 97.87 93.59 | 96.17 97.48 93.97 | 95.27 95.74 94.53 | | | |
| Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods | 96.39 97.88 93.84 95.50 97.82 92.03 | 96.40 97.48 94.55 94.67 97.45 90.50 | | 95.95 | 97.62 98.49 | 97.23 96.62 98.39 99.75 96.02 105.94 |
| Retail trade Durable goods Motor vehicle dealers Other Nondurable goods Other | 100.12 99.43 98.48 100.47 100.95 94.61 | 100.61 101.22 94.14 | | 100.57 102.45 97.21 | 99.92 99.54 100.35 103.81 100.06 | 99.48 100.57 104.07 100.13 |
| Durable goodsNondurable goods | 101.69 94.07 | 100.62 93.66 | | | | 102.84 99.91 |

^{1.} Implicit price deflators are as of the end of the quarter and are consistent with the inventory stocks shown in tables 5.12 and 5.13.

Table 7.17.—Chain-Type Quantity Indexes for Gross Domestic Product by Major Type of Product

[Index numbers, 1996=100]

| | | | | Se | easonally | / adjuste | d | |
|---|--|--------|--------|--------|-----------|-----------|------------------|--------|
| | 109.00 1 108.46 1 112.85 1 111.43 1 120.28 1 119.01 1 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | Ш | IV | 1 | ll . | 111 | IV |
| Gross domestic product | 109.00 | 113.49 | 109.25 | 110.83 | 111.84 | 112.36 | 113.92 | 115.84 |
| Final sales of domestic product | 108.46 | 113.31 | 108.69 | 110.34 | 111.59 | 112.52 | 113.78 | 115.33 |
| Goods | 112.85 | 118.92 | 112.62 | 115.79 | 116.63 | 116.77 | 119.45 | 122.81 |
| Final sales Change in private inventories | | | | | | | | |
| Durable goods Final sales Change in private inventories | 119.01 | 128.82 | 118.49 | 123.65 | 125.29 | 127.15 | 130.21 | 132.65 |
| Nondurable goods | 105.24 | 110.18 | 105.15 | 107.15 | 108.55 | 109.38 | 110.78 110.29 | 112.51 |
| Services | 106.17 | 109.70 | 106.69 | 107.25 | 108.08 | 109.07 | 110.25 | 111.41 |
| Structures | 110.14 | 114.13 | 110.67 | 112.03 | 114.79 | 113.99 | 113.42 | 114.31 |
| Addenda: Motor vehicle output | 114.56 | 125.25 | 110.92 | 126.49 | 119.36 | 121.80 | 129.10 | 130.74 |
| motor vehicle output | 108.80 | 113.07 | 109.19 | 110.27 | 111.57 | 112.02 | 113.38 | 115.31 |

Table 7.18B.—Chain-Type Quantity Indexes for Motor Vehicle Output [Index numbers, 1996-100]

| | | , | | | | | | |
|---|--|--|---|--|--|--|--|--|
| | | | | S | easonally | adjuste | d | |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | = | ١٧ | _ | = | == | IV |
| Motor vehicle output Auto output Truck output ¹ | 114.56 104.87 122.70 | 125.25 103.02 143.66 | 110.92 104.55 116.25 | 126.49 116.65 134.74 | 119.36 99.19 136.08 | 121.80 101.00 139.04 | 129.10 102.88 150.78 | 130.74 109.02 148.74 |
| Final sales of domestic product | 112.55 | 119.74 | 108.03 | 118.63 | 115.28 | 119.13 | 122.37 | 122.20 |
| Personal consumption expenditures New motor vehicles Autos Light trucks Net purchases of used autos | 114.53 115.33 111.43 119.94 112.04 | 124.74 126.29 124.76 128.14 119.97 | 112.08 110.45 106.64 114.95 | 121.22 120.75 116.09 126.27 | 121.64 121.16 117.93 125.00 | 124.66 125.72 124.82 126.82 121.26 | 125.41 126.72 123.82 130.16 121.26 | 127.27 131.54 132.47 130.56 |
| Private fixed investment New motor vehicles Autos Trucks Light trucks Other Net purchases of used autos | 115.07 114.37 102.10 126.11 126.47 125.29 | 132.69 129.68 106.36 151.96 154.88 146.45 | 109.39 108.79 94.31 122.66 119.31 128.60 | 124.22 121.64 105.49 137.11 136.20 138.57 | 126.04 123.88 102.09 144.69 145.83 142.43 | 129.17 127.75 107.97 146.67 148.90 142.44 | 140.75 137.06 111.31 161.64 168.43 149.17 | 134.81 130.05 104.05 154.84 156.37 151.76 |
| Gross government investment Autos New trucks | 109.63 95.01 117.67 | 117.93 107.15 123.74 | 98.49 92.83 101.40 | 118.22 103.89 126.04 | 107.78 95.31 114.58 | 99.74 92.29 103.70 | 120.88 108.30 127.71 | 143.32 132.69 148.96 |
| Net exports | 100.44 94.32 111.90 116.94 118.90 | 96.23 94.32 99.88 143.66 143.27 145.51 | 89.29 85.02 97.31 112.78 114.01 106.86 | 99.04 99.75 97.92 127.05 129.71 | 92.12 90.26 95.69 138.59 139.67 133.39 | 100.78 102.60 97.65 139.34 136.13 154.67 | 93.62 89.63 101.02 147.87 148.38 145.45 | 98.41 94.78 105.17 148.83 148.89 |
| Change in private inventories | | | | | | | 140.40 | |
| Foreign Used New trucks | | | | | | | | |
| Domestic Foreign | | | | | | | ************ | |
| Addenda: Final sales of motor vehicles to domestic purchasers Private fixed investment in new autos and new light | | 127.43 | | 122.21 | | | | |
| Domestic output of new autos ² | 98.16 129.63 | 100.82 | 104.46 99.05 121.33 | 117.95 106.06 139.71 | 119.83 98.93 136.53 | 99.28 | 134.48 103.95 148.58 | 125.27 101.10 164.89 |

Except for exports and imports, consists of new trucks only.
 Consists of final sales and change in private inventories of new autos assembled in the United States.
 Consists of personal consumption expenditures, private fixed investment, and gross government investment.

8. Supplemental Tables____

Table 8.1.—Percent Change From Preceding Period in Selected Series [Percent]

| | | | Sea | sonally | adjuste | ed at a | nnual ra | ates | | | | Sea | sonally | adjuste | ed at a | nnual ra | ates |
|---|------------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|--|-------------------------------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | 111 | IV | ţ. | II | III | IV | | | | Ш | IV | 1 | 11 | 111 | ΙV |
| Gross domestic product: Current dollars | 1.2 1.2 | 1 1 | 5.4 3.8 1.4 1.5 | 1.0 | | | | 9.1 6.9 2.0 2.0 | Chain-type price index | -5.9 -5.9 8.4 10.8 -2.2 | 10.0 7.6 | 5.7 6.4 | -1.2 -1.2 6.0 1.6 4.4 | | 16.2 | 5.9 11.8 | 5.8 12.2 13.9 |
| Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 5.9 4.9 .9 | 7.0 5.3 1.6 1.6 | 5.1 3.9 1.2 1.2 | 5.8 4.6 1.2 1.2 | 8.1 6.5 1.4 1.4 | 7.4 5.1 2.2 2.2 | 6.8 4.9 1.8 1.8 | 8.5 5.9 2.5 2.5 | Implicit price deflator Government consumption expenditures and gross investment: Current dollars | -2.2 | 2.3 6.5 | 6 | 4.4 | -3.3 9.1 | 6.7 | 7.9 | -1.5 12.7 |
| Durable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 8.6 11.3 -2.4 -2.4 | 8.7 11.5 -2.6 -2.6 | 1.8 4.1 -2.3 -2.3 | 15.7 20.4 -3.9 -3.9 | 9.3 12.4 -2.8 -2.8 | 7.0 9.1 –1.9 –1.9 | 5.6 7.7 –2.0 –2.0 | 13.0 -1.7 | Chain-type quantity index Chain-type price index Implicit price deflator Federal: | 3.3 1.7 1.5 1.5 | 2.7 2.7 | 1.3 2.0 2.0 | 1.3 | 5.1 3.8 3.8 | 4.3 1.3 2.9 2.9 | | 9.2 3.2 3.2 |
| Nondurable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 4.1 4.0 0 | 7.8 5.4 2.3 2.3 | 3.7 2.4 1.2 1.2 | 6.3 5.0 | 10.7 8.9 1.6 1.6 | 8.5 3.3 5.1 5.1 | 6.5 3.6 2.8 2.8 | 11.3 7.2 3.8 3.8 | Current dollars Chain-type quantity index Chain-type price index Implicit price deflator National defense: | .2 9 1.1 1.1 | 3.0 | -2.3 .4 .4 | 1.4 1.4 | 8.1 5 8.6 8.6 | 3.0 2.1 .9 .9 | 6.0 4.1 1.8 1.8 | 17.4 14.2 2.8 2.8 |
| Services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 6.2 4.0 2.1 2.1 | 1 | 6.6 4.7 1.8 | 3.7 1.5 2.2 | 6.5 4.2 2.2 2.2 | 7.0 5.2 1.7 | 7.2 5.0 2.1 2.1 | 6.7 3.8 2.7 2.7 | Current dollars | -1.1 -1.9 .8 .8 | 4.5 1.8 2.7 2.7 | .9 | -2.0 -2.9 1.0 1.0 | 3.3 -4.0 7.6 7.6 | -1.6 -2.6 1.0 1.0 | 13.1 11.2 1.8 1.8 | 2.6 |
| Gross private domestic investment: Current dollars Chain-type quantity index Chain-type price index | 10.7 11.7 9 9 | 6.0 5.8 2 | 11.2 10.4 2 | 12.2 | | -2.2 -2.1 4 1 | 13.1 13.6 3 4 | 10.7 10.0 .7 | Current dollars | 2.6 1.0 1.6 1.6 | 8.4 4.7 3.6 3.6 | 4 | 17.8 2.1 | 17.2 6.1 10.4 10.4 | 11.7 10.9 .7 .7 | -5.3 -7.1 1.8 1.9 | 13.3 9.9 3.2 3.2 |
| Implicit price deflator Fixed investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 11.0 11.8 | 8.1 8.0 0 | 2.1 2.0 .1 | 13.6 | | 6.5 6.6 1 1 | 6.9 6.8 .1 | 2.9 2.1 .8 | State and local: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 5.1 3.2 1.8 1.8 | 6.9 4.2 2.5 2.5 | 2.8 | 3.7 2.3 1.3 1.3 | 9.7 8.2 1.4 1.4 | 4.9 .9 4.0 4.0 | 9.1 4.8 4.2 4.2 | 10.3 6.6 3.4 3.4 |
| Nonresidential: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 10.7 12.7 -1.8 -1.8 | 6.9 8.3 -1.3 -1.3 | -1.3 0 -1.4 -1.4 | 13.2 15.3 -1.8 -1.8 | 6.8 7.8 –.9 –.9 | 5.5 7.0 -1.4 -1.4 | 9.4 10.9 -1.3 -1.3 | 2.6 2.5 .1 | Final sales of domestic product: Current dollars Chain-type quantity index Implicit price deflator | 5.5 4.3 1.2 1.2 | 6.0 4.5 1.5 | 2.4 1.4 | 7.2 6.2 .9 | 6.7 4.6 2.0 2.0 | 4.8 3.4 1.4 1.4 | 5.7 4.5 1.1 1.2 | 7.7 5.6 2.0 2.0 |
| Structures: Current dollars | 7.4 4.1 3.1 3.1 | 0 2.6 2.7 2.6 | -3.2 -6.6 3.6 3.6 | 9.5 5.8 3.5 3.5 | -4.6 -5.8 1.3 1.3 | -3.2 -5.3 2.2 2.2 | 6 -3.8 3.4 3.4 | 9 -4.3 3.6 3.6 | Gross domestic purchases: Current dollars Chain-type quantity index Chain-type price index implicit price deflator | 5.4 .7 | 6.7 5.1 1.5 1.5 | 5.8 4.6 1.1 1.2 | 6.6 5.5 1.0 1.1 | 7.5 5.8 1.6 1.6 | 5.2 3.2 1.9 1.9 | 8.1 6.3 1.7 1.7 | 9.6 7.2 2.3 2.3 |
| Current dollars | 11.8 15.8 -3.4 -3.4 | 9.2 12.0 -2.5 -2.5 | 7 2.4 -2.9 -3.0 | 14.4 18.6 -3.5 -3.5 | 10.8 12.5 -1.6 -1.6 | 8.4 11.2 -2.5 -2.5 | 12.6 15.7 -2.7 -2.7 | 3.7 4.7 9 9 | Final sales to domestic purchasers: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 6.2 5.4 .8 .8 | 7.1 5.5 1.5 1.5 | 4.3 3.2 1.1 1.1 | 6.8 5.8 1.0 1.0 | 8.5 6.7 1.7 1.7 | 6.7 4.7 2.0 2.0 | 7.0 5.2 1.8 1.8 | 8.3 5.8 2.3 2.3 |
| Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Exports of goods and services: | 9.2 | 11.5 7.4 3.9 3.9 | 12.7 8.0 4.4 4.3 | | 17.3 12.9 4.0 4.0 | 9.3 5.5 3.6 3.6 | .2 -3.8 4.1 4.1 | 3.9 1.0 2.8 2.8 | Gross national product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 4.1 | | 4.1 2.6 1.4 1.5 | 7.4 6.3 .9 1.0 | 5.8 3.8 2.0 2.0 | 3.3 1.9 1.3 1.4 | 5.6 1.1 | •••••• |
| Current döllars Chain-type quantity index Chain-type price index Implicit price deflator | 2 2.2 -2.3 -2.3 | 3.2 3.6 4 4 | -4.5 -1.7 -2.9 -2.9 | 14.5 16.1 -1.3 -1.3 | -5.9 -5.5 5 5 | 4.7 4.0 .7 .7 | 13.0 11.5 1.3 1.3 | 11.5 8.7 2.6 2.6 | Command-basis gross national product: Chain-type quantity index Disposable personal income: Current dollars Chained (1996) dollars | 4.5 5.1 4.1 | 5.6 4.0 | 2.7 5.7 4.5 | 6.2 6.0 4.8 | 4.1 5.6 4.1 | 1.4 5.5 3.2 | 5.1 4.8 2.9 | 7.1 4.5 |
| Exports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | -1.1 2.1 -3.1 -3.1 | 2.6 4.0 -1.4 -1.4 | -2.7 1.6 -4.2 -4.2 | 16.6 19.4 -2.3 -2.3 | -10.5 -9.3 -1.4 -1.4 | 3.7 4.3 6 6 | 17.7 16.9 .7 | 13.5 10.5 2.7 2.7 | Final sales of computers 1: Current dollars | 10.7 53.9 –28.0 | 6.2 43.9 –27.2 | 7.4 77.5 –39.9 | 3 44.4 -31.2 | -6.1 31.6 -28.6 | 21.4 44.2 -15.8 | 24.0 53.2 –19.0 | -8.2 12.9 -18.7 |
| Exports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 2.2 2.5 3 3 | 4.8 2.8 1.9 1.9 | -8.5 -8.8 .3 .3 | 9.8 8.6 1.1 1.1 | 5.7 4.1 1.5 1.5 | 7.1 3.2 3.8 3.8 | 2.7 0 2.7 2.7 | 6.8 4.5 2.2 2.2 | Implicit price deflator Gross domestic product less final sales of computers: Current dollars Chain-type quantity index | 5.5 3.9 | 5.6 3.7 | -39.5 5.3 3.2 2.0 2.1 | 7.1 5.5 | 5.8 | -15.8 3.1 1.5 | 6.6 | 9.3 6.9 2.3 |
| Imports of goods and services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator | 5.6 11.6 -5.3 -5.3 | 12.3 11.8 .3 .4 | .3 5.2 -4.6 -4.6 | 10.5 10.8 3 3 | 9.2 12.5 -3.0 -3.0 | 20.4 14.4 5.2 5.2 | 22.1 14.9 6.2 6.2 | 15.1 10.0 4.6 4.6 | Chain-type price index | 1.6 1.6 6.1 | 1.8 1.8 6.7 | 5.8 | 5.5 1.3 1.4 | 3.4 2.4 2.3 | 1.5 1.5 1.6 | 5.2 1.3 1.3 | 2.3 9.8 |
| Imports of goods: Current dollars Chain-type quantity index | 5.1 11.7 | 12.7 12.7 | 8 4.9 | 11.5 12.8 | 9.4 12.6 | 21.2 15.5 | 24.2 17.3 | 15.7 9.3 | Chain-type quantity index Chain-type price index Implicit price deflator | 4.8 1.2 1.2 | 4.6 1.9 2.0 | 4.0 1.6 1.8 | 4.9 1.5 1.6 | 5.3 2.0 2.0 | 4.9 2.6 2.2 2.3 | 5.8 2.1 2.1 | 7.0 2.6 2.6 |

^{1.} For some components of final sales of computers, includes computer parts.

NOTE.-Contributions to the percent change in real gross domestic product are shown in table 8.2.

Table 8.2.—Contributions to Percent Change in Real Gross Domestic **Product**

| Seasonally adjusted at annual rates | | | | | | | | | | | |
|---|------------------|--------------------|-------------|-----------------------|------------|--------------------|--------------|------------|--|--|--|
| | | 4000 | 1998 1999 | | | | | | | | |
| | 1998 | 1999 | 19: | 98 IV | 1 | 198 |)III | IV | | | |
| Name of the state | | | -"- | | | | -" | | | | |
| Percent change at annual rate: | ١., | اروا | | | | 4.0 | | | | | |
| Gross domestic product | 4.3 | 4.1 | 3.8 | 5.9 | 3.7 | 1.9 | 5.7 | 6.9 | | | |
| Percentage points at annual rates: | | | | | | | | | | | |
| Personal consumption expenditures | 3.24 | 3.54 | 2.64 | 3.13 | 4.27 | 3.36 | 3.33 | 4.03 | | | |
| Durable goods Motor vehicles and parts Furniture and household | .86 .33 | .90 .30 | .33 –.23 | 1.51 .94 | .96 .13 | .71 .30 | .62 .10 | 1.02 | | | |
| equipment Other | .39 .13 | .44 .16 | .47 .08 | .44 .13 | .55 .28 | .34 .08 | .39 .13 | .48 .27 | | | |
| Nondurable goods | .79 | 1.05 | .49 | .98 | 1.68 | .64 | .73 | 1.44 | | | |
| FoodClothing and shoes | .26 .25 | .37 .28 | .23 04 | .60 .16 | .20 .82 | .24 .09 | .26 .21 | 1.08 14 | | | |
| Gasoline, fuel oil, and other | .23 | 1 | | | | | 1 | 1- | | | |
| energy goods Other | .01 .27 | .02 .38 | .03 .27 | 05 .27 | .04 .62 | .04 .28 | .03 .23 | .02 .49 | | | |
| Services | 1.59 | 1.59 | 1.83 | .64 | 1.63 | 2.01 | 1.97 | 1.57 | | | |
| Housing | .24 | .25 | .20 | .21 | .31 | .23 | .27 | .28 | | | |
| Household operation | .21 | .17 | .42 | 37 | .38 | .21 | .25 | 12 | | | |
| Electricity and gas | .03 .18 | .03 | .20 .21 | 49 .11 | .24 .15 | .05 | .14 .11 | 20 .08 | | | |
| Other household operation Transportation | 10 | .14 | .01 | .07 | .13 | .16 .10 | .12 | .07 | | | |
| Medical care | .29 | .27 | .19 | .29 | .16 | .30 | .43 | .42 | | | |
| Recreation | .12 | .24 | .18 | .12 | .27 | .31 | .35 | .2 | | | |
| Other | .63 | .58 | .83 | .32 | .43 | .85 | .56 | .6 | | | |
| Gross private domestic investment \dots | 1.93 | 1.01 | 1.74 | 1.94 | .67 | 36 | 2.25 | 1.72 | | | |
| Fixed investment | 1.86 | 1.33 | .34 | 2.20 | 1.48 | 1.10 | 1.16 | .39 | | | |
| Nonresidential Structures | 1.49 .13 | 1.02 08 | .01 –.21 | 1.79 | .94 18 | .86 16 | 1.33 11 | .34 12 | | | |
| Equipment and software | 1.37 | 1.10 | .22 | 1.61 | 1.12 | 1.02 | 1.44 | .40 | | | |
| Information processing | | | | | | | | | | | |
| equipment and software | .85 | .84 | .71 | .80 | .80 | 1.09 | .88 | .43 | | | |
| Computers and peripheral equipment | .45 | .38 | .36 | .43 | .33 | .40 | .40 | .10 | | | |
| Software 1 | .23 | .22 | .25 | .26 | .16 | .23 | .21 | .19 | | | |
| Other | .17 | .25 | .09 | .12 | .30 | .46 | .27 | .13 | | | |
| Industrial equipment | .08 | .01 | .04 | .01 | 17 | .07 | .16 | .2 | | | |
| Transportation equipment Other | .31 .12 | .24 | 59 .06 | .99 19 | .22 .27 | .03 –.17 | .55 14 | 14 03 | | | |
| Residential | .37 | .31 | .33 | .41 | .53 | .24 | 17 | .05 | | | |
| | 1 | | | 26 | 80 | -1.46 | | | | | |
| Change in private inventories | .07 02 | 32 01 | 1.40 .30 | 2 0 .58 | 00 16 | -1.40 24 | 1.09 18 | 1.33 10 | | | |
| Nonfarm | .09 | 30 | 1.10 | 84 | 64 | -1.22 | 1.27 | 1.4 | | | |
| Net exports of goods and services | -1.18 | -1.09 | 82 | .33 | -2.13 | -1.35 | 72 | 43 | | | |
| . • | | | | | | | | | | | |
| Goods | .25 .17 | . 39 .30 | 18 .12 | 1.65 1.38 | 61 74 | . 42 .32 | 1.19 1.19 | .93 .79 | | | |
| Services | .08 | .09 | 30 | .27 | .13 | .10 | 0.73 | .13 | | | |
| Imports | -1.43 | -1.49 | 65 | -1.32 | -1.52 | -1.77 | -1.91 | -1.3 | | | |
| Goods | -1.21 | -1.32 | 51 | -1.29 | -1.28 | -1.59 | -1.83 | -1.0 | | | |
| Services | 22 | 16 | 13 | 03 | 24 | 19 | 08 | 30 | | | |
| Government consumption expenditures and gross investment | .31 | .65 | .23 | .51 | .87 | .23 | .81 | 1.6 | | | |
| Federal | 06 | .17 | -,14 | .24 | 03 | .13 | .26 | .8. | | | |
| National defense | 08 | .07 | 14 .27 | 12 | 03 16 | 10 | .42 | .6 | | | |
| Consumption expenditures | 10 | .02 | .01 | 0 | 19 | 21 | .42 | .5 | | | |
| Gross investment | .02 | .05 | .26 | 12 | .03 | .11 | 0 | .13 | | | |
| Nondefense | .02 | .10 | 42 | .36 | .13 | .23 | 16 | .2 | | | |
| Consumption expenditures Gross investment | 03 | .05 | 33 | .30 | .08 | .06 | 10 | .11 | | | |
| | .05 | .06 | 09 | .06 | .06 | .17 | 06 | .1 | | | |
| State and local | .37 | .48 | .37 | .28 | .90 | .10 | .55 | .7 | | | |
| Consumption expenditures Gross investment | .31 .06 | .31 .17 | .24 | .29 02 | .31 .59 | .32 –.22 | .37 .18 | .3 .4 | | | |
| Addenda: | | | | | | | | | | | |
| Goods | 2.26 | 2.01 | 2.12 | 4.26 | 1.14 | .18 | 3.47 | 4.2 | | | |
| Şervices | 1.55 | 1.78 .33 | 1.41 | 1.18 | 1.65 | 1.96 | 2.37 | 2.3 | | | |
| Christinas | | | . 25 | .46 | .89 | 26 | 17] | .3 | | | |
| Structures | .49 .26 | .33 | .25 .21 | 1.94 | 87 | .29 | .87 | .20 | | | |

Table 8.3.-Contributions to Percent Change in Real Personal Consumption Expenditures by Major Type of Product

| | | | Seas | sonally | y adjusted at annual rates | | | | | |
|--|--|---|---|--|--|---|--|---|--|--|
| | 1998 | 1999 | 199 | 98 | | 199 | 9 | | | |
| | 4.9 1.29 .50 .59 .20 1.19 .40 .38 .01 .41 2.39 .36 .31 .04 .28 .15 .44 .18 .95 | | 111 | IV | 1 | 11 | 111 | IV | | |
| Percent change at annual rate: Personal consumption expenditures | 4.9 | 5.3 | 3.9 | 4.6 | 6.5 | 5.1 | 4.9 | 5.9 | | |
| Percentage points at annual rates: | | | | | | ı | l | | | |
| Durable goods | 1.29 | 1.35 | .49 | 2.24 | 1.45 | 1.07 | .92 | 1.50 | | |
| Motor vehicles and parts Furniture and household equipment Other | .59 | .44 .66 .24 | 34 .70 .12 | 1.40 .66 .19 | .20 .83 .42 | .45 .51 .12 | .15 .58 .19 | .40 .71 .39 | | |
| Nondurable goods | 1.19 | 1.57 | .72 | 1.44 | 2.56 | .98 | 1.07 | 2.11 | | |
| Food Clothing and shoes Gasoline, fuel oil, and other energy | | .56 .42 | .35 –.06 | .89 .23 | .32 1.24 | .36 .14 | .38 .30 | 1.59 22 | | |
| goods | .03 01 | .03 .01 .02 .56 | .04 .04 0 .40 | 07 04 03 .39 | .06 03 .09 .94 | .06 .03 .03 .42 | .04 .05 –.01 .34 | .03 .08 05 .72 | | |
| Services | 2.39 | 2.39 | 2.73 | .93 | 2.54 | 3.03 | 2.90 | 2.28 | | |
| Housing Household operation Electricity and gas Other household operation Transportation Medical care Recreation Other | .31 .04 .28 .15 .44 | .37 .26 .05 .22 .12 .41 .35 | .29 .63 .31 .32 .02 .28 .27 1.24 | .30 56 73 .17 .11 .42 .18 .47 | .49 .58 .36 .22 .12 .27 .40 .67 | .35 .32 .07 .25 .15 .46 .47 | .39 .37 .20 .16 .17 .63 .51 .82 | .41 18 30 .11 .11 .61 .33 1.01 | | |
| Addenda: Energy goods and services 1 | .05 | .08 | .34 | 80 | .42 | .13 | .24 | 27 | | |
| Personal consumption expenditures less food and energy | 4.42 | 4.67 | 3.25 | 4.53 | 5.81 | 4.58 | 4.26 | 4.57 | | |

Excludes software "embedded," or bundled, in computers and other equipment.
 For some components of final sales of computers, includes computer parts.
 Note.—The quantity indexes on which the estimates in this table are based are shown in tables 7.1, 7.2, 7.4, 7.6, 7.9, 7.11, and 7.17.

Consists of gasoline, fuel oil, and other energy goods, and of electricity and gas.

NOTE.—The quantity indexes on which the estimates in this table are based are shown in table 7.4. The estimates in this table differ from those in table 8.2 because this table shows contributions to real personal consumption expenditures, whereas table 8.2 shows contributions to real gross domestic product.

Table 8.4.—Contributions to Percent Change in Real Private Fixed Investment by Type

| | | | •• | | | | | |
|---|--|--|--|---|---|--|---|---------------------------------------|
| | | | Sea | sonally | adjuste | ed at a | nnual ra | ates |
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | | IV | - | 11 | 99 III 6.8 7.8165 -1.09 .14 .5322 8.46 5.14 2.33 1.24 1.58 .92 3.2393 -1.01 | IV |
| Percent change at annual rate: Private fixed investment | 11.8 | 8.0 | 2.0 | 13.8 | 9.1 | 6.6 | 6.8 | 2.1 |
| Percentage points at annual rates: | | | | | | | | |
| Nonresidential | 9.50 | 6.10 | .04 | 11.20 | 5.81 | 5.18 | 7.81 | 1.86 |
| Structures | .81 | 50 | -1.27 | 1.20 | -1.04 | 94 | 65 | 75 |
| farm | .74 .18 | 33 0 | 21 .05 | 1.06 .25 | 21 15 | -1.52 03 | -1.09 .14 | 21 27 |
| wellsOther structures | 09 02 | 19 .02 | 92 19 | 20 .08 | 62 06 | .30 .31 | .53 22 | 24 02 |
| Equipment and software | 8.69 | 6.61 | 1.31 | 10.00 | 6.85 | 6.11 | 8.46 | 2.62 |
| and softwareComputers and peripheral | 5.42 | 5.07 | 4.22 | 4.99 | 4.82 | 6.44 | 5.14 | 2.47 |
| equipment 1 | 2.87 1.46 1.09 .53 1.96 .78 | 2.27 1.30 1.50 .06 1.48 0 | 2.15 1.51 .56 .22 -3.51 .37 | 2.63 1.60 .76 .05 6.03 -1.07 | 2.00 1.00 1.82 -1.00 1.37 1.66 | 2.36 1.36 2.72 .42 .22 98 | 1.24 1.58 .92 3.23 | .91 .84 .72 1.19 85 19 |
| Residential | 2.34 | 1.92 | 1.97 | 2.62 | 3.25 | 1.44 | 98 | .28 |
| Structures | 2.30 1.63 01 .69 | 1.87 1.08 .11 .68 | 1.96 1.79 12 .29 | 2.59 1.65 02 .96 | 3.16 1.89 .70 .58 | 1.39 01 12 1.52 | -1.11 01 | .26 1.18 01 90 |
| Equipment | .04 | .05 | .01 | .04 | .09 | .06 | .04 | .01 |

NOTE.—The quantity indexes on which the estimates in this table are based are shown in table 7.6. The estimates in this table differ from those in table 8.2 because this table shows contributions to real private fixed investment, whereas table 8.2 shows contributions to real gross domestic product.

Table 8.5.-Contributions to Percent Change in Real Exports and in Real Imports of Goods and Services by Type of Product

| | | _ | | | | | | |
|---|---------------------|----------------------|---------------------|-------|---------------------|----------|-------|---------------------|
| Percent change at annual rate: | | | | | | | | |
| Exports of goods and services | 2.2 | 3.6 | -1.7 | 16.1 | −5.5 | 4.0 | 11.5 | 8.7 |
| Percentage points at annual rates: | | | | | | | | |
| Exports of goods 1 | 1.47 | 2.78 | 1.07 | 13.34 | -6.70 | 3.02 | 11.51 | 7.31 |
| Foods, feeds, and beverages | 05 17 1.31 | .14 | 97 56 4.32 | 1.42 | 1.94 | 1.15 | 1.04 | 11 3.48 1.55 |
| parts | 10 .20 .28 | .18 | .56 | 39 | .23 | <u> </u> | .63 | .19 1.16 1.04 |
| Exports of services 1 | .72 | .85 | -2.73 | 2.75 | 1.23 | .98 | .02 | 1.38 |
| Percent change at annual rate: | | | | | | | | |
| Imports of goods and services | 11.6 | 11.8 | 5.2 | 10.8 | 12.5 | 14.4 | 14.9 | 10.0 |
| ercentage points at annual rates: | | | i | | | | | |
| imports of goods 1 | 9.81 | 10.53 | 4.12 | 10.52 | 10.53 | 12.85 | 14.22 | 7.85 |
| Foods, feeds, and beverages | .28 | .34 | .25 | .07 | .34 | .78 | .39 | .11 |
| except petroleum and products Petroleum and products Capital goods, except automotive Automotive vehicles, engines, and | 1.38 .41 3.51 | .58 04 3.60 | .73 .12 1.19 | -1.17 | .28 | 1.05 | 66 | |
| parts | .88 2.48 .86 | 2.68 2.23 1.14 | −.15 1.03 .95 | | 3.52 2.99 .96 | | 3.53 | .17 3.54 .28 |
| Imports of services 1 | 1.78 | 1.28 | 1.05 | .33 | 1.99 | 1.55 | .70 | 2.18 |

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment were reclassified from goods to services.

Table 8.6.-Contributions to Percent Change in Real Government Consumption Expenditures and Gross Investment by Type

| | | | Sea | sonally | adjust | fjusted at annual rates | | | | |
|---|--------------------------------------|---|---|------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|--|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | |
| | | | = | I۷ | 1 | | III | IV | | |
| Percent change at annual rate: Government consumption expenditures and gross investment ¹ | 1.7 | 3.7 | 1.3 | 2.9 | 5.1 | 1.3 | 4.5 | 9.2 | | |
| Percentage points at annual rates: | | | | | | | | | | |
| Federal | 33 | .98 | 82 | 1.35 | – .16 | .74 | 1.45 | 4.81 | | |
| National defense | .45 55 .02 .02 60 | . 40 .13 .03 .05 .05 | 1.55 .05 .31 .29 56 | 67 01 10 18 .27 | 92 1.08 26 09 73 | .19 .17 | 2.38 2.40 .33 .44 1.63 | 3.59 2.89 12 29 3.30 | | |
| investment 3 | 28 | 23 | 02 | 47 | 32 | 13 | .07 | 22 | | |
| Consumption of general government fixed capital ⁴ Other services Gross investment Structures Equipment and software | 03 29 .10 03 .13 | 0 .28 .27 02 .29 | 02 51 1.50 .20 1.30 | 01 .74 66 20 46 | 01 40 .16 .06 | .01 -1.44 .62 03 .65 | .03 1.53 03 05 .02 | .04 3.49 .70 .02 .68 | | |
| Nondefense | 15 09 .02 08 | . 58 .26 .10 .09 .07 | -2.37 -1.88 -1.55 .02 35 | 2.02 1.71 1.49 .07 .15 | .75 .44 .04 .27 .13 | 1.33 .36 .04 02 .34 | 93 60 06 .08 62 | 1.22 .59 .03 0 .56 | | |
| except own-account investment 3 | .06 | .03 | .03 | .38 | .03 | 26 | 23 | .25 | | |
| government fixed capital 4 Other services Gross investment Structures Equipment and software | .12 26 .27 .08 .19 | .12 08 .32 01 .33 | .12 51 49 .18 67 | .12 34 .32 06 .37 | .12 02 .32 .03 .29 | .12 .49 .97 –.26 1.22 | .13 51 33 .13 47 | .13 .18 .63 –.03 .67 | | |
| State and local Consumption expenditures Durable goods 2 Nondurable goods Services Compensation of general government employees, | 2.06 1.75 .08 .41 1.26 | 2.74 1.77 .07 .37 1.33 | 2.08 1.37 .07 .36 .94 | 1.52 1.63 .07 .34 1.22 | 5.17 1.78 .07 .36 1.36 | .57 1.84 .07 .36 1.41 | 3.09 2.07 .07 .38 1.62 | 4.42 1.98 .07 .40 1.50 | | |
| except own-account investment 3 | .50 | .75 | .33 | .71 | .80 | .83 | 1.10 | .82 | | |
| Consumption of general government fixed capital 4 Other services Gross investment Structures Equipment and software | .24 .52 .31 07 | .26 .32 .97 .63 .34 | .25 .36 .72 .37 .35 | .26 .26 11 46 .36 | .26 .29 3.38 3.10 .28 | .26 .31 –1.26 –1.57 .30 | .27 .25 1.02 .56 .46 | .29 .39 2.44 2.15 .29 | | |

NOTE.—The quantity indexes on which the estimates in this table are based are shown in table 7.11. The estimates in this table differ from those in table 8.2 because this table shows contributions to real government consumption expenditures and gross investment, whereas table 8.2 shows contributions to real gross domestic product.

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment

MOTE—The quantity indexes on which the estimates in this table are based are shown in table 7.10. The estimates in this table differ from those in table 8.2 because this table shows contributions to real exports and to real imports, whereas table 8.2 shows contributions to real gross domestic product. Because imports are subtracted in the calculation of gross domestic product, the contributions of components of real imports have opposite signs in this table and in table 8.2.

 ^{1.} Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 2. Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countnies by the Federal Government.
 3. Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software.
 4. Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

Table 8.7.—Selected Per Capita Product and Income Series in Current and Chained Dollars [Dollars]

| | | | | Seasona | lly adjuste | ed at anni | ual rates | |
|---|--|--|--|---|---|--|--|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | |
| | | | III | ΙV | 1 | 11 | III | IV |
| Current dollars: Gross domestic product Gross national product Personal income Disposable personal income Personal consumption expenditures Durable goods Nondurable goods Services Chained (1996) dollars: Gross domestic product Gross national product Disposable personal income Personal consumption expenditures Durable goods Nondurable goods Nondurable goods Nondurable goods Services | 32,373 32,336 27,195 23,231 21,614 2,580 6,315 12,718 31,472 31,434 22,636 21,060 2,703 6,228 12,138 | 28,521 24,304 22,907 2,777 6,746 13,384 | 32,376 27,362 23,345 21,737 2,572 6,336 12,830 31,504 31,411 22,715 21,151 2,699 6,245 | 27,725 23,628 21,993 2,661 6,417 12,915 31,879 31,816 22,924 21,338 2,820 | 22,381 2,715 6,569 13,096 32,107 32,054 23,110 21,637 2,898 | 33,530 33,477 28,348 24,171 22,732 2,755 6,690 13,287 32,182 32,130 23,239 21,856 2,955 6,466 | 33,993 33,937 28,632 24,389 23,047 2,785 6,778 13,483 32,541 32,486 23,343 22,058 3,002 6,505 12,579 | 29,065 24,750 23,465 2,852 6,945 13,668 33,008 23,542 22,320 3,088 6,603 |
| Population (mid-period, thousands) | 270,595 | ., | | | 272,145 | | | l ' |

Table 8.8B.-Motor Vehicle Output

[Billions of dollars]

| | | | Seasonally adjusted at annual rates | | | | | | | |
|---|---|--|---|--|--|--|--|--|--|--|
| | 1998 | 1999 | 19 | 98 | | 19 | 99 | | | |
| | | | = | IV | _ | = | 111 | IV | | |
| Motor vehicle output | 313.3 130.5 182.8 | 342.5 127.0 215.5 | 306.1 133.0 173.2 | 345.3 143.5 201.9 | 325.0 121.2 203.8 | 330.9 122.7 208.2 | 355.0 128.7 226.3 | 359.1 135.5 223.6 | | |
| Final sales of domestic product | 312.3 | 331.9 | 301.5 | 329.0 | 319.3 | 329.3 | 339.2 | 339.7 | | |
| Personal consumption expenditures New motor vehicles | 228.9 173.3 90.6 82.7 55.5 | 249.7 189.4 100.6 88.8 60.2 | 225.4 166.2 86.8 79.3 59.2 | 241.8 181.5 94.3 87.2 60.3 | 242.0 181.8 95.4 86.3 60.2 | 248.1 188.3 100.6 87.6 59.8 | 251.9 190.1 99.7 90.4 61.8 | 256.8 197.7 106.7 91.0 59.1 | | |
| Private fixed investment New motor vehicles Autos Trucks Light trucks Other Net purchases of used autos | 139.2 175.4 76.7 98.7 64.1 34.7 –36.3 | 160.7 199.4 79.3 120.1 78.7 41.5 –38.7 | 132.3 166.9 71.0 96.0 60.3 35.7 –34.6 | 150.7 187.6 79.2 108.5 69.7 38.8 -36.9 | 153.8 190.8 76.3 114.5 74.4 40.1 –37.0 | 157.1 196.4 80.5 115.9 75.7 40.2 –39.3 | 169.8 210.6 82.8 127.7 85.4 42.3 –40.7 | 162.2 199.8 77.5 122.3 79.1 43.2 –37.6 | | |
| Gross government investment Autos New trucks | 11.9 3.8 8.1 | 12.9 4.3 8.6 | 10.7 3.7 7.0 | 1 2.9 4.1 8.8 | 11.7 3.8 8.0 | 1 0.9 3.7 7.2 | 13.2 4.3 8.9 | 15.7 5.3 10.4 | | |
| Net exports Exports Autos Trucks Imports Autos Trucks | -67.7 26.7 16.2 10.5 94.3 79.4 15.0 | -91.4 25.8 16.3 9.5 117.3 96.7 20.6 | -66.9 23.8 14.7 9.1 90.7 75.8 14.9 | - 76.5 26.3 17.2 9.2 102.8 86.8 16.0 | -88.3 24.6 15.6 9.0 112.9 94.1 18.8 | -86.8 27.0 17.7 9.3 113.8 92.0 21.8 | -95.7 25.1 15.5 9.6 120.8 100.2 20.7 | -95.0 26.6 16.5 10.1 121.6 100.5 21.1 | | |
| Change in private inventories | 1.0 | 10.6 | 4.6 | 16.3 | 5.7 | 1.6 | 15.8 | 19.3 | | |
| Autos New Domestic Foreign Used | 3.3 2.6 1.0 1.6 | 1.6 1.4 2 1.2 2 | 8.0 11.0 11.7 7 -3.0 | 12.1 11.9 9.5 2.4 .1 | .9 .2 .2 0 .7 | - 8.4 -6.1 -7.7 1.6 -2.3 | 5.4 4.1 3.5 .6 1.3 | 8.4 7.3 4.8 2.5 1.1 | | |
| New trucks Domestic Foreign | -2.3 -2.1 1 | 9.0 8.5 .5 | -3.4 -1.7 -1.7 | 4.2 4.2 0 | 4.8 3.6 1.2 | 10.0 10.4 4 | 10.4 11.3 -1.0 | 11.0 8.7 2.2 | | |
| Addenda: Final sales of motor vehicles to domestic purchasers Private fixed investment in new autos | 379.9 | 423.3 | 1 | 405.5 | l | | | | | |
| and new light trucks Domestic output of new autos ² Sales of imported new autos ³ | 140.8 114.2 71.2 | 157.9 116.8 81.3 | 131.3 116.3 66.8 | 148.8 122.8 76.7 | 150.7 114.0 74.7 | 156.2 114.0 79.8 | 168.3 121.7 80.9 | 156.6 117.5 89.8 | | |

Except for exports and imports, consists of new trucks only.
 Consists of final sales and change in private inventories of new autos assembled in the United States.
 Consists of personal consumption expenditures, private fixed investment, and gross government investment.

Table 8.9B.—Real Motor Vehicle Output

| Emilions of Charles (1999) dollars) | | | | | | | | | | | | | |
|---|--|---|---|--|--|--|--|--|--|--|--|--|--|
| | | | Seasonally adjusted at annual rates | | | | | | | | | | |
| | 1998 | 1999 | 19 | 98 | 1999 | | | | | | | | |
| | | | ill | III IV | | 1 11 | | IV | | | | | |
| Motor vehicle output | 315.7 132.3 183.4 | 345.2 130.0 214.7 | 305.7 131.9 173.8 | 348.6 147.2 201.4 | 329.0 125.1 203.4 | 335.7 127.4 207.8 | 355.8 129.8 225.4 | 360.3 137.5 222.3 | | | | | |
| Final sales of domestic product | 314.8 | 334.9 | 302.1 | 331.8 | 322.4 | 333.1 | 342.2 | 341.7 | | | | | |
| Personal consumption expenditures New motor vehicles Autos Light trucks Net purchases of used autos | 230.9 173.2 91.2 81.9 57.6 | 251.5 189.6 102.1 87.5 61.7 | 225.9 165.8 87.3 78.5 60.1 | 244.3 181.3 95.0 86.2 63.0 | 245.2 181.9 96.6 85.3 63.2 | 251.3 188.8 102.2 86.6 62.4 | 252.8 190.3 101.4 88.9 62.4 | 256.5 197.5 108.5 89.1 58.9 | | | | | |
| Private fixed investment New motor vehicles Autos Trucks Light trucks Other Net purchases of used autos | 139.0 177.5 77.3 100.3 66.1 34.1 –38.4 | 160.3 201.2 80.5 120.8 81.0 39.9 -40.8 | 132.1 168.8 71.4 97.5 62.4 35.0 –36.6 | 150.1 188.7 79.8 109.0 71.2 37.7 –38.5 | 152.3 192.2 77.2 115.0 76.3 38.8 -39.8 | 156.0 198.2 81.7 116.6 77.9 38.8 -42.1 | 170.0 212.7 84.2 128.5 88.1 40.6 -42.4 | 162.8 201.8 78.7 123.1 81.8 41.3 -38.7 | | | | | |
| Gross government investment | 11.9 3.6 8.2 | 12.8 4.1 8.7 | 10.7 3.6 7.1 | 12.8 4.0 8.8 | 11.7 3.7 8.0 | 10.8 3.5 7.3 | 1 3.1 4.1 8.9 | 15.5 5.1 10.4 | | | | | |
| Net exports Exports Autos Trucks Imports Autos Trucks | -66.9 26.1 16.0 10.1 93.0 78.3 14.7 | - 89.3 25.0 16.0 9.0 114.3 94.4 19.9 | -66.5 23.2 14.4 8.8 89.7 75.1 14.6 | -75.3 25.7 16.9 8.8 101.1 85.4 15.6 | -86.3 23.9 15.3 8.6 110.2 92.0 18.2 | -84.7 26.2 17.4 8.8 110.8 89.7 21.2 | -93.3 24.3 15.2 9.1 117.6 97.7 19.9 | -92.8 25.6 16.1 9.5 118.4 98.1 20.3 | | | | | |
| Change in private inventories | 1.0 | 10.1 | 3.6 | 16.6 | 6.4 | 2.5 | 13.3 | 18.1 | | | | | |
| Autos New Domestic Foreign Used | 3.4 2.6 1.1 1.5 | 1.2 1.0 2 1.1 | 7.2 10.2 11.0 7 -3.2 | 12.9 12.6 10.4 2.2 | 1.7 1.0 1.0 1 .8 | -7.9 -5.4 -7.0 1.5 -2.5 | 3.3 1.9 1.3 .7 1.3 | 7.7 6.6 4.1 2.5 1.1 | | | | | |
| New trucks Domestic Foreign | -2.2 -2.0 1 | 8.2 7.8 .5 | -3.2 -1.6 -1.7 | 3.9 3.9 0 | 4.5 3.3 1.1 | 9.2 9.6 4 | 9.4 10.2 9 | 9.9 7.9 2.0 | | | | | |
| Residual Addenda: Final sales of motor vehicles to | 3 | .4 | 4 | .1 | 1 | .9 | .3 | .4 | | | | | |
| domestic purchasers Private fixed investment in new autos | 381.7 | 424.6 | 368.7 | 407.2 | | | 436.0 | | | | | | |
| and new light trucks | 143.3 114.6 71.7 | 161.3 117.6 82.5 | 133.7 115.6 67.1 | 150.9 123.8 77.3 | 153.3 115.4 75.5 | 159.4 115.9 81.0 | 172.1 121.3 82.2 | 160.3 118.0 91.2 | | | | | |

^{1.} Except for exports and imports, consists of new trucks only.
2. Consists of final sales and change in private inventories of new autos assembled in the United States.
3. Consists of personal consumption expenditures, private fixed investment, and gross government investment.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the lines in the addenda.

Chain-type quantity indexes for the series in this table are shown in table 7.18B.

B. Other NIPA and NIPA-Related Tables.

Monthly Estimates:

Tables B.1 and B.2 include the most recent estimates of personal income and its components; these estimates were released on February 28, 2000 and include "preliminary" estimates for January 2000 and "revised" estimates for October-December 1999.

Table B.1.—Personal Income [Billions of dollars; monthly estimates seasonally adjusted at annual rates]

| | 1998 | 1999 | 1998 1999 | | | | | | | | | | | 2000 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1990 | '*** | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov.* | Dec. r | Jan.P |
| Personal income | 7,358.9 | 7,791.0 | 7,554.5 | 7,599.0 | 7,636.4 | 7,655.3 | 7,692.7 | 7,721.8 | 7,783.3 | 7,806.0 | 7,840.0 | 7,848.1 | 7,941.4 | 7,973.2 | 7,994.2 | 8,052.8 |
| Wage and salary disbursements Private industries Goods-producing industries Manufacturing Distributive industries Service industries Government | 4,186.0 3,493.2 1,038.7 757.5 944.6 1,509.9 692.8 | 4,472.4 3,745.9 1,082.4 779.7 1,005.8 1,657.7 726.5 | 4,318.8 3,614.0 1,059.7 765.2 975.0 1,579.3 704.8 | 4,350.7 3,637.6 1,060.4 766.3 981.3 1,596.0 713.1 | 4,377.9 3,661.7 1,063.8 767.2 989.7 1,608.2 716.1 | 4,385.8 3,667.7 1,064.4 767.5 987.8 1,615.5 718.1 | 4,410.4 3,690.7 1,070.2 770.5 993.4 1,627.1 719.8 | 4,432.1 3,711.3 1,074.8 774.9 996.4 1,640.0 720.8 | 4,455.4 3,731.9 1,080.4 779.0 1,003.1 1,648.4 723.5 | 4,491.4 3,764.2 1,089.8 786.0 1,009.8 1,664.6 727.2 | 4,508.2 3,777.6 1,087.3 785.2 1,013.1 1,677.2 730.7 | 4,528.5 3,795.6 1,093.6 788.0 1,017.3 1,684.6 732.9 | 4,556.9 3,821.2 1,101.4 793.7 1,018.8 1,700.9 735.7 | 4,569.8 3,831.4 1,100.3 789.3 1,021.1 1,710.0 738.4 | 4,601.4 3,859.7 1,102.3 788.8 1,037.3 1,720.2 741.7 | 4,639.7 3,888.2 1,113.6 794.0 1,040.4 1,734.2 751.5 |
| Other labor income | 515.7 | 535.8 | 523.6 | 526.1 | 528.1 | 529.8 | 531.3 | 533.0 | 534.8 | 536.7 | 538.6 | 540.3 | 541.9 | 543.7 | 545.4 | 548.3 |
| Proprietors' income with IVA and CCAdj | 606.1 25.1 581.0 | 658.5 31.4 627.1 | 634.0 33.7 600.3 | 637.3 33.6 603.7 | 641.6 33.7 608.0 | 640.9 30.1 610.8 | 648.4 30.1 618.4 | 646.6 27.3 619.4 | 670.8 45.0 625.8 | 653.7 23.5 630.2 | 657.8 21.4 636.4 | 650.6 18.0 632.5 | 684.1 45.3 638.7 | 694.6 46.8 647.8 | 675.8 22.4 653.4 | 681.4 22.7 658.7 |
| Rental income of persons with CCAdj | 137.4 | 145.9 | 146.7 | 147.6 | 148.8 | 149.3 | 148.6 | 147.3 | 150.5 | 144.9 | 143.6 | 128.5 | 148.1 | 149.0 | 144.1 | 143.5 |
| Personal dividend income | 348.3 | 364.3 | 353.2 | 354.6 | 356.0 | 357.6 | 359.3 | 361.2 | 363.0 | 364.9 | 367.0 | 369.0 | 371.1 | 373.1 | 375.2 | 377.5 |
| Personal interest income | 897.8 | 930.5 | 906.2 | 905.8 | 906.8 | 909.6 | 914.3 | 921.0 | 926.2 | 932.4 | 938.8 | 945.3 | 950.8 | 955.6 | 960.1 | 964.3 |
| Transfer payments to persons Old-age, survivors, disability, and health insurance benefits Government unemployment insurance benefits Other | 983.6 578.1 19.8 385.7 | 1,018.1 596.4 20.3 401.4 | 995.1 583.7 20.6 390.7 | 1,004.7 587.4 20.4 396.9 | 1,006.6 588.6 20.4 397.5 | 1,012.0 590.5 20.7 400.8 | 1,011.3 592.0 20.4 398.9 | 1,013.0 592.5 20.1 400.3 | 1,016.4 594.5 20.4 401.5 | 1,017.8 596.8 20.2 400.8 | 1,022.6 599.4 20.4 402.8 | 1,023.6 600.8 20.1 402.8 | 1,027.9 604.2 19.8 403.9 | 1,027.3 602.4 20.0 404.9 | 1,034.0 607.4 20.4 406.2 | 1,044.4 616.0 20.0 408.3 |
| Less: Personal contributions for social insurance | 315.9 | 334.6 | 323.1 | 327.7 | 329.3 | 329.6 | 331.1 | 332.3 | 333.7 | 335.7 | 336.6 | 337.8 | 339.3 | 340.0 | 341.8 | 346.3 |

P Preliminary.

IVA Inventory valuation adjustment. Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Table B.2. — The Disposition of Personal Income

[Monthly estimates seasonally adjusted at annual rates]

| | | 1999 | 1998 | | | | | | 19 | 99 | | | | | | 2000 |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 1998 | | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. r | Nov." | Dec. | Jan.P |
| | Billions of dollars, unless otherwise indicated | | | | | | | | | | | | | | | |
| Personal income | 7,358.9 | 7,791.0 | 7,554.5 | 7,599.0 | 7,636.4 | 7,655.3 | 7,692.7 | 7,721.8 | 7,783.3 | 7,806.0 | 7,840.0 | 7,848.1 | 7,941.4 | 7,973.2 | 7,994.2 | 8,052.8 |
| Less: Personal tax and nontax payments | 1,072.6 | 1,151.9 | 1,122.8 | 1,124.0 | 1,128.3 | 1,122.2 | 1,129.3 | 1,139.4 | 1,149.5 | 1,159.5 | 1,151.0 | 1,170.7 | 1,175.8 | 1,181.3 | 1,192.4 | 1,189.5 |
| Equals: Disposable personal income | 6,286.2 | 6,639.0 | 6,431.7 | 6,475.0 | 6,508.1 | 6,533.1 | 6,563.5 | 6,582.4 | 6,633.8 | 6,646.5 | 6,689.0 | 6,677.4 | 6,765.6 | 6,791.9 | 6,801.9 | 6,863.3 |
| Less: Personal outlays | 6,056.6 | 6,483.5 | 6,228.3 | 6,256.6 | 6,309.0 | 6,365.4 | 6,390.6 | 6,425.6 | 6,459.6 | 6,485.7 | 6,537.7 | 6,571.0 | 6,606.5 | 6,661.6 | 6,732.4 | 6,767.4 |
| Personal consumption expenditures | 5,848.6 698.2 1,708.9 3,441.5 | 6,257.3 758.6 1,842.7 3,656.0 | 6,010.5 734.8 1,754.6 3,521.1 | 6,038.0 721.4 1,771.2 3,545.4 | 6,089.3 741.9 1,790.6 3,556.8 | 6,145.0 753.8 1,801.6 3,589.6 | 6,168.4 745.0 1,818.3 3,605.1 | 6,202.1 752.0 1,826.3 3,623.8 | 6,231.8 757.8 1,829.8 3,644.1 | 6,259.1 753.1 1,836.4 3,669.5 | 6,309.9 765.7 1,854.9 3,689.2 | 6,342.2 766.6 1,870.4 3,705.1 | 6,376.1 767.0 1,883.5 3,725.6 | 6,428.9 784.9 1,895.8 3,748.2 | 6,497.5 794.1 1,933.5 3,769.9 | 6,530.5 799.8 1,926.7 3,804.1 |
| Interest paid by persons Personal transfer payments to the rest of the world (net) | 185.7 22.3 | 201.7 24.4 | 194.4 23.3 | 195.2 23.5 | 196.2 23.5 | 196.9 23.5 | 197.6 24.6 | 198.9 24.6 | 203.3 24.6 | 202.1 24.5 | 203.3 24.5 | 204.4 24.5 | 205.3 25.1 | 207.6 25.1 | 209.8 25.1 | 211.8 25.1 |
| Equals: Personal saving | 229.7 | 155.5 | 203.4 | 218.4 | 199.1 | 167.8 | 172.9 | 156.8 | 174.2 | 160.8 | 151.4 | 106.4 | 159.1 | 130.3 | 69.5 | 95.9 |
| Addenda: Disposable personal income: Billions of chained (1996) dollars ¹ Per capita: Current dollars Chained (1996) dollars Population (thousands) | 6,125.1 23,231 22,636 270,595 | 6,367.2 24,304 23,309 273,161 | 6,234.3 23,663 22,937 271,803 | 6,261.2 23,808 23,022 271,965 | 6,291.1 23,915 23,117 272,136 | 6,315.5 23,989 23,190 272,335 | 6,308.3 24,082 23,145 272,551 | 6,328.2 24,131 23,200 272,771 | 6,380.9 24,299 23,372 273,011 | 6,377.8 24,323 23,340 273,260 | 6,403.5 24,455 23,411 273,520 | 6,373.3 24,390 23,280 273,773 | 6,443.9 24,692 23,517 274,005 | 6,461.9 24,769 23,565 274,209 | 6,460.4 24,788 23,544 274,399 | 6,503.9 24,997 23,688 274,562 |
| Personal consumption expenditures: Billions of chained (1996) dollars Durable goods Nondurable goods Services Implicit price deflator, 1996–100 | 5,698.6 731.5 1,685.3 3,284.5 102.63 | 6,000.9 815.7 1,775.8 3,417.4 104.27 | 5,826.1 779.2 1,721.6 3,331.2 103.17 | 5,838.6 766.7 1,732.3 3,344.2 103.42 | 5,886.3 791.1 1,752.8 3,349.3 103.45 | 5,940.3 808.6 1,763.6 3,376.2 103.45 | 5,928.6 796.6 1,755.4 3,383.2 104.05 | 5,962.6 806.4 1,765.1 3,398.3 104.02 | 5,994.2 815.3 1,770.5 3,416.2 103.96 | 6,006.0 810.8 1,771.9 3,430.3 104.21 | 6,040.5 826.0 1,782.6 3,440.3 104.46 | 6,053.3 826.9 1,783.3 3,451.3 104.77 | 6,072.9 828.8 1,792.5 3,459.8 104.99 | 6,116.5 849.3 1,805.7 3,471.8 105.11 | 6,171.3 861.7 1,833.7 3,487.3 105.28 | 6,188.6 868.9 1,824.8 3,506.7 105.53 |
| Personal saving as percentage of disposable personal income 2 | 3.7 | 2.3 | 3.2 | 3.4 | 3.1 | 2.6 | 2.6 | 2.4 | 2.6 | 2.4 | 2.3 | 1.6 | 2.4 | 1.9 | 1.0 | 1.4 |
| | | | | | Perce | ent change | from prec | eding perio | d, monthly | changes a | at monthly | rates | | | | |
| Personal income, current dollars | 5.9 | 5.9 | 0 | 0.6 | 0.5 | 0.2 | 0.5 | 0.4 | 0.8 | 0.3 | 0.4 | 0.1 | 1.2 | 0.4 | 0.3 | 0.7 |
| Disposable personal income: Current dollars | 5.1 4.1 | 5.6 4.0 | 2 3 | .7 .4 | .5 .5 | .4 .4 | .5 1 | .3 .3 | .8 .8 | o.2 | .6 .4 | 2 5 | 1.3 1.1 | .4 .3 | o.1 | .9 .7 |
| Personal consumption expenditures: Current dollars Chained (1996) dollars | 5.9 4.9 | 7.0 5.3 | .8 .7 | .5 .2 | .9 .8 | .9 .9 | .4 2 | .5 .6 | .5 .5 | .4 .2 | .8 .6 | .5 .2 | .5 .3 | .8 .7 | 1.1 .9 | .5 .3 |

P Preliminary.
P Revised.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

CCAdj Capital consumption adjustment.

Disposable personal income in chained (1996) dollars equals the current-dollar figure divided by the implicit price deflator for personal consumption expenditures.

^{2.} Monthly estimates equal personal saving for the month as a percentage of disposable personal income for

Annual Estimates:

Except as noted, these tables are derived from the NIPA tables published in the December 1999 SURVEY OF CURRENT BUSINESS; they are consistent with the 1999 comprehensive revision.

"Table B.3.—Gross Domestic Product by Industry, Current-Dollar and Real Estimates" is not published in this issue. The table will be published when the estimates of gross domestic product by industry are revised to incorporate the results of the most recent comprehensive revision of the NIPA's. An article presenting the revised estimates of gross domestic product by industry is scheduled to be published in the May 2000 Survey.

Table B.4.—Personal Consumption Expenditures by Type of Expenditure

| | Billi | Billions of dollars | | | ns of cha | | | Billie | ons of dol | lars | Billion | ns of cha | ined |
|--|---|--|--|---|--|--|--|--|--|---|--|--|---|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Personal consumption expenditures | 5,237.5 | 5,524.4 | 5,848.6 | 5,237.5 | 5,433.7 | 5,698.6 | Brokerage charges and investment counseling (s.) | 43.2 | 50.9 | 59.2 | 43.2 | 51.1 | 60.9 |
| Food and tobacco Food purchased for off-premise consumption (n.d.) Purchased meals and beverages \(^1\) (n.d.) Food produced to employees (including military) (n.d.) Food produced and consumed on farms (n.d.) | 834.1 476.7 300.5 8.2 | 866.3 489.5 318.5 8.5 | 907.4 509.4 334.7 8.8 | 834.1 476.7 300.5 8.2 | 846.2 480.5 309.8 8.3 | 866.2 494.0 317.6 8.4 | box rental (s.) Services furnished without payment by financial intermediaries except life insurance carriers (s.) Expense of handling life insurance and pension plans 17 | 42.9 177.0 | 47.9 203.3 | 55.7 218.4 | 42.9 177.0 | 45.7 203.1 | 51.7 215.5 |
| Tobacoo products (n.d.) Addenda: Food excluding alcoholic beverages (n.d.) Alcoholic beverages purchased for off- premise consumption (n.d.) | .5 48.2 689.1 56.1 | 49.3 715.2 58.3 | 54.0 745.2 61.3 | 48.2 689.1 56.1 | 47.1 699.7 57.4 | 45.8 716.5 60.0 | (s.) Legal services (s.) Funeral and burial expenses (s.) Other 18 (s.) | 81.3 51.5 14.5 24.8 | 89.0 55.0 15.3 26.9 | 91.3 58.5 16.0 29.5 | 81.3 51.5 14.5 24.8 | 84.5 52.9 14.6 26.0 | 82.4 53.8 14.7 27.6 |
| Other alcoholic beverages (n.d.) Clothing, accessories, and jewelry Shoes (n.d.) Clothing and accessories except shoes 2 Women's and children's (n.d.) Men's and boys' (n.d.) Standard clothing issued to military personnel (n.d.) | 40.7 333.3 38.8 219.5 140.8 78.6 .3 | 43.5 348.2 40.0 230.9 147.7 83.2 | 46.9 367.9 41.6 244.4 155.6 88.8 .3 | 40.7 333.3 38.8 219.5 140.8 78.6 | 42.0 348.8 40.1 230.7 148.0 82.7 | 44.1 375.8 42.0 249.8 160.6 89.2 | Transportation User-operated transportation New autos (d.) Net purchases of used autos (d.) Other motor vehicles (d.) Tires, ubes, accessories, and other parts (d.) Repair, greasing, washing, parking, storage, rental, and | 594.6 550.2 81.9 51.4 84.3 38.7 | 623.7 575.6 82.8 53.4 87.2 39.7 | 647.4 598.0 90.6 55.5 101.4 41.7 | 594.6 550.2 81.9 51.4 84.3 38.7 | 616.4 570.3 82.7 54.8 86.4 39.9 | 653.8 606.1 91.2 57.6 100.6 42.3 |
| Cleaning, storage, and repair of clothing and shoes (s.) Jewelry and watches (d.) Other ³ (s.) | 12.7 40.3 21.7 | 13.5 41.2 22.3 | 13.4 44.2 24.0 | 12.7 40.3 21.7 | 13.2 42.8 21.8 | 12.9 47.7 23.2 | leasing (s.) Gasoline and oil (n.d.) Bridge, tunnel, ferry, and road tolls (s.) Insurance ¹⁹ (s.) Burdsead lengt transportation | 134.2 124.2 3.7 31.8 11.2 | 145.9 126.2 4.0 36.3 11.8 | 153.8 112.9 4.4 37.8 | 134.2 124.2 3.7 31.8 11.2 | 143.9 126.2 3.9 32.5 11.6 | 149.0 127.7 3.9 33.6 12.0 |
| Personal care Toilet articles and preparations (n.d.) Barbershops, beauty parfors, and health clubs (s.) Housing | 71.6 48.0 23.5 772.5 | 76.1 50.6 25.5 809.8 | 80.5 53.8 26.8 855.9 | 71.6 48.0 23.5 772.6 | 75.1 50.5 24.6 786.5 | 78.2 52.9 25.4 805.6 | Purchased local transportation Mass transit systems (s.) Taxicab (s.) Purchased intercity transportation Raliway (s.) | 7.7 3.5 33.3 .6 | 8.1 3.7 36.3 | 12.1 8.4 3.7 37.2 .7 | 7.7 3.5 33.3 | 8.0 3.6 34.5 | 8.3 3.7 35.7 |
| Owner-occupied nonfarm dwellingsspace rent * (s.) | 555.4 180.6 6.2 30.2 | 585.5 186.0 6.4 31.9 | 622.6 193.6 6.6 33.1 | 555.4 180.6 6.2 30.2 | 569.0 180.9 6.0 30.6 | 586.6 182.6 5.9 30.5 | Bus (s.) Airline (s.) Other 20 (s.) | 1.8 26.2 4.7 | 1.8 29.0 4.7 | 2.0 29.5 5.1 | 1.8 26.2 4.7 | 1.8 27.4 4.6 | 1.8 28.3 4.9 |
| Household operation Furniture, including mattresses and bedsprings (d.) | 589.2 50.9 30.0 25.4 | 617.5 54.1 30.9 27.1 | 646.5 57.0 32.3 29.2 | 589.2 50.9 30.0 25.4 | 611.2 54.2 31.0 27.3 | 643.7 57.2 32.9 28.9 | Recreation Books and maps (d.) Magazines, newspapers and sheet music (n.d.) Nondurable toys and sport supplies (n.d.) Wheel goods, sports and photographic equipment, boats, | 429.6 24.9 27.6 50.6 | 457.8 26.6 29.5 53.7 | 494.7 27.8 31.9 57.7 | 429.6 24.9 27.6 50.6 | 464.6 26.3 29.2 54.2 | 512.2 26.8 30.9 61.1 |
| Other durable house furnishings * (d.) Semidurable house furnishings * (n.d.) Cleaning and polishing preparations, and miscellaneous household supplies and paper products (n.d) | 50.5 31.0 49.8 | 53.4 32.6 51.5 | 57.6 34.6 54.3 | 50.5 31.0 49.8 | 53.1 33.3 51.0 | 57.1 36.2 52.9 | and pleasure aircraft (d.) Video and audio goods, including musical instruments, and computer goods (d.) Video and audio goods, including musical instruments | 40.5 80.0 | 43.2 84.0 | 47.1 92.6 | 40.5 80.0 | 43.4 97.0 | 47.9 124.5 |
| Stationery and writing supplies (n.d.) Household utilities Electricity (s.) Gas (s.) Water and other sanitary services (s.) Fuel oil and goal (n.d.) | 18.8 185.0 93.3 35.5 40.7 15.6 97.1 | 20.0 188.6 93.8 36.6 43.0 15.2 103.9 | 21.3 186.8 95.9 32.2 45.4 13.2 113.1 | 18.8 185.0 93.3 35.5 40.7 15.6 97.1 | 19.1 184.6 93.3 34.2 42.0 15.1 103.7 | 19.9 187.1 99.3 30.7 42.9 14.5 114.6 | (d.) | 56.4 23.6 3.7 14.9 20.7 5.8 | 57.8 26.2 3.9 15.6 22.2 6.4 | 62.2 30.4 3.9 16.5 23.8 6.8 | 56.4 23.6 3.7 14.9 20.7 5.8 | 60.3 38.1 3.8 16.1 21.6 6.2 | 68.2 63.9 3.8 16.8 22.6 6.5 |
| Telephone and telegraph (s.) Domestic service (s.) Other 1º (s.) Medical care Drug preparations and sundries 11 (n.d.) Ophthalmic products and orthopedic appliances (d.) Physicians (s.) | 13.6 37.1 932.3 100.3 17.6 199.1 | 13.8 41.6 977.6 108.1 19.4 206.9 | 16.0 44.2 1,032.3 116.8 21.2 219.6 | 13.6 37.1 932.3 100.3 17.6 199.1 | 13.5 40.4 956.6 106.5 19.1 204.1 | 15.2 42.1 987.4 112.6 20.5 212.2 | nonprofit institutions (except athletics) (s.) Spectator sports ²¹ (s.) Clubs and fraternal organizations ²² (s.) Commercial participant amusements ²³ (s.) Pari-mutuel net receipts (s.) Other ²⁴ (s.) | 8.0 6.9 14.0 48.3 3.5 100.8 | 8.7 7.1 14.4 52.3 3.6 109.0 | 9.4 7.6 14.9 56.2 3.7 118.6 | 8.0 6.9 14.0 48.3 3.5 100.8 | 8.4 6.9 14.1 51.1 3.5 105.1 | 8.9 7.2 14.1 53.8 3.5 110.8 |
| Dentists (s.) Other professional services ¹² (s.) Hospitals and nursing homes ¹³ Hospitals Nonprofit (s.) | 48.4 119.7 390.8 327.6 213.5 | 52.0 125.1 408.5 341.9 221.3 | 54.8 131.8 428.4 357.1 230.6 | 48.4 119.7 390.8 327.6 213.5 | 49.7 120.4 400.8 336.5 216.9 | 50.2 123.8 410.4 344.3 219.8 | Education and research Higher education ²⁵ (s.) Nursery, elementary, and secondary schools ²⁶ (s.) Other ²⁷ (s.) | 122.3 66.1 27.4 28.8 | 130.7 69.2 29.0 32.4 | 139.2 71.8 30.1 37.3 | 122.3 66.1 27.4 28.8 | 126.1 66.7 28.1 31.4 | 130.1 66.7 28.3 35.2 |
| Proprietary (s.) Government (s.) Nursing homes (s.) | 38.7 75.4 63.2 56.6 45.3 | 41.6 79.0 66.7 57.6 46.9 | 43.3 83.2 71.3 59.8 49.7 | 38.7 75.4 63.2 56.6 45.3 | 41.3 78.3 64.3 56.0 45.0 | 42.7 81.9 66.2 57.9 46.3 | Religious and welfare activities ²⁸ (s.) Foreign travel and other, net Foreign travel by U.S. residents ²⁹ (s.) Expenditures abroad by U.S. residents (n.d.) Less: Expenditures in the United States by | 146.8 -24.1 57.6 2.2 | 150.3 -21.8 63.4 2.9 | 163.5 -15.3 68.2 3.7 | 146.8 -24.1 57.6 2.2 | -20.7 62.3 3.3 | 154.7 11.8 68.5 4.1 |
| Medical care and hospitalization ¹⁴ (s.) Income loss ¹⁵ (s.) Workers' compensation ¹⁶ (s.) Personal business | 1.0 10.3 435.1 | 1.2 9.6 488.3 | 1.4 8.7 528.6 | 1.0 10.3 435.1 | 1.0 10.0 477.5 | 1.1 10.5 505.5 | nonresidents ³⁰ (s.) | 82.4 1.5 | 86.5 1.6 | 85.4 1.6 | 82.4 1.5 .1 | 84.7 1.6 3.2 | 82.7 1.6 –17.3 |

Consists of purchases (including tips) of meals and beverages from retail, service, and amusement establishments, hotels, dining and buffet cars, schools, school fraternities, institutions, clubs, and industrial lunchrooms. Includes meals and beverages consumed both on- and off-premise.
 Includes tuggage.
 Consists of watch, clock, and jewelry repairs, costume and dress suit rental, and miscellaneous personal services.

11. Excludes drug preparations and related products dispensed by physicians, hospitals, and other medical services.

12. Consists of osteopathic physicians, chiropractors, private duty nurses, chiropodists, podiatrists, and others providing health and allied services, not elsewhere classified.

13. Consists of (1) current expenditures (including consumption of fixed capital) of nonprofit hospitals and nursing homes, and (2) payments by patients to proprietary and government hospitals and nursing homes.

14. Consists of (1) premiums, less benefits and dividends, for health, hospitalization, and accidental death and dismemberment insurance provided by commercial insurance carriers, and (2) administrative expenses (including consumption of fixed capital) of nonprofit and self-insured health plans.

15. Consists of premiums, less benefits and dividends, for income loss insurance.

16. Consists of premiums, less benefits and dividends, for privately administered workers' compensation.

17. Consists of (1) operating expenses of commercial life insurance carriers, (2) administrative expenses of private noninsured pension plans and publicly administered government employee retirement plans, and (3) premiums, less benefits and dividends, of Iraternal benefit societies. For commercial life insurance carriers, excludes expenses for accident and health insurance and includes profits of stock companies and services furnished without payment by banks, credit agencies, and investment companies.

18. Consists of current expenditures (including consumption of fixed capital) of trade unions and professional associations, employment agency fees, money order fees, spending for classified advertisements, tax return preparation

services, and other personal business services.

19. Consists of premiums, less benefits and dividends, for motor vehicle insurance.

20. Consists of baggage charges, coastal and inland waterway fares, travel agents' fees, and airport bus fares.

21. Consists of admissions to professional and amaleur athletic events and to racetracks.

22. Consists of dues and fees excluding insurance premiums.

23. Consists of billiard partors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; golf courses; sightseeing buses and guides; private flying operations; casino gambling; and other commercial participant amusements.

24. Consists of net receipts of lotteries and expenditures for purchases of pets and pet care services, cable TV, film processing, photographic studios, sporting and recreation camps, video cassette rentals, and recreational services, not elsewhere classified.

25. For private institutions, equals current expenditures (including consumption of fixed capital) less receipts—such as those from meals, rooms, and entertainments—accounted for separately in consumer expenditures, and less expenditures for research and development financed under contracts or grants. For government institutions, ease experiorities in research and development inflanced under contracts on grants. For government institutions, equals student payments of futition.

26. For private institutions, equals current expenditures (including consumption of fixed capital) less receipts—such as those from meals, rooms, and entertainments—accounted for separately in consumer expenditures. For government institutions, equals student payments of tuition. Excludes child day care services, which are included in religious and welfare activities.

27. Consists of (1) fees paid to commercial, business, trade, and correspondence schools and for educational

religious and welfare activities.

27. Consists of (1) fees paid to commercial, business, trade, and correspondence schools and for educational services, not elsewhere classified, and (2) current expenditures (including consumption of fixed capital) by research organizations and foundations for education and research.

28. For nonprofit institutions, equals current expenditures (including consumption of fixed capital) of religious, social welfare, foreign relief, and political organizations, museums, libraries, and foundations. The expenditures are net of receipts such as those from meals, rooms, and entertainments accounted for separately in consumer expenditures, and excludes relief payments within the United States and expenditures by foundations for education and research. For proprietary and government institutions, equals receipts from users.

29. Beginning with 1981, includes U.S. students' expenditures abroad; these expenditures were \$0.3 billion in 1981.

Beginning with 1981, includes nonresidents' student and medical care expenditures in the United States; student expenditures were \$2.2 billion and medical expenditures were \$0.4 billion in 1981.

NOTE.—Consumer durable goods are designated (d.), nondurable goods (n.d.), and services (s.).

Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

^{3.} Consists of watch, clock, and jewelry repairs, costume and dress surt rentar, and miscenarious personal services.

4. Consists of rent for space and for heating and plumbing facilities, water heaters, lighting fixtures, kitchen cabinets, linoleum, storm windows and doors, window screens, and screen doors, but excludes rent for appliances and furniture and purchases of fuel and electricity.

5. Consists of space rent (see footnote 4) and rent for appliances, furnishings, and furniture.

6. Consists of transient hotels, motels, clubs, schools, and other group housing.

7. Consists of refrigerators and freezers, cooking ranges, dishwashers, laundry equipment, stoves, room air conditioners, sewing machines, vacuum cleaners, and other appliances.

8. Includes such house furnishings as floor coverings, comforters, quilts, blankets, pillows, picture frames, mirrors, art products, portable lamps, and clocks. Also includes writing equipment and hand, power, and garden tools.

9. Consists largely of textile house furnishings, including piece goods allocated to house furnishing use. Also includes lamp shades, brooms, and brushes.

10. Consists of maintenance services for appliances and house furnishings, moving and warehouse expenses, postage and express charges, premiums for fire and theft insurance on personal property less benefits and dividends, and miscellaneous household operation services.

11. Excludes drug preparations and related products dispensed by physicians, hospitals, and other medical services.

Table B.5.—Private Fixed Investment in Structures by Type

| | Billio | ons of do | llars | | ns of cha | |
|---|---|---|---|---|--|---|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Private fixed investment in structures | 530.6 | 575.4 | 633.2 | 530.6 | 556.8 | 595.8 |
| Nonresidential New Nonresidential buildings, excluding farm Industrial Commercial Office buildings Other Religious Educational Hospital and institutional Other Utilities Railroads Telecommunications Electric light and power Gas Petroleum pipelines Farm Mining exploration, shafts, and wells Petroleum and natural gas Other Other The Commissions on sale of | 225.0 224.6 158.0 32.7 78.7 32.4 46.3 4.4 7.7 13.1 21.4 36.0 4.4 11.7 11.3 7.6 1.0 3.7 21.1 19.4 1.7 5.8 | 254.1 252.9 177.1 31.4 89.7 39.9 49.8 5.6 9.8 15.1 25.5 36.5 4.9 12.6 11.3 6.6 1.0 3.8 30.0 28.3 1.7 5.5 | 272.8 272.6 193.1 32.3 100.0 48.3 51.7 6.5 10.8 15.2 28.2 39.2 51.3 11.7 6.6 1.3 3.9 30.0 20.0 6.4 | 225.0 224.6 158.0 32.7 78.7 32.4 46.3 4.4 7.7 13.1 21.4 36.0 4.4 11.7 11.3 7.6 1.0 3.7 21.1 15.8 | 244.0 242.8 171.6 30.4 86.9 38.7 45.4 9.5 14.6 9.5 12.4 11.1 6.9 3.7 26.4 24.7 16.5 3.7 | 254.1 253.9 180.9 93.8 45.3 48.5 6.1 10.2 14.3 26.4 38.0 5.1 11.2 6.3 1.2 3.6 25.4 23.5 6.0 |
| structures | 1.8 -1.4 | 2.0 8 | 2.2 -2.0 | 1.8 -1.4 | 2.0 8 | 2.1 -1.9 |
| Residential New New housing units Permanent site Single-family structures Multifamily structures Manufactured homes Improvements Other 5 Brokers' commissions on sale of | 305.6 269.8 192.2 179.4 159.1 20.3 12.8 77.0 .6 | 321.3 282.1 200.8 187.3 164.4 22.9 13.5 80.5 | 360.4 314.4 229.1 213.9 189.5 24.5 15.2 84.4 .9 | 305.6 269.8 192.2 179.4 159.1 20.3 12.8 77.0 .6 | 312.7 273.8 194.9 181.7 159.8 21.9 13.3 78.1 | 341.8 297.5 216.7 202.0 180.3 21.8 14.7 79.9 |
| Structures | 37.5 –1.7 | 41.7 -2.5 | 49.0 -3.0 | 37.5 -1.7 | 41.4 -2.4 | 47.3 2.9 |
| Residual | <u> </u> | | | 0 | .2 | 3 |

^{1.} Consists of office buildings, except those constructed at industrial sites and those constructed by utilities for

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

Table B.6.—Private Fixed Investment in Equipment and Software by Type

| | Billio | ns of do | ollars | | s of cha 96) dolla | |
|---|--------|----------|--------|-------|-----------------------|-------|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Private fixed investment in equipment and software | 682.1 | 739.9 | 826.8 | 682.1 | 759.7 | 879.0 |
| Nonresidential equipment and software | 674.4 | 732.1 | 818.5 | 674.4 | 751.9 | 870.6 |
| Information processing equipment and software | 287.3 | 315.4 | 356.9 | 287.3 | 339.4 | 418.5 |
| Information processing equipment and software Computers and peripheral equipment 1 | 70.9 | 76.7 | 88.5 | 70.9 | 99.0 | 154.2 |
| Software 2 | 95.1 | 106.6 | 123.4 | 95.1 | 109.4 | 129.2 |
| Software 2 Communication equipment | 65.6 | 73.0 | 83.6 | 65.6 | 73.8 | 85.9 |
| Instruments | 33.3 | 35.0 | 36.3 | 33.3 | 34.8 | 36.1 |
| Photocopy and related equipment | 14.7 | 15.8 | 15.2 | 14.7 | 15.7 | 15.4 |
| Office and accounting equipment | 7.8 | 8.3 | 9.8 | 7.8 | 8.4 | 9.8 |
| Industrial equipment | 136.4 | 142.3 | 150.2 | 136.4 | 141.3 | 148.1 |
| Fabricated metal products | 13.4 | 13.2 | 14.0 | 13.4 | 13.1 | 13.9 |
| Engines and turbines | 4.3 | 3.5 | 4.3 | 4.3 | 3.5 | 4.2 |
| Metalworking machinery | 31.7 | 35.0 | 36.4 | 31.7 | 34.9 | 36.0 |
| Special industry machinery, n.e.c | 34.6 | 35.2 | 35.7 | 34.6 | 34.9 | 35.0 |
| General industrial, including materials handling, | • | **** | | • | | |
| equipment | 31.6 | 33.5 | 36.8 | 31.6 | 33.1 | 36.1 |
| Electrical transmission, distribution, and | •• | 00.0 | 00.0 | 0 | • | •••• |
| industrial apparatus | 20.9 | 21.9 | 23.0 | 20.9 | 21.9 | 23.0 |
| industrial apparatus Transportation equipment | 138.9 | 150.9 | 176.0 | 138.9 | 149.6 | 175.3 |
| Trucks, buses, and truck trailers | 77.9 | 87.0 | 97.0 | 77.9 | 87.4 | 98.5 |
| Autos | 41.3 | 41.7 | 40.5 | 41.3 | 40.2 | 39.0 |
| Aircraft | 12.2 | 14.4 | 28.0 | 12.2 | 14.2 | 27.5 |
| Ships and boats | 2.2 | 2.2 | 3.0 | 2.2 | 2.2 | 2.9 |
| Railroad equipment | 5.4 | 5.6 | 7.5 | 5.4 | 5.7 | 7.6 |
| Other equipment | 116.5 | 128.0 | 140.5 | 116.4 | 126.7 | 137.9 |
| Furniture and fixtures | 27.6 | 31.2 | 33.7 | 27.6 | 30.7 | 33.0 |
| Tractors | 10.6 | 11.4 | 12.1 | 10.6 | 11.4 | 12.0 |
| Agricultural machinery, except tractors | 11.4 | 12.2 | 12.9 | 11.4 | 12.1 | 12.6 |
| Construction machinery, except tractors | 17.3 | 19.6 | 22.4 | 17.3 | 19.2 | 21.6 |
| Mining and oilfield machinery | 2.8 | 3.1 | 4.6 | 2.8 | 3.0 | 4.5 |
| Service industry machinery | 14.2 | 14.4 | 15.7 | 14.2 | 14.2 | 15.3 |
| Electrical equipment, n.e.c. | 10.6 | 11.6 | 12.8 | 10.6 | 11.8 | 13.1 |
| Other | 21.9 | 24.5 | 26.2 | 21.9 | 24.3 | 25.8 |
| Less: Sale of equipment scrap, excluding autos | 4.6 | 4.5 | 4.9 | 4.6 | 4.4 | 5.7 |
| Residential equipment | 7.7 | 7.9 | 8.3 | 7.7 | 7.9 | 8.4 |
| Residual | | | | 3 | -2.7 | -15.9 |
| Addenda: | | | | | | |
| Private fixed investment in equipment and | | | | | 1 | l |
| software | 682.1 | 739.9 | 826.8 | | | |
| Less: Dealers' margin on used equipment | 7.0 | 7.4 | 8.3 | | | |
| Net purchases of used equipment from | 1 | | | | | l |
| government | .8 | .9 | .9 | | | |
| Plus: Net sales of used equipment | 38.4 | 38.9 | 40.7 | | | |
| Net exports of used equipment | .4 | .4 | .7 | | | |
| Sale of equipment scrap | 4.7 | 4.6 | 5.0 | | | |
| Equals: Private fixed investment in new | 717.7 | 775.7 | | | | |
| equipment and software | | | | | | |

1. Includes new computers and peripheral equipment only.
 2. Excludes software "embedded," or bundled, in computers and other equipment.
 NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.
 n.e.c. Not elsewhere classified.

^{1.} Consists of office buildings, except mose constructed at industrial situs and unuse constructed by dishere on use.
2. Consists of stores, restaurants, garages, service stations, warehouses, mobile structures, and other buildings used for commercial purposes.
3. Consists of hotels and motels, buildings used primarily for social and recreational activities, and buildings not elsewhere classified, such as passenger terminals, greenhouses, and animal hospitals.
4. Consists primarily of streets, dams and reservoirs, sewer and water facilities, parks, and airfields.
5. Consists primarily of domitories and of fraternity and sorority houses.

More —Chained (1006) dellar coince are religibled as the product of the chain-type quantity index and the 1996.

Table B.7.—Compensation and Wage and Salary Accruals by Industry [Millions of dollars]

| | | | | | | [iviiiiOi10 | or dollarsj | | | | | | |
|--|------------------------|--------------------|--------------------|------------------------|--------------------|--------------------|--|---------------------|---------------------|--------------------------|------------------------|------------------------|-------------------------|
| | | Compensatio | n | Wage a | and salary a | ccruals | ' | | compensation | n | Wage a | and salary a | ocruals |
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Total | 4,395,585 | 4,675,738 | 5,011,190 | 3,630,142 | 3,884,713 | 4,189,515 | Communications Telephone and telegraph | 75,252 56,822 | 81,897 62,125 | 90,050 67,911 | 62,060 46,612 | 68,038 51,332 | 75,333 56,507 |
| Domestic industries | 4,400,135 | 4,680,700 | 5,016,446 | 3,634,692 | 3,889,675 | 4,194,771 | Radio and television Electric, gas, and sanitary services | 18,430 53,233 | 19,772 54,297 | 22,139 55,956 | 15,448 43,920 | 16,706 45,031 | 18,826 46,628 |
| Private industries | 3,550,510 | 3,803,231 | 4,106,570 | 2,993,688 | 3,225,229 | 3,501,946 | Wholesale trade | 288,768 | 310,227 | 335.441 | 246,699 | 265,850 | 288.598 |
| Agriculture, forestry, and fishing | 39,815 16,576 | 42,742 17,470 | 46,353 18,580 | 34,570 14,184 | 37,392 15,048 | 40,880 16,223 | Retail trade | 398,276 | 420,173 | 446.621 | 345,115 | 365,733 | 390,983 |
| Farms | 23,239 | | 27,773 | i ' | 1 | 24.657 | | | | , | 300,446 | | 366,882 |
| fishing | - | 25,272 | | 20,386 | 22,344 | | Finance, Insurance, and real estate Depository institutions | 351,798 82,740 | 381,762 87,268 | 425,875 93,358 | 69,505 | 73,602 | 79,042 |
| Mining Metal mining | 33,365 3,202 | 35,490 3,247 | 36,283 3,064 | 27,796 2,619 | 29,702 2,672 | 30,482 2,522 | Nondepository institutions | 25,330 72,063 | 30,143 80,219 | 38,764 92,271 | 21,267 64,026 | 25,501 71,282 | 33,035 82,344 |
| Coal miningOil and gas extraction | 5,736 19,670 | 5,689 21,519 | 5,573 22,295 | 4,728 16,495 | 4,714 18,106 | 4,628 18,838 | Insurance carriers Insurance agents, brokers, and | 75,441 | 79,756 | 86,740 | 63,367 | 67,301 | 73,464 |
| Nonmetallic minerals, except fuels | 4,757 | 5,035 | 5,351 | 3,954 | 4,210 | 4,494 | serviceReal estate | 32,424 44,526 | 35,006 48,461 | 36,994 54,353 | 28,034 37,978 | 30,389 41,581 | 32,181 46,846 |
| Construction | 208,199 | 227,184 | 248,958 | 172,199 | 189,379 | 209,700 | Holding and other investment offices | 19,274 | 20,909 | 23,395 | 16,269 | 17,750 | 19,970 |
| Manufacturing Durable goods | 822,405 508,042 | 867,598 540,144 | 914,904 573,894 | 675,087 416,305 | 715,009 443,950 | 757,707 474,133 | Services Hotels and other lodging places | 1,122,869 38,117 | 1,216,466 40,284 | 1,329,752 43,504 | 960,212 32,321 | 1,047,860 34.524 | 1,151,057 37,426 |
| Lumber and wood products | 24,805 15,682 | 26,172 | 27,697 | 20,448 | 21,739 13,848 | 23,098 | Personal services | 24,167 220,399 | 25,355 | 26,886 300,529 | 21,244 | 22,442 | 23,848 263,626 |
| Furniture and fixtures Stone, clay, and glass products | 22,820 | 16,664 23,737 | 18,138 25,161 | 12,956 18,556 | 19,425 | 15,156 20,695 | Business services Auto repair, services, and parking | 30,089 | 255,822 32,082 | 34,339 | 190,630 26,211 | 223,151 28,128 | 30,180 |
| Primary metal industries | 35,852 | 36,839 | 37,826 | 28,662 | 29,633 | 30,544 | Miscellaneous repair services | 12,050 | 12,460 | 13,337 | 10,443 | 10,877 | 11,672 |
| Fabricated metal productsIndustrial machinery and equipment | 59,626 103,632 | 62,803 112,597 | 65,925 120,168 | 48,438 86,419 | 51,361 94,488 | 54,184 101,317 | Motion pictures Amusement and recreation services | 17,976 36,934 | 20,225 39,947 | 21,723 43,554 | 15,599 31,670 | 17,739 34,649 | 19,069 37,893 |
| Electronic and other electric | | | | | 1 | | Health services | 365,617 | 383,237 | 399,740 | 303,697 | 319,388 | 335,207 |
| equipment Motor vehicles and equipment | 80,905 58,037 | 86,864 61,731 | 93,350 65,081 | 66,305 46,773 | 71,668 48,427 | 77,424 51,389 | Legal services | 55,150 | 62,541 | 67,700 62,609 | 47,851 46,493 | 54,931 49,702 | 59,561 53,998 |
| Other transportation equipment | 45,627 | 48,930 | 52,687 | 37,099 | 40,427 | 43,459 | Educational servicesSocial services and membership | 54,500 | 57,763 | 62,609 | 40,493 | 49,702 | 33,390 |
| Instruments and related products | 47,211 | 49,279 | 52,549 | 39,455 | 41,388 | 44,327 | organizations | 94,666 | 99,728 | 106,667 | 82,818 | 87,999 | 94,268 |
| Miscellaneous manufacturing industries | 13.845 | 14,528 | 15,312 | 11.194 | 11.840 | 12.540 | Social services Membership organizations | 47,894 46,772 | 51,109 48,619 | 55,606 51,061 | 40,468 42,350 | 43,668 44,331 | 47,698 46,570 |
| Nondurable goods | 314,363 | 327,454 | 341,010 | 258,782 | 271.059 | 283,574 | Other services 2 | 161,195 | 174,969 | 195,159 | 139,550 | 152,598 | 170,667 |
| Food and kindred products | 61,472 2,900 | 63,596 3,095 | 66,368 2,951 | 50,558 2,199 | 52,652 2,378 | 55,218 2,246 | Private households | 12,009 | 12,053 | 14,005 | 11,685 | 11,732 | 13,642 |
| Tobacco products Textile mill products | 18,623 | 19,176 | 19,171 | 15,612 | 16,142 | 16,196 | Government | 849.625 | 877,469 | 909.876 | 641.004 | 664,446 | 692.825 |
| Apparel and other textile products | 20,195 | 20,050 | 19,722 | 16,778 | 16,751 | 16.524 | Federal | 263,231 | 266,942 | 270,470 | 175,561 | 177,337 | 179,803 |
| Paper and allied products Printing and publishing | 32,978 61,849 | 33,860 65,098 | 34,511 68,925 | 27,566 51,835 | 28,427 54,831 | 29,087 58,353 | General government | 211,001 124,935 | 211,725 125,748 | 214,394 128,743 | 140,104 85,294 | 140,083 85,116 | 142,060 86,980 |
| Chemicals and allied products | 67,418 | 71,262 | 75,339 | 54.422 | 57,851 | 61,478 | Military 3 | 86,066 | 85,977 | 85,651 | 54,810 | 54,967 | 55,080 |
| Petroleum and coal products Rubber and miscellaneous plastics | 9,721 | 10,109 | 10,757 | 7,754 | 8,105 | 8,669 | Government enterprises | 52,230 586,394 | 55,217 | 56,076 639,406 | 35,457 465,443 | 37,254 487,109 | 37,743 513.022 |
| products | 36,524 | 38,530 | 40,638 | 29.817 | 31.672 | 33,590 | State and local | 548,416 | 610,527 571,835 | 599,389 | 434,766 | 455.669 | 480,277 |
| Leather and leather products | 2,683 | 2,678 | 2,628 | 2,241 | 2,250 | 2,213 | Education | 290,650 | 304.851 | 321,361 | 228,486 | 240,772 | 255,052 |
| Transportation and public utilities | 285.015 | 301.589 | 322,383 | 231.564 | 246.898 | 265.657 | Other | 257,766 37,978 | 266,984 38,692 | 278,028 40,017 | 206,280 30,677 | 214,897 31,440 | 225,225 32,745 |
| Transportation | 156,530 | 165,395 | 176,377 | 125.584 | 133,829 | 143,696 | | | | | | | |
| Railroad transportation Local and interurban passenger | 15,652 | 15,888 | 15,851 | 11,543 | 11,753 | 11,546 | Rest of the world | -4,550 1,756 | -4,962 1.802 | -5,256 1.856 | -4,550 1,756 | -4,962 1,802 | - 5,256 1,856 |
| transit | 10,053 | 10,520 | 11,211 | 8,366 | 8,857 | 9,496 | Less: Payments to the rest of the world 4 | 6,306 | 6,764 | 7,112 | 6,306 | 6,764 | 7,112 |
| Trucking and warehousing 1 | 58,494 7,873 | 62,333 8,358 | 66,698 8,797 | 47,074 | 50,678 | 54,671 7,325 | Addenda: | | ' | | | | |
| Water transportation Transportation by air ¹ | 7,873 48,637 | 51,162 | 55,213 | 6,463 38,839 | 6,912 41,143 | 7,325 44,826 | Households and institutions | 348,558 | 366,180 | 385.575 | | | |
| Pipelines, except natural gas | 971 | 995 | 997 | 816 | 839 | 847 | Nonfarm business | 3,275,584 | 3,513,490 | 3,798,508 | | | |
| Transportation services | 14,850 | 16,139 | 17,610 | 12,483 | 13,647 | 14,985 | | | | | | | |

Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
 Consists of museums, botanical and zoological gardens; engineering and management services; and services, not elsewhere classified.
 Includes Coast Guard.
 Includes estimates of foreign professional workers and undocumented Mexican migratory workers employed.

temporarily in the United States.

NOTE.—Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Compensation equals wage and salary accruals plus supplements to wages and salaries. "Supplements" are listed in table 8.17 of the December 1999 SURVEY OF CURRENT BUSINESS.

SURVEY OF CURRENT BUSINESS

Table B.8.—Employment by Industry [Thousands]

| | | | | | | [I nous | sanusj | | | | | | |
|---|-----------------|------------------------|---------------------|------------------------|--------------------------|-----------------------|--|-----------------------|-------------------------|---------------------|----------------|--------------------------------------|---------------------|
| | | me and pa employees | | | ons engage production | | | | ne and par employees | | | ons engage roduction ¹ | d in |
| _ | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Total | 127,009 | 130,085 | 133,378 | 123,824 | 126,757 | 129,549 | Pipelines, except natural gas | 14 431 | 14 | 14 471 | 14 434 | 14 | 14 |
| Domestic industries | 127,494 | 130,617 | 133,917 | 124,240 | 127,213 | 130,011 | Transportation services | 1,348 | 453 1,421 | 1,477 | 1,259 873 | 455 1,324 938 | 465 1,365 963 |
| Private industries | 105,559 | 108,583 | 111,702 | 105,912 | 108,798 | 111,461 | Telephone and telegraph | 936 412 882 | 1,003 418 870 | 1,045 432 858 | 386 878 | 386 865 | 402 850 |
| Agriculture, forestry, and fishing | 2,048 832 | 2,137 876 | 2,193 880 | 3,338 1,827 | 3,321 1,814 | 3,338 1,705 | Wholesale trade | 6,560 | 6.746 | 6,923 | 6,587 | 6,735 | 6,919 |
| Agricultural services, forestry, and fishing | 1,216 | 1,261 | 1,313 | 1,511 | 1,507 | 1,633 | Retail trade | 22,256 | 22,636 | 23.006 | 19.851 | 20,258 | 20,419 |
| Mining | 582 54 99 | 601 | 593 | 586 56 97 | 603 54 | 601 49 | Finance, insurance, and real estate | 7,053 | 7,256 | 7,539 | 7,310 | 7,424 | 7,636 |
| Coal mining | 99 | 54 97 | 93 | 97 | 95 | 93 | Depository institutions | 2,017 | 2,031 | 2,046 | 1,923 | 1.925 | 1,933 |
| Oil and gas extraction | 321 | 340 | 340 | 326 | 345 | 349 | Nondepository institutions | 514 | 575 | 664 | 507 | 1,925 564 | 645 |
| Nonmetallic minerals, except fuels | 108 | 110 | 111 | 107 | 109 | 110 | Security and commodity brokers | 581 1,505 | 630 | 681 1,576 | 646 1,449 | 679 1,463 | 732 1,503 |
| Construction | 5,671 | 5,964 | 6,297 | 6,950 | 7,254 | 7,603 | Insurance carriersInsurance agents, brokers, and service | 746 | 1,527 767 | 787 | 871 | 875 | 880 |
| Manufacturing | 18,579 | 18,770 | 18,935 | 18,576 | 18,774 | 18,944 | Real estate | 1,442 248 | 1,481 245 | 1,535 250 | 1,676 238 | 1,684 234 | 1,706 237 |
| Durable goods | 10,838 | 11,061 | 11,277 | 10,911 | 11,134 | 11,355 | riciding and other investment onices | 240 | 243 | 200 | 200 | | 201 |
| Lumber and wood products | 801 | 819 | 840 | 856 | 862 | 896 | Services | 36,517 | 38,006 | 39,545 | 36,396 | 37,956 | 39,353 |
| Furniture and fixtures | 506 | 513 | 535 566 | 521 561 | 530 563 | 544 | Hotels and other lodging places | 1,794 | 1,833 | 1,876 | 1,620 | 1,665 | 1,703 |
| Stone, clay, and glass products Primary metal industries | 546 708 | 555 710 | 566 714 | 561 706 | 563 706 | 569 710 | Personal services | 1,318 | 1,326 | 1,340 | 1,798 | 1,789 | 1,804 9,000 |
| Fabricated metal products | 1,453 | 1,485 | 1,517 | 1,447 | 1.481 | 1.514 | Business services Auto repair, services, and parking | 7,485 1,205 389 | 8,148 1,248 | 8,793 1,275 | 7,651 1,481 | 8,261 1,511 | 1 522 |
| Industrial machinery and equipment | 2,117 | 2,175 | 2,217 | 2,096 | 2,173 | 2,216 | Miscellaneous repair services | 389 | 389 | 395 | 569 | 582 | 1,522 591 |
| Electronic and other electric equipment | 1,660 | 1.693 | 1.709 | 1.655 | 1,682 | 1,699 | Motion pictures | 539 | 569 | 592 | 583 | 610 | 644 |
| Motor vehicles and equipment | 968 | 984 | 999 | 961 | 977 | 997 | Amusement and recreation services | 1,590 | 1,664 | 1,729 | 1,400 | 1,485 | 1,496 |
| Other transportation equipment | 821 | 858 | 899 | 820 | 855 | 902 | Health services | 9,813 | 10,038 | 10,197 | 9,167 | 9,402 | 9,503 |
| Instruments and related products | 854 404 | 865 404 | 872 409 | 849 439 | 860 445 | 864 444 | Legal services | 1,064 2,113 | 1,084 | 1,113 2,262 | 1,145 1,962 | 1,200 2,003 | 1,231 |
| Nondurable goods | 7,741 | 7,709 | 7,658 | 7,665 | 7,640 | 7,589 | Educational services Social services and membership | 2,113 | 2,179 | 2,202 | 1,902 | 2,003 | 2,092 |
| Food and kindred products | 1,697 | 1,694 | 1,694 | 1,664 | 1,676 | 1,672 | organizations | 4,759 | 4,949 | 5,154 | 4,618 | 4,816 | 4,991 |
| Tobacco products | 41 | 41 | 40 | I 40 | l 40 | 39 | Social services | 2.515 | 2,620 | 2,750 | 2,752 | 2,879 | 2.992 |
| Textile mill products | 630 | 618 | 599 | 632 | 620 | 600 | Membership organizations | 2,244 | 2,329 | 2,404 | 1,866 | 1,937 | 1,999 |
| Apparel and other textile products | 874 683 | 829 685 | 770 679 | 880 678 | 830 677 | 775 672 | Other services ³ Private households | 3,202 1,246 | 3,346 1,233 | 3,539 1,280 | 3,574 | 3,798 834 | 3,894 882 |
| Paper and allied products Printing and publishing | 1.564 | 1.579 | | 1 525 | 1.562 | 1,578 | Private nouserolos | 1,246 | 1,233 | 1,280 | 828 | 034 | 002 |
| Chemicals and allied products | 1,033 | 1,036 | 1,594 1,042 | 1,535 1,025 | 1,023 | 1,028 | Government | 21,935 | 22.034 | 22,215 | 18,328 | 18,415 | 18.550 |
| Petroleum and coal products | 139 | 137 | 137 | 138 | 135 | 136 | Federal | 5,387 | 5,268 | 5,196 | 4,378 | 4,272 | 4,218 |
| Rubber and miscellaneous plastics | | | | | | | General government | 4,397 | 4,276 | 4,200 | 3,575 | 3,477 | 3,416 |
| productsLeather and leather products | 981 99 | 998 92 | 1,016 87 | 971 102 | 988 89 | 1,004 85 | Civilian | 1,951 | 1,900 | 1,878 | 1,913 | 1,870 | 1,845 |
| Leather and leather products | 99 | 92 | 0/ | 102 | 09 | 00 | Military 4 Government enterprises | 2,446 990 | 2,376 992 | 2,322 996 | 1,662 803 | 1,607 795 | 1,571 802 |
| Transportation and public utilities | 6,293 | 6.467 | 6.671 | 6,318 | 6.473 | 6,648 | State and local | 16.548 | 16,766 | 17.019 | 13,950 | 14,143 | 14,332 |
| Transportation | 4.063 | 4.176 | 4.336 | 4,181 | 4.284 | 4,433 | General government | 15,704 | 15,933 | 16,181 | 13.079 | 13.282 | 13,466 |
| Railroad transportation | 223 | 220 | 216 | 211 | 208 | 205 | Education | 8,522 | 8,716 | 8,896 | 6,887 | 7,054 | 7,184 |
| Local and interurban passenger transit | 440 1,659 | 457 1,708 | 473 | 445 1,853 | 481 1,879 | 486 | Other | 7,182 | 7,217 | 7,285 838 | 6,192 | 6,228 | 6,282 866 |
| Trucking and warehousing 2 | 1,659 | 1,708 | 1,777 185 | 1,853 | 1,879 | 1,954 185 | Government enterprises | 844 | 833 | 838 | 871 | 861 | 906 |
| Transportation by air 2 | 1,119 | 1,141 | 1.200 | 1,050 | 1.068 | 1,124 | Rest of the world 5 | -485 | -532 | -539 | -416 | –456 l | -462 |
| | | | ,_,, | | | ., | | | | | | | |

Equals the number of full-time equivalent employees plus the number of self-employed persons. Unpaid family workers are not included.
 Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
 Consists of museums, botanical and zoological gardens; engineering and management services; and services, not elsewhere classified.

Includes Coast Guard.
 Beginning with 1983, includes estimates of foreign professional workers and undocumented Mexican migratory workers employed temporarily in the United States.

NOTE.—Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table B.9.—Wage and Salary Accruals Per Full-Time Equivalent Employee and Full-Time Equivalent Employees by Industry

| | | nd salary a Il-time equi | | | ime equiva | | | Wage a per fu | nd salary Il-time equi | accruais ivalent | | ime equiva mployees ^I | lent |
|---|------------------|-----------------------------|-------------------------|---------------------|-----------------|------------------|--|-------------------|---------------------------|---------------------|---------------------|-------------------------------------|----------------|
| | | Dollars | | - | Thousands | | | | Dollars | | 1 | Thousands | |
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Total | 32,040 | 33,428 | 35,112 | 113,300 | 116,213 | 119,317 | Pipelines, except natural gas Transportation services | 58,286 31,523 | 59,929 32,805 | 60,500 34,688 | 14 | 14 416 | 14 432 |
| Domestic industries | 31,963 | 33,339 | 35,021 | 113,716 | 116,669 | 119,779 | Communications | 50,496 54,581 | 52,620 56,223 | 56,177 59,544 | 396 1,229 854 | 1,293 913 | 1,341 949 |
| Private Industries | 31,384 | 32,825 | 34,594 | 95,388 | 98,254 | 101,229 | Radio and television | 41,195 50,367 | 43,963 52,484 | 48,026 55,246 | 375 872 | 380 858 | 392 844 |
| Agriculture, forestry, and fishing | 19,324 19,893 | 20,333 20,037 | 20,730 21,516 | 1,789 713 | 1,839 751 | 1,972 754 | Wholesale trade | 39,283 | 41,166 | 43,549 | 6,280 | 6,458 | 6,627 |
| Farms Agricultural services, forestry, and fishing | 18,946 | 20,537 | 20,244 | 1,076 | 1,088 | 1,218 | Retail trade | 18,774 | 19,496 | 20.508 | 18,383 | 18,759 | 19.065 |
| Mining Metal mining | 48,680 48,500 | 50,428 49,481 | 52,465 51,469 | 571 54 | 589 | 581 49 | Finance, insurance, and real estate | 45,268 | 48,176 | 52,210 | 6,637 | 6,796 | 7,027 |
| Coal mining | 48,742 | 49,621 | 50,857 | 54 97 | 54 95 333 | 91 | Depository institutions | 36,201 | 38,255 | 40,976 | 1,920 | 1,924 | 1,929 630 |
| Oil and gas extraction Nonmetallic minerals, except fuels | 52,365 37,657 | 54,372 39,346 | 56,571 41,611 | 315 105 | 107 | 333 108 | Nondepository institutions Security and commodity brokers | 43,226 114,948 | 46,535 118,606 | 52,437 127,467 | 492 557 | 548 601 | 646 |
| Construction | 31.631 | 32,924 | 34,524 | 5.444 | 5,752 | 6,074 | Insurance carriersInsurance agents, brokers, and service | 43,732 39,652 | 46,002 41,974 | 48,878 43,547 | 1,449 707 | 1,463 724 | 1,503 739 |
| Manufacturing | 37,158 | 38,965 | 40.928 | 18,168 | 18,350 | 18,513 | Real estate | 29,810 68,357 | 31,936 75,855 | 34,882 84,262 | 1,274 238 | 1,302 234 | 1,343 237 |
| Durable goods Lumber and wood products | 39,038 26,148 | 40,804 27,448 | 42,715 28,272 | 10,664 782 | 10,880 792 | 11,100 817 | 1 | 29,791 | · · | 32,746 | 32,232 | 33,674 | 35,151 |
| Furniture and fixtures | 26.068 | 27,641 | 28,979 | 497 | 501 | 523 | Services Hotels and other lodging places | 20,705 | 31,118 21,537 | 22,696 | 1,561 | 1,603 | 1.649 |
| Stone, clay, and glass products Primary metal industries | 34,880 40,771 | 35,708 42,033 | 37,088 43.080 | 532 703 | 544 705 | 558 709 | Personal services | 18,267 27,724 | 19,330 29,651 | 20,279 32,224 | 1,163 6,876 | 1,161 7,526 | 1,176 8,181 |
| Fabricated metal products | 33,968 | 35,155 | 36,292 | 1.426 | 1,461 | 1,493 | Business services | 23,073 | 23,797 | 24,860 | 1,136 | 1,182 | 1,214 |
| Industrial machinery and equipment | 41.668 | 44,133 | 46,454 | 1,426 2,074 | 2,141 | 2,181 | Miscellaneous repair services | 29,170 | 30,214 | 31,717 | 358 | 360 | 368 |
| Electronic and other electric equipment | 40,307 | 42,838 | 45,840 | 1,645 959 | 1,673 | 1,689 990 | Motion pictures | 37,052 | 39,685 | 40,833 | 421 | 447 | 467 |
| Motor vehicles and equipment Other transportation equipment | 48,773 45,520 | 49,669 47,215 | 51,908 48,776 | 959 815 | 975 850 | 990 891 | Amusement and recreation services Health services | 24,474 34,598 | 25,477 35,531 | 27,183 36,820 | 1,294 8,778 | 1,360 8,989 | 1,394 9,104 |
| Instruments and related products | 46,859 | 48,635 | 51,663 | 842 | 851 | 858 | Legal services | 50,636 | 57.042 | 59,740 | 945 | 963 | 997 |
| Miscellaneous manufacturing industries | 28,776 | 30,594 | 32,072 | 389 | 387 | 391 | Educational services | 25,213 | 26,187 | 27,230 | 1,844 | 1,898 | 1,983 |
| Nondurable goods | 34,486 30,567 | 36,286 31,891 | 38,254 33,506 | 7,504 1,654 | 7,470 | 7,413 1,648 | Social services and membership | 20.373 | 00.750 | 04 000 | 4.065 | 4 000 | 4,428 |
| Food and kindred products | 54,975 | 59,450 | 57,590 | 40 | 1,651 40 | 39 | organizations | 18,403 | 20,759 18.970 | 21,289 19,637 | 2,199 | 4,239 2,302 | 2,429 |
| Textile mill products | 25,019 | 26,376 | 27,312 | 624 | 612 | 593 | Membership organizations | 22,696 | 22.886 | 23,297 | 1.866 | 1,937 | 1.999 |
| Apparel and other textile products | 19,832 | 20,861 | 22,180 | 846 | 803 | 745 | Other services 3 | 47,098 | 49,035 | 51,592 | 2,963 | 3,112 | 3,308 |
| Paper and allied products | 40,718 35,897 | 42,177 37,427 | 43,349 39,481 | 677 1,444 | 674 1,465 | 671 1,478 | Private households | 14,112 | 14,067 | 15,467 | 828 | 834 | 882 |
| Printing and publishing Chemicals and allied products | 53,303 | 56,772 | 60,096 | 1,021 | 1.019 | 1.023 | Government | 34,974 | 36.082 | 37,349 | 18,328 | 18,415 | 18,550 |
| Petroleum and coal products | 56,188 | 60,037 | 64,215 | 138 | 135 | 135 | Federal | 40,101 | 41,511 | 42,628 | 4,378 | 4,272 | 4,218 |
| Rubber and miscellaneous plastics | | | | | | | General government | 39,190 | 40,288 | 41,587 | 3,575 | 3,477 | 3,416 |
| products Leather and leather products | 30,898 23,589 | 32,253 25,281 | 33,691 26,345 | 965 95 | 982 89 | 997 84 | Civilian | 44,587 32,978 | 45,517 34,205 | 47,144 35.060 | 1,913 1,662 | 1,870 1,607 | 1,845 1,571 |
| Leather and leather products | 20,509 | 25,201 | 20,343 | 95 | 03 | 04 | Government enterprises | 44,156 | 46,860 | 47,061 | 803 | 795 | 802 |
| Transportation and public utilities | 39,355 | 40,897 | 42,717 | 5,884 | 6,037 | 6,219 | State and local | 33,365 | 34,442 | 35,796 | 13,950 | 14,143 | 14,332 |
| Transportation | 33,197 | 34,439 | 35,621 | 3,783 | 3,886 | 4,034 | General government | 33,242 | 34,307 | 35,666 | 13,079 | 13,282 | 13,466 |
| Railroad transportationLocal and interurban passenger transit | 54,706 20,811 | 56,505 21,189 | 56,322 21,981 | 211 402 | 208 418 | 205 432 | Education | 33,176 33,314 | 34,133 34,505 | 35,503 35,852 | 6,887 6,192 | 7,054 6,228 | 7,184 6,282 |
| Trucking and warehousing 2 | 30.351 | 31,753 | 32,934 | 1,551 | 1,596 | 1.660 | OtherGovernment enterprises | 35,220 | 36,516 | 37,812 | 871 | 861 | 866 |
| Water transportation | 38,934 | 40,421 | 42,341 | 166 | 171 | 173 | · | ,==0 | 55,510 | , | | ••• | |
| Transportation by air 2 | 37,238 | 38,705 | 40,095 | 1,043 | 1,063 | 1,118 | Rest of the world 5 | | | | -416 | -456 | -462 |
| | | | | | | | | | | | | 1 | |

^{1.} Full-time equivalent employees equals the number of employees on full-time schedules plus the number of employees on part-time schedules converted to a full-time basis. The number of full-time equivalent employees in each industry is the product of the total number of employees and the ratio of average weekly hours per employee for all employees to average weekly hours per employee on full-time schedules.
2. Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
3. Consists of museums, botanical and zoological gardens; engineering and management services; and services,

not elsewhere classified.

4. Includes Coast Guard.

5. Includes estimates of foreign professional workers and undocumented Mexican migratory workers employed temporarily in the United States.

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table B.10.—Farm Sector Output, Gross Product, and National Income

| | Billio | ons of do | llars | | ns of cha 196) dolla | |
|---|---|--|--|---|--|--|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Farm output Cash receipts from farm marketings Crops Livestock Farm housing Farm products consumed on farms Other farm income Change in farm inventories Crops Livestock | 222.6 201.2 108.3 93.0 6.2 .5 6.8 7.9 9.0 | 226.2 208.7 112.1 96.5 6.4 .5 7.8 2.8 3.1 4 | 214.2 198.2 103.7 94.5 6.6 .5 8.6 .3 .9 6 | 222.6 201.2 108.3 93.0 6.2 .5 6.8 7.9 9.0 -1.1 | 237.3 218.7 121.2 97.5 6.0 .5 8.2 3.0 3.4 4 | 237.9 220.3 121.8 98.7 5.9 .5 9.6 .9 1.7 |
| Less: Intermediate goods and services purchased | 130.4 114.3 16.1 | 138.1 122.1 16.0 | 134.1 119.0 15.1 | 130.4 114.3 16.1 | 134.7 119.2 15.5 | 137.4 121.9 15.5 |
| Equals: Gross farm product | 92.2 | 88.0 | 80.2 | 92.2 | 103.1 | 100.5 |
| Less: Consumption of fixed capital | 25.4 | 26.2 | 27.1 | 25.4 | 25.8 | 26.3 |
| Equals: Net farm product | 66.8 | 61.9 | 53.1 | 66.8 | 77.7 | 74.2 |
| Less: Indirect business tax and nontax liability | 5.0 | 5.2 | 5.3 | | | |
| Plus: Subsidies to operators Equals: Farm national income Compensation of employees Wage and salary acruals Supplements to wages and | 6.2 68.1 16.6 14.2 | 6.3 63.0 17.5 15.0 | 10.7 58.6 18.6 16.2 | | | |
| salaries Proprietors' income and corporate profits with inventory valuation and capital consumption adjustments Proprietors' income Corporate profits Net interest | 42.0 34.3 7.7 9.5 | 35.5 29.5 6.0 10.1 | 29.2 29.2 25.1 4.1 10.8 | | | |

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table B.11.—Housing Sector Output, Gross Product, and National Income

| | Billio | ons of do | llars | | ns of cha 996) dolla | |
|---|--|---|--|--|--|---|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| Housing output ¹ Nonfarm housing | 742.3 736.1 555.4 180.6 6.2 | 777.9 771.5 585.5 186.0 6.4 | 822.8 816.2 622.6 193.6 6.6 | 742.3 736.1 555.4 180.6 6.2 | 755.9 749.9 569.0 180.9 6.0 | 775.2 769.3 586.6 182.6 5.9 |
| Less: Intermediate goods and services consumed | 94.4 | 103.9 | 116.8 | 94.4 | 100.1 | 110.0 |
| Equals: Gross housing product | 647.9 642.8 482.3 160.5 5.1 | 673.9 668.6 505.7 162.9 5.3 | 705.9 700.4 531.5 169.0 5.5 | 648.0 642.8 482.3 160.5 5.1 | 655.8 650.8 491.9 158.9 5.0 | 665.1 660.2 500.9 159.4 4.9 |
| Less: Consumption of fixed capital | 119.6 63.6 -56.0 | 126.2 67.6 -58.6 | 131.9 71.9 –60.0 | | | 125.7 |
| Equals: Net housing product | 528.4 | 547.7 | 574.0 | 528.4 | 533.2 | 539.4 |
| Less: Indirect business tax and nontax liability plus business transfer payments | 118.9 | 123.4 | 127.9 | | | |
| Plus: Subsidies less current surplus of government enterprises | 23.3 | 23.9 | 23.9 | | | |
| Equals: Housing national income | 432.8 8.4 | 448.3 9.0 | 470.0 9.6 | | | i . |
| valuation adjustment and capital consumption adjustment Rental income of persons with | 22.6 | 21.6 | 22.0 | | | |
| capital consumption adjustment Corporate profits with inventory | 111.2 | 111.5 | 119.3 | | | |
| valuation adjustment and capital consumption adjustment Net interest | 4.7 285.7 | 4.7 301.6 | 4.9 314.2 | | | |

Equals personal consumption expenditures for housing less expenditures for other housing as shown in table B.4.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

"Table B.12.—Net Stock of Fixed Private Capital, by Type" is not published in this issue. The table will be published when the estimates of fixed assets and consumer durable goods are revised to incorporate the results of the most recent comprehensive revision of the NIPA's. An article presenting the revised estimates of fixed assets and consumer durable goods is scheduled to be published in the April 2000 Survey.

C. Historical Measures

This table is derived from the "GDP and Other Major NIPA Series" tables that were published in the December 1999 issue of the Survey of Current Business and from the "Selected NIPA Tables" that are published in this issue. (Changes in prices are calculated from indexes expressed to three decimal places.)

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases
[Quarterly estimates are seasonally adjusted at annual rates]

| | Billions | of chained (1996 |) dollars | Percent change | from preceding | Chain-type p | orice indexes | Implicit pric | e deflators | Po | ercent change from | n preceding period | <u> </u> |
|----------------------|--|-------------------------------|--|---------------------------|---|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------------------|-----------------------------|--------------------------|---------------------------------|
| Year and quarter | Gross domestic | Final sales of | Gross national | peri | Final sales of | Gross domestic | Gross domestic | Gross domestic | Gross national | Chain-type | price index | Implicit price | deflators |
| quator | product | domestic product | product | Gross domestic product | domestic product | product | purchases | product | product | Gross domestic product | Gross domestic purchases | Gross domestic product | Gross national product |
| 1959 | 2,300.0 | 2,298.4 | 2,315.7 | | *************************************** | 22.06 | 21.57 | 22.06 | 22.04 | | | | |
| 1960 1961 | 2,357.2 2,412.1 | 2,359.0 2,415.5 | 2,374.4 2,430.9 | 2.5 2.3 6.0 | 2.6 2.4 | 22.37 22.62 22.93 | 21.87 22.10 | 22.37 22.62 | 22.35 22.60 | 1,4 1,1 | 1.4 1.1 | 1.4 1.1 | 1.4 1.1 |
| 1962 1963 | 2,557.6 2,668.2 2,822.7 | 2,548.1 2,661.4 2,820.2 | 2,578.8 2,690.7 | 6.0 4.3 5.8 | 2.4 5.5 4.4 6.0 | 22.93 23.18 23.53 | 22.40 22.67 23.02 | 22.93 23.19 23.54 | 22.91 23.16 23.51 | 1.4 1.1 | 1.3 1.2 1.6 | 1.4 1.1 1.5 | 1.4 1.1 1.5 |
| 1964 | 3.002.8 | 2,982,7 | 2,847.0 3,028.3 | 6.4 | 5.8 | 23.98 | 23.44 | 23.98 | 23.96 | 1.5 1.9 | 1.8 | 1.9 | |
| 1966 1967 | 3,199.5 3,279.5 | 3,163.3 3,259.4 3,419.5 | 3,223.7 3,304.3 3,462.2 | 6.6 2.5 4.8 | 6.1 3.0 | 24.66 25.43 26.52 | 24.10 24.80 25.87 | 24.67 25.43 26.53 | 24.64 25.41 26.50 | 2.9 3.1 | 2.8 2.9 4.3 | 2.9 3.1 | 1.9 2.9 3.1 4.3 4.8 |
| 1968 1969 | 3,435.6 3,543.2 | 3,527.6 | 3,568.8 | 3.1 | 4.9 3.2 | 27.81 | 27.11 | 27.81 | 27.78 | 4.3 4.8 | 4.8 | 4.3 4.8 | 1 |
| 1970 1971 1972 | 3,549.4 3,660.2 3,854.2 | 3,559.7 3,650.5 3,843.3 | 3,574.7 3,688.8 3,885.2 | .2 3.1 | .9 2.6 5.3 | 29.29 30.83 32.18 | 28.57 30.12 31.50 | 29.29 30.83 32.18 | 29.26 30.80 32.15 | 5.3 5.3 4.4 | 5.4 5.4 4.6 | 5.3 5.3 4.4 | 5.3 5.3 4.4 5.7 8.6 |
| 1973 1974 | 4,073.1 4,061.7 | 4,043.9 4,043.4 | 4,114.7 4,108.0 | 5.3 5.7 3 | 5.2 0 | 34.01 36.94 | 33.37 36.65 | 34.02 36.96 | 33.98 36.92 | 5.7 8.6 | 5.9 9.8 | 5.7 8.6 | 5.7 8.6 |
| 1975 1976 | 4,050.3 4,262.6 | 4,083.9 4,239.6 | 4,086.5 4,306.3 | 3 5.2 | 1.0 | 40.37 42.78 | 39.99 42.37 | 40.37 42.79 | 40.34 42.75 | 9.3 6.0 | 9.1 6.0 | 9.2 6.0 | 9.3 6.0 |
| 1977 1978 | 4,455.7 4,709.9 | 4,422.8 4,672.4 | 4,505.2 4,758.8 | 4.5 5.7 | 3.8 4.3 5.6 | 45.58 48.74 | 45.31 48.49 | 45.59 48.75 | 45.55 48.71 | 6.5 6.9 | 6.9 7.0 | 6.5 6.9 | 6.5 6.9 |
| 1979 | 4,870.1 4,872.3 | 4,852.4 4,899.2 | 4,935.6 4,936.2 | 3.4 | 3.9 1.0 | 52.69 57.39 | 52.67 58.10 | 52.70 57.38 | 52.66 57.35 | 8.1 8.9 | 8.6 10.3 | 8.1 8.9 | 8.1 8.9 |
| 1981 1982 | 4,993.9 4,900.3 | 4,899.2 4,962.5 4,935.6 | 5,050.8 4,956.4 | 2.5 -1.9 | I 1.3 | 62.71 | 63.36 66.94 | 57.38 62.70 66.51 | 57.35 62.68 66.49 | 9.3 6.1 | 9.1 5.7 | 9.3 6.1 | 9.3 6.1 |
| 1983 1984 | 5,105.6 5,477.4 | 5,127.5 5,400.5 | 5,160.6 5,528.7 | 4.2 7.3 | 5 3.9 5.3 | 69.23 71.80 | 69.37 71.78 | 69.24 71.80 | 69.21 71.77 | 4.1 3.7 | 3.6 3.5 | 4.1 3.7 | 4.1 3.7 |
| 1985 1986 | 5,689.8 5,885.7 | 5,671.6 5,885.9 | 5,726.3 5,908.4 | 3.9 3.4 | 5.0 3.8 3.1 4.4 | 74.05 75.67 | 73.87 75.52 77.94 | 74.05 75.66 | 74.02 75.63 77.81 | 3.1 2.2 | 2.9 2.2 3.2 | 3.1 2.2 | 3.1 2.2 |
| 1987 1988 1989 | 6,092.6 6,349.1 6,568.7 | 6,068.2 6,333.4 6,542.4 | 6,112.2 6,373.7 6,594.7 | 3.5 4.2 3.5 | 3.1 4.4 3.3 | 77.84 80.46 83.56 | 80.57 83.71 | 77.84 80.46 83.56 | 80.44 83.54 | 2.9 3.4 3.9 | 3.4 3.4 3.9 | 2.2 2.9 3.4 3.9 | 3.1 2.2 2.9 3.4 3.9 |
| 1990 | 6,683.5 | 6,671.3 | 6,718.1 | 1.7 | 2.0 0 | 86.84 | 87.14 89.90 | 86.83 89.76 | 86.81 89.76 | 3.9 3.4 | 4.1 | 1 20 | |
| 1991 1992 1993 | 6,669.2 6,891.1 7,054.1 | 6,674.2 6,878.7 7,035.3 | 6,696.9 6,915.8 7,080.3 | 2 3.3 2.4 | 3.1 | 89.76 91.70 94.17 | 91.90 94.24 | 91.70 94.16 | 91.71 94.16 | 2.2 2.7 | 3.2 2.2 2.5 2.1 | 3.4 2.2 2.7 | 3.9 3.4 2.2 2.7 2.1 |
| 1994 | 7,337.8 7,537.1 | 7,275.9 7,505.5 | 7,355.5 7,558.0 | 2.4 4.0 2.7 | 2.3 3.4 3.2 | 96.14 98.19 | 96.18 98.28 | 96.14 98.19 | 96.13 98.19 | 2.1 | 2.1 2.2 | 2.1 2.1 | 2.1 2.1 |
| 1996 1997 | 7,813.2 8,165.1 | 7,783.2 7,783.2 8,095.7 | 7,831.2 7,831.8 8,168.8 | 3.7 4.5 | 3.7 4.0 | 100.00 | 100.00 101.39 | 100.00 101.66 | 100.00 101.67 | 1.8 1.7 | 1.7 1.4 | 1.8 1.7 | 1.8 1.7 |
| 1998 1999 | 8,516.3 8,867.0 | 8,441.3 8,818.8 | 8,506.0 | 4.3 4.1 | 4.3 4.5 | 101.66 102.86 104.31 | 102.14 103.65 | 102.86 104.37 | 102.87 | 1.2 1.4 | .7 1.5 | 1.2 1.5 | 1.2 |
| 1959: I !! | 2,254.4 2,313.3 2,312.4 | 2,256.3 2,295.8 | 2,269.3 2,328.3 2,328.4 | 10.9 | 7.2 5.2 | 21.97 22.02 | 21.48 21.53 | 22.01 22.01 | 21.98 21.99 | | | .1 | .1 |
| III IV | 2,312.4 2,320.0 | 2,325.0 2,316.4 | 2,336.9 | 2 1.3 | -1.5 | 22.08 22.17 | 21.59 21.68 | 22.06 22.16 | 22.04 22.14 | 1.1 1.7 | 1.1 1.7 | .9 1.8 | .9 1.8 |
| 1960: I II | 2,371.4 2,359.7 | 2,340.9 2,363.1 | 2,387.7 2,376.4 | 9.1 -1.9 | 4.3 3.8 | 22.22 22.32 | 21.72 21.82 | 22.26 22.34 | 22.24 22.31 | .9 1.7 | .8 1.8 | 1.8 1.4 | 1.8 1.4 |
| III IV | 2,364.1 2,333.7 | 2,360.5 2,371.4 | 2,381.4 2,351.8 | .7 -5.0 | 4 1.9 | 22.42 22.52 | 21.92 22.02 | 22.42 22.48 | 22.39 22.45 | 1.8 1.8 | 1.8 1.9 | 1.4 1.1 | 1.4 1.1 |
| 1961: I II | 2,347.2 2,391.1 2,430.4 | 2,373.2 2,398.5 2,417.7 | 2,366.3 2,409.4 2,449.1 | 2.3 7.7 6.7 | .3 4.3 3.2 9.4 | 22.55 22.59 22.64 | 22.04 22.07 22.12 | 22.54 22.58 22.64 | 22.51 22.55 22.62 | .5 .7 .9 | .4 .5 .9 | 1.0 .8 1.1 | 1.0 .8 1.1 |
| III | 2,479.8 | 2,472.6 | 2,499.0 | 8.4 | | I | 22.17 | 22.72 | 22.70 | 1.0 | .9 | 1.4 | 1.4 |
| 1962: I II | 2,522.9 2,550.2 2,575.3 | 2,501.5 2,543.2 2,564.6 | 2,541.9 2,571.0 2,596.3 | 7.1 4.4 4.0 | 4.8 6.8 3.4 | 22.83 22.90 22.96 | 22.29 22.37 22.42 | 22.86 22.90 22.95 | 22.84 22.87 22.92 | 2.4 1.1 1.1 | 2.2 1.3 1.0 | 2.5 .6 | 2.5 .6 1.0 |
| III | 2,581.8 | 2,582.9 | 2,605.6 | 1.0 | 2.9 | 23.03 | 22.50 | 23.02 | 23.00 | 1.4 | 1.4 | .9 1.3 | 1.3 |
| 1963: I | 2,612.4 2,646.3 2,697.2 | 2,597.6 2,641.8 2,689.5 | 2,635.1 2,668.3 2,719.6 | 4.8 5.3 7.9 | 2.3 7.0 7.4 | 23.12 23.14 23.17 | 22.59 22.62 22.66 | 23.10 23.13 23.17 | | 1.4 .3 .6 | 1.6 .5 .7 | 1.3 .6 | 1.3 .6 |
| III | 2,716.8 | 2,716.8 | 2,739.8 | 2.9 | 4.1 | 23.31 | 22.80 | 23.35 | 23.14 23.32 | 2.5 | 2.6 | 3.2 | 3.2 |
| 1964: I II | 2,777.3 2,810.2 2,848.0 2,855.3 | 2,775.9 2,809.7 2,844.1 | 2,802.3 2,834.3 2,872.9 | 9.2 4.8 5.5 | 9.0 5.0 5.0 | 23.39 23.47 23.58 | 22.89 22.97 23.07 | 23.42 23.47 23.57 | 23.39 23.45 23.54 | 1,4 1,2 2,0 | 1.5 | 1.2 .9 1.6 | 1.2 1.0 |
| III | | | 2,878.6 | 1.0 | 1.0 | 23.69 | | 23.69 | 23.66 | 1.9 | 1.7 | 2.0 | 1.6 2.0 |
| 1965: 1 If | 2,925.1 2,964.4 3,024.6 | 2,895.4 2,947.7 3,003.4 | 2,951.4 2,991.5 3,050.1 | 10.1 5.5 8.4 | 6.4 7.4 7.8 | 23.80 23.91 24.02 | 23.26 23.36 23.48 | 23.81 23.92 24.01 | 23.79 23.89 23.99 | 1.9 1.8 1.8 | 1.8 | 2.1 1.8 | 2.1 1.8 |
| HI | 3,096.8 | 3,084.6 | 3,120.3 | 9.9 | 11.3 | 24.18 | 23.65 | 24.18 | 24.15 | 2.7 | 2.9 | 1.5 2.8 | 1.6 2.8 |
| 1966: I II | 3,173.4 3,185.4 3,205.7 3,233.5 | 3,137.6 3,152.2 3,177.0 | 3,197.6 3,209.6 3,229.3 3,258.1 | 10.3 1.5 2.6 3.5 | 7.1 1.9 3.2 1.2 | 24.32 24.55 24.79 25.00 | 23.77 24.00 24.22 24.41 | 24.34 24.53 24.79 | 24.31 24.51 24.77 | 2.4 3.8 4.0 | 2.2 3.8 3.7 3.3 | 2.6 3.3 4.3 | 2.7 3.3 4.3 3.5 |
| III IV | 3,233.5 | 3,186.4 | 3,258.1 | i 3.5 | 1.2 | 25.00 | 24.41 | 25.01 | 24.98 | 3.5 | 3.3 | 4.3 3.5 | 3.5 |

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases—Continued [Quarterly estimates are seasonally adjusted at annual rates]

| | Billions o | of chained (1996 |) dollars | Percent change | from preceding | | orice indexes | at annual rates | | Pe | ercent change from | n preceding period | i |
|--------------------------------|---|---|---|---------------------------------|-------------------------------|---|---|---|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Year and quarter | Gross domestic | Final sales of | Gross national | peri | od Final sales of | Gross domestic | Gross domestic | Gross domestic | Gross national | Chain-type | price index | Implicit price | e deflators |
| quarter | product | domestic product | product | Gross domestic product | domestic product | product | purchases | product | product | Gross domestic product | Gross domestic purchases | Gross domestic product | Gross national product |
| 1967: I II III | 3,263.2 3,261.1 3,284.6 3,309.1 | 3,218.6 3,252.7 3,268.5 3,297.6 | 3,287.6 3,284.8 3,310.4 3,334.4 | 3.7 3 2.9 3.0 | 4.1 4.3 1.9 3.6 | 25.12 25.28 25.52 25.80 | 24.51 24.66 24.89 25.16 | 25.53 | 25.08 25.24 25.51 25.79 | 1.9 2.5 3.8 4.5 | 1.6 2.5 3.9 4.3 | 1.6 2.5 4.3 4.6 | 1.6 2.5 4.3 4.5 |
| 1968: I II III IV | 3,375.9 3,434.0 3,458.6 3,473.9 | 3,363.8 3,397.8 3,447.3 3,469.2 | 3,401.8 3,460.4 3,485.7 3,500.8 | 8.3 7.1 2.9 1.8 | 8.3 4.1 6.0 2.6 | 26.09 26.38 26.63 26.99 | 25.45 25.71 25.97 26.33 | 26.11 26.38 26.63 26.99 | 26.08 26.35 26.60 26.97 | 4.7 4.5 3.8 5.6 | 4.7 4.2 4.1 5.6 | 4.6 4.1 3.9 5.7 | 4.6 4.2 3.8 5.6 |
| 1969: † II III IV | 3,529.1 3,539.2 3,560.5 3,544.0 | 3,505.8 3,522.9 3,541.1 3,540.8 | 3,556.0 3,565.1 3,585.2 3,568.8 | 6.5 1.1 2.4 -1.8 | 4.3 2.0 2.1 0 | 27.25 27.61 28.01 28.36 | 26.56 26.92 27.30 27.65 | 27.25 27.61 28.01 28.37 | 27.23 27.58 27.98 28.34 | 3.8 5.4 5.9 5.2 | 3.6 5.5 5.7 5.3 | 3.9 5.2 5.9 5.2 | 3.9 5.2 5.9 5.2 |
| 1970: I II III | 3,539.3 3,546.1 3,576.0 3,536.1 | 3,551.5 3,545.2 3,575.6 3,566.5 | 3,564.6 3,572.3 3,602.0 3,560.1 | 5 .8 3.4 -4.4 | 1.2 7 3.5 1.0 | 28.75 29.17 29.41 29.81 | 28.04 28.43 28.71 29.11 | 28.77 29.17 29.42 29.81 | 28.74 29.14 29.39 29.78 | 5.6 5.9 3.4 5.5 | 5.8 5.7 4.0 5.6 | 5.8 5.7 3.4 5.5 | 5.8 5.7 3.4 5.5 |
| 1971: | 3,631.9 3,649.7 3,675.8 3,683.5 | 3,608.9 3,631.3 3,660.2 3,701.8 | 3,660.2 3,679.6 3,703.2 3,712.4 | 11.3 2.0 2.9 .8 | 4.8 2.5 3.2 4.6 | 30.28 30.70 31.03 31.30 | 29.56 29.98 30.33 30.60 | 30.28 30.70 31.03 31.30 | 30.25 30.67 31.00 31.27 | 6.5 5.7 4.3 3.5 | 6.4 5.7 4.8 3.7 | 6.5 5.6 4.4 3.5 | 6.5 5.6 4.4 3.5 |
| 1972: i II III IV | 3,755.6 3,840.6 3,877.2 3,943.3 | 3,760.7 3,819.4 3,852.1 3,941.0 | 3,785.7 3,870.4 3,909.4 3,975.5 | 8.1 9.4 3.9 7.0 | 6.5 6.4 3.5 9.6 | 31.77 31.97 32.29 32.68 | 31.06 31.29 31.63 32.01 | 31.75 31.96 32.29 32.71 | 31.72 31.93 32.26 32.67 | 6.1 2.6 4.1 4.9 | 6.1 3.0 4.4 4.9 | 5.8 2.7 4.2 5.2 | 5.9 2.7 4.2 5.2 |
| 1973: [| 4,040.9 4,081.4 4,066.8 4,103.3 | 4,023.9 4,042.6 4,050.4 4,058.8 | 4,077.8 4,120.6 4,111.8 4,148.5 | 10.3 4.1 -1.4 3.6 | 8.7 1.9 .8 | 33.14 33.69 34.32 34.89 | 32.46 33.07 33.67 34.27 | 33.12 33.67 34.28 34.98 | 33.09 33.64 34.24 34.94 | 5.7 6.8 7.7 6.7 | 5.7 7.7 7.4 7.3 | 5.2 6.9 7.4 8.4 | 5.2 6.9 7.4 8.4 |
| 1974: | 4,077.5 4,091.8 4,048.9 4,028.5 | 4,059.9 4,067.1 4,054.0 3,992.5 | 4,129.7 4,141.1 4,093.9 4,067.4 | -2.5 1.4 -4.1 -2.0 | .1 .7 –1.3 –5.9 | 35.55 36.31 37.39 38.51 | 35.12 36.09 37.16 38.21 | 35.56 36.36 37.41 38.52 | 35.53 36.32 37.38 38.48 | 7.8 8.8 12.5 12.5 | 10.4 11.5 12.4 11.8 | 6.8 9.3 12.1 12.3 | 6.9 9.3 12.1 12.3 |
| 1975: | 3,978.2 4,012.7 4,080.7 4,129.4 | 4,022.4 4,066.1 4,100.9 4,146.3 | 4,011.1 4,046.0 4,116.7 4,172.1 | -4.9 3.5 7.0 4.9 | 3.0 4.4 3.5 4.5 | 39.39 39.95 40.70 41.43 | 39.04 39.61 40.30 41.01 | 39.39 39.95 40.68 41.42 | 39.36 39.92 40.64 41.39 | 9.4 5.8 7.7 7.3 | 8.9 6.0 7.1 7.2 | 9.4 5.8 7.5 7.5 | 9.5 5.8 7.5 7.5 |
| IV 1976: I III | 4,222.1 4,253.6 4,270.8 4,303.6 | 4,204.9 4,216.5 4,238.6 4,298.3 | 4,264.0 4,297.2 4,315.1 4,349.1 | 9.3 3.0 1.6 3.1 | 5.8 1.1 2.1 5.8 | 41.92 42.40 43.02 43.79 | 41.50 41.99 42.64 43.37 | 41.93 42.39 43.01 43.81 | 41.89 42.35 42.97 43.77 | 4.9 4.7 5.9 7.3 | 4.9 4.8 6.3 7.0 | 5.0 4.5 6.0 7.6 | 5.0 4.5 6.0 7.6 |
| IV 1977: I II IV | 4,355.4 4,433.3 4,513.7 4,520.5 | 4,338.5 4,407.5 4,453.2 4,491.9 | 4,407.0 4,484.0 4,564.0 4,565.5 | 4.9 7.3 7.5 | 3.8 6.5 4.2 3.5 | 44.52 45.26 45.89 46.65 | 44.19 44.97 45.66 46.43 | 44.52 45.26 45.80 46.73 | 44.48 45.22 45.76 46.69 | 6.9 6.8 5.7 6.7 | 7.8 7.3 6.3 6.9 | 6.7 6.8 4.9 8.3 | 6.7 6.9 4.9 8.3 |
| 1978: I | 4,536.2 4,713.6 4,761.7 4,828.0 | 4,499.5 4,678.9 4,724.8 4,786.3 | 4,587.6 4,757.1 4,808.9 4,881.8 | 1.4 16.6 4.1 5.7 | .7 16.9 4.0 5.3 | 47.40 48.32 49.15 50.11 | 47.17 48.08 48.91 49.81 | 47.41 48.30 49.11 50.08 | 47.36 48.26 49.08 50.05 | 6.6 8.0 7.1 8.0 | 6.5 8.0 7.1 7.5 | 5.9 7.8 6.9 8.2 | 5.9 7.8 6.9 8.2 |
| 1979: I II III IV | 4,841.7 4,847.8 4,885.6 4,905.4 | 4,808.8 4,809.5 4,881.3 4,910.3 | 4,897.0 4,909.3 4,958.4 4,977.4 | 1.1 .5 3.2 1.6 | 1.9 .1 6.1 2.4 | 51.07 52.20 53.23 54.27 | 50.82 52.00 53.28 54.57 | 51.03 52.17 53.25 54.30 | 51.00 52.14 53.22 54.27 | 7.9 9.2 8.1 8.0 | 8.3 9.7 10.2 10.0 | 7.8 9.2 8.5 8.2 | 7.8 9.3 8.5 8.2 |
| 1980: I | 4,926.8 4,829.0 4,823.3 4,910.1 | 4,929.1 4,832.7 4,896.5 4,938.5 | 4,999.5 4,896.2 4,886.8 4,962.3 | 1.8 -7.7 5 7.4 | 1.5 -7.6 5.4 3.5 | 55.44 56.68 57.94 59.48 | 56.05 57.44 58.72 60.18 | 55.47 56.68 57.92 | 55.44 56.65 57.89 59.42 | 8.9 9.3 9.2 11.0 | 11.3 10.3 9.2 10.3 | 8.9 9.0 9.1 11.0 | 8.9 9.0 9.1 11.0 |
| 1981: | 5,003.6 4,969.3 5,030.0 4,972.5 | 4,956.8 4,967.8 4,976.8 4,948.4 | 5,060.1 5,022.7 5,086.1 5,034.5 | 7.8 -2.7 5.0 -4.5 | 1.5 .9 .7 –2.3 | 61.02 62.10 63.29 64.42 | 61.74 62.84 63.86 64.99 | 61.01 62.11 63.29 64.42 | 60.99 62.08 63.27 64.40 | 10.7 7.3 7.9 7.3 | 10.8 7.3 6.6 7.2 | 10.9 7.4 7.9 7.3 | 11.0 7.4 7.9 7.3 |
| 1982: J II IV | 4,894.6 4,916.9 4,893.5 4,896.1 | 4,939.7 4,935.5 4,898.2 4,969.2 | 4,951.5 4,980.0 4,946.8 4,947.2 | -6.1 1.8 -1.9 .2 | 7 3 -3.0 5.9 | 65.26 66.09 67.00 67.71 | 65.79 66.51 67.39 68.07 | 65.25 66.08 67.00 67.72 | 65.24 66.06 66.98 67.70 | 5.4 5.2 5.6 4.3 | 5.0 4.5 5.4 4.1 | 5.3 5.2 5.7 4.4 | 5.3 5.1 5.7 4.4 |
| 1983: i II III IV | 4,948.5 5,063.6 5,152.6 5,257.6 | 5,011.8 5,086.7 5,172.1 5,239.4 | 4,999.9 5,118.5 5,208.5 5,315.6 | 4.3 9.6 7.2 8.4 | 3.5 6.1 6.9 5.3 | 68.31 68.95 69.54 70.14 | 68.51 69.12 69.68 70.17 | 68.27 68.92 69.54 70.16 | 68.25 68.89 69.51 70.13 | 3.6 3.8 3.5 3.5 | 2.6 3.6 3.3 2.8 | 3.3 3.8 3.7 3.6 | 3.3 3.8 3.7 3.6 |
| 1984: I | 5,374.1 5,465.9 5,513.6 5,555.9 | 5,286.2 5,383.2 5,428.7 5,503.9 | 5,427.1 5,519.0 5,566.1 5,602.6 | 9.2 7.0 3.5 3.1 | 3.6 7.5 3.4 5.7 | 70.96 71.54 72.10 72.60 | 71.00 71.57 72.04 72.49 | 70.96 71.52 72.09 72.60 | 70.93 71.50 72.06 72.57 | 4.8 3.3 3.2 2.8 | 4.8 3.3 2.7 2.5 | 4.6 3.2 3.2 2.8 | 4.6 3.2 3.2 2.8 |
| 1985: | 5,602.4 5,646.6 5,731.4 5,778.8 | 5,592.4 5,629.7 5,718.8 5,745.4 | 5,639.7 5,686.3 5,764.0 5,815.1 | 3.4 3.2 6.1 3.4 | 6.6 2.7 6.5 1.9 | 73.36 73.85 74.23 74.75 | 73.12 73.63 74.04 74.69 | 73.36 73.85 74.20 74.74 | 73.33 73.82 74.18 74.72 | 4.3 2.7 2.1 2.8 | 3.5 2.8 2.2 3.6 | 4.3 2.7 1.9 2.9 | 4.2 2.7 1.9 3.0 |
| IV | 5,831.1 5,856.0 5,911.3 | 5,801.0 5,845.4 5,929.3 | 5,862.3 5,877.4 5,935.1 | 3.7 1.7 3.8 | 3.9 3.1 5.9 | 75.04 75.39 75.85 | 75.02 75.16 75.68 | 75.03 75.40 75.84 | 75.00 75.37 75.81 | 1.6 1.9 2.5 | 1.8 .7 2.8 | 1.6 2.0 2.4 | 1.6 1.9 2.4 |
| 1987: I 1987: I II IV | 5,944.3 5,990.7 6,056.1 6,108.3 6,215.4 | 5,967.8 5,962.8 6,045.8 6,118.8 6,145.3 | 5,959.0 6,007.2 6,076.9 6,127.9 6,237.0 | 2.2 3.2 4.4 3.5 7.2 | 2.6 3 5.7 4.9 1.7 | 76.38 77.02 77.54 78.09 78.71 | 76.23 77.02 77.64 78.23 78.86 | 76.33 76.99 77.54 78.09 78.70 | 76.31 76.97 77.51 78.07 78.67 | 2.8 3.4 2.7 2.8 3.2 | 2.9 4.2 3.3 3.1 3.2 | 2.6 3.5 2.9 2.9 3.1 | 2.6 3.5 2.9 2.9 3.1 |

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases—Continued [Quarterly estimates are seasonally adjusted at annual rates]

| | acadust domestic | |) dollars | Percent change | from preceding | Chain-type p | xice indexes | Implicit pric | e deflators | Pe | ercent change from | n preceding perior | i |
|----------------------------|--|--|--|---------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------------|---|--------------------------|
| Year and quarter | | Final sales of domestic product | Gross national product | Gross domestic product | Final sales of domestic product | Gross domestic product | Gross domestic purchases | Gross domestic product | Gross national product | Chain-type Gross domestic product | price index Gross domestic purchases | Implicit price Gross domestic product | Gross national product |
| 1988: 1 | 6,257.0 6,331.0 6,363.1 6,445.0 | 6,244.3 6,315.2 6,346.7 6,427.3 | 6,285.0 6,355.8 6,384.7 6,469.2 | 2.7 4.8 2.0 5.2 | 6.6 4.6 2.0 5.2 | 79.23 80.03 80.97 81.61 | 79.42 80.22 80.97 81.69 | 79.22 80.03 80.96 81.59 | 79.20 80.01 80.94 81.57 | 2.7 4.1 4.8 3.2 | 2.9 4.1 3.8 3.6 | 2.7 4.1 4.7 3.1 | 2.7 4.1 4.7 3.2 |
| 1989: I II IV | 6,522.4 6,556.9 6,586.8 6,608.7 | 6,471.5 6,520.4 6,582.1 6,595.6 | 6,546.4 6,579.5 6,612.0 6,641.0 | 4.9 2.1 1.8 1.3 | 2.8 3.1 3.8 .8 | 82.47 83.30 83.92 84.56 | 82.61 83.51 84.01 84.71 | 82.47 83.30 83.92 84.56 | 82.45 83.28 83.90 84.54 | 4.3 4.1 3.0 3.1 | 4.6 4.5 2.4 3.4 | 4.4 4.1 3.0 3.1 | 4.4 4.1 3.0 3.1 |
| 1990: I II IV | 6,689.2 6,705.4 6,695.4 6,643.9 | 6,678.7 6,671.3 6,675.2 6,659.6 | 6,719.3 6,737.1 6,721.0 6,695.0 | 5.0 1.0 6 -3.0 | 5.1 4 .2 9 | 85.53 86.51 87.31 88.03 | 85.79 86.57 87.54 88.65 | 85.52 86.50 87.30 88.01 | 85.51 86.47 87.28 88.00 | 4.7 4.7 3.7 3.3 | 5.2 3.7 4.6 5.1 | 4.6 4.6 3.8 3.3 | 4.7 4.6 3.8 3.3 |
| 1991; i Il III IV | 6,616.2 6,658.4 6,680.2 6,721.7 | 6,637.3 6,682.4 6,684.5 6,692.8 | 6,653.9 6,683.0 6,700.5 6,750.1 | -1.7 2.6 1.3 2.5 | -1.3 2.7 .1 .5 | 88.98 89.54 90.05 90.46 | 89.27 89.63 90.09 90.59 | 88.97 89.54 90.06 90.46 | 88.96 89.53 90.05 90.47 | 4.4 2.6 2.3 1.8 | 2.9 1.6 2.1 2.2 | 4.4 2.6 2.3 1.8 | 4.4 2.6 2.3 1.9 |
| 1992: 1 II III IV | 6,792.9 6,859.3 6,912.1 7,000.0 | 6,798.5 6,839.5 6,895.1 6,981.7 | 6,819.7 6,885.1 6,934.6 7,023.7 | 4.3 4.0 3.1 5.2 | 6.5 2.4 3.3 5.1 | 91.04 91.51 91.82 92.44 | 91.13 91.66 92.11 92.70 | 91.03 91.51 91.81 92.43 | 91.04 91.52 91.82 92.44 | 2.6 2.1 1.3 2.7 | 2.4 2.3 2.0 2.6 | 2.5 2.1 1.3 2.7 | 2.5 2.1 1.3 2.7 |
| 1993: 1 II IV | 6,986.9 7,024.0 7,050.8 7,155.0 | 6,951.9 7,001.6 7,046.6 7,141.1 | 7,019.5 7,049.6 7,082.3 7,169.8 | 7 2.1 1.5 6.0 | 2.9 2.6 5.5 | 93.35 93.93 94.41 94.97 | 93.44 94.06 94.45 94.99 | 93.34 93.92 94.39 94.98 | 93.34 93.91 94.39 94.97 | 4.0 2.5 2.0 2.4 | 3.3 2.7 1.7 2.3 | 4.0 2.5 2.0 2.5 | 4.0 2.5 2.0 2.5 |
| 1994: 1 II III IV | 7,218.5 7,319.8 7,360.5 7,452.3 | 7,176.3 7,239.8 7,308.9 7,378.4 | 7,240.1 7,337.0 7,376.6 7,468.2 | 3.6 5.7 2.2 5.1 | 2.0 3.6 3.9 3.9 | 95.42 95.85 96.41 96.85 | 95.34 95.86 96.54 96.96 | 95.42 95.85 96.41 96.85 | 95.42 95.85 96.40 96.85 | 1.9 1.8 2.4 1.8 | 1.5 2.2 2.8 1.8 | 1.9 1.8 2.4 1.9 | 1.9 1.8 2.3 1.9 |
| 1995: I II IV | 7,480.4 7,496.0 7,555.0 7,616.8 | 7,419.1 7,462.3 7,543.4 7,597.3 | 7,502.7 7,522.0 7,566.7 7,640.6 | 1.5 .8 3.2 3.3 | 2.2 2.3 4.4 2.9 | 97.56 97.96 98.39 98.86 | 97.60 98.12 98.49 98.91 | 97.55 97.95 98.38 98.85 | 97.55 97.95 98.38 98.85 | 2.9 1.6 1.8 1.9 | 2.7 2.1 1.5 1.7 | 2.9 1.7 1.8 1.9 | 2.9 1.7 1.8 1.9 |
| 1996: i II III | 7,671.4 7,800.5 7,843.3 7,937.5 | 7,664.6 7,770.9 7,793.5 7,903.7 | 7,698.7 7,818.3 7,854.7 7,953.3 | 2.9 6.9 2.2 4.9 | 3.6 5.7 1.2 5.8 | 99.46 99.77 100.21 100.56 | 99.48 99.77 100.14 100.62 | 99.45 99.77 100.20 100.55 | 99.45 99.77 100.20 100.56 | 2.5 1.3 1.8 1.4 | 2.3 1.2 1.5 1.9 | 2.5 1.3 1.7 1.4 | 2.5 1.3 1.7 1.4 |
| 1997: V | 8,033.4 8,134.8 8,214.8 8,277.3 | 7,981.1 8,042.0 8,155.3 8,204.3 | 8,038.1 8,144.0 8,216.2 8,277.2 | 4.9 5.1 4.0 3.1 | 4.0 3.1 5.8 2.4 | 101.14 101.53 101.83 102.15 | 101.09 101.23 101.48 101.76 | 101.15 101.53 101.82 102.12 | 101.16 101.54 101.83 102.13 | 2.4 1.5 1.2 1.3 | 1.9 .6 1.0 1.1 | 2.4 1.5 1.1 1.2 | 2.4 1.5 1.2 1.2 |
| 1998: I II III IV | 8,412.7 8,457.2 8,536.0 8,659.2 | 8,307.0 8,410.4 8,459.6 8,588.3 | 8,414.8 8,456.6 8,510.6 8,641.9 | 6.7 2.1 3.8 5.9 | 5.1 5.1 2.4 6.2 | 102.41 102.70 103.06 103.28 | 101.79 101.99 102.26 102.51 | 102.35 102.68 103.07 103.33 | 102.36 102.69 103.07 103.34 | 1.0 1.1 1.4 .9 | .1 .8 1.1 1.0 | .9 1.3 1.5 1.0 | .9 1.3 1.5 1.0 |
| 1999: \ | 8,737.9 8,778.6 8,900.6 9,050.9 | 8,685.2 8,757.9 8,855.8 8,976.3 | 8,723.3 8,764.3 8,885.5 | 3.7 1.9 5.7 6.9 | 4.6 3.4 4.5 5.6 | 103.79 104.13 104.41 104.93 | 102.92 103.40 103.85 104.44 | 103.83 104.19 104.46 104.98 | 103.84 104.19 104.47 | 2.0 1.3 1.1 2.0 | 1.6 1.9 1.7 2.3 | 2.0 1.4 1.1 2.0 | 2.0 1.4 1.0 |

D. Domestic Perspectives_

This table presents data collected from other government agencies and private organizations, as noted. Quarterly data are shown in the middle month of the quarter.

Table D.1.—Domestic Perspectives

| | | | | | | | | | | | | 2000 | | | | |
|--|---|--|---|-----------------------------|---|---|----------------------------------|---------------------------------|----------------------------------|--|---|---|--|--|---------------------------------|---------------------------------------|
| | 1998 | 1999 | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. |
| | | | | | l | | <u></u> | | <u> </u> | ta season | | <u></u> | | l | | l |
| Consumer price index for all urban consumers, 1982-84=100: All items | 163.0 | 166.6 | 164.4 | 164.7 | 164.8 | 165.1 | 166.2 | 166.2 | 166.2 | 166.7 | 167.2 | 167.8 | 168.1 | 168.4 | 168.8 | 169.1 |
| Less food and energy | 173.4 184.2 | 177.0 188.8 | 175.5 | 175.8 | 175.8 | 176.1 187.6 | 176.7 | 176.8 188.3 | 177.0 | 177.4 | 177.5 189.4 | 178.1 | 178.4 | 178.7 190.8 | 178.9 | |
| Producer price index, 1982=100: Finished goods Less food and energy Finished consumer goods Capital equipment Intermediate materials | 130.7 143.7 128.9 137.6 123.0 | 133.1 146.1 132.1 137.6 123.2 | 131.1 145.8 129.5 137.6 121.2 | 137.6 121.1 | 129.5 137.7 120.8 | 131.6 145.6 130.1 137.5 121.1 | 145.7 130.9 137.6 121.9 | 137.7 122.3 | 145.8 131.3 137.5 122.7 | 132.7 145.7 131.7 137.3 123.5 | 133.5 145.8 132.7 137.4 124.1 | 134.6 146.7 134.1 137.6 124.7 | 125.1 | 125.5 | 134.5 138.0 125.8 | 146.7 134.5 138.1 126.3 |
| Crude materials | 96.8 | 98.2 | 90.2 | 91.1 | 88.9 | 89.6 | <u> </u> | L | 96.9 | <u> </u> | 102.1 | 106.8 | 105.1 | 108.9 | 104.6 | 107.4 |
| M | | | | | | | vioney, int | erest rate | s, and su | ock prices | | | | | | |
| Money stock (monthly and quarterly data seasonally adjusted): ² Percent change: M1 M2 | | | 0.34 .75 | -0.13 .58 | | 0.65 .36 | | -0.49 .51 | | | -0.10 .42 | | 0.52 .39 | 0.82 .44 | 1.37 .63 | 0.31 .50 |
| Ratio: Gross domestic product to M1 Personal income to M2 | 8.106 1.743 | 8.394 1.716 | | | 8.269 | 1.715 | 1.713 | 8.292 1.711 | 1.718 | | 8.470 1.714 | | 1.722 | 8.543 1.721 | | 1.719 |
| Interest rates (percent, not seasonally adjusted): ² Federal funds rate | 5.35 4.81 6.44 5.26 5.09 6.94 8.35 | 4.97 4.66 7.00 5.65 5.43 7.43 8.00 | | 5.01 6.79 | 5.00 5.03 6.81 | 4.81 4.48 6.52 5.23 5.10 7.04 7.75 | 5.18 5.08 6.92 | | 5.90 5.37 7.55 | 4.99 4.60 7.20 5.79 5.36 7.63 8.00 | 5.07 4.76 7.36 5.94 5.58 7.94 8.06 | 7.38 5.92 5.69 7.82 | 5.20 4.88 7.51 6.11 5.92 7.85 8.25 | 5.42 5.07 7.35 6.03 5.86 7.74 8.37 | 6.28 | 7.83 6.66 |
| Index of stock prices (not seasonally adjusted); ³ 500 common stocks, 1941–43=10 | 1,084.31 | 1,326.06 | 1,190.05 | 1,248.77 | 1,246.58 | 1,281.66 | 1,334.76 | 1,332.07 | 1,322.55 | 1,380.99 | 1,327.49 | 1,318.17 | 1,300.01 | 1,391.00 | 1,428.68 | 1,425.59 |
| | | | Lab | or market | s (thousa | nds, mont | thly and q | uarterly d | ata seaso | nally adju | sted, unle | ess otherv | vise noted | l) ¹ | | · · · · · · · · · · · · · · · · · · · |
| Civilian labor forceLabor force participation rates (percent): | 137,673 | 139,368 | 138,545 | 139,232 | 139,137 | 138,804 | 139,086 | 139,013 | 139,332 | 139,336 | 139,372 | 139,475 | 139,697 | 139,834 | 140,108 | 140,910 |
| Males 20 and over | 76.8 60.4 52.8 131,463 | 76.7 60.7 52.0 133,488 | 76.8 60.6 52.8 132,517 | 52.4 | 52.9 | 76.7 60.7 52.0 132,976 | 76.7 60.8 52.0 133,054 | 76.6 60.7 51.9 133,190 | 60.9 51.4 | 76.6 60.7 51.8 133,399 | 76.6 60.7 51.2 133,530 | 60.6 51.5 | 52.1 | 60.7 52.1 | 76.6 60.7 52.3 134,420 | 77.0 61.2 52.1 135,221 |
| population (percent) Persons engaged in nonagricultural activities Employees on nonagricultural payrolls Goods-producing industries Services-producing industries Average weekly hours, manufacturing (hours) Average weekly overtime hours, manufacturing | 64.1 128,085 125,826 25,347 100,480 41.7 | 128,616 25,240 | 127,186 | 127,378 25,315 | 64.3 129,701 127,730 25,329 102,401 41.6 | 64.2 129,686 127,813 25,285 102,528 41.5 | 128,134 25,288 102,846 | 128,162 | 128,443 25,180 | 128,816 25,247 | 64.2 130,296 128,945 25,148 103,797 41.8 | 129,048 25,186 103,862 | 25,198 | 129,589 25,257 104,332 | 129,905 25,275 | 25,406 |
| (hours) | 4.6 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | | | | 4.7 | 4.7 | | 4.7 | 4.6 | | 4.6 |
| Number of persons unemployed | 6,210 4.5 1.2 14.5 | 5,880 4.2 1.1 13.4 | 6,028 4.4 1.1 14.0 | 6,007 4.3 1.1 13.5 | 6,108 4.4 1.1 13.8 | 5,828 4.2 1.1 13.6 | 4.3 1.1 | 5,823 4.2 1.1 13.4 | 5,934 4.3 1.2 14.3 | 5,937 4.3 1.1 13.5 | 5,842 4.2 1.0 13.2 | 4.2 1.0 | 5,757 4.1 1.0 13.2 | | 4.1 1.0 | 5,689 4.0 1.0 13.2 |
| Nonfarm business sector, 1992=100: Output per hour of all persons Unit labor costs Hourly compensation | 110.2 108.6 119.7 | 113.4 110.6 | *************************************** | | 112.2 109.8 | | | 112.4 | | | 113.8 110.9 | | | 115.2 110.6 | | |

See footnotes at the end of the table.

Table D.1.—Domestic Perspectives—Continued

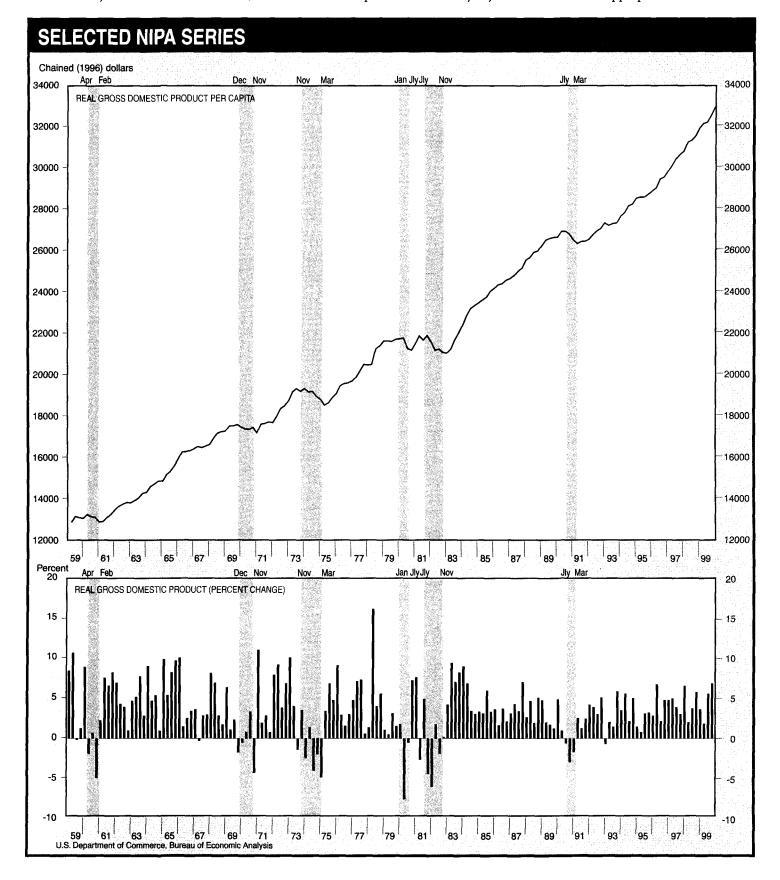
| | 1998 1999 2000 | | | | | | | | | 0000 | | | | | | |
|--|---|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------|
| | 1998 | 1999 | 1998 Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. |
| | | | | | | | | | | | | Сора | | | 500. | <u> </u> |
| | | | | | Co | nstruction | (monthly d | ata season | ally adjuste | ed at annua | af rates) * | | | | | |
| Total new private construction put in place (billions of dollars) | 520.1 294.3 181.9 | | 541.6 310.3 190.0 | 543.5 315.8 185.8 | 548.7 318.5 189.0 | 555.4 323.1 189.3 | 547.9 322.2 184.4 | 546.9 321.8 184.2 | 546.9 320.9 182.9 | 546.0 320.3 183.3 | 541.8 319.7 181.0 | 540.9 320.0 180.9 | 543.8 322.7 180.8 | 549.3 325.7 183.0 | 556.3 330.1 183.7 | |
| Housing starts (thousands of units): Total 1-unit structures | 1,617 1,271 | 1,665 1,333 | 1,792 1,412 | 1,804 1,393 | 1,738 1,379 | 1,737 1,377 | 1,561 1,248 | 1,649 1,368 | 1,562 1,269 | 1,704 1,348 | 1,657 1,285 | 1,628 1,290 | 1,636 1,343 | 1,663 1,344 | 1,748 1,426 | 1,775 1,396 |
| New 1-family houses sold (thousands of units) | 886 | 904 | 958 | 908 | 909 | 885 | 952 | 914 | 932 | 929 | 912 | 860 | 919 | 861 | 900 | |
| | | <u></u> | | Manufactu | ring and tra | ade, invente | ories and s | ales (millio | ns of dolla | rs, monthly | data seas | onally adju | sted) ⁴ | | | |
| Inventories: Total manufacturing and trade Manufacturing Merchant wholesalers Retail trade | 1,094,345 466,798 286,705 340,842 | 470,951 305,005 | 1,094,345 466,798 286,705 340,842 | 1,095,209 464,867 286,698 343,644 | 464,198 | 1,103,619 463,578 289,360 350,681 | 1,105,654 463,194 289,636 352,824 | 1,108,901 463,742 290,216 354,943 | 1,112,311 462,690 291,367 358,254 | 465,043 293,982 | 1,119,251 464,351 295,558 359,342 | 1,124,016 465,669 298,469 359,878 | 467,522 299,793 | 1,139,025 469,836 303,649 365,540 | 1,145,115 470,951 305,005 369,159 | |
| Merchant wholesalers | 9,333,267 4,052,248 2,535,008 2,746,011 | 4,259,076 2,721,795 | 795,774 344,247 215,061 236,466 | 794,865 341,673 213,597 239,595 | 803,481 343,724 216,138 243,619 | 812,055 349,065 219,595 243,395 | 812,237 347,568 219,921 244,748 | 821,761 350,624 223,909 247,228 | 829,593 354,702 227,863 247,028 | 834,062 357,301 227,293 249,468 | 844,439 361,844 229,827 252,768 | 842,647 358,709 231,135 252,803 | 846,797 360,201 233,048 253,548 | 859,289 364,971 237,464 256,854 | 868,827 367,353 240,142 261,332 | |
| | | | | Industr | ial product | ion indexes | and capa | city utilizati | ion rates (r | nonthly dat | a seasona | lly adjusted | l) ² | | | |
| Industrial production indexes, 1992=100: Total | 132.4 | 137.1 | 133.8 | 134.1 | 134.5 | 135.1 | 135.5 | 136.2 | 136.6 | 137.4 | 137.7 | 138.1 | 139.1 | 139.5 | 140.1 | 141.5 |
| Durable manufactures Nondurable manufactures By market category: Consumer goods | 160.7 111.6 116.2 | 111.8 | 166.2 111.1 115.1 | 166.3 111.3 116.3 | . 166.8 112.3 117.2 | 168.1 111.8 116.7 | 169.4 111.5 116.5 | 170.8 111.9 116.8 | 172.2 111.3 117.0 | 173.8 111.0 116.8 | 174.4 111.5 117.6 | | | 177.2 113.6 117.7 | 113.5 | 180.4 113.9 119.3 |
| Capacity utilization rates (percent): Total industry Manufacturing | 81.8 80.9 | 80.7 | 80.6 79.9 | 80.4 79.6 | 80.4 79.7 | 80.5 79.6 | 80.4 79.5 | 80.5 79.7 | 80.5 79.6 | 80.7 79.7 | 80.6 79.7 | | 81.0 80.2 | 81.0 80.3 | 81.1 80.2 | 81.6 |
| | Credit market borrowing (billions of dollars, quarterly data seasonally adjusted at annual rates) 2 | | | | | | | | | | | | | | | |
| All sectors, by instrument: Total Open market paper U.S. government securities Municipal securities Corporate and foreign bonds Bank loans, n.e.c. Other loans and advances Mortgages Consumer credit | 193.1 418.3 96.8 535.6 145.0 158.5 511.4 | | | | 62.1 189.8 | | | 34.1 467.0 48.0 564.8 38.3 98.9 | | | 187.0 570.1 74.8 380.2 99.6 231.5 | | | | | |

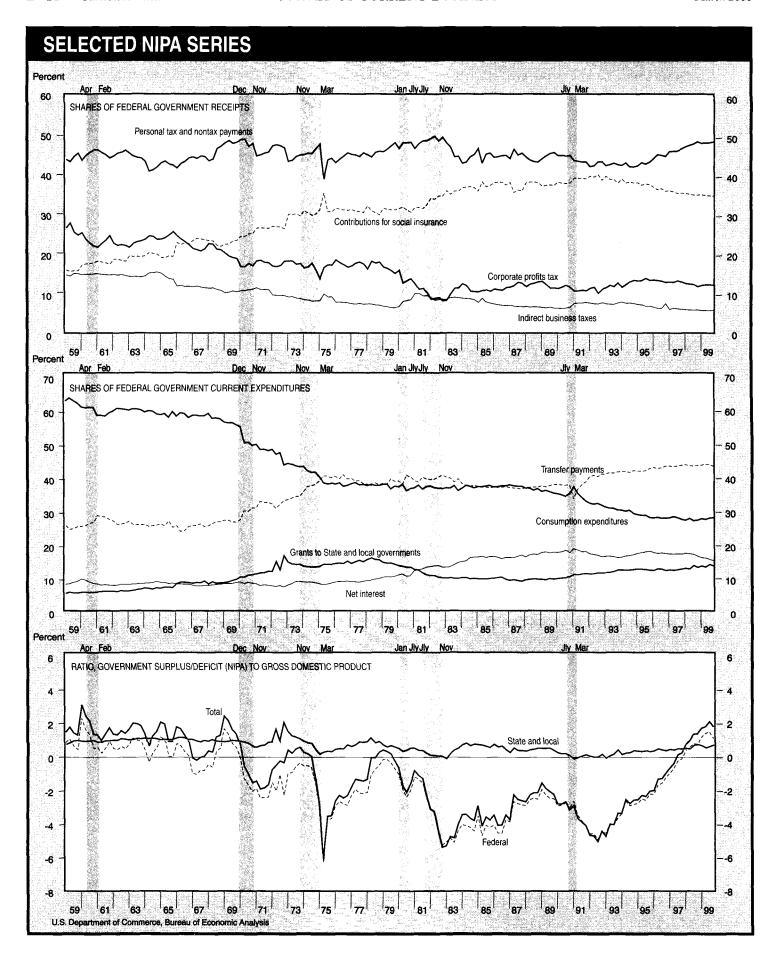
Standard and Poor's, Inc.
 Bureau of the Census
 n.e.c. Not elsewhere classified

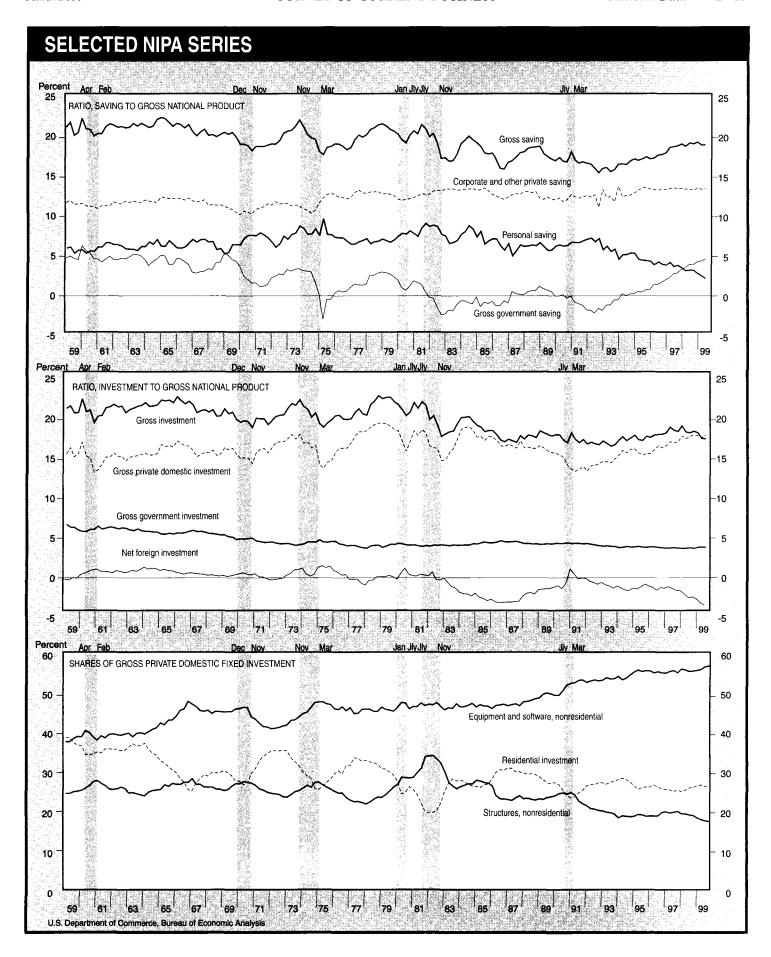
Sources: 1. Bureau of Labor Statistics 2. Federal Reserve Board

E. Charts

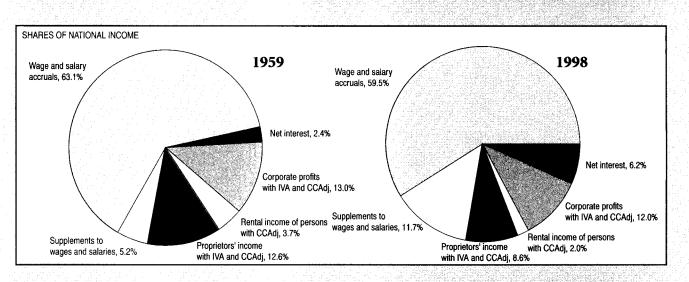
Percent changes shown in this section are based on quarter-to-quarter changes and are expressed at seasonally adjusted annual rates; likewise, levels of series are expressed at seasonally adjusted annual rates as appropriate.

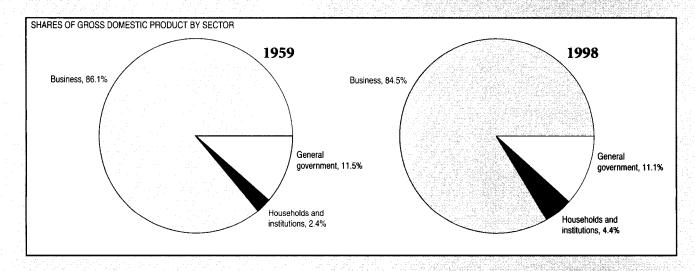


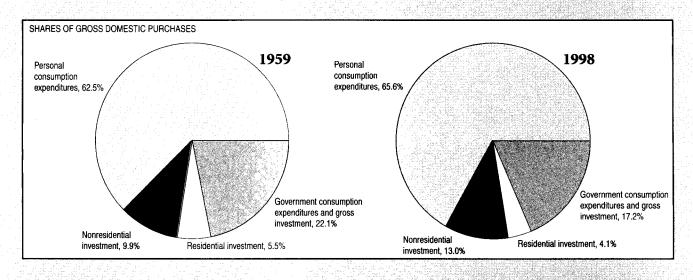




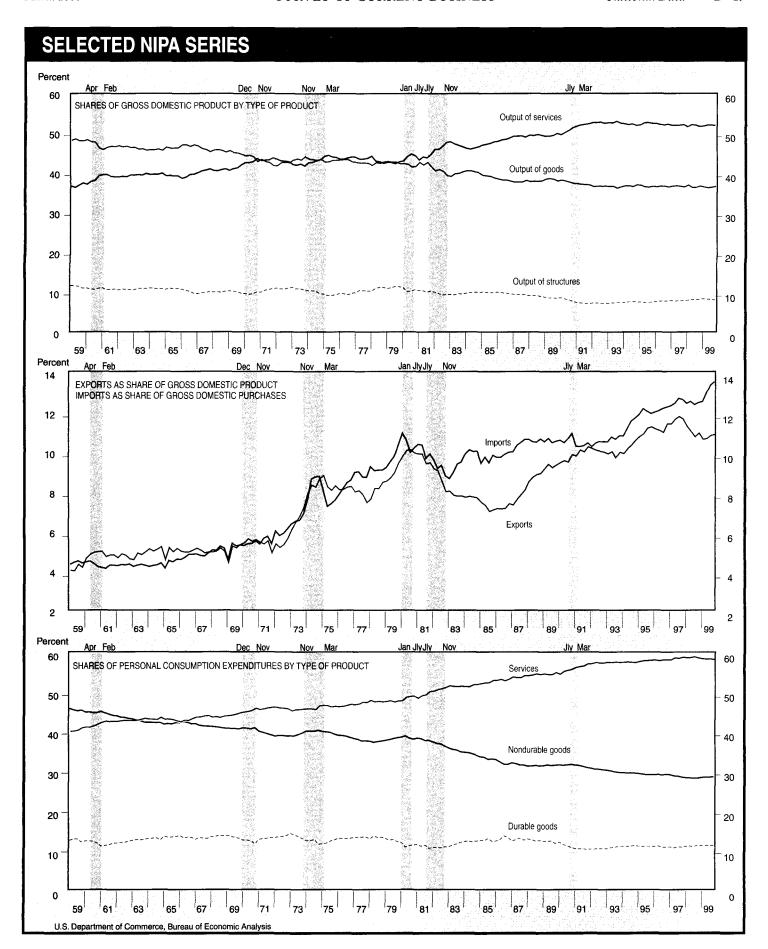


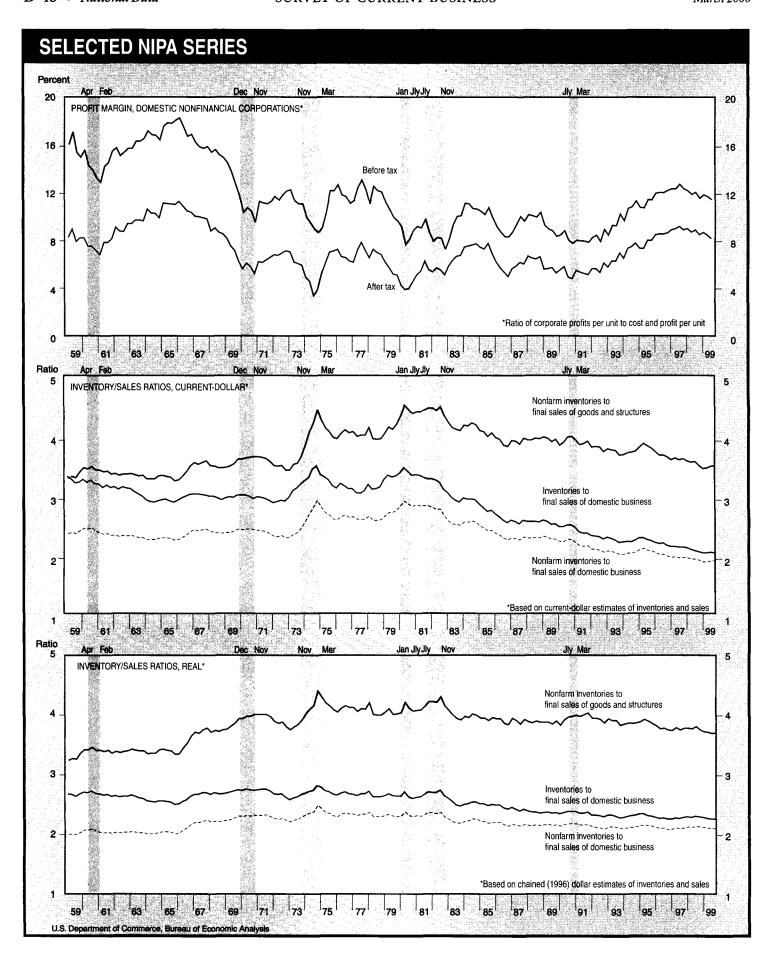


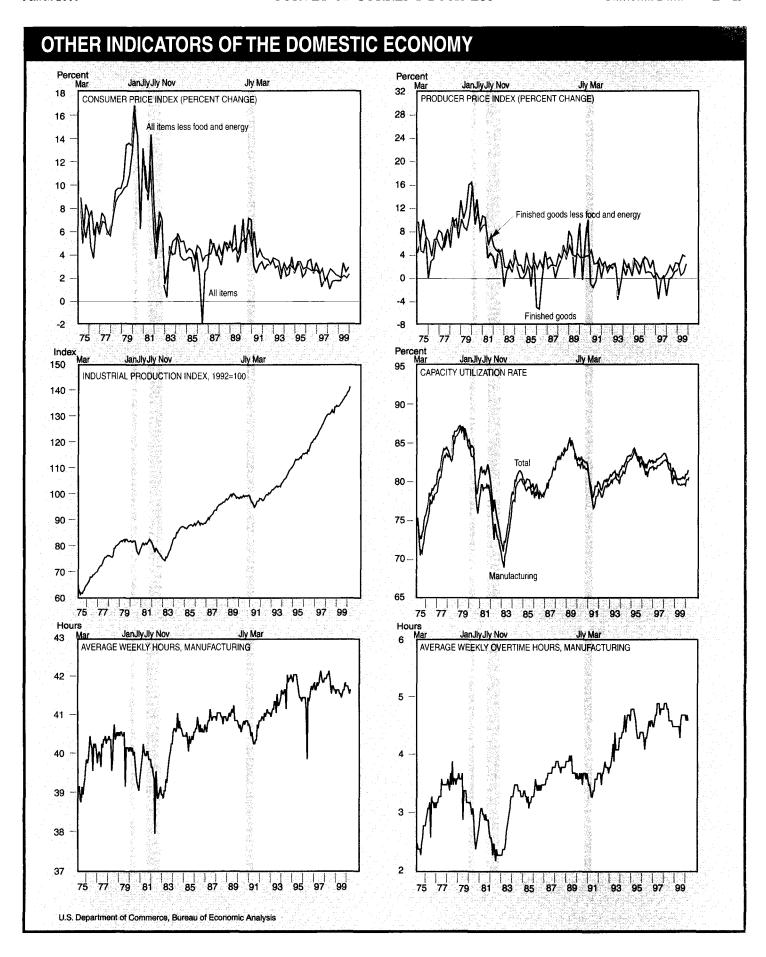


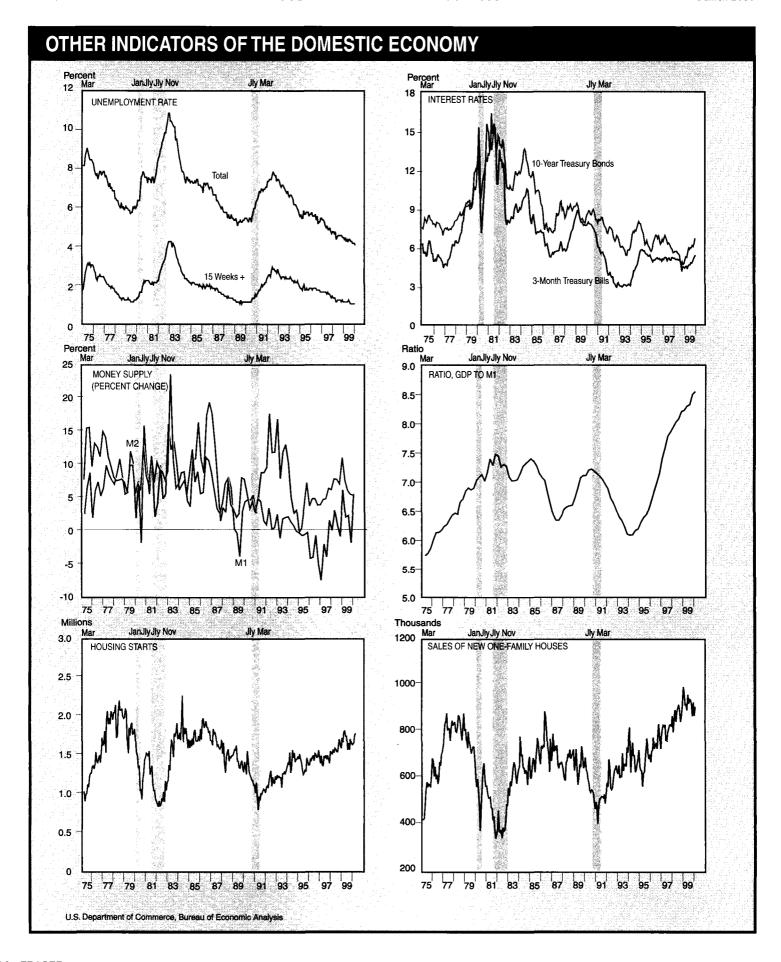


U.S. Department of Commerce, Bureau of Economic Analysis









International Data

F. Transactions Tables.

Table F.1 includes the most recent estimates of U.S. international trade in goods and services; the estimates were released on February 18, 2000 and include "preliminary" estimates for December 1999 and "revised" estimates for January-November 1999. The sources for the other tables in this section are as noted.

Table F.1.—U.S. International Transactions in Goods and Services [Millions of dollars; monthly estimates seasonally adjusted]

| | 1998 | 1999 | 1998 | | | 1999 | | | | | | | | | | | |
|---|-----------|-----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1990 | 1888 | Oct. | Nov. | Dec. | Jan. " | Feb. " | Mar. " | Apr." | May | June - | July | Aug." | Sept." | Oct." | Nov." | Dec.P |
| Exports of goods and services | 933,907 | 958,491 | 79,617 | 79,126 | 78,161 | 77,738 | 76,930 | 76,952 | 77,967 | 77,798 | 78,462 | 78,721 | 82,077 | 81,930 | 82,240 | 82,503 | 85,173 |
| Goods Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments ¹ | 670,246 | 683,021 | 57,193 | 56,926 | 56,005 | 55,168 | 54,609 | 54,231 | 55,174 | 55,026 | 55,377 | 55,796 | 59,045 | 58,839 | 58,833 | 59,184 | 61,739 |
| | 46,397 | 45,339 | 4,018 | 3,866 | 3,992 | 3,627 | 3,588 | 3,545 | 3,727 | 3,722 | 3,828 | 3,799 | 3,919 | 4,018 | 4,025 | 3,703 | 3,837 |
| | 148,266 | 146,957 | 12,371 | 12,483 | 11,832 | 11,252 | 11,366 | 11,413 | 11,590 | 11,730 | 11,704 | 11,511 | 12,506 | 13,110 | 13,296 | 13,804 | 13,675 |
| | 299,612 | 310,591 | 26,117 | 25,696 | 25,470 | 25,576 | 24,852 | 24,858 | 25,043 | 24,911 | 24,799 | 25,699 | 27,314 | 26,681 | 26,316 | 26,222 | 28,320 |
| | 73,157 | 74,666 | 6,156 | 6,341 | 6,186 | 6,039 | 5,958 | 5,834 | 6,164 | 6,076 | 6,490 | 6,087 | 6,681 | 6,193 | 6,301 | 6,240 | 6,602 |
| | 79,261 | 80,619 | 6,620 | 6,647 | 6,530 | 6,562 | 6,794 | 6,507 | 6,727 | 6,490 | 6,533 | 6,643 | 6,571 | 6,901 | 6,738 | 6,902 | 7,251 |
| | 35,444 | 36,837 | 3,119 | 3,500 | 3,181 | 3,065 | 3,162 | 3,112 | 2,918 | 3,239 | 3,224 | 3,089 | 2,908 | 3,085 | 3,057 | 2,990 | 2,988 |
| | –11,892 | —11,988 | -1,208 | -1,608 | ~1,186 | -953 | -1,113 | -1,038 | -994 | -1,143 | -1,202 | -1,032 | -855 | -1,149 | -900 | -676 | -934 |
| Services Travel Passenger fares Other transportation Royalties and license fees Other private services Transfers under U.S. military agency sales con- | 263,661 | 275,470 | 22,424 | 22,200 | 22,156 | 22,570 | 22,321 | 22,721 | 22,793 | 22,772 | 23,085 | 22,925 | 23,032 | 23,091 | 23,407 | 23,319 | 23,434 |
| | 71,250 | 73,685 | 5,953 | 5,904 | 6,081 | 5,973 | 6,031 | 6,134 | 6,183 | 6,097 | 6,157 | 6,093 | 6,052 | 6,177 | 6,342 | 6,229 | 6,217 |
| | 19,996 | 21,041 | 1,627 | 1,626 | 1,590 | 1,621 | 1,659 | 1,715 | 1,731 | 1,743 | 1,766 | 1,760 | 1,768 | 1,804 | 1,871 | 1,805 | 1,798 |
| | 25,518 | 27,273 | 2,253 | 2,197 | 2,125 | 2,128 | 2,129 | 2,244 | 2,239 | 2,212 | 2,280 | 2,252 | 2,342 | 2,327 | 2,368 | 2,367 | 2,385 |
| | 36,808 | 37,399 | 3,266 | 3,314 | 3,314 | 3,144 | 3,105 | 3,088 | 3,122 | 3,123 | 3,120 | 3,106 | 3,104 | 3,107 | 3,120 | 3,124 | 3,136 |
| | 92,116 | 98,641 | 7,821 | 7,672 | 7,747 | 7,879 | 8,037 | 8,179 | 8,159 | 8,146 | 8,226 | 8,247 | 8,213 | 8,236 | 8,344 | 8,449 | 8,526 |
| tracts 2 U.S. Government miscellaneous services | 17,155 | 16,568 | 1,435 | 1,417 | 1,229 | 1,757 | 1,291 | 1,292 | 1,289 | 1,380 | 1,430 | 1,399 | 1,485 | 1,373 | 1,293 | 1,276 | 1,303 |
| | 818 | 863 | 69 | 70 | 70 | 68 | 69 | 69 | 70 | 71 | 106 | 68 | 68 | 67 | 69 | 69 | 69 |
| Imports of goods and services | 1,098,189 | 1,229,802 | 93,975 | 93,789 | 92,402 | 93,944 | 95,505 | 96,323 | 96,910 | 99,340 | 103,240 | 104,120 | 106,089 | 106,142 | 107,861 | 109,606 | 110,722 |
| Goods Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments ¹ | 917,178 | 1,030,152 | 78,183 | 78,464 | 77,064 | 78,577 | 79,841 | 79,971 | 80,568 | 82,984 | 86,616 | 87,277 | 89,236 | 89,110 | 90,707 | 92,053 | 93,212 |
| | 41,243 | 43,586 | 3,432 | 3,445 | 3,515 | 3,525 | 3,513 | 3,381 | 3,546 | 3,632 | 3,757 | 3,671 | 3,667 | 3,707 | 3,634 | 3,722 | 3,830 |
| | 200,140 | 221,567 | 16,549 | 16,241 | 15,289 | 15,540 | 15,390 | 16,040 | 16,967 | 17,977 | 18,202 | 18,673 | 19,934 | 20,254 | 20,842 | 20,703 | 21,044 |
| | 269,557 | 296,870 | 22,948 | 23,132 | 22,466 | 23,089 | 23,652 | 23,045 | 23,286 | 24,205 | 25,467 | 25,499 | 25,141 | 24,935 | 25,851 | 26,274 | 26,426 |
| | 149,054 | 179,519 | 13,045 | 13,377 | 13,887 | 13,955 | 14,271 | 14,577 | 13,672 | 14,553 | 15,439 | 15,432 | 15,693 | 15,325 | 15,040 | 15,515 | 16,048 |
| | 216,515 | 239,591 | 18,402 | 18,470 | 18,362 | 18,901 | 19,436 | 18,915 | 19,341 | 18,898 | 19,909 | 20,193 | 20,235 | 20,255 | 20,919 | 21,188 | 21,399 |
| | 35,387 | 43,899 | 3,217 | 3,278 | 3,278 | 3,395 | 3,366 | 3,786 | 3,485 | 3,505 | 3,565 | 3,612 | 4,098 | 3,771 | 3,907 | 3,730 | 3,679 |
| | 5,282 | 5,120 | 592 | 522 | 267 | 171 | 213 | 226 | 271 | 213 | 277 | 197 | 468 | 863 | 514 | 922 | 786 |
| Services Travel Passenger fares Other transportation Royalties and license fees Other private services Direct defense expenditures 2 U.S. Government miscellaneous services | 181,011 | 199,650 | 15,792 | 15,325 | 15,338 | 15,367 | 15,664 | 16,352 | 16,342 | 16,356 | 16,624 | 16,843 | 16,853 | 17,032 | 17,154 | 17,553 | 17,510 |
| | 56,105 | 60,744 | 4,832 | 4,602 | 4,697 | 4,742 | 4,890 | 5,215 | 5,057 | 4,951 | 4,952 | 5,033 | 5,028 | 5,130 | 5,233 | 5,291 | 5,222 |
| | 19,797 | 21,424 | 1,771 | 1,695 | 1,659 | 1,627 | 1,678 | 1,809 | 1,767 | 1,758 | 1,791 | 1,833 | 1,801 | 1,822 | 1,833 | 1,867 | 1,838 |
| | 30,457 | 34,557 | 2,760 | 2,588 | 2,501 | 2,508 | 2,528 | 2,690 | 2,695 | 2,739 | 2,928 | 2,961 | 3,108 | 3,033 | 3,017 | 3,180 | 3,170 |
| | 11,292 | 12,403 | 950 | 974 | 999 | 1,040 | 1,061 | 1,075 | 1,077 | 1,070 | 1,050 | 981 | 968 | 972 | 1,012 | 1,039 | 1,058 |
| | 47,670 | 52,659 | 4,108 | 4,082 | 4,086 | 4,064 | 4,113 | 4,158 | 4,321 | 4,398 | 4,446 | 4,519 | 4,456 | 4,477 | 4,499 | 4,594 | 4,614 |
| | 12,841 | 14,946 | 1,120 | 1,135 | 1,151 | 1,157 | 1,168 | 1,178 | 1,186 | 1,197 | 1,210 | 1,265 | 1,240 | 1,345 | 1,309 | 1,332 | 1,359 |
| | 2,849 | 2,917 | 251 | 249 | 245 | 229 | 226 | 227 | 239 | 243 | 247 | 251 | 252 | 253 | 251 | 250 | 249 |
| Memoranda: Balance on goods Balance on services Balance on goods and services | -246,932 | -347,130 | 20,990 | -21,539 | -21,059 | -23,409 | -25,232 | -25,740 | -25,393 | -27,958 | -31,239 | -31,481 | -30,191 | -30,271 | -31,875 | -32,869 | -31,472 |
| | 82,650 | 75,820 | 6,632 | 6,875 | 6,818 | 7,203 | 6,657 | 6,369 | 6,451 | 6,416 | 6,461 | 6,082 | 6,179 | 6,059 | 6,253 | 5,766 | 5,924 |
| | -164,282 | -271,310 | 14,358 | -14,664 | -14,241 | -16,206 | -18,575 | -19,371 | -18,942 | -21,542 | -24,778 | -25,399 | -24,012 | -24,212 | -25,622 | -27,103 | -25,548 |

Contains goods that cannot be separately identified.Source: U.S. Department of Commerce, Bureau of Economic Analysis and Bureau of the Census

P Preliminary.

Revised.

Reflects adjustments necessary to bring the Census Bureau's component data in line with the concepts and definitions used to prepare BEA's international and national accounts.

Table F.2.—U.S. International Transactions

[Millions of dollars]

| | | Not seasonally adjusted | | | | | 1 | Seasonally adjusted | | | | | | |
|----------------|--|-------------------------|---------------------|---------------------------|----------------------------|---------------------------|------------------------------|---------------------|---------------------|---------------------------|---------------------------|-------------------------|-----------------------|---------------------------|
| Line | (Credits +; debits) 1 | 1998 | | 1998 | or ocusona | ny dojotica | 1999 | | | 1998 | Cogornan | 40,000.00 | 1999 | |
| L.1.0 | (Oronia 1, donta 1) | 1000 | | III | IV | 1 | 1117 | P | l 1 | 1000 | IV | - | 1000 | <i>P</i> |
| _ | Current account | | | | | | | | | | | | | |
| 1 | Exports of goods and services and income receipts | 1,192,231 | 299,641 | 288,254 | 303,581 | 293,632 | 302,257 | 308,910 | 298,463 | 291,493 | 299,985 | 295,932 | 301,369 | 312,189 |
| 2 | Exports of goods and services | 933,907 | 232,905 | 226,261 | 241,003 | 229,124 | 235,175 | 239,619 | 231,889 | 229,284 | 236,904 | 231,904 | 234,512 | 242,626 |
| 3 | Goods, balance of payments basis 2 | 670,246 | 168,021 | 157,386 | 174,468 | 163,344 | 168,453 | 166,436 | 165,198 | 164,259 | 170,124 | 164,292 | 165,862 | 173,578 |
| 4 5 | Services ³ | 263,661 17,155 | 64,884 4,489 | 68,875 3,979 | 66,535 4,081 | 65,780 4,340 | 66,722 4,099 | 73,183 4,257 | 66,691 4,489 | 65,025 3,979 | 66,780 4,081 | 67,612 4,340 | 68,650 4,099 | 69,048 4,257 |
| 6 | Travel | 71,250 | 18,119 | 20,354 | 17,125 | 15,809 | 18,271 | 21,661 | 18,260 | 17,149 | 17,938 | 18,138 | 18,437 | 18,322 |
| 7 | Passenger fares | 19,996 | 5,000 | 5,733 | 4,682 | 4,651 | 5,049 | 6,051 | 5,185 | 5,052 | 4,843 | 4,995 | 5,240 | 5,332 |
| 8 | Other transportation | 25,518 36,808 | 6,261 8,716 | 6,367 8,866 | 6,689 10,571 | 6,362 9,124 | 6,727 9,063 | 6,951 9,189 | 6,268 9,002 | 6,339 9,029 | 6,575 9,894 | 6,501 9,337 | 6,731 9,365 | 6,921 9,317 |
| 10 | Other private services 5 | 92,116 | 22,108 | 23,377 | 23,178 | 25,288 | 23,266 | 24,871 | 23,296 | 23,278 | 23,240 | 24,095 | 24,531 | 24,696 |
| 11 | U.S. Government miscellaneous services | 818 | 191 | 199 | 209 | 206 | 247 | 203 | 191 | 199 | 209 | 206 | 247 | 203 |
| 12 13 | Income receipts on U.Sowned assets abroad | 258,324 256,467 | 66,736 66,273 | 61,993 61,528 | 62,578 62,113 | 64,508 64,038 | 67,082 66,611 | 69,291 68,821 | 66,574 66,111 | 62,209 61,744 | 63,081 62,617 | 64,028 63,558 | 66,857 66,386 | 69,563 69,093 |
| 14 | Direct investment receipts | 102,846 | 27,095 | 22,779 | 25,168 | 27,313 | 28,890 | 29,539 | 26,744 | 23,124 | 25,639 | 26,910 | 28,486 | 29,916 |
| 15 16 | Other private receipts | 150,001 3,620 | 38,412 766 | 37,744 1,005 | 36,019 926 | 35,760 965 | 37,072 649 | 38,426 856 | 38,412 955 | 37,744 876 | 36,019 959 | 35,760 888 | 37,072 828 | 38,426 751 |
| 17 | Compensation of employees | 1,857 | 463 | 465 | 465 | 470 | 471 | 470 | 463 | 465 | 464 | 470 | 471 | 470 |
| 18 | Imports of goods and services and income payments | | -341,493 | -351,539 | -351,384 | | -371,764 | -397,886 | -340,977 | -344,182 | | -354,246 | -371,066 | -390,934 |
| 19 | Imports of goods and services | | -273,914 | -282,050 | -283,536 | -275,023 | -299,857 | -323,064 | -273,850 | -275,008 -229,228 | -280,166 | -285,878 | -299,597 | -316,451 |
| 20 | Goods, balance of payments basis ² | -9 17,178 | -227,633 -46,281 | -232,395 -49,655 | -239,118 -44,418 | -230,903 -44,120 | -249,336 -50,521 | -268,109 -54,955 | -228,698 -45,152 | -229,228 -45,780 | -233,711 -46,455 | -238,495 -47,383 | -250,274 -49,323 | -265,723 -50,728 |
| 21 22 | Direct defense expenditures | -12,841 | -3,061 | -3,276 | -3,406 | | -3,593 | -3,850 | -3,061 | -3,276 | | -3,503 | -3,593 | -3,850 |
| 23 24 | Travel | -56,105 | -15,193 | -17,234 | -12,016 | -12,543 | -16,063 | -18,636 | -14,168 | -14,070 | | -14,847 | -14,960 | -15,191 |
| 24 25 | Passenger fares | -19,797 -30,457 | -5,325 -7,533 | -5,722 -7,820 | -4,518 -7,957 | -4,691 -7,554 | -5,711 -8,290 | -6,147 -9,230 | -4,958 -7,590 | -5,085 -7,700 | -5,125 -7,849 | -5,114 -7,726 | -5,316 -8,362 | -5,456 -9,102 |
| | Royalties and license fees 5 | -11,292 | -2,587 | -2,685 | -3,081 | -3,162 | -3,073 | -2,881 | -2,694 | -2,721 | -2,923 | -3,176 | -3,197 | -2,921 |
| 26 27 28 | Royalties and license fees 5 Other private services 5 U.S. Government miscellaneous services | -47,670 -2,849 | -11,915 -667 | -12,153 -765 | -12,695 -745 | -11,985 -682 | -13,062 -729 | -13,455 -756 | -12,014 -667 | -12,163 -765 | -12,276 -745 | -12,335 -682 | -13,166 -729 | -13,452 -756 |
| 29 | Income payments | -270,529 | -67,579 | -69,489 | -67.848 | -67,757 | -71,907 | -74.822 | -67,127 | -69.174 | | -68,368 | -71,469 | -74.483 |
| 30 31 | Income payments on foreign-owned assets in the United States | -263,423 | -65,898 | -67,631 | -65,907 | -66,024 | -70,138 | -72,871 | -65,376 | -67,381 | -66,188 | 66,504 | -69,611 | -72,613 |
| 31 32 | Direct investment payments | -43,441 -128,863 | -11,089 -31,849 | -11,540 -33,314 | -10,800 -32,408 | -11,596 -31,759 | -15,023 -31,960 | -14,517 -34,207 | -10,567 -31,849 | -11,290 -33,314 | | -12,076 -31,759 | -14,496 -31,960 | -14,259 -34,207 |
| 32 33 34 | U.S. Government payments | -9 1,119 | -22,960 | -22,777 | -22,699 | -22,669 | -23,155 | -24,147 | -22,960 | -22,777 | -22,699 | -22,669 | -23,155 | -24,147 |
| | Compensation of employees | 7,106 44,075 | -1,681 -9,494 | -1,858 - 10,607 | -1,941 - 13,83 1 | -1,733 - 10,420 | -1,769 - 10,744 | -1,951 -11,179 | -1,751 -9,886 | -1,793 - 10,787 | -1,826 - 13,474 | -1,864 -10,340 | -1,858 -11,212 | -1,870 - 11,204 |
| 35 36 37 | U.S. Government grants 4 U.S. Government pensions and other transfers | -13,057 | -2,168 | -2,807 | -5,742 | -2,200 | -2,760 | -2,700 | -2,168 | -2,807 | -5,742 | -2,200 | -2,760 | -2,700 |
| 37 38 | U.S. Government pensions and other transfers | -4,350 -26,668 | -919 -6,407 | -865 -6,935 | -1,541 -6,548 | -893 -7,327 | 857 7,127 | -997 -7,482 | -1,095 -6,623 | -1,106 -6,874 | -1,071 -6,661 | -1,104 -7,036 | -1,116 -7,336 | -1,107 -7,397 |
| ω, | Capital and financial account | -20,000 | 0,707 | -0,000 | -0,510 | -7,027 | 7,121 | -7,402 | 0,020 | -0,074 | 0,001 | 7,000 | 1,000 | -7,007 |
| | Capital account | | | | | | | |] | | | | | |
| 39 | Capital account transactions, net | 617 | 160 | 148 | 166 | 166 | 178 | 166 | 160 | 148 | 166 | 166 | 178 | 166 |
| | Financial account | | | | | | | | | | | | | |
| 40 | U.Sowned assets abroad, net (increase/financial outflow (-)) | | -121,852 | -63,492 | -44,586 | -18,746 | -156,044 | -102,510 | -120,517 | -62,097 -2,026 | -50,607 | -15,148 | -154,713 | -101,483 |
| 41 42 | U.S. official reserve assets, net | -6,784 | -1,945 | -2,026 | -2,369 | 4,068 | 1,159 | 1,950 | -1,945 | -2,026 | -2,369 | 4,068 | 1,159 | 1,950 |
| 43 44 45 | Special drawing rights | -149 -5,118 | 72 -1,031 | 188 2,078 | -227 -1,924 | 563 3 | -190 1,413 | -185 2,268 | 72 -1,031 | 188 -2,078 | -227 -1,924 | 563 | -190 1,413 | -185 2,268 |
| 45 | Foreign currencies | -1,517 | -1,031 -986 | -2,076 -136 | -1,524 -218 | 3,502 | -64 | -133 | -1,031 -986 | -136 | -1,324 218 | 3,502 | -64 | -133 |
| 46 | U.S. Government assets, other than official reserve assets, net | -429 | -483 | 185 | -50 | 119 | -392 | -673 | -483 | 185 | -50 | 119 | -392 | -673 |
| 47 48 | U.S. credits and other long-term assets Repayments on U.S. credits and other long-term assets U.S. foreign currency holdings and U.S. short-term assets, net | -4,676 4,102 | -1,156 699 | -1,285 1,332 | -1,043 938 | -1,304 1,545 | -2,167 1,887 | -1,591 1,020 | -1,156 699 | -1,285 1,332 | 1,043 938 | -1,304 1,545 | -2,167 1,887 | -1,591 1,020 |
| 48 49 | U.S. foreign currency holdings and U.S. short-term assets, net | 145 | 26 | 138 | 55 | -122 | -112 | -102 | -26 | 138 | 55 | -122 | -112 | -102 |
| 50 51 | U.S. private assets, net | -285,605 -132,829 | -119,424 -44,507 | -61,651 -22,981 | -42,167 -24,752 | -22,933 -44,983 | -156,811 -32,897 | -103,787 -45,562 | -118,089 -43,172 | -60,256 -21,586 | | -19,335 -41,385 | -155,480 -31,566 | -102,760 -44,535 |
| 52 53 | Foreign securities | -102,817 | -32,886 | 14.994 | -70,809 | 8,132 | -64.579 | -26.511 | -32,886 | 14,994 | -70.809 | 8.132 | -64,579 | -26,511 |
| 53 54 | U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns U.S. claims reported by U.S. banks, not included elsewhere | -25,041 -24,918 | -14,327 -27,704 | -20,320 -33,344 | 16,202 37,192 | -13,853 27,771 | -16,816 -42,519 | -32,098 384 | -14,327 -27,704 | -20,320 -33,344 | 16,202 37,192 | -13,853 27,771 | -16,816 -42,519 | -32,098 384 |
| 55 | Farriage according to the Halted Clates and (increase/finencial inflam/s) | E00 607 | | 94,776 | | | 275,220 | | 162,466 | 93,547 | 149,805 | | | |
| 56 | Foreign official assets in the United States, net | -21,684 | -10,551 | -46,489 | 24,352 | 4,708 | -628 | 12,106 | -10,551 | -46,489 | 24,352 | 4,708 | -628 -916 | 12,106 |
| 57 58 59 | U.S. Treasury securities | -3,625 -9,957 | -20,318 | -30,905 -32,811 | 31,836 | 6,793 800 | -916 -6,708 | 14,812 12,880 | -20,064 -20,318 | -30,905 -32,811 | 31.836 | 800 | -6,708 | 14,812 12,880 |
| 59 60 | Other 19 Covernment liabilities 11 | 6,332 -3,113 | 254 -807 | 1,906 -224 | 1,562 -1,054 | 5,993 -1,594 | 5,792 -647 | 1,932 -1,163 | 254 -807 | 1,906 -224 | 1,562 -1,054 | 5,993 -1,594 | 5,792 647 | 1,932 -1,163 |
| 61 | U.S. liabilities reported by U.S. banks, not included elsewhere | -11,469 | 9,488 | -12,866 | -7,133 | -589 | 1,437 -502 | -1,832 289 | 9,488 | 12,866 | -7,133 | – 589 | 1,437 | -1.832 |
| 62 | Foreign official assets in the United States, net (increase interior interior) Foreign official assets in the United States, net U.S. Government securities U.S. Treasury securities 9 Other U.S. Government liabilities 11 U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets 12 | -3,477 | 832 | -2,494 | -859 | 98 | -502 | 289 | 832 | -2,494 | -859 | 98 | -502 | 289 |
| 63 64 | Other loreign assets in the United States, net | 103 375 | 173,826 21,755 | 141,265 26,135 | 123,541 118,593 | 83,928 22,725 | 275,848 155,322 -5,407 | 196,071 45,498 | 173,017 20,946 | 140,036 24,906 | 125,453 120,505 | 84,152 22,949 | 274,899 154,373 | 195,047 44,474 |
| 64 65 66 | U.S. Treasury securities U.S. securities other than U.S. Treasury securities U.S. currency U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns U.S. liabilities reported by U.S. banks, not included elsewhere | 46,155 | 21,755 25,759 | 26,135 -1,438 | 24,391 | -8,781 | -5,407 | 9,713 | 25,759 | -1,438 | 24,391 | -8.781 | -5,407 | 9,713 |
| 66 67 | U.S. securities other than U.S. Treasury securities | 218,026 16,622 | 71,785 2,349 | 20,103 7,277 | 49,328 6,250 | 61,540 2,440 | 79,067 3,057 | 93,062 4,697 | 71,785 2,349 | 20,103 7,277 | 49,328 6,250 | 61,540 2,440 | 79,067 3,057 | 93,062 4,697 |
| 68 | U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns | 9,412 | 18,040 | 11,875 | -53,210 | 20,188 | 8,871 | 12,136 | 18,040 | 11,875 | -53,210 | 20,188 | 8,871 | 12,136 |
| 69 | U.S. liabilities reported by U.S. banks, not included elsewhere | 40,731 | 34,138 | 77,313 | -21,811 | -14,184 | 34,938 | 30,965 | 34,138 | | | -14,184 | 34,938 | |
| 70 70a | Statistical discrepancy (sum of above items with sign reversed) | 10,126 | 9,763 | 42,460 | -41,839 | -10,488 | -39,103 | -5,678 | 10,291 528 | 31,878 -10,582 | | - 5,224 5,264 | -38,827 276 | 15,887 10,209 |
| | 88 * - | | | | | | | | | | | ., | | ., |
| 71 | Balance on goods (lines 3 and 20) | -246,932 | -59,612 | -75,009 | -64,650 | -67,559 | -80,883 | -101,673 | -63,500 | -64,969 | -63,587 | -74,203 | -84,412 | |
| 72 73 | Balance on goods and services (lines 2 and 19) | 82,650 164,282 | 18,603 41,009 | 19,220 -55,789 | 22,117 -42,533 | 21,660 -45,899 | 16,201 -64,682 | 18,228 83,445 | 21,539 -41,961 | 19,245 -45,724 | -43,262 | 20,229 -53,974 | 19,327 -65,085 | 18,320 -73,825 |
| 74 75 | Balance on income (lines 12 and 29) | -12,205 -44,075 | -843 -9,494 | -7,496 | -5,270 | -3,249 | -4,825 -10,744 | -5,531 | -553 -9,886 | -6,965 -10,787 | -4,933 | -4,340 -10,340 | -4,612 | -4,920 |
| 76 | Memorana: Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19) Balance on income (lines 12 and 29) Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) 13 | -44,075 -220,562 | -9,494 -51,346 | -10,607 -73,892 | -13,831 -61,634 | -10,420 -59,568 | -10,744 -80,251 | -11,179 -100,155 | -9,886 -52,400 | -10,787 -63,476 | -13,474 -61,669 | -10,340 -68,654 | -11,212 -80,909 | -11,204 -89,949 |
| | , | | | | , , | لتنتب | , | لتنبيب | | | | | | |

^{**}P Preliminary.

** Revised.

1. Credits, ** Exports of goods and services and income receipts; unilateral current transfers to the United States; capital account transactions receipts; financial inflows-increase in foreign-owned assets (U.S. liabilities) or decrease in U.S.-owned assets (U.S. claims).

**Debits, -* Imports of goods and services and income payments; unilateral current transfers to foreigners; capital account transactions payments; financial outflows-decrease in foreign-owned assets (U.S. liabilities) or increase in U.S.-owned assets (U.S. liabilities) or increase in U.S.-owned assets (U.S. claims).

Excludes exports of goods under U.S. military agency sales contracts identified in Census export documents, excludes imports of goods under direct defense expenditures identified in Census import documents, and reflects various other adjustments (for valuation, coverage, and timing) of Census statistics to balance of payments basis; see table 2 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 Survery.

3. Includes some goods: Mainly military equipment in line 5; major equipment, other materials, supplies, and petroperators in lines 8 and 25.

4. Includes transfers of goods and services under U.S. military grant programs.

Table F.3.—U.S. International Transactions, by Area [Millions of dollars]

| | | ı | | ons of dolla | <u> </u> | | | | | | | | |
|--|--|---|---|---|-----------------------------|----------------------------|------------------------------|---|------------------------|-------------------------|---|---|---|
| | (A) (B) (A) (B) (A) | <u>v</u> | estern Europ | oe | Eu | ropean Union | 114 | U | Inited Kingdo | m | Europ | ean Union (| 5) 15 |
| Line | (Credits +; debits -) 1 | | 2000 | | 1 | 2000 | l III | | 2000 | 111 | 1 | 2000 | <i>P</i> |
| | Current account | | " | | | | -"- | <u>'</u> | | 141 | | | |
| 1 | Exports of goods and services and income receipts | 94,152 | 92,875 | 94,140 | 85,586 | 83,763 | 84,729 | 26,593 | 26,166 | 26,796 | 44,932 | 43,857 | 44,674 |
| 2 | Exports of goods and services | 64,445 | 64,038 | 63,831 | 58,946 | 58,246 | 57,769 | 16,267 | 16,106 | 16,181 | 32,458 | 32,026 | 31,931 |
| 3 | Goods, balance of payments basis 2 | 41,287 | 40,173 | 37,697 | 38,499 | 36,847 | 34,446 | 9,809 | 9,302 | 8,967 | 22,381 | 21,596 | 20,106 |
| 4 | Services 3 | 23,158 | 23,865 | 26,134 | 20,447 | 21,399 | 23,323 | 6,458 | 6,804 | 7,214 | 10,077 | 10,430 | 11,825 323 |
| 5 | Transfers under U.S. military agency sales contracts 4 | 1,169 | 1,025 | 1,262 | 589 | 592 | 791 | 118 | 97 | 87 | 169 | 150 | |
| 6 | Travel | 4,788 1,481 | 5,784 1,748 | 7,055 2,081 | 4,402 1,426 | 5,306 1,693 | 6,462 2,009 | 1,601 493 | 1,975 566 | 2,188 625 | 2,030 734 724 | 2,424 869 | 3,238 1,098 |
| 8 | Other transportation | 1,784 | 1,785 | 1,914 | 1,540 | 1,551 | 1,662 | 385 | 391 | 417 | 724 | 744 | 824 |
| 9 | Royalties and license fees 5 | 4,615 | 4,477 | 4,445 | 4,366 | 4,220 | 4,191 | 874 | 837 | 880 | 2,578 | 2,436 | 2,393 |
| 10 11 | Other private services ⁵ U.S. Government miscellaneous services | 9,282 39 | 9,001 45 | 9,341 36 | 8,091 33 | 7,997 40 | 8,177 31 | 2,980 | 2,929 | 3,008 | 3,830 12 | 3,791 16 | 3,934 15 |
| 12 | Income receipts | 29,707 | 28.837 | 30,309 | 26.640 | 25.517 | 26,960 | 10.326 | 10.060 | 10.615 | 12,474 | 11.831 | 12,743 |
| 13 14 | Income receipts on U.Sowned assets abroad | 29,670 | 28,800 | 30,272 | 26,606 | 25,483 | 26,926 | 10,309 | 10,042 | 10,597 | 12,459 6,679 | 11,817 | 12,729 |
| 15 | Direct investment receipts Other private receipts | 13,952 15,427 | 12,914 15,760 | 13,212 16,838 | 12,232 14,130 | 11,042 14,331 | 11,531 15,217 | 3,795 6,514 | 3,314 6,728 | 3,276 7,321 | 5,616 | 6,115 5,609 | 6,743 5,884 |
| 16 | U.S. Government receipts | 291 | 126 | 16,838 222 | 244 | 110 | 178 | | | *********** | 164 | 93 14 | 102 |
| 17 | Compensation of employees | 37 | 37 | 37 | 34 | 34 | 34 | 17 | 18 | 18 | 15 | | 14 |
| 18 19 | Imports of goods and services and income payments | -101,041 66,068 | 110,488 74,157 | -11 5,27 1 -77,538 | -91,871 -60,195 | 100,244 67,146 | -104,133 -69,384 | -31,919 -14,364 | -34,799 -16,250 | 36,526 16,765 | -47,166 -35,847 | -51,464 -39,500 | -52,930 -40,379 |
| 20 | Imports of goods and services | -48,566 | -52,424 | -54,252 | -44,717 | -47,919 | -48,921 | -8,823 | -9,612 | -9,918 | -28,096 | -29,920 | -30,237 |
| 21 | Services 3 | -17,502 | -21,733 | -23,286 | -15,478 | -19,227 | -20,463 | -5,541 | -6,638 | -6,847 | -7.751 | -9.580 | -10.142 |
| 22 | Direct defense expenditures | -1,935 | -2,070 | -2,280 | -1,704 | -1,775 | -1,880 | -166 | -182 | -180 | -1,440 | -1,490 | -1,600 |
| 23 24 25 | Travel | -3,593 | -6,192 | -7,013 | -3,284 | -5,568 | -6,230 | 1,108 | -1,601 | -1,697 | -1,619 | -2,861 | -3,089 |
| 24 25 | Passenger fares Other transportation | -2,064 2,554 | -3,154 -2,714 | -3,341 -3,104 | -1,869 -2,103 | -2,831 -2,248 | -3,017 -2,592 | -818 -555 | -1,202 -581 | -1,246 -714 | -762 -1,020 | -1,190 1,102 | -1,247 -1,235 |
| 26 27 | Royalties and license fees 5 | -2,087 | -1,942 | -1,747 | -1,788 | -1,626 | -1,452 | -601 | -477 | -337 | -963 | -897 | -899 |
| 27 | Other private services 5 U.S. Government miscellaneous services | -5,002 | -5,373 | -5,505 | -4,504 | -4,931 -248 | -5,037 | -2,271 | -2,571 | -2,649 | -1,770 | -1,877 | -1,886 |
| 28 | Income payments | -267 -34.973 | -288 -36,331 | -296 -37,733 | -226 -31.676 | -33,098 | -255 -34,749 | -22 -17,555 | -24 -18.549 | -24 -19.761 | -177 -11,319 | -163 -11.964 | -186 -12.551 |
| 29 30 31 32 33 34 | Income payments on foreign-owned assets in the United States | -34.886 | -36.255 | -37,661 | -31,606 | -33,035 | -34,689 | -17,535 -17,534 | -18,529 | -19,741 | -11,277 | -11,926 | -12,516 |
| 31 | Direct investment payments | -9,059 | -10,028 | -9,752 -17,719 | -7,950 | -9,056 | -9 ,232 | -2,312 | -2,560 | -2,718 | -4,644 | -5,550 | -5,738 |
| 33 | Other private payments | -15,750 -10,077 | -16,246 -9,981 | -10,190 | -14,368 -9,288 | -14,749 -9,230 | -16,051 -9,406 | -10,041 -5,181 | -10,783 -5,186 | -11,693 -5,330 | -3,658 -2,975 | -3,352 -3,024 | -3,688 -3,090 |
| | Compensation of employees | -87 | -76 | -72 | 70 | -63 | -60 | 21 | -20 | 20 | -42 | -38 | -35 |
| 35 36 37 | U.S. Government grants ⁴ | -30 -172 | 66 100 | -22 -167 | 296 | 345 | 311 | 387 | 417 | 432 | 141 | 151 | 110 |
| 37 | U.S. Government pensions and other transfers | 328 | -329 | -340 | -293 | -297 | -299 | -51 | -50 | -48 | -161 | -162 | -171 |
| 38 | Private remittances and other transfers 6 | 470 | 495 | 485 | 589 | 642 | 610 | 438 | 467 | 480 | 302 | 313 | 281 |
| | Capital and financial account | | | | | | | | | | | | |
| | Capital account | | | | | | | | | | | | |
| 39 | Capital account transactions, net | 37 | 37 | 38 | 34 | 34 | 35 | 12 | 12 | 12 | 16 | 16 | 17 |
| 40 | Financial account U.Sowned assets abroad, net (increase/financial outflow (-)) | 00.002 | 440 540 | 40.004 | 47.044 | 440 750 | 04.640 | 6 470 | 404 004 | 00.000 | 40.054 | 40 444 | |
| 40 41 | U.S. official reserve assets, net | -22,065 5,502 | -143,513 348 | -42,804 103 | -17,814 -1,972 | -119,750 -159 | -34,648 -67 | 6,178 | -104,891 | 26,888 | -16,051 | -18,111 | -6,444 |
| 42 | Gold 7 | | | 100 | -1,012 | -100 | 707 | | | | | | *************************************** |
| 43 44 | Special drawing rights | *************************************** | *************************************** | | | | | | | | | *************************************** | *************************************** |
| 45 | Foreign currencies | 5,502 | 348 | -103 | -1,972 | -159 | -67 | | | | *************************************** | | *************************************** |
| 46 47 | U.S. Government assets, other than official reserve assets, net | 206 62 | 61 | 97 | 139 | 9 | -6 | -4 | -2 | -4 | -16 | 6 | 1 |
| 47 48 | U.S. credits and other long-term assets | -62 294 | -36 91 | -196 288 | -37 196 | -29 35 | 195 190 | *************************************** | | | | | |
| 49 | Repayments on U.S. credits and other long-term assets ⁸ | -26 | 6 | 5 | -20 | 3 | -1 | -4 | -2 | -4 | -16 | 6 | 1 |
| 50 51 | U.S. private assets, net | -27,773 | -143,922 | -42,798 | -15,981 | -119,600 | -34,575 | 6,182 | -104,889 | -26,884 | -16,035 | -18,117 | -6,445 |
| 51 52 | Direct investment | -21,262 21,689 | -8,262 -49,590 | -32,331 -12,110 | -17,296 20,853 | -8,218 -51,891 | -30,982 -14,525 | -2,679 17,912 | -9,303 -46,591 | -21,157 -13,678 | -11,464 3,095 | 1,712 -8.034 | -8,046 -2,520 |
| 52 53 | U.S. claims on unaffiliated foreigners reported by U.S. nonbanking | | · | , | | | , | | | , | | · | _, |
| 54 | U.S. claims reported by U.S. banks, not included elsewhere | -23,909 -4,291 | 7,476 78,594 | 1,643 | 22,230 2,692 | -6,161 -53,330 | 10,932 | -14,819 5,768 | -8,520 -40,475 | 7,951 | -5,018 -2,648 | 1,107 -12,902 | 4,121 |
| 55 | Foreign-owned assets in the United States, net (increase/financial inflow | | | | | | | | | · | · | | |
| | (+)) | 78,971 | 191,609 | 105,732 | 79,175 | 167,196 | 102,937 | 45,073 | 113,605 | 70,224 | 39,728 | 61,523 | 24,526 |
| 56 57 58 59 60 61 62 | Foreign official assets in the United States, net | -4,419 | -9,707 | -1,057 | (18) | (18) | 18 | (18) | (18) | (18) | (18) | (18) | (18) 18 |
| 58 | U.S. Treasury securities Other ¹⁰ Other U.S. Government liabilities ¹¹ U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets ¹² | (17) (17) (17) (17) | (17) (17) (17) | (17) | (18) | (18) (18) | (18) (18) (18) –171 | 18 | (18) | }18{ | (18) | }18 ∖ | (18) (18) (18) —99 (18) (18) |
| 59 60 | Other U.S. Government liabilities 11 | 433 | -473 | }17∫ -505 | (18) -51 (18) (18) | _202 | (18) -171 | (18) -116 | (18) _94 | (18) 80 | (18) 64 | (18) 49 | (18) |
| 61 | U.S. liabilities reported by U.S. banks, not included elsewhere | -432 (17) (17) | (17) (17) | -605 (17) (17) | (18) | -202 (!8) | (18) (18) | (18) (18) | -94 (18) (18) | -80 (18) (18) | /18) | (18) | (¹⁸) |
| | Other foreign official assets 12 | | | | (18) | (18) | | | | | (18) | (18) | |
| 64 | Other foreign assets in the United States, net | 83,390 21,839 | 201,316 140,447 | 106,789 31,623 | 20,375 | (18) 141,856 | (18) 29,727 | (18) 1,316 | 79,370 | (18) 15,155 | (18) 16,457 | (18) 62,635 | 9,966 |
| 63 64 65 66 67 | U.S. Treasury securities | 48,854 | (17) | 62,883 | 45,628 | (81) | (18) | 30,309 | (18) | (18) | (18) | (18) | (18) 9,964 |
| 66 67 | U.S. securities other than U.S. Treasury securities | 48,854 | 49,525 | 62,883 | 45,628 | 45,850 | 61,362 | 30,309 | 29,020 | 48,655 | 12,631 | 13,216 | 9,964 |
| 68 | U.S. currency | | | *************************************** | | | | | | | | | *************************************** |
| 69 | U.S. liabilities reported by U.S. banks, not included elsewhere | 19,506 (¹⁷) | 18,265 (17) | (¹⁷) | 16,341 | 16,491 | 10.010 | 21,863 | 11,765 | | -4,591 | 4,911 | 4 COE |
| 70 | Statistical discrepancy (sum of above items with sign reversed) | -50,024 | -30,586 | -41,813 | -3,118 -55,406 | -36,799 - 31,344 | 12,019 -49,231 | -8,299 - 46,324 | -6,456 - 510 | 6,494 -34,050 | 15,167 -21,600 | -19,282 -35,972 | 4,695 9,953 |
| | Mamaranda | | -00,000 | | ~~,~~ | -01,044 | | | -510 | | -21,000 | -00,312 | -9,500 |
| 71 | Balance on goods (lines 3 and 20) | -7,279 | -12,251 | -16,555 | -6,218 | -11,072 | -14,475 | 986 | -310 | -951 367 | -5,715 | -8,324 | -10,131 |
| 72 73 | Balance on goods and services (lines 2 and 19) | 5,656 -1,623 | 2,132 -10,119 | 2,848 13,707 | 4,969 -1,249 | 2,172 -8,900 | 2,860 -11,615 | 917 1,903 | 166 -144 | 367 -584 | 2,326 -3,389 | 850 -7,474 | 1,683 -8,448 |
| 73 74 | Balance on income (lines 12 and 29) | -5,266 | -7,494 | -7,424 | -5,036 | -7,581 | -7,789 | -7,229 | 8,489 | -9,146 | 1,155 | -133 | 192 |
| 75 76 | Belance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19) Balance on income (lines 12 and 29) Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) 13 | -30 -6,919 | 66 -17,547 | -22 -21,153 | 296 -5,989 | 345 16,136 | 311 -19,093 | 387 -4,939 | 417 -8,216 | 432 -9,298 | 141 2,093 | 151 -7,456 | 110 -8,146 |
| _ '0] | Security on content account falles 1, 10, and 50 of lifes 15, 14, and 15) | 70,313 | -17,347 | -21,100 | -5,003 | -10,130 | -10,000 | 7,007 | -0,210 | -0,200 | -2,033 | -1,430 | -0,140 |

^{5.} Beginning in 1982, these lines are presented on a gross basis. The definition of exports is revised to exclude U.S. parents' payments to foreign affiliates and to include U.S. affiliates' receipts from foreign parents. The definition of imports is revised to include U.S. parents' payments to foreign affiliates and to exclude U.S. affiliates' receipts from foreign parents.

6. Beginning in 1982, the "other transfers" component includes taxes paid by U.S. private residents to foreign governments and taxes paid by private nonresidents to the U.S. Government.

7. At the present time, all U.S. Treasury-owned gold is held in the United States.

8. Includes sales of foreign obligations to foreigners.

9. Consists of bills, certificates, marketable bonds and notes, and nonmarketable convertible and nonconvertible

bonds and notes.

10. Consists of U.S. Treasury and Export-Import Bank obligations, not included elsewhere, and of debt securities of U.S. Government corporations and agencies.

11. Includes, primarily, U.S. Government liabilities associated with military agency sales contracts and other transactions arranged with or through foreign official agencies; see table 4 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 SURVEY.

12. Consists of investments in U.S. corporate stocks and in debt securities of private corporations and State and local governments.

Table F.3.—U.S. International Transactions, by Area—Continued [Millions of dollars]

| | | | | ons or done | 1 - | | | | | 100 | | | |
|----------------------------------|---|--|-------------------------|---|----------------------------|---|----------------------|--------------------------|-----------------------------|---|---------------------|------------------|---|
| | | E | astern Europ | e | | Canada | | Latin Ame | rica and Othe Hemisphere | | | Japan | |
| Line | (Credits +; debits -) 1 | | 2000 | | | 2000 | | | 2000 | | | 2000 | |
| | | . 1 | ll* | 110 | 1 | ll* | 111 | | ll'r | 111 | 1 | 117 | INP |
| | Current account | | | | | | | | | | | | |
| 1 | Exports of goods and services and income receipts | 2,653 | 2,770 | 3,239 | 50,011 | 53,800 | 50,240 | 57,854 | 62,330 | 65,270 | 25,346 | 23,678 | 25,031 |
| 2 | Exports of goods and services | 2,156 1,213 | 2,273 1,304 | 2,565 1,458 | 45,304 40,070 | 48,257 42,857 | 44,759 39,594 | 43,520 32,125 | 46,284 34,060 | 49,063 35,417 | 22,928 14,432 | 21,152 13,328 | 22,729 13,586 |
| 4 | Goods, balance of payments basis ² | 943 | 969 | 1,456 | 5,234 | 5,400 | 5,165 | 11,395 | 12,224 | 13,646 | 8,496 | 7,824 | 9,143 |
| 5 | Transfers under U.S. military agency sales contracts ⁴ | 67 | 81 | 94 | 28 | 34 | 25 | 152 | 135 | 99 | 501 | 173 | 183 |
| 6 7 | Travel | 258 40 | 319 44 | 381 41 | 1,674 438 | 1,808 363 | 1,477 367 | 4,347 1,255 820 | 4,897 1,375 | 5,856 1,653 | 2,358 922 752 | 2,231 872 | 2,923 1,117 |
| 8 | Other transportation | 65 | 105 | 112 | 585 | 627 | 625 | | 874 | 1,653 910 | | 817 | 840 |
| 9 10 | Royalties and license fees ⁵ | 67 439 | 66 344 | 70 397 | 424 2,064 | 400 2,147 | 434 2,216 | 610 4,170 | 672 4,193 | 672 4,416 | 1,563 2,383 | 1,596 2,125 | 1,689 2,380 |
| 11 | U.S. Government miscellaneous services | 7 | 10 | 12 | 21 | 21 | 21 | 41 | 78 | 40 | 17 | 10 | 11 |
| 12 13 | Income receipts | 497 495 | 497 495 | 674 672 | 4,707 4,687 | 5,543 5,524 | 5,481 5,463 | 14,334 14,297 | 16,046 16,008 | 16,207 16,172 | 2,418 2,415 | 2,526 2,523 | 2,302 2,298 |
| 14 15 | Direct investment receipts | 495 -45 484 56 | 13 472 | 159 466 | 1,909 2,778 | 2,831 2,693 | 2,787 2,676 | 3,979 10,212 | 5,127 10,754 | 4,886 11,208 | 1,003 1,405 | 871 1,667 | 921 1,360 |
| 16 | U.S. Government receipts | 56 | 10 | 47 | 20 | | 18 | 106 | 127 | 78 | 7 | -15 | 17 |
| 17 18 | Compensation of employees | -3, 294 | -4,411 | -4,346 | -52,7 43 | 19 -56,926 | -57,328 | 37 - 58,343 | 38 -63,021 | 35 67,952 | 3 -42,970 | 3 -44,236 | -47,341 |
| 19 | Imports of goods and services | -2,874 | -3,998 | -3,934 | -50,640 | -54,264 | -54,780 | -45,878 | -49,579 | -53,709 | -35,150 | -35,203 | -37,984 |
| 20 | Goods, balance of payments basis 2 | -2,402 | -3,096 | -2,856 | -47,684 | -50,096 | -49,408 | -37,327 | -41,166 | -44,660 | -31,098 | -30,849 | -33,435 |
| 21 22 | Services ³ | -472 -50 | -9 02 -47 | -1,078 -80 | -2,956 -14 | -4,168 -16 | -5,372 -20 | -8,551 -94 | 8,413 76 | -9,049 -79 | -4,052 -328 | -4,354 -378 | -4,549 -380 |
| | Travel | -151 | -458 | -573 | -875 | -1,526 | -2,531 | -4,028 | -3,909 | -4,367 | 790 | -795 | -706 |
| 23 24 25 | Passenger fares | 57 42 | -141 71 | -161 -80 | -125 -727 | -189 -822 | -210 -817 | -856 -605 | -713 -620 | -805 -656 | -200 -1,065 | -227 -1,193 | -230 -1,405 |
| 26 | Royalties and license fees 5 | -1 | -3 | -3 | -114 | -114 | -119 | -67 | -64 | -68 | -627 | -687 | -686 |
| 27 28 | Royalties and license fees 5 | 155 16 | -163 -19 | -160 21 | -1,055 -46 | -1,447 -54 | -1,619 -56 | -2,781 -120 | -2,899 -132 | -2,942 -132 | -1,008 -34 | -1,039 -35 | -1,109 -33 |
| 29 | Income payments | -420 | -413 -397 | -412 -397 | -2,103 -2,024 | -2,662 -2.586 | -2,548 -2,474 | -12,465 -11,087 | -13,442 | -14,243 -12,555 | -7,820 | -9,033 -9,017 | -9,357 -9,343 |
| 29 30 31 32 33 34 | Income payments on foreign-owned assets in the United States | -2 | -4 | – 5 | -641 | -1,239 | - 984 | -282 | -11,960 -492 | -484 | -7,797 65 | -1,768 | -1,606 |
| 32 33 | Other private payments | -97 -302 | -91 -302 | - 9 2 -300 | -1,176 -207 | -1,099 -248 | -1,168 -322 | -8,503 -2,302 | -8,941 -2,527 | -9,297 -2,774 | -2,859 -5,003 | -2,118 -5,131 | -2,187 -5,550 |
| | Compensation of employees | -19 | -16 | -15 | -79 | -76 | -74 | -1,378 | -1,482 | -1,688 | -23 | -16 | -14 |
| 35 36 37 | U.S. Government grants 4 | -856 -424 | –871 −442 | -996 -581 | -174 | -145 | -175 | -3,379 -380 | -3,445 -421 | -3,615 -493 | -101 | -53 | -71 |
| 37 38 | U.S. Government pensions and other transfers | -12 -420 | -11 -418 | -10 -405 | -120 -54 | 121 24 | -126 -49 | -154 -2,845 | -156 -2,868 | 158 2,964 | -26 -75 | -25 -28 | -23 -48 |
| - | Capital and financial account | 120 | ,,, | | , ,, | |] " | ,0.0 | 2,000 | 2,004 | | | ,,, |
| | Capital account | | | | | | | | | | | | |
| 39 | Capital account transactions, net | 6 | 6 | 6 | 28 | 36 | 31 | 62 | 59 | 54 | 6 | 6 | 6 |
| 40 | Financial account U.Sowned assets abroad, net (increase/financial outflow (-)) | -1,518 | 622 | 759 | 2.889 | 4.023 | _706 | 11,682 | -16,356 | -38,596 | -9 94 | 7,605 | -15,174 |
| 41 | U.S. official reserve assets, net | | | | | | | | | | -2,000 | -412 | -30 |
| 42 43 | Gold ⁷ | | | *************************************** | | | | | | | | | |
| 44 45 | Reserve position in the International Monetary Fund | | | | | | | | | *************************************** | -2,000 | -4 12 | -30 |
| 46 | U.S. Government assets, other than official reserve assets, net | -19 | -57 | -119 | | *************************************** | | 170 | 87 | 127 | 12 | 30 | -8 |
| 47 48 | U.S. credits and other long-term assets Repayments on U.S. credits and other long-term assets 8 | -164 160 | -1,138 1,086 | -139 21 | | | | -602 765 | -401 497 | -230 356 | | | |
| 49 | Repayments on U.S. credits and other long-term assets 8 U.S. foreign currency holdings and U.S. short-term assets, net | -15 | -5 | -1 | | | | 7 | -9 | 1 | 12 | 30 | -8 |
| 50 51 52 53 | U.S. private assets, net | 1,499 258 | 679 -301 | -640 -276 | 2,889 -2,644 | 4,023 -6,860 | -706 -2,726 | 11,512 -7,013 | -16,443 -9,663 | -38,723 -1,786 | 994 499 | 7,987 -730 | -15,136 -2,170 |
| 52 53 | Foreign securities | -120 | -118 | -7 | -9 80 | 166 | -265 | - 731 | -9,713 | -7,941 | -10,476 | -5,357 | -9,648 |
| 54 | concerns | 72 -1,193 | 11 1,087 | -357 | -2,787 9,300 | 1,212 | 2,285 | 6,346 | -8,553 | -24,900 | 6,094 | -955 15,029 | -3,318 |
| 54 55 | U.S. claims reported by U.S. banks, not included elsewhere | | | | | 9,505 | | 12,910 | 11,486 | -4,096 | 5,875 | | |
| | (+)) | 2,910 | -2,632 | 41 | 7,951 | 10,166 | 7,905 | 937 | 57,821 | 39,267 | -21,605 | 4,855 | 30,797 |
| 56 57 | Foreign official assets in the United States, net | (18) | (18) (18) | (18) (18) | 2,904 (17) | -598 (¹⁷) | 328 (17) (17) | (18) | (18) | (18) | (18) | (18) | (18) |
| 58 59 | U.S. Treasury securities 9 | (18) (18) (18) (18) 59 (18) (18) |)18 (18) |)18) (18) | (17) (17) (17) | (17) (17) (17) 112 | (17) | (18) (18) -13 |)18)18 | (18) (18) (18) -23 (18) (18) |)18)18 | (18) | (18) (18) (18) (18) (18) -14 (18) |
| 59 60 61 | Other 10 Other U.S. Government liabilities 11 U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets 12 Other foreign official assets 12 | `59 | 141 | 112 | (12) | 12 (17) | 17 | -13 (18) | (18) -25 (18) (18) | 23 | -487 (18) | -52 (18) | 14 |
| 62 | Other foreign official assets 12 | (18) | (18) | (18) (18) | (17) | {i-}} | (17) | (18) | (18) | (18) | (18) | (18) | (18) |
| 63 | Other foreign assets in the United States, net | (18) -166 | (18) 50 (18) | (18) 107 | 5,047 | 10,764 | 7,577 | (18) 800 | (¹⁸) 1,642 | (18) 4,650 | (18) | (18) 4,827 | 3,435 (18) |
| 63 64 65 66 | U.S. Treasury securities | (18) (18) | (18) | (18) -97 | 1,825 (¹⁷) | 7,099 (17) -306 | 3,685 (17) 224 | 9,053 | 1,642 (18) 22,921 | 4,000 (18) 14,377 | -2,889 (18) | (18) | 3,433 (¹⁸) |
| 67 | U.S. securities other than U.S. Treasury securities | 15 | -140 | -9 7 | 2,241 | -306 | 224 | 9,053 | 22,921 | 14,377 | -1,636 | 3,508 | 11,614 |
| 68 | U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking | 75 | 122 | | 570 | 412 | | 555 | 10 200 | 2 000 | 1 100 | 2 004 | *************************************** |
| 69 | U.S. liabilities reported by U.S. banks, not included elsewhere | 75 2,927 | -122 2,561 | -81 | 572 (¹⁷) | 413 (¹⁷) | (17) | 555 -9,458 | -10,399 43,682 | 3,000 17,263 | -1,168 -15,425 | -3,094 -334 | 15,762 |
| 70 | Statistical discrepancy (sum of above items with sign reversed) | 99 | 4,516 | 2,815 | -7,962 | -10,954 | 33 | -8,813 | -37,388 | 5,572 | 40,318 | 8,145 | 6,752 |
| 71 | Memoranda: Balance on goods (lines 3 and 20) | -1,189 | -1,792 | -1,398 | -7,614 | -7,239 | -9,814 | -5,202 | -7,106 | -9,243 | -16,666 | -17,521 | -19,849 |
| 72 73 | Balance on services (lines 4 and 21) | 471 718 | 67 -1,725 | 29 | 2,278 | 1,232 -6,007 | -207 -10,021 | 2,844 -2,358 1,869 | 3,811 -3,295 | 4,597 -4,646 | 4,444 -12,222 | 3,470 -14,051 | 4,594 -15,255 -7,055 |
| 73 74 75 | Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19) Balance on income (lines 12 and 29) | 77 | 84 | -1,369 262 | -5,336 2,604 | 2.881 | 2,933 | 1,869 | 2,604 | 1,964 | -5,402 | -6,507 | -7,0 <u>5</u> 5 |
| 10 | Unilateral current transfers, net (line 35) | -856 -1,497 | -871 -2,512 | -996 -2,103 | -174 -2,906 | -145 -3,271 | -175 -7,263 | -3,379 -3,868 | -3,445 -4,136 | -3,615 -6,297 | -101 -17,725 | -53 -20,611 | –71 –22,381 |
| 76 | | | | | | | | | | | | | |

^{13.} Conceptually, line 76 is equal to "net foreign investment" in the national income and product accounts (NIPA's). However, the foreign transactions account in the NIPA's (a) includes adjustments to the international transactions accounts for the treatment of gold, (b) includes adjustments for the different geographical treatment of transactions with U.S. territories and Puerto Rico, and (c) includes services lumished without payment by financial

pension plans except life insurance carriers and private noninsured pension plans.

14. The "European Union" includes the "European Union (6)," United Kingdom, Denmark, Ireland, Greece, Spain, and Portugal. Beginning with the first quarter of 1995, the "European Union" also includes Austria, Finland, and Sweden.

Table F.3.—U.S. International Transactions, by Area—Continued [Millions of dollars]

| | | | Australia | | Other cou | untries in Asia | and Africa | International organizations and unallocated 16 | | |
|--|--|--------------------------|--|-----------------------|---------------------|-----------------------------------|-------------------------|--|------------------------|---|
| Line | (Credits +; debits -) 1 | | 2000 | · · · · · · · · · | | 2000 | · | ļ | 2000 | |
| | | 1 | n- | 111 | 1 | 117 | - 111 | 1 | JI r | P |
| | Current account | | | | | | | | | |
| 1 2 | Exports of goods and services and income receipts | | 5,458 4,102 | 5,593 4,337 | 51,342 45,919 | 53,930 47,922 | 58,028 51,148 | 7,440 1,118 | 7,416 1,147 | 7,369 1,187 |
| 3 | Exports of goods and services Goods, balance of payments basis ² | 2.543 | 2,758 | 2,938 | 31,674 | 33,973 | 35,746 | 1,110 | 1,147 | 1,107 |
| 4 | Services 3 | 1,191 | 1,344 | 1,399 | 14,245 | 13,949 | 15,402 | 1,118 | 1,147 | 1,187 |
| 5 | Transfers under U.S. military agency sales contracts 4 | | 95 416 | 99 425 | 2,372 2,042 | 2,556 2,816 | 2,495 3,544 | | | |
| 7 | Passenger fares | 123 | 154 | 163 | 392 | 493 | 629 | | | |
| 8 9 | Other transportation | 81 187 | 86 187 | 91 199 | 2,160 1,165 | 2,286 1,174 | 2,294 1,181 | -115 493 | 147 491 | 165 499 |
| 10 | Royalties and license fees 5 | 406 | 405 | 421 | 6,034 | 4,542 | 5,177 | 510 | 509 | 523 |
| 11 12 | Income receipts | 1,100 | 1,356 | 1,256 | 5,423 | 6,008 | 6,880 | 6,322 | 6.269 | 6,182 |
| 13 14 | Income receipts on U.Sowned assets abroad Direct investment receipts | 1.098 | 1,354 585 | 1,254 520 | 5,406 2,792 | 5,991 3,367 | 6,862 3,962 | 5,970 3,358 | 5,916 3,182 | 5,828 3,092 |
| 15 | Other private receipts | 733 | 769 | 734 | 2,325 | 2,414 | 2,599 | 2,396 | 2,543 | 2,545 |
| 16 17 | U.S. Government receipts Compensation of employees | 2 | 2 | 2 | 289 17 | 210 17 | 301 18 | 216 352 | 191 353 | 191 354 |
| 18 | Imports of goods and services and income payments | | -2,475 | -2,786 | -79,349 | -87,337 | -9 9,867 | -2,781 | -2,870 | -2,995 |
| 19 | Imports of goods and services | | -2,176 | -2,383 | -71,961 | -79,916 | -9 2,113 | -564 | -564 | -623 |
| 20 21 | Goods, balance of payments basis ² | | -1,372 -804 | -1,447 -936 | -62,733 -9,228 | -70,333 - 9 ,583 | -82,051 10,062 | -564 | -564 | -623 |
| 22 | Direct defense expenditures | | 704 | -330 -10 | -1,064 | -9,363 -998 | -1,001 | -304 | -504 | -023 |
| 23 24 25 | Travel Passenger fares | -301 -166 | -310 141 | -427 -154 | -2,805 -1,223 | -2,873 -1,146 | -3,019 -1,246 | *************************************** | | |
| 25 | Other transportation | -46 | -47 | -52 | -2,230 | -2,525 | -2,766 | -285 | -298 | -350 |
| 26 27 28 | Royalties and license fees 5 Other private services 5 | -7 -249 | -10 -277 | -10 -268 | -74 -1,642 | ~73 ~1,778 | -75 -1,752 | -185 -93 | -180 -86 | -173 -100 |
| 28 | U.S. Government miscellaneous services | -8 | _11 | -15 | -190 | -190 | [203 | -1 | | *************************************** |
| 29 30 | Income payments | -371 -369 | -299 -297 | -403 -401 | -7,388 -7,243 | -7,421 -7,320 | -7,754 -7,668 | -2,217 -2,217 | -2,306 -2,306 | -2,372 -2,372 |
| 31 I | Direct investment payments | -153 | -44 | -112 | -159 | -3 | -169 | -1,365 | -1,445 | -1.405 |
| 32 33 34 | Other private payments | -71 | -172 -81 | -206 -83 -2 | -2,381 -4,703 | 2,438 4,879 | -2,580 -4,919 | -848 -4 | -855 -6 | -958 -9 |
| | Compensation of employees | -2 -39 | -2 | | -145 | -101 | -86 | | | |
| 35 36 37 | Unilateral current transfers, net U.S. Government grants 4 U.S. Government pensions and other transfers | -39 | -36 | -39 | -3,414 -967 | -3,569 -1,423 | -3,728 -1,273 | -2,427 -257 | - 2,691 -374 | -2,533 -186 |
| 37 38 | U.S. Government pensions and other transfers | -10 -29 | -10 -26 | _ 9 -30 | -119 -2,328 | -121 -2,025 | | 124 2,046 | -84 (-2,233 | -210 -2,137 |
| - 1 | Capital and financial account | | | | | _,,, | -,,,, | _,,,,, | ,200 | 2, |
| | Capital account | | | | | | | | | |
| 39 | Capital account transactions, net | 2 | 2 | 2 | 25 | 32 | 29 | *************************************** | | |
| 40 | Financial account U.Sowned assets abroad, net (increase/financial outflow (-)) | -2,357 | -4,709 | 5,526 | -2,448 | -2,172 | -2.621 | -3,935 | -1,544 | ~7,376 |
| 41 | U.S. official reserve assets, net | | | 3,320 | 1,770 | -2,112 | -2,021 | 566 | 1,223 | 2.083 |
| 42 | Gold 7 | | | | | | | 563 | -190 | -185 |
| 43 44 45 | Reserve position in the International Monetary Fund | | | | | | | 303 | 1,413 | 2,268 |
| 46 | U.S. Government assets, other than official reserve assets, net | | -6 | 2 | 11 | -218 | -520 | -267 | -289 | -248 |
| 47 | U.S. credits and other long-term assets | | | | -209 | -303 | – 778 | 267 | -289 | -248 |
| 47 48 49 | U.S. credits and other long-term assets Repayments on U.S. credits and other long-term assets U.S. loreign currency holdings and U.S. short-term assets, net | 6 | -6 | -2 | 326 -106 | 213 ~128 | 355 -9 7 | *************************************** | | |
| 50 51 52 | U.S. private assets, net | -2,363 -3,389 | -4,703 | 5,528 | -2,459 | -1,954 | -2,101 | -4,234 -3,193 | -2,478 | -9 ,211 |
| 52 | Direct investment | -82 | -265 -974 | -331 -114 | -6,725 -1,217 | -3,808 1,118 | -3,018 3,094 | 49 | -3,008 -111 | -2,924 480 |
| 53 54 | U.S. člaims on unaffiliated foreigners reported by U.S. nonbanking concerns | 430 678 | -43 -3,421 | 5,973 | 92 5,575 | -1,034 1,770 | -2,177 | -7 -1,083 | 22 619 | -7,198 431 |
| 55 | Foreign-owned assets in the United States, net (increase/financial inflow (+)) | 691 | 3,893 | 1,000 | 13,028 | 3,249 | 5,839 | 5,753 | 6,259 | 17,596 |
| 56 57 58 59 60 61 62 | Foreign official assets in the United States, net | (18) (18) | (18) 18) | (18) (18) | (18) (18) | (18) (18) | (18) (18) | | | |
| 58 | U.Š. Government securities U.S. Treasury securities 9 | (18) | (18) (18) (18) (18) (18) (18) |)18))18(|)18)18 |)18 18 | 18 | | | |
| 60 | Other 1.5 Government liabilities 11 U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets 12 | \ | -35 | <u>`44</u> I | | -215 | | | | |
| 61 62 | U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets 12 | (18) (18) | (18) (18) | (18) (18) | 737 (18) (18) | -215 (¹⁸) (18) | -681 (18) (18) | (18) | (18) | (18) |
| | Other foreign assets in the United States, net | (¹⁸) 167 | (18) | (18) | (18) | (18) | (18) | 5,753 | 6,259 | 17,596 |
| 63 64 65 66 67 | Direct investment U.S. Treasury securities | /18) | (18) 425 (18) 157 | 217 (18) | -48 (**) | -400 (18) | 514 (18) | 1,197 | 1,232 | 17,596 1,267 (18) 493 |
| 66 | ILS securities other than ILS Treasury securities | `42 | 157 | 1,155 | 3,119 | 3,532 | 2,413 | -148 | – 136 ∤ | 493 |
| 68 69 | U.S. currency. U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns U.S. liabilities reported by U.S. banks, not included elsewhere | -175 | 1,879 | | 805 | 1,892 | | 2,440 18 | 3,057 37 | 4,697 9,136 |
| | | 649 | 1,467 | -328 | 9,889 | -1,560 | 3,593 | 2,246 | 2,063 | 2,003 |
| - 1 | Statistical discrepancy (sum of above items with sign reversed) | -672 | -2,133 | -9 ,296 | 20,816 | 35,867 | 42,320 | -4,050 | -6,570 | -12,061 |
| 71 | Balance on goods (lines 3 and 20) | 1,450 | 1,386 540 | 1,491 | -31,059 | -36,360 | -46,305 | | | |
| 72 73 | Balance on goods and services (lines 2 and 19) | 396 1,846 | 1,926 | 463 1,954 853 | 5,017 26,042 | 4,366 -31,994 | 5,340 -40,965 | 554 554 | 583 583 | 564 564 |
| 74 75 | Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19) Balance on income (lines 12 and 29) Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) 13 | 729 -39 | 1,057 -36 | 853 -39 | -1,965 -3,414 | -1,413 -3,569 | -874 -3,728 | 4,105 2,427 | 3,963 -2,691 | 3,810 |
| 76 | Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) 13 | 2,536 | 2,947 | 2,768 | -31,421 | -36,976 | -45,567 | 2,232 | 1,855 | -2,533 1,841 |

^{15.} The "European Union (6)" includes Belgium, France, Germany (includes the former German Democratic Republic (East Germany) beginning in the fourth quarter of 1990), Italy, Luxembourg, Netherlands, European Atomic Energy Community, European Coal and Steel Community, and European Investment Bank.

16. Includes, as part of international and unallocated, the estimated direct investment in foreign affiliates engaged in International shipping, in operating oil and gas drilling equipment internationally, and in petroleum trading. Also includes taxes withheld; current-cost adjustments associated with U.S. and foreign direct investment; small transactions in business services that are not reported by country; and net U.S. currency flows, for which geographic

source data are not available.
17. Details not shown separately; see totals in lines 56 and 63.
18. Details not shown separately are included in line 69.

NOTE.—The data in tables F.2 and F.3 are from tables 1 and 10 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 SURVEY OF CURRENT BUSINESS, which presents the most recent estimates from the U.S. international transactions accounts.

Table F.4—Private Service Transactions

[Millions of dollars]

| | | | | | | Seasonally | adjusted | | |
|--|--|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Line | | 1997 | 1998 | | 1998 | | | 1999 | |
| | | | | II | 111 | IV | 1 | ll r | <i>P</i> |
| 1 | Exports of private services | 240,443 | 245,688 | 62,011 | 60,847 | 62,490 | 63,066 | 64,304 | 64,588 |
| 2 | Travel (table F.2, line 6) | 73,301 20,789 | 71,250 19.996 | 18,260 5,185 | 17,149 5,052 | 17,938 4,843 | 18,138 4,995 | 18,437 | 18,322 5,332 |
| 4 | Passenger fares (table F.2, line 7) Other transportation (table F.2, line 8) | 27,006 | 25,518 | 6,268 | 6,339 | 6,575 | 6,501 | 5,240 6,731 | 6,921 |
| 5 | Freight | 11,789 | 11,178 | 2,769 | 2,684 | 2,852 | 2,819 | 2,848 | 2,966 |
| 6 | Port services | 15,217 | 14,340 | 3,498 | 3,654 | 3,722 | 3,682 | 3,883 | 3,955 |
| 7 8 | Royalties and license fees (table F.2, line 9) | 33,781 25,024 | 36,808 26,761 | 9,002 6,542 | 9,029 6,491 | 9,894 7,223 | 9,337 6,640 | 9,365 6,603 | 9,317 6,493 |
| ğ | U.S. parents' receipts | 23,024 | 24,712 | 6,066 | 6,091 | 6,591 | 6,081 | 6,003 | 5,971 |
| 10 | U.S. affiliates' receipts | 1,803 | 2,049 | 476 | 400 | 632 | 559 | 600 | 522 |
| 11 | Unaffiliated | 8,757 | 10,047 | 2,460 | 2,538 | 2,671 | 2,697 | 2,762 | 2,824 |
| 12 | Industrial processes 1 | 3,552 | 4,138 | 1,018 | 1,053 | 1,094 | 1,093 | 1,097 | 1,097 |
| 13 | Other 2 | 5,205 | 5,909 | 1,442 | 1,485 | 1,578 | 1,604 | 1,665 | 1,727 |
| 14 15 | Other private services (table F.2, line 10) | 85,566 27,272 | 92,116 28,321 | 23,296 7,114 | 23,278 7,184 | 23,240 7,036 | 24,095 7,454 | 24,531 7,086 | 24,696 7,316 |
| 16 | U.S. parents' receipts | 17,271 | 18,212 | 4,631 | 4,411 | 4,561 | 4,560 | 4,402 | 4,626 |
| 17 | U.S. affiliates' receipts | 10,001 | 10,109 | 2,483 | 2,773 | 2,475 | 2,894 | 2,684 | 2,690 |
| 18 | Unaffiliated services | 58,294 | 63,795 | 16,182 | 16,094 | 16,204 | 16,641 | 17,445 | 17,380 |
| 19 | EducationFinancial services | 8,343 11,539 | 8,964 13,698 | 2,251 d 3,778 | 2,310 3,419 | 2,243 3,369 | 2,312 3,419 | 2,309 3,950 | 2,351 3,624 |
| 21 | insurance, net | 2,485 | 2,842 | 696 | 717 | 746 | 794 | 831 | 869 |
| 22 | Premiums received | 6,133 | 6,985 | 1,722 | 1,780 | 1,826 | 1,860 | 1,887 | 1,911 |
| 23 | Losses paid | 3,648 | 4,143 | 1,026 | 1,063 | 1,080 | 1,066 | 1,056 | 1,042 |
| 24 | Telecommunications | 3,949 | 3,689 | 926 | 900 | 908 | 882 | 872 | 818 |
| 20 21 22 23 24 25 26 | Business, professional, and technical services Other unaffiliated services 3 | 22,467 9,511 | 24,338 10,264 | 6,017 2,513 | 6,164 2,583 | 6,299 2,640 | 6,544 2,690 | 6,746 2,737 | 6,892 2,826 |
| 27 | Imports of private services | 152,447 | 165,321 | 41,424 | 41,739 | 42,304 | 43,198 | 45,001 | 46,122 |
| 28 | Travel (table F.2. line 23) | 52,051 | 56,105 | 14,168 | 14,070 | 14,131 | 14,847 | 14,960 | 15,191 |
| 28 29 30 | Travel (table F.2, line 23) Passenger fares (table F.2, line 24) | 18,138 | 19,797 | 4,958 | 5,085 | 5,125 | 5,114 | 5,316 | 5,456 |
| 30 | Other transportation (table F.2, line 25) | 28,959 | 30,457 | 7,590 | 7,700 | 7,849 | 7,726 | 8,362 | 9,102 |
| 31 32 | Freight | 17,654 11,305 | 19,412 11,048 | 4,858 2,732 | 4,999 2,701 | 5,006 2,843 | 4,864 2,862 | 5,413 2,949 | 6,031 3,071 |
| | i i | (| | | | · | | | |
| 33 34 | Royalties and license fees (table F.2, line 26) | 9,390 6,967 | 11,292 8,374 | 2,694 2,050 | 2,721 2,037 | 2,923 2,271 | 3,176 2,514 | 3,197 2,519 | 2,921 2,208 |
| 35 | U.S. parents' payments | 989 | 1,169 | 273 | 298 | 308 | 304 | 310 | 307 |
| 35 36 37 | U.S. affiliates' payments | 5,978 | 7,205 | 1,777 | 1,739 | 1,963 | 2,210 | 2,209 | 1,901 |
| 37 | Unaffiliated | 2,423 | 2,918 | 644 | 684 | 652 | 662 | 678 | 713 |
| 38 39 | Industrial processes ¹ Other ² | 1,418 1,006 | 1,546 1,372 | 382 262 | 392 292 | 401 252 | 408 254 | 414 264 | 420 292 |
| i | Other private services (table F.2, line 27) | 43,909 | 47,670 | 12,014 | 12,163 | 12,276 | 12.335 | 13,166 | 13,452 |
| 40 41 | Affiliated services | 17,728 | 19,095 | 4,856 | 4,974 | 4,998 | 5,033 | 5,620 | 5,742 |
| 42 | U.S. parents' payments | 8,927 | 9,730 | 2,424 | 2,453 | 2,565 | 2,581 | 2,744 | 2,726 |
| 42 43 44 45 46 47 | U.S. affiliates' payments | 8,801 26,181 | 9,365 28,575 | 2,432 7,158 | 2,521 7,189 | 2,433 7,278 | 2,452 7,302 | 2,876 7,546 | 3,016 7,710 |
| 45 | Education | 1,395 | 1,538 | 380 | 401 | 401 | 404 | 423 | 440 |
| 46 | Financial services | 3,563 | 3,771 | 1,010 | 932 | 902 | 834 | 949 | 1,072 |
| 47 | Insurance, net | 6,002 | 6,908 | 1,717 | 1,736 | 1,753 | 1,816 | 1,878 | 1,949 |
| 48 49 50 | Premiums paid | 15,233 | 18,581 | 4,572 2,855 | 4,770 3.034 | 4,910 3,157 | 4,998 3,183 | 5,054 3,175 | 5,095 3,146 |
| 49 50 | Losses recovered Telecommunications | 9,231 8,351 | 11,673 8,125 | 2,800 | 2,014 | 2,029 | 2,024 | 2,011 | 1,915 |
| 51 | Business, professional, and technical services | 6.358 | 7,684 | 1,884 | 1,968 | 2,045 | 2,103 | 2,160 [| 2,211 |
| 52 | Other unaffiliated services 3 | 511 | 549 | 135 | 138 | 148 | 121 | 124 | 123 |
| | Memoranda: | | | | | 00 | | | |
| 53 | Balance on goods (table F.2, line 71) | -196,651 | -246,932 | -63,500 | -64,969 | -63,587 | -74,203 | -84,412 | -92,145 |
| 54 55 | Balance on private services (line 1 minus line 27) | 87,996 -108,655 | 80,367 ~166,565 | 20,587 -42,913 | 19,108 -45,861 | 20,186 -43,401 | 19,868 -54,335 | 19,303 -65,109 | 18,466 -73,679 |
| | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | tod consisse | | orte) includo | | ditures of for | . 5,0.0 |

P Preliminary.
Prevised.
Patented techniques, processes, and formulas and other intangible property rights that are used in goods production.
Copyrights, trademarks, franchises, rights to broadcast five events, and other intangible property rights.

^{3.} Other unaffiliated services receipts (exports) include mainly expenditures of foreign governments and international organizations in the United States. Payments (imports) include mainly expenditures of U.S. residents temporarily working abroad and film rentals.
NOTE.—The data in this table are from table 3 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 Survey OF CURRENT BUSINESS, which presents the most recent estimates from the U.S. international transactions accounts.

G. Investment Tables.

Table G.1.—International Investment Position of the United States at Yearend, 1997 and 1998 [Millions of dollars]

| | | | Cha | anges in po | sition in 199 | 98 (decreas | e (–)) | |
|----------------|---|------------------------|----------------------|----------------------|--|-------------------|----------------------|--------------------------|
| | | [| | Attribut | able to: | | | |
| Line | Type of investment | Position, 1997 r | | Valua | ation adjusti | ments | Tatal | Position, 1998 P |
| | | | Financial flows | Price changes | Exchange rate changes ¹ | Other changes 2 | Total | |
| | | | (a) | (b) | (c) | (d) | (a+b+c+d) | |
| 1 2 | Net international investment position of the United States: With direct investment positions at current cost (line 3 less line 24) With direct investment positions at market value (line 4 less line 25) | -968,208 1,066,262 | -209,819 -209,819 | -167,585 -319,300 | 45,380 56,282 | 61,064 1,633 | -270,960 -471,204 | -1,239,168 -1,537,466 |
| 3 | U.Sowned assets abroad: With direct investment positions at current cost (lines 5+10+15) | 4,508,626 | 292,818 | 101,041 | 43,704 | -15,293 | 422,270 | 4.930.896 |
| 4 | With direct investment positions at market value (lines 5+10+16) | 5,288,892 | 292,818 | 315,522 | 54,584 | -3,833 | 659,091 | 5,947,983 |
| 5 6 | U.S. official reserve assets | 134,836 75,929 | 6,784 | -628 3-628 | 5,024 | -10 4-10 | 11,170 –638 | 146,006 75,291 |
| 7 8 | Special drawing rightsReserve position in the International Monetary Fund | 10,027 18,071 | 149 | | 427 | | 576 6.040 | 10,603 24,111 |
| 9 | Foreign currencies | 30,809 | | | 3,675 | | 5,192 | 36,001 |
| 10 11 | U.S. Government assets, other than official reserve assets | 81,960 79,607 | 429 574 | | − 5 | | 422 572 | 82,382 80,179 |
| 12 13 | Repayable in dollars | 79,273 | 602 | | | -1 | 601 | 79,874 |
| 13 14 | Other'sU.S. foreign currency holdings and U.S. short-term assets | 334 2,353 | -28 -145 | | 5 | | –29 –150 | 305 2,203 |
| | U.S. private assets: | | | | | | | |
| 15 16 | With direct investment at current cost (lines 17+19+22+23) | 4,291,830 5,072,096 | 285,605 285,605 | 101,669 316,150 | 38,685 49,565 | -15,281 -3,821 | 410,678 647,499 | 4,702,508 5,719,595 |
| 47 | Direct investment abroad: At current cost | 1 004 000 | 400.000 | 0.000 | 4.067 | 10.405 | 440.040 | 4 400 444 |
| 17 18 | At market value | 1,004,228 1,784,494 | 132,829 132,829 | 2,892 217,373 | 1,957 12,837 | -18,465 -7,005 | 119,213 356,034 | 1,123,441 2,140,528 |
| 19 20 | Foreign securities | 1,739,400 538,400 | 102,817 25,064 | 98,777 18,441 | 27,962 -20,079 | | 229,556 23,426 | 1,968,956 561,826 |
| 21 | Corporate stocks | 1,201,000 | 77,753 | 80,336 | 48,041 | | 206,130 | 1,407,130 |
| 22 | U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns | 562,396 | 25.041 | | 5,610 | 3,175 | 33.826 | 596,222 |
| 23 | U.S. claims reported by U.S. banks, not included elsewhere | 985,806 | | | 3,156 | 9 | 28,083 | 1,013,889 |
| | Foreign-owned assets in the United States: | E 476 004 | F00 607 | 000.000 | 4.676 | 76 057 | 600.000 | C 470 0C4 |
| 24 25 | With direct investment at current cost (lines 26+33) With direct investment at market value (lines 26+34) | 5,476,834 6,355,154 | 502,637 502,637 | 268,626 634,822 | -1,676 -1,698 | -76,357 -5,466 | 693,230 1,130,295 | 6,170,064 7,485,449 |
| 26 27 | Foreign official assets in the United States | 835,709 614,530 | -21,684 -3,625 | | | | 344 5,719 | 836,053 620,249 |
| 28 I | U.S. Treasury securities | 589,792 | 9.957 | 9.152 | | | -805 | 588,987 |
| 29 30 | Other U.S. Government liabilities 7 | 24,738 21,459 | 6,332 _3 113 | 192 | | | 6,524 -3,113 | 31,262 18,346 |
| 31 32 | U.S. liabilities reported by U.S. banks, not included elsewhere | 135,384 64,336 | -11,469 -3,477 | | | | -11,469 9,207 | 123,915 73,543 |
| ~ | Other foreign assets: | 04,550 | -0,477 | 10,000 | *************************************** | | 3,207 | 70,040 |
| 33 34 | With direct investment at current cost (lines 35+37+38+39+42+43) With direct investment at market value (lines 36+37+38+39+42+43) | 4,641,125 5,519,445 | 524,321 524,321 | 246,189 612,385 | 1,676 1,698 | -75,948 -5,057 | 692,886 1,129,951 | 5,334,011 6,649,396 |
| 05 | Direct investment in the United States: | 704.045 | 400.075 | 0.0 | | 74.040 | 444.070 | 070.747 |
| 35 36 37 | At current costAt market value | 764,045 1,642,365 | 193,375 193,375 | -3,877 362,319 | 22 | -74,848 -3,957 | 114,672 551,737 | 878,717 2,194,102 |
| 37 | U.S. Treasury securities | 662,228 | 46,155 | 18,961 | | | 65,116 | 727,344 |
| 38 39 40 | U.S. securities other than U.S. Treasury securities | 211,628 1,578,694 | 16,622 218,026 | 231,105 | -6,005 | | 16,622 443,126 | 228,250 2,021,820 |
| 40 41 | Corporate and other bonds | 715,196 | 170,539 | 21,019 | 6,005 | | 185,553 | 900,749 |
| 42 | Corporate stocks | 863,498 | 47,487 | 210,086 | | | 257,573 | 1,121,071 |
| 43 | concerns U.S. liabilities reported by U.S. banks, not included elsewhere | 453,555 970,975 | 9,412 40,731 | | -1,080 5,387 | -1,100 | 7,232 46,118 | 460,787 1,017,093 |
| | iminary | 5 Alen include | | | | Marrie Caracia | I to able to an an | d autota adhaa |

P Preliminary.
Revised.

1. Represents gains or losses on foreign-currency-denominated assets due to their revaluation at current exchange rates.

2. Includes changes in coverage, statistical discrepancies, and other adjustments to the value of specific and stock due to fluctuations in the market

Includes changes in coverage, statistical discreptions, and state discreptions of assets.
 Reflects changes in the value of the official gold stock due to fluctuations in the market price of gold.
 Reflects changes in gold stock from U.S. Treasury sales of gold medallions and commemorative and bullion coins; also reflects replenishment through open market purchases. These demonetizations/monetizations are not included in international transactions capital flows.

^{5.} Also includes paid-in capital subscriptions to international financial institutions and outstanding amounts of miscellaneous claims that have been settled through international agreements to be payable to the U.S. Government over periods in excess of 1 year. Excludes World War I debts that are not being services.

6. Includes indebtedness that the borrower may contractually, or at its option, repay with its currency, with a third country's currency, or by delivery of materials or transfer of services.

7. Primarily U.S. Government liabilities associated with military sales contracts and other transactions arranged with or through foreign official agencies.

NOTE.—The data in this table are from table 1 in "International Investment Position of the United States at Yearend 1998" in the July 1999 issue of the SURVEY OF CURRENT BUSINESS.

Table G.2.—U.S. Direct Investment Abroad: Selected Items, by Country and by Industry of Foreign Affiliate, 1996–98 [Millions of dollars]

| - | | estment posi orical-cost ba | | Capital o | outflows (infl | ows ()) | | Income | |
|---|---|---|---|---|---|---|---|--|---|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| All countries, all industries | 795,195 | 865,531 | 980,565 | 84,426 | 99,517 | 121,644 | 93,594 | 103,892 | 90,242 |
| By country | | | | | | | | | |
| Canada | 89,592 | 96,031 | 103,908 | 7,181 | 7,493 | 10,259 | 9,258 | 10,548 | 8,104 |
| Europe | 389,378 | 420,108 | 489,539 | 40,148 | 51,698 | 74,538 | 44,286 | 48,757 | 49,308 |
| Of which: France Germany Netherlands | 35,200 41,281 54,118 | 35,800 38,490 64,361 | 39,188 42,853 79,386 | 4,463 1,956 6,308 | 2,543 1,627 14,327 | 2,895 2,025 14,996 | 3,224 3,797 9,632 | 2,575 3,339 12,370 | 2,450 4,787 12,594 |
| United Kingdom | 134,559 | 153,108 | 178,648 | 16,421 | 22,411 | 34,428 | 12,220 | 13,126 | 11,582 |
| Latin America and Other Western Hemisphere | 155,925 | 178,505 | 196,655 | 18,138 | 21,966 | 18,020 | 17,762 | 21,408 | 16,908 |
| Brazii Mexico | 29,105 19,351 | 35,091 24,181 | 37,802 25,877 | 4,159 2,405 | 6,514 5,646 | 3,790 2,533 | 4,172 2,721 | 4,675 3,905 | 3,037 3,177 |
| Africa | 8,162 | 11,157 | 13,491 | 1,678 | 3,371 | 2,712 | 1,801 | 1,954 | 1,719 |
| Middle East | 8,294 | 8,803 | 10,599 | 467 | 601 | 2,062 | 1,412 | 1,328 | 757 |
| Asia and Pacific | 139,548 | 146,610 | 161,797 | 15,363 | 13,693 | 13,471 | 18,795 | 19,513 | 12,623 |
| Australia Japan | 30,006 34,578 | 29,910 33,725 | 33,676 38,153 | 3,787 -280 | 2,393 371 | 3,659 3,844 | 2,851 3,475 | 3,598 3,516 | 1,898 2,179 |
| International | 4,295 | 4,317 | 4,578 | 1,451 | 694 | 582 | 278 | 383 | 823 |
| By industry | | | | | | | | | |
| Petroleum | 75,232 | 82,212 | 91,113 | 6,239 | 9,603 | 9,780 | 12,082 | 11,823 | 8,059 |
| Manufacturing Food and kindred products Chemicals and allied products Primary and fabricated metals Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Other manufacturing | 270,288 31,024 74,858 16,309 30,336 31,832 32,092 53,837 | 280,332 32,465 77,112 15,924 32,293 31,624 34,907 56,006 | 304,690 33,871 83,589 17,098 34,755 34,531 35,615 65,231 | 24,325 2,095 5,796 6,064 2,752 3,440 708 3,470 | 28,097 3,806 7,210 444 4,381 2,992 4,419 4,845 | 26,680 1,670 7,072 1,109 2,810 2,670 1,692 9,658 | 34,342 4,452 9,529 1,358 4,637 4,280 3,409 6,677 | 38,283 4,910 10,050 1,406 5,669 4,700 5,048 6,500 | 31,416 4,262 9,930 1,278 4,213 2,763 2,385 6,586 |
| Wholesale trade | 67,125 | 64,432 | 75,188 | 6,498 | 846 | 9,130 | 9,068 | 9,538 | 10,794 |
| Depository institutions | 36,807 | 40,169 | 42,029 | 2,448 | 3,036 | 1,253 | 3,329 | 3,374 | 577 |
| Finance, (except depository institutions), insurance, and real estate | 254,739 | 293,116 | 337,600 | 31,601 | 41,388 | 44,445 | 28,938 | 31,912 | 30,702 |
| Services | 37,850 | 42,342 | 52,514 | 3,511 | 4,557 | 10,867 | 3,627 | 5,533 | 4,722 |
| Other industries | 53,155 | 62,925 | 77,432 | 9,804 | 11,990 | 19,490 | 2,209 | 3,429 | 3,972 |

NOTES.—In this table, unlike in the international transactions accounts, income and capital outflows are shown without a current-cost adjustment, and income is shown net of withholding taxes. In addition, unlike in the international investment position, the direct investment position is valued at historical cost.

The data in this table are from tables 16 and 17 in "U.S. Direct Investment Abroad: Detail for Historical-Cost Position and Related Capital and Income Flows, 1998" in the September 1999 issue of the SURVEY.

Table G.3.—Selected Financial and Operating Data for Nonbank Foreign Affiliates of U.S. Companies, by Country and by Industry of Foreign Affiliate, 1997

| · · | Number of | | Millions of dollars | | Thousands of |
|---|--------------|---------------------|---------------------|-------------------|--------------|
| | affiliates | Total assets | Sales | Net income | employees |
| All countries, all industries | 22,871 | 3,397,262 | 2,356,416 | 155,267 | 8,018.0 |
| By country | | | | | |
| Canada | 2,073 | 294,943 | 274,205 | 13,654 | 941.9 |
| Europe | 11,209 | 1,914,373 | 1,214,194 | 77,854 | 3,333.9 |
| France | 1,297 | 144,057 | 130,883 | 3,424 | 483.7 |
| Germany | 1,424 | 213,029 | 234,508 | 7,531 | 627.4 |
| Italy | 783 | 66,091 | 74,035 | 2,311 | 205.5 |
| Netherlands | 1,104 545 | 179,751 93.348 | 130,053 67,620 | 17,014 9,155 | 169.4 |
| Switzerland | 2,532 | 923,207 | 337,907 | 18.020 | 977.2 |
| United Kingdon | 2,002 | 923,207 | 337,507 | 10,020 | 511.2 |
| Latin America and Other Western Hemisphere | 3,583 | 458,889 | 268,912 | 30,849 | 1,629.2 |
| Brazil | 461 | 79,240 | 67,380 | 4,934 | 340.8 |
| Mexico | 874 | 83,500 | 88,063 | 8,488 | 793.0 |
| Africa | 559 | 40,602 | 29,150 | 2,653 | 186.6 |
| Middle East | 355 | 39,411 | 24,950 | 2,603 | 77.4 |
| Asia and Pacific | 4,977 | 628,118 | 536,462 | 26,231 | 1,835.8 |
| Australia | 904 | 96,250 | 68.519 | 3,899 | 304.2 |
| Japan | 990 | 266,028 | 205,072 | 5,925 | 396.7 |
| International | 115 | 20,926 | 8,545 | 1,422 | 13.2 |
| By industry | | ł | İ | | |
| Petroleum | 1,622 | 295,313 | 360,452 | 19,778 | 226.1 |
| Manufacturing | 8,528 | 884,113 | 1,086,129 | 61,660 | 4,592.9 |
| Food and kindred products | 789 | 112,875 | 127,710 | 8,810 | 598.0 |
| Chemicals and allied products | 2.065 | 220,923 | 207,988 | 17,900 | 622.4 |
| Primary and fabricated metals | 760 | 47,209 | 44,679 | 2,043 | 244.7 |
| Industrial machinery and equipment | 1.090 | 123,273 | 178,257 | 9.033 | 634.1 |
| Electronic and other electric equipment | 1,908 | 84,525 | 110,625 | 6,905 | 774.5 |
| Transportation equipment | 530 | 131,550 | 244,199 | 6,198 | 724.2 |
| Other manufacturing | 2,386 | 163,757 | 172,671 | 10,772 | 995.0 |
| Wholesale trade | 5,045 | 223,451 | 422,285 | 15,218 | 588.0 |
| Finance, (except depository institutions), insurance, and real estate | 3,115 | 1,498,127 | 135,331 | 42,922 | 218.8 |
| Services | 2,873 | 154,234 | 128,639 | 6,843 | 988.9 |
| Other industries | 1.688 | 342.025 | 223,580 | 8.846 | 1,403.3 |

NOTES.—Size ranges are given in employment cells that are suppressed. The size range is L--50,000-99,999.

The data in this table are from "U.S. Multinational Companies: Operations in 1997" in the July 1999 issue of the SURVEY.

Table G.4.—Foreign Direct Investment in the United States: Selected Items, by Country of Foreign Parent and by Industry of Affiliate, 1996–98

[Millions of dollars]

| | | estment pos | | Capital i | nflows (outfl | ows ()) | | Income | |
|---|---|---|---|--|--|---|---|---|---|
| | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 | 1996 | 1997 | 1998 |
| All countries, all industries | 598,021 | 693,207 | 811,756 | 84,455 | 105,488 | 188,960 | 30,407 | 42,115 | 38,015 |
| By country | | | | | | | | | |
| Canada | 54,836 | 69,866 | 74,840 | 8,590 | 15,399 | 11,859 | 3,190 | 3,361 | 3,010 |
| Europe | 370,843 | 432,622 | 539,906 | 55,989 | 70,508 | 167,655 | 23,724 | 31,380 | 27,635 |
| Of which: France Germany Netherlands United Kingdom | 43,253 61,096 75,349 121,582 | 49,503 71,289 89,570 131,315 | 62,167 95,045 96,904 151,335 | 7,244 19,616 12,262 14,404 | 10,993 12,919 13,658 11,234 | 12,308 42,145 7,018 69,968 | 2,405 2,509 5,271 10,374 | 3,183 3,294 7,103 11,440 | 3,137 4,392 5,920 7,815 |
| Latin America and Other Western Hemisphere | 28,002 | 33,546 | 32,210 | 1,990 | 3,993 | 278 | 1,383 | 1,752 | 1,494 |
| Of which: Brazil Mexico | 697 1,641 | 742 3,315 | 609 4,029 | -64 -47 | 64 330 | -132 864 | 45 1 | 44 171 | 82 270 |
| Africa | 994 | 1,465 | 884 | -101 | 435 | -572 | -136 | -352 | -89 |
| Middle East | 5,812 | 6,593 | 7,831 | 496 | 791 | 967 | 118 | 617 | 475 |
| Asia and Pacific | 137,533 | 149,115 | 156,085 | 17,493 | 14,361 | 8,773 | 2,129 | 5,356 | 5,489 |
| Of which: AustraliaJapan | 14,968 116,144 | 14,703 125,131 | 14,755 132,569 | 5,321 13,337 | 2,254 9,275 | 2,034 7,101 | 492 2,939 | 214 5,780 | 672 5,187 |
| By industry | | | | | | | | | |
| Petroleum | 43,483 | 42,085 | 53,254 | 8,852 | 2,805 | 57,355 | 4,160 | 4,555 | 1,443 |
| Manufacturing Food and kindred products Chemicals and allied products Primary and fabricated metals Machinery Other manufacturing | 245,662 28,088 79,515 18,576 39,093 80,390 | 273,122 26,710 88,831 23,366 46,636 87,580 | 329,346 18,112 101,351 22,512 59,260 128,112 | 37,538 1,981 8,081 5,397 2,868 19,211 | 36,086 -903 13,746 4,258 7,573 11,411 | 87,454 ~5,020 10,325 1,041 18,475 62,632 | 15,694 1,819 5,014 1,024 1,166 6,671 | 18,628 1,532 5,556 1,572 2,805 7,162 | 20,696 1,056 6,190 1,744 2,718 8,988 |
| Wholesale trade | 73,506 | 87,630 | 96,261 | 7,974 | 14,729 | 11,004 | 2,256 | 3,972 | 5,247 |
| Retail trade | 13,765 | 16,718 | 18,778 | 2,708 | 2,622 | 1,946 | 509 | 487 | 579 |
| Depository institutions | 31,264 | 38,118 | 44,785 | 138 | 6,800 | 5,684 | 2,867 | 3,930 | 3,067 |
| Finance, except depository institutions | 37,531 | 43,413 | 50,858 | 6,186 | 7,140 | 5,812 | 855 | 1,979 | -718 |
| Insurance | 56,124 | 70,492 | 80,378 | 6,747 | 12,097 | 6,817 | 2,382 | 4,681 | 4,019 |
| Real estate | 35,169 | 40,060 | 44,436 | 2,535 | 4,675 | 3,284 | -59 | 789 | 948 |
| Services | 29,391 | 38,521 | 50,252 | 4,214 | 7,862 | 10,744 | 14 | 916 | 1,358 |
| Other industries | 32,126 | 43,049 | 43,409 | 7,562 | 10,673 | -1,139 | 1,757 | 2,178 | 1,376 |

NOTES.—In this table, unlike in the international transactions accounts, income and capital inflows are shown without a current-cost adjustment, and income is shown net of withholding taxes. In addition, unlike in the international investment position, the direct investment position is valued at historical cost.

The data in this table are from tables 16 and 17 in "Foreign Direct Investment in the United States: Detail for Historical-Cost Position and Related Capital and Income Flows, 1998" in the September 1999 issue of the SURVEY.

Table G.5.—Selected Financial and Operating Data of Nonbank U.S. Affiliates of Foreign Companies by Country of Ultimate Beneficial Owner and by Industry of Affiliate, 1997

| | | | Millions | of dollars | | | Millions | of dollars |
|---|--|---|---|--|---|--|---|--|
| | Number of affiliates | Total assets | Sales | Net income | Gross product | Thousands of employees | U.S. exports of goods shipped by affiliates | U.S. imports of goods shipped to affiliates |
| All countries, all industries | 9,474 | 3,034,404 | 1,717,240 | 42,547 | 384,883 | 5,164.3 | 140,924 | 261,482 |
| By country | | | | | | | | i |
| Canada | 945 | 309,080 | 139,409 | 3,693 | 34,464 | 601.6 | 7,787 | 14,356 |
| EuropeOf which: | 4,071 | 1,809,319 | 940,672 | 31,107 | 245,919 | 3,213.9 | 62,392 | 94,512 |
| France Germany Netherlands Switzerland United Kingdom | 513 1,011 302 404 929 | 322,270 302,740 260,034 339,896 454,081 | 135,414 194,492 124,109 110,077 258,845 | 2,959 5,071 5,508 2,986 12,119 | 35,863 46,171 33,750 25,637 78,550 | 411.2 657.6 391.4 352.1 983.2 | 14,032 13,973 4,592 6,233 14,543 | 12,936 32,032 10,191 7,127 15,363 |
| Latin America and Other Western Hemisphere | 632 | 59,833 | 53,469 | 2,522 | 13,545 | 168.1 | 5,308 | 9,622 |
| Africa | 41 | 11,969 | 11,222 | 326 | 2,843 | 22.4 | 855 | 634 |
| Middle East | 307 | 28,841 | 25,246 | 1,151 | 7,295 | 92.7 | 814 | 5,534 |
| Asia and Pacific | 3,373 | 687,245 | 523,479 | 918 | 73,667 | 1,012.6 | 62,709 | 135,739 |
| Australia Japan | 135 2,587 | 55,514 582,570 | 26,132 446,422 | -101 2,701 | 5,207 62,345 | 80.1 812.4 | 1,410 52,883 | 1,501 120,357 |
| United States | 105 | 128,117 | 23,742 | 2,829 | 7,151 | 52.9 | 1,058 | 1,084 |
| By industry ¹ | | | | | | | | |
| Manufacturing | 2,846 214 | 680,260 43,894 | 667,576 47,082 | 18,826 | 188,477 10,953 | 2,227.0 152.7 | 70,053 2,620 | 99,304 2,675 |
| Chemicals Primary and fabricated metals Machinery Computers and electronic products Electrical equipment, appliances, and components Transportation equipment | 339 373 359 333 104 260 | 190,326 67,516 47,246 53,182 22,574 49,211 | 141,744 65,075 56,680 73,413 26,203 72,607 | 183 4,280 1,744 1,390 -257 631 2,060 | 10,953 40,906 16,510 16,607 15,658 7,537 13,554 | 389.4 219.4 260.8 239.6 129.5 207.9 | 15,259 5,133 10,357 13,092 3,430 7,631 | 2,675 16,019 8,329 8,267 20,612 3,421 18,203 |
| Wholesale trade | 1,708 | 293,144 | 530,141 | 3,889 | 51,856 | 538.5 | 63,231 | 155,716 |
| Retail trade | 210 | 49,802 | 96,624 | 1,197 | 25,009 | 688.7 | 1,951 | 3,973 |
| Information | 236 | 144,497 | 80,845 | 2,445 | 27,120 | 293.4 | 888 | 374 |
| Finance (except depository institutions) and insurance | 570 | 1,534,492 | 175,822 | 11,220 | 26,331 | 219.8 | (^D) | (P) |
| Real estate and rental and leasing | 1,935 | 116,679 | 20,813 | 204 | 9,084 | 47.0 | (^D) | (P) |
| Professional, scientific, and technical services | 301 | 17,299 | 15,972 | -570 | 5,981 | 82.6 | 361 | 567 |
| Other industries | 1,668 | 198,229 | 129,448 | 5,337 | 51,025 | 1,067.3 | 4,332 | 1,255 |

using an industry classification system based on the Standard Industrial Classification system. NOTE.—The data in this table are from "Foreign Direct Investment in the United States: Preliminary Results from the 1997 Benchmark Survey" in the August 1999 issue of the SURVEY.

D Suppressed to avoid disclosure of data of individual companies.
 The industry classification system used to classify the data for U.S. affiliates is based on the North American Industry Classification System. Prior to 1997, the affiliate data were classified

H. International Perspectives_

Quarterly data in this table are shown in the middle month of the quarter.

Table H.1.—International Perspectives

| | | | 1998 | | 8 1999 | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 1998 | 1999 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | |
| | | | | | | Exchange | e rates per | U.S. dolla | ar (not sea | asonally ac | ljusted) ¹ | | | | | | |
| Canada (Can.\$/US\$) European Monetary Union (US\$/Euro) ² France (FFr/US\$) ² Germany (DM/US\$) ² Italy (L/US\$) ² | 1.4836 5.8995 1.7597 17.3685 | 1.4858 1.0653 | 1.5404 5.6422 1.6827 16.6491 | 1.5433 5.5981 1.6698 16.5323 | 1.5194 1.1591 | 1.4977 1.1203 | 1.5176 1.0886 | 1.4881 | 1.4611 1.0630 | 1.4695 1.0377 | 1.4890 1.0370 | 1.4932 1.0605 | 1.4771 1.0497 | 1.4776 1.0706 | 1.4674 1.0328 | 1.4722 1.0110 | |
| Italy (L/ÚS¢) ² Japan (¥/US¢) Mexico (Peso/US\$) United Kingdom (US\$/£) | 1.3099 9.1520 1.6573 | 1.1373 9.5530 1.6172 | 1.2029 9.9680 1.6611 | 1.1707 9.9070 1.6708 | 1.1329 10.1280 1.6498 | 1.1667 10.0060 1.6276 | 1.1947 9.7320 1.6213 | 1.1977 9.4300 1.6089 | 1.2200 9.3950 1.6154 | 1.2072 9.5150 1.5950 | 1.1933 9.3700 1.5751 | 1.1323 9.3980 1.6058 | 1.0688 9.3410 1.6247 | 1.0597 9.5750 1.6572 | 1.0465 9.4160 1.6205 | 1.0258 9.4270 1.6132 | |
| Addendum: Exchange value of the U.S. dollar ³ | 116.48 | 116.87 | 115.73 | 114.98 | 115.16 | 116.84 | 118.22 | 117.57 | 117.34 | 117.93 | 117.97 | 117.00 | 116.38 | 115.88 | 116.08 | 116.09 | |
| | Unemployment rates (percent, monthly data seasonally adjusted) | | | | | | | | | | | | | | | | |
| Canada France Germany Italy | 8.3 11.8 11.1 11.8 | 7.6 11.2 10.5 11.4 | 8.0 11.6 10.6 11.8 | 8.1 11.5 10.7 | 7.9 11.5 10.6 | 7.9 11.4 10.6 11.8 | 7.9 11.4 10.6 | 8.2 11.3 10.6 | 7.9 11.4 10.5 11.4 | 7.5 11.3 10.5 | 7.6 11.2 10.5 | 7.7 11.3 10.5 11.5 | 7.4 11.1 10.5 | 7.1 11.0 10.5 | 6.9 10.8 10.4 11.0 | 6.8 10.6 10.2 | |
| Japan Mexico United Kingdom | 4.1 3.2 4.7 | 4.7 | 4.4 2.6 4.6 | 4.4 2.6 4.6 | 4.4 2.8 4.5 | 4.6 3.2 4.6 | 4.8 2.7 4.5 | 4.8 2.7 4.5 | 4.6 2.4 4.5 | 4.9 2.6 4.4 | 4.9 2.3 4.3 | 4.7 2.5 4.2 | 4.6 2.2 4.2 | 4.6 2.5 4.2 | 4.5 2.1 4.1 | 4.6 4.0 | |
| Addendum: United States | 4.5 | 4.2 | 4.4 | 4.4 | 4.3 | 4.4 | 4.2 | 4.3 | 4.2 | 4.3 | 4.3 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | |
| | Consumer prices (monthly data seasonally adjusted, 1995=100) | | | | | | | | | | | | | | | | |
| Canada France Germany Italy Japan Mexico United Kingdom | 104.25 104.01 104.30 108.22 102.50 187.91 109.27 | 106.05 104.57 104.91 110.01 102.16 219.08 110.97 | 104.60 103.91 104.21 108.80 103.19 198.88 110.29 | 104.31 104.02 104.31 108.80 102.79 203.73 110.29 | 104.50 103.70 104.11 108.90 102.29 208.88 109.62 | 104.69 104.02 104.31 109.10 101.89 211.68 109.82 | 105.08 104.43 104.41 109.30 101.99 213.65 110.09 | 105.65 104.64 104.81 109.60 102.49 215.61 110.83 | 105.94 104.64 104.81 109.80 102.49 216.91 111.10 | 106.04 104.64 104.91 109.80 102.19 218.33 111.10 | 106.33 104.43 105.41 110.10 101.79 219.78 110.76 | 106.61 104.54 105.31 110.20 102.09 221.01 111.03 | 106.90 104.74 105.11 110.40 102.39 223.15 111.50 | 107.00 104.85 105.01 110.80 102.59 224.56 111.70 | 106.90 104.85 105.21 111.00 101.99 226.56 111.84 | 107.00 105.37 105.51 111.10 101.69 228.83 112.24 | |
| Addendum: United States | 106.97 | 109.31 | 107.75 | 107.89 | 108.02 | 108.08 | 108.28 | 109.07 | 109.07 | 109.07 | 109.40 | 109.72 | 110.18 | 110.38 | 110.51 | 110.77 | |
| | | | Real gros | s domestic | product (| percent ch | ange from | preceding | quarter, | quarterly d | ata seasoi | nally adjus | ted at ann | ual rates) | | | |
| Canada France Germany Italy Japan Mexico United Kingdom | 3.1 3.3 2.2 1.3 -2.5 4.8 2.2 | | 4.8 3.0 8 -1.5 -2.0 -4.3 .1 | | | 4.1 1.8 2.5 .9 6.3 3.6 1.4 | | | 3.1 3.0 .5 1.5 3.9 9.2 3.0 | | | 4.7 3.9 2.9 3.8 -3.9 10.2 3.1 | | | | | |
| Addendum: United States | 4.3 | 4.1 | 5.9 | | | 3.7 | | | 1.9 | | | 5.7 | •••••• | | 6.9 | | |

See footnotes at the end of the table.

Table H.1.—International Perspectives—Continued

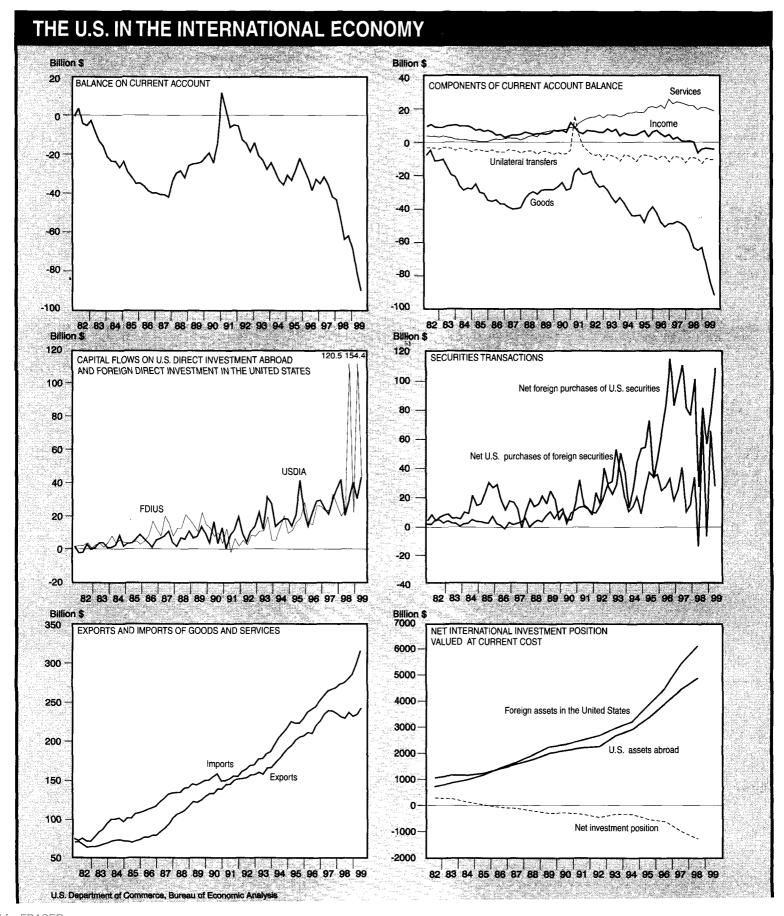
| | 1998 | 1999 | 19 | 98 | 1999 | | | | | | | | | | | |
|---|---|--|---|---|---|---|---|---|---|---|--|--|--|--|--|--|
| | 1990 | 1999 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | Short-term, 3-month, interest rates (percent, not seasonally adjusted) | | | | | | | | | | | | | | |
| Canada France Germany | 5.04 3.56 3.54 | | 5.13 3.59 3.63 | 4.99 3.32 3.38 | 4.99 | 5.02 | 5.00 | 4.71 | 4.58 | 4.80 | 4.77 | 4.89 | 4.81 | 5.00 | 5.03 | |
| Italy Japan Mexico United Kingdom | 4.99 .72 26.11 7.33 | | 3.95 .63 34.30 6.88 | 3.38 .62 34.35 6.37 | | | | | .08 21.02 5.25 | .07 21.35 5.12 | .08 20.78 5.07 | | | | 34 18.68 5.78 | |
| Addendum: United States | 4.81 | 4.66 | 4.44 | 4.42 | 4.34 | 4.45 | 4.48 | 4.28 | 4.51 | 4.59 | 4.60 | 4.76 | 4.73 | 4.88 | 5.07 | 5.23 |
| | Long-term interest rates, government bond yields (percent, not seasonally adjusted) | | | | | | | | | | | | | | | |
| Canada France Germany Italy Japan United Kingdom | 5.45 4.82 4.58 4.88 1.54 5.52 | 5.68 4.94 4.50 4.73 1.75 5.08 | 5.39 4.43 4.10 4.38 .98 4.91 | 5.07 4.41 3.90 4.00 1.49 4.50 | 5.13 4.13 3.70 3.92 1.91 4.29 | 5.26 4.42 3.90 4.05 2.12 4.45 | 5.34 4.39 4.00 4.27 1.82 4.66 | 5.26 4.25 3.90 4.11 1.56 4.59 | 5.51 4.45 4.00 4.28 1.33 4.91 | 5.70 4.94 4.40 4.62 1.63 5.16 | 5.61 5.08 4.68 4.94 1.70 5.33 | 5.85 5.17 4.88 5.13 1.88 5.38 | 5.88 5.35 5.04 5.28 1.76 5.65 | 6.26 5.67 5.29 5.52 1.69 5.83 | 6.15 5.66 5.04 5.25 1.82 5.28 | 6.22 5.81 5.15 5.36 1.77 5.38 |
| Addendum: United States | 5.26 | 5.65 | 4.83 | 4.65 | 4.72 | 5.00 | 5.23 | 5.18 | 5.54 | 5.90 | 5.79 | 5.94 | 5.92 | 6.11 | 6.03 | 6.28 |
| | | | | | 8 | Share pric | e indices | (not sea | sonally a | djusted, | 1995=100 |)) | | | | |
| Canada France Germany Italy Japan Mexico United Kingdom | 152.40 192.24 197.73 220.53 85.36 191.09 150.50 | 159.20 234.63 204.92 245.52 100.35 240.25 168.45 | 143.10 190.90 188.86 213.89 80.59 169.86 148.92 | 146.30 193.39 186.88 224.00 80.25 178.41 150.07 | 151.80 210.44 199.85 241.37 78.31 178.34 157.29 | 142.40 210.06 195.26 236.94 79.78 191.98 159.40 | 148.80 211.54 191.41 248.62 87.18 222.15 162.89 | 158.20 220.92 200.13 251.95 96.31 243.96 169.18 | 154.30 225.11 200.70 247.42 96.25 246.81 168.18 | 158.10 230.17 202.32 247.42 99.81 262.67 171.00 | 159.70 236.08 209.77 248.11 106.74 237.02 173.50 | 157.20 231.73 200.77 234.24 106.15 229.20 168.92 | 156.90 242.28 203.21 242.54 108.33 227.56 166.66 | 163.70 243.01 202.72 234.98 110.01 245.58 164.26 | 169.70 264.86 218.10 241.43 116.78 276.50 174.97 | 189.80 289.32 234.84 271.26 118.61 321.26 185.11 |
| Addendum: United States | 189.00 | 212.67 | 193.80 | 197.85 | 204.51 | 202.20 | 207.35 | 215.61 | 218.31 | 216.22 | 222.85 | 213.30 | 208.78 | 205.75 | 217.83 | 219.34 |

All exchange rates are from the Board of Governors of the Federal Reserve System.
 As of January 1, 1999, the euro is reported in place of the individual euro-area currencies. These currency rates can be derived from the euro rate by using the following conversion rates: 1 euro = 6.55957 French francs, 1.95583 German marks, and 1936.27 Italian lire.
 The rate shown for the United States is an index of the weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of major U.S. trading partners, January 1997=100 and

reflects revised trade weights. For more information on the exchange rate indexes, see "New Summary Measures of the Foreign Exchange Value of the Dollar," Federal Reserve Bulletin, vol. 84 (October 1998), pp. 811–18.

NOTE.—U.S. interest rates, unemployment rates, and GDP growth rates are from the Federal Reserve, the Bureau of Labor Statistics, and BEA, respectively. All other data (including U.S. consumer prices and U.S. share prices, both of which have been rebased to 1995 to facilitate comparison) are © OECD, February 2000, OECD Main Economic Indicators and are reproduced with permission of the OECD.

I. Charts



Regional Data

J. State and Regional Tables.

The tables in this section include the most recent estimates of State personal income and gross state product. The sources of these estimates are noted.

The quarterly and annual State personal income estimates and the gross state product estimates are available on diskettes or CD-ROM. For information on State personal income, E-mail reis.remd@bea.doc.gov; write to the Regional Economic Information System, BE-55, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230; or call 202-606-5360. For information on gross state product, E-mail gspread@bea.doc.gov; write to the Regional Economic Analysis Division, BE-61, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230; or call 202-606-5340.

Table J.1.—Quarterly Personal Income by State and Region

| | Millions of dollars, seasonally adjusted at annual rates | | | | | | | | | | | Percent change ¹ | | | |
|-----------------------------|--|----------------------------|-----------------------------|-----------------------------|--------------------------|---------------------|---------------------|--------------------------|---------------------|---------------------|---------------------|-----------------------------|--------------------|--------------------|----------------------|
| Area name | | 19 | 97 | | | 19 | | | | 1999 | | 1998:III- 1998:IV | 1998:IV- 1999:I | 1999:I- 1999:II | 1999:II- 1999:III |
| | <u> </u> | " | # | IV | 1 | | 111 | IV | | | 1) | 1990.14 | 1999.1 | 1999.11 | 1999.111 |
| United States | 6,650,207 | 6,726,629 | 6,807,506 | 6,898,259 | 7,016,041 | 7,108,060 | 7,199,440 | 7,309,162 | 7,406,673 | 7,504,566 | 7,601,815 | 1.5 | 1.3 | 1.3 | 1.3 |
| New England | 399,830 | 403,744 | 408,242 | 415,615 | 419,963 | 426,088 | 433,011 | 440,347 | 443,257 | 450,901 | 457,711 | 1.7 | .7 | 1.7 | 1.5 |
| Connecticut | 115,126 26,877 | 116,357 27,112 | 117,455 27,267 | 119,755 27,715 | 121,057 27,865 | 122,052 28,406 | 123,950 28,936 | 126,664 29,271 | 127,236 29,236 | 129,428 30,017 | 131,570 30,390 | 2.2 1.2 | .5. 1 | 1.7 2.7 | 1.7 1.2 |
| Massachusetts | 187,831 | 189,367 | 191,863 | 194,969 | 197,207 | 200,905 | 204,031 | 206,866 | 209,219 | 212,737 | 215,906 | 1.4 | 1.7 | 1.7 | 1.5 |
| New Hampshire | 31,755 | 32,233 | 32,759 | 33,436 | 33,646 | 34,124 | 34,937 | 35,796 | 35,587 | 36,190 | 36,692 | 2.5 | 6 | 1.7 | 1.4 |
| Rhode Island | 24,886 13,354 | 25,223 13,452 | 25,372 13,524 | 25,877 13,864 | 26,152 14,037 | 26,370 14,230 | 26,762 14,394 | 27,172 14,578 | 27,335 14,644 | 27,564 14,965 | 28,007 15,147 | 1.5 1.3 | .6 .5 | .8 2.2 | 1.6 1.2 |
| | 1,287,567 | 1,293,436 | 1,309,439 | 1,325,328 | 1,345,232 | 1,364,051 | 1,380,603 | 1,389,923 | 1,420,878 | 1,435,616 | 1,453,918 | ", | 2.2 | 1.0 | |
| Mideast | 20,631 | 20,639 | 21,094 | 21,422 | 21,892 | 22,118 | 22,225 | 22,796 | 23,078 | 23,191 | 23,541 | 2.6 | 1.2 | .5 | 1.3 1.5 |
| District of Columbia | 18,760 | 18,805 | 19,028 | 19,085 | 19,191 | 19,408 | 19,687 | 19,817 | 20,235 | 20,450 | 20,709 | .7 | 2.1 | 1.1 | 1.3 1.2 |
| Maryland | 143,770 | 145,016 | 146,589 | 148,983 | 150,778 | 153,116 | 155,299 | 157,464 | 159,802 | 161,725 | 163,589 | 1.4 | 1.5 | 1.2 | 1.2 |
| New York | 257,066 543,350 | 258,617 543,675 | 261,795 551,780 | 265,466 556,901 | 270,299 565,642 | 273,177 | 278,572 581,019 | 280,078 581,208 | 288,406 598,865 | 291,133 603,200 | 294,092 612,924 | 0.5 | 3.0 3.0 | .9 | 1.0 1.6 |
| Pennsylvania | 303,989 | 306,686 | 309,153 | 313,471 | 317,430 | 575,201 321,031 | 323,801 | 328,561 | 330,493 | 335,917 | 339,062 | 1.5 | .6 | 1.6 | .9 |
| Great Lakes | 1,089,113 | 1,102,312 | 1,112,380 | 1,126,771 | 1,143,432 | 1,155,114 | 1,163,136 | 1,185,908 | 1.192.794 | 1,207,693 | 1,223,340 | 2.0 | | 1.2 | 1.3 |
| Minois | 325,749 | 330,416 | 333,657 | 338,040 | 342,467 | 346,668 | 350.023 | 356,961 | 361,142 | 366,399 | 371.323 | 2.0 | 1.2 | 1.5 | 1.3 |
| Indiana | 133,919 | 135,408 | 136,348 | 138,619 | 140,635 | 142,285 | 143,902 | 146,627 | 147,355 | 148,532 | 150,129 | 1.9 | .5 | .8 | 1.1 |
| Michigan | 240,467 | 243,025 | 245,370 | 247,430 | 253,117 | 254,683 | . 253,375 | 258,980 | 259,761 | 262,359 | 265,883 | 2.2 | .3 | 1.0 | 1.3 |
| OhioWisconsin | 266,151 122,827 | 269,084 124,378 | 271,385 125,620 | 275,181 127,501 | 278,627 128,587 | 280,966 130,512 | 283,518 132,318 | 288,569 134,771 | 290,063 134,472 | 293,306 137,098 | 297,072 138,932 | 1.8 1.9 | .5 -2 | 1.1 2.0 | 1.3 1.3 |
| | 1 | 444,771 | l ' i | | | | | | 484,446 | , | | | | | |
| Plainslowa | 438,635 64,874 | 65,808 | 449,351 66,185 | 454,161 67.105 | 460,014 67,104 | 466,078 67,830 | 470,605 68,745 | 482,185 71,199 | 70,660 | 492,615 71,542 | 496,817 72,266 | 2.5 3.6 | .5 -8 | 1.7 1.2 | 1.0 |
| Kansas | 61,007 | 62,081 | 62,782 | 63,581 | 64.435 | 65,385 | 65,973 | 67,625 | 67,566 | 68,751 | 69,264 | 2.5 | 1 | 1.8 | .7 |
| Minnesota | 120,365 | 122,372 | 123,869 | 125,434 | 128,013 | 129,951 | 130,696 | 134,286 | 135,399 | 137,966 | 140,045 | 2.7 | .8 | 1.9 | 1.5 |
| Missouri | 126,067 | 127,093 39,037 | 128,381 39,412 | 129,637 39,604 | 130,680 | 132,228 40,820 | 133,834 | 135,080 42,538 | 136,906 42,435 | 138,775 43,082 | 139,964 43,198 | .9 2.9 | 1.4 | 1.4 1.5 | 9.9 |
| Nebraska | 38,487 12,646 | 12,838 | 12,986 | 13,072 | 40,140 13,623 | 13,680 | 41,349 13,758 | 14,358 | 14,419 | 14,906 | 14,692 | 4.4 | 2 | 3.4 | -1.4 |
| South Dakota | 15,190 | 15,541 | 15,736 | 15,729 | 16,019 | 16,185 | 16,250 | 17,099 | 17,062 | 17,594 | 17,388 | 5.2 | -2 | 3.1 | -1.2 |
| Southeast | 1,458,318 | 1,472,319 | 1,488,852 | 1,509,533 | 1,535,161 | 1,557,124 | 1,580,149 | 1,601,518 | 1,620,186 | 1,638,193 | 1,657,547 | 1.4 | 1,2 | 1.1 | 1.2 |
| Alabama | 88,240 | 88,927 | 89,599 | 90,626 | 91,987 | 92,976 | 94,041 | 95,265 | 95,780 | 97,014 | 98,145 | 1.3 | 5 | 1.3 | 1.2 |
| Arkansas | 48,531 | 49,268 | 49,629 | 50,338 | 50,874 | 51,403 | 51,790 | 52,984 | 53,182 | 53,759 | 53,827 | 2.3 | .4 | 1.1 | .1 |
| Florida | 357,463 | 361,282 | 366,450 | 370,723 | 377,760 | 383,881 | 389,957 | 395,019 | 396,747 | 403,978 | 411,109 | 1.3 | .4 | 1.8 | 1.8 |
| Georgia Kentucky | 175,822 79,087 | 177,615 80.058 | 179,751 80,819 | 182,310 81,777 | 186,808 83,283 | 189,851 84,440 | 193,919 85.430 | 196,882 86.183 | 201,289 87,280 | 203,893 88,019 | 206,991 89,326 | 1.5 .9 | 2.2 1.3 | 1.3 | 1.5 1.5 |
| Louisiana | 87,638 | 88,570 | 89,247 | 90.811 | 91,958 | 93,334 | 93,822 | 94,605 | 94,707 | 95,555 | 96,399 | ا ق | 1.1 | .9 | .9 |
| Mississippi | 48,597 | 49,213 | 49,609 | 50,330 | 51.250 | 51,828 | 52,680 | 53,374 | 53,518 | 54,094 | 54,754 | 1.3 | .3 | 1.1 | 1.2 |
| North Carolina | 169,449 76,523 | 171,121 | 172,593 78,010 | 175,453 79,071 | 178,542 79,995 | 180,852 | 183,188 | 185,561 | 188,551 | 190,432 | 188,436 | 1.3 | 1.6 | 1.0 | -1.0 |
| South Carolina Tennessee | 120,173 | 77,139 120,999 | 122,280 | 124.284 | 125,583 | 81,170 127,546 | 82,960 129,172 | 84,033 130,676 | 84,595 132,161 | 86,002 133,735 | 87,303 135,935 | 1.3 1.2 | 1.1 | 1.7 1.2 | 1.5 1.6 |
| Virginia | 173,146 | 174,227 | 176,798 | 179,473 | 182,445 | 127,546 184,931 | 187,900 | 191,467 | 196,815 | 195,755 | 198,751 | 1.9 | 2.8 | 5 | 1.5 |
| West Virginia | 33,649 | 33,900 | 34,066 | 34,337 | 34,676 | 34,911 | 35,290 | 35,469 | 35,562 | 35,955 | 36,570 | .5 | .3 | 1.1 | 1.7 |
| Southwest | 643,609 | 655,242 | 666,522 | 676,461 | 692,740 | 702,120 | 713,181 | 723,371 | 731,553 | 743,460 | 754,190 | 1.4 | 1.1 | 1.6 | 1.4 |
| Arizona | 97,748 | 99,234 | 100,914 | 102,744 | 104,765 | 106,967 | 109,091 | 111,522 | 111,051 | 115,051 | 117,435 | 2.2 | 4 | 3.6 | 2.1 |
| New Mexico | 32,780 66,453 | 33,202 | 33,404 | 33,689 | 34,239 69,562 | 34,543 | 34,800 70,847 | 35,431 | 35,190 71,909 | 36,063 | 36,471 | 1.8 | 7 1.0 | 2.5 | 1.1 |
| Oklahoma Texas | 446,628 | 67,024 455,782 | 67,623 464,580 | 68,676 471,352 | 484,174 | 70,257 490,352 | 498,443 | 71,211 505,206 | 513,403 | 72,927 519,419 | 73,682 526,601 | .5 1.4 | 1.6 | 1.4 1.2 | 1.0 1.4 |
| | 194,734 | 198.098 | 201,433 | 204,128 | 209,209 | 211,736 | 214,437 | 219,191 | 222,178 | 227,417 | 230,648 | 2.2 | 1.4 | 2.4 | 14 |
| Rocky Mountain | 101,986 | 104,199 | 106,206 | 108,182 | 111,925 | 113,255 | 114,793 | 117,823 | 119,334 | 122,654 | 124,766 | 2.6 | 1.3 | 2.8 | 1.4 1.7 |
| Idaho | 24,167 | 24,524 | 24,894 | 25,017 | 25,426 | 25,622 | 26,076 | 26,480 | 27,054 | 27,403 | 27,660 | 1.5 | 2.2 | 1.3 | .9 |
| Montana | 17,007 | 17,182 | 17,349 | 17,565 | 17,547 | 17,786 | 17,728 | 18,246 | 18,476 | 18,964 | 19,024 | 2.9 | 1.3 | 2.6 2.2 | .3 |
| Wyoming | 40,836 10,737 | 41,410 10,783 | 42,087 10,897 | 42,393 10,972 | 43,288 11,023 | 44,070 11,004 | 44,561 11,278 | 45,269 11,372 | 45,727 11,587 | 46,729 11,666 | 47,466 11,732 | 1.6 .8 | 1.0 1.9 | 2.2 | 1.6 .6 |
| | | | | | | · . | · · | | | | | | - 1 | | |
| Far West | 1,138,401 14,984 | 1,156,706 15,237 | 1,1 71,286 15,275 | 1,1 86,262 15,393 | 1,210,289 15,805 | 1,225,749 15,749 | 1,244,320 15,762 | 1,266,721 15,978 | 1,291,380 16,154 | 1,308,673 16,114 | 1,327,645 16,236 | 1.8 1.4 | 1.9 1.1 | 1.3 2 | 1.4 .8 |
| California | 828,154 | 842,113 | 853,136 | 863,952 | 881,119 | 892,504 | 906,175 | 923,802 | 941,435 | 956,059 | 969,041 | 1.9 | 1.9 | 1.6 | 1.4 |
| Hawaii | 30,224 | 30,437 | 30,727 | 30,669 | 31,022 | 31,192 | 31,316 | 31,543 | 31,649 | 32,061 | 32,523 | .7 | .3 | 1.3 l | 1.4 |
| Nevada | 43,671 | 44,255 | 44,662 | 45,450 | 46,344 | 47,203 | 48,135 | 49,497 | 50,522 | 51,156 | 52,435 | 2.8 | 2.1 | 1.3 1.2 | 2.5 |
| Oregon | 76,340 145,028 | 77,063 147,601 | 78,110 149,376 | 78,803 151,995 | 80,391 155,609 | 81,101 157,999 | 81,532 161,400 | 82,215 163,686 | 84,336 167,285 | 85,366 167,917 | 86,664 170,746 | .8 1.4 | 2.6 2.2 | 1.2 | 1.5 1.7 |
| Washington | 170,020 | 147,001 | 170,010 | 101,000 | 100,000 | 101,000 | 101,400 | 100,000 | 107,200 | 107,717 | 170,740 | 1.4 | ۷.۷ | | 1.1 |

Percent changes are expressed at quarterly rates.

NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the estimate of personal income in the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability

of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Source: Table 1 in "State Personal Income, Third Quarter 1999" in the February 2000 issue of the SURVEY OF CHIRECULT RUGINESS

Table J.2.—Annual Personal Income and Disposable Personal Income for States and Regions

| | | P | ersonal incom | ne . | | Disposable personal income | | | | | | |
|--|---------------------|---------------------|---------------------|-------------------|---------------------|----------------------------|--------------------|--------------------------|------------|--|--|--|
| Area name | М | illions of dolla | urs | Percent | change | M | illions of dolla | Percent change | | | | |
| | 1996 | 1997 | 1998 | 1996-97 | 1997 9 8 | 1996 | 1997 | 1998 | 1996–97 | 1997-98 | | |
| United States | 6,408,103 | 6,770,650 | 7,158,176 | 5.7 | 5.7 | 5,518,569 | 5,782,712 | 6,061,088 | 4.8 | 4.8 | | |
| New England | 384,540 | 406,858 | 429,852 | 5.8 | 5.7 | 323,239 | 338,425 | 353,824 | 4.7 | 4.6 | | |
| Connecticut | 110,904 | 117,173 | 123,431 28,620 | 5.7 | 5.3 | 91,503 | 95,453 | 99,259 | 4.3 | 4.0 | | |
| Maine | 25,934 | 27,243 | 28,620 | 5.0 | 5.1 | 22,772 | 23,671 | 24,650 | 3.9 | 4.1 | | |
| Massachusetts | 179,998 | 191,008 | 202,252 | 6.1 | 5.9 | 149,777 | 157,389 | 164,889 | 5.1 | 4.8 | | |
| New Hampshire | 30,633 | 32,546 25,340 | 34,626 | 6.2 | 6.4 | 26,831 | 28,254 | 29,849 | 5.3 | 5.6 4.3 | | |
| Rhode Island | 24,067 13,004 | 25,340 13,549 | 26,614 14,309 | 5.3 4.2 | 5.0 5.6 | 21,022 11,333 | 21,942 11,717 | 22,878 12,299 | 4.4 3.4 | 4.3 5.0 | | |
| Mideast | 1,245,254 | 1,303,943 | 1,369,952 | 4.7 | 5.1 | 1.057.756 | 1,096,946 | 1.140.195 | 3.7 | 3.9 | | |
| Delaware | 19,723 | 20,946 | 22,258 | 6.2 | 6.3 | 16,796 | 17,699 | 18,647 | 5.4 | 5.4 | | |
| District of Columbia | 18,463 | 18,919 | 19,526 | 2.5 | 3.2 | 15,623 | 15,851 | 16,100 | 1.5 | 1.6 | | |
| Maryland | 138,068 | 146,090 | 154,164 | 5.8 | 5.5 | 117,094 | 122,434 | 128,282 | 4.6 | 4.8 4.6 | | |
| New Jersey | 247,381 | 260,736 | 275,531 | 5.4 | 5.7 | 210,191 | 219,885 | 229,892 | 4.6 | 4.6 | | |
| New York | 526,390 | 548,927 | 575,768 | 4.3 | 4.9 | 442,273 | 456,565 | 472,647 | 3.2 | 3.5 3.8 | | |
| Pennsylvania | 295,230 | 308,325 | 322,706 | 4.4 | 4.7 | 255,779 | 264,511 | 274,626 | 3.4 | 3.8 | | |
| Great Lakes | 1,054,547 | 1,107,644 | 1,161,898 | 5.0 | 4.9 | 902,103 | 939,326 | 977,559 | 4.1 | 4.1 | | |
| Hinois | 314,960 | 331,966 | 349,029 | 5.4 | 5.1 | 268,434 | 280,280 | 292,419 | 4.4 | 4.3 | | |
| Indiana | 129,570 | 136,073 | 143,362 | 5.0 | 5.4 | 111,656 | 116,414 | 121,876 | 4.3 | 4./ | | |
| Michigan | 233,571 | 244,073 | 255,039 282,920 | 4.5 5.0 | 4.5 4.6 | 199,607 | 206,608 230,780 | 214,329 239,089 | 3.5 4.2 | 3./ | | |
| Ohio | 257,506 118,940 | 270,450 125,081 | 131,547 | 5.0 | 5.2 | 221,394 101,011 | 105,244 | 109,846 | 4.2 4.2 | 4.3 4.7 3.7 3.6 4.4 | | |
| Plains | 425,718 | 446,730 | 469,721 | 4.9 | 5.1 | 367,001 | 381,713 | 398,925 | 4.0 | 4.5 | | |
| lowa | 62,759 | 65,993 62,363 | 68,720 | 5.2 | 4.1 | 54,824 | 57,253 | 59,222 | 4.4 | 3.4 | | |
| Kansas | 58,690 | 62,363 | 65,854 | 6.3 | 5.6 | 50,703 | 53,488 | 56,057 | 5.5 | 4.8 | | |
| Minnesota | 117,293 | 123.010 | 130,737 | 4.9 | 6.3 | 97,774 | 101,468 | 107,358 | 3.8 | 5.8 | | |
| Missouri | 121,265 | 127,795 | 132,955 | 5.4 | 4.0 | 105,529 | 110,307 | 113,948 | 4.5 | 3.3 | | |
| Nebraska | 37,652 | 39,135 | 41,212 | 3.9 | 5.3 | 32,903 | 33,827 | 35,446 | 2.8 | 4.8 | | |
| North Dakota | 12,983 | 12,885 | 13,855 | 8 | 7.5 | 11,620 | 11,389 | 12,230 | -2.0 | 4.8 5.8 3.3 4.8 7.4 4.9 | | |
| South Dakota | 15,076 | 15,549 | 16,388 | 3.1 | 5.4 | 13,649 | 13,982 | 14,665 | 2.4 | 4.9 | | |
| Southeast | 1,401,506 | 1,482,256 | 1,568,488 | 5.8 | 5.8 | 1,225,384 | 1,286,377 | 1,350,586 | 5.0 | 5.0 4.2 3.9 5.2 6.3 4.9 4.2 5.3 4.7 5.1 | | |
| Alabama | 85,128 | 89,348 | 93,567 | 5.0 | 4.7 | 75,473 | 78,809 | 82,148 45,394 | 4.4 | 4.2 | | |
| Arkansas | 47,116 | 49,442 | 51,763 | 4.9 | 4.7 | 41,791 | 43,686 | | 4.5 | 3.9 | | |
| Florida | 343,806 | 363,980 | 386,654 | 5.9 | 6.2 | 298,933 | 313,790 | 330,157 | 5.0 | 5.2 | | |
| Georgia | 167,956 | 178,875 | 191,865 | 6.5 6.4 | 7.3 5.5 | 145,199 65,938 | 153,506 69,749 | 163,232 73,168 | 5.7 | 0.3 | | |
| Kentucky | 75,612 | 80,435 89,067 | 84,834 93,430 | 4.7 | 3.5 4.9 | 76,061 | 78,903 | 82,179 | 5.8 3.7 | 4.9 | | |
| Louisiana | 85,099 | | 52,283 | 4.7 | 5.8 | 42,827 | 78,903 44,697 | 47,079 | 3.7 4.4 | 9.2 | | |
| Mississippi | 47,150 | 49,437 | 182,036 | 6.8 | 5.0 5.7 | 139,842 | 148,266 | 155,290 | 6.0 | 3.3 | | |
| North Carolina | 161,179 73,435 | 172,154 77,686 | 82,039 | 5.8 | 5.6 | 64,545 | 67,858 | 71.340 | 5.1 | 4.7 | | |
| South Carolina | 115,697 | 121,934 | 128,244 | 5.6 5.4 | 5.2 | 102,991 | 107,789 | 112,656 | 4.7 | 3.1 | | |
| Tennessee | 166,351 | 175,911 | 186,686 | 5.7 | 6.1 | 142,308 | 149,103 | 156,916 | 4.8 | 1 2.3 | | |
| Virginia West Virginia | 32,976 | 33,988 | 35,087 | 3.1 | 3.2 | 29,476 | 30,222 | 31,026 | 2.5 | 4.5 5.2 2.7 | | |
| Southwest | 614,265 | 660,458 | 707,853 | 7.5 | 7.2 | 543,363 | 581,106 | 618,773 | 6.9 | 6.5 | | |
| Arizona | 93,391 | 100,160 | 108,087 | 7.2 | 7.9 | 81,041 | 86,119 | 92,333 | 6.3 | 7.2 | | |
| New Mexico | 31,826 | 33,269 | 34,753 | 4.5 | 4.5 | 28,249 | 29,307 | 30,524 | 3.7 | 4.2 | | |
| Oklahoma | 63,750 | 67,444 | 70,469 | 5.8 | 4.5 | 56,059 | 58,974 | 61,218 | 5.2 | 6.5 7.2 4.2 3.8 6.9 | | |
| Texas | 425,298 | 459,585 | 494,544 | 8.1 | 7.6 | 378,015 | 406,707 | 434,698 | 7.6 | | | |
| Rocky Mountain | 186,887 97,735 | 199,598 105,143 | 213,643 114,449 | 6.8 7.6 | 7.0 8.9 | 160,565 83,250 | 170,034 88.686 | 180,610 95,810 | 5.9 6.5 | 6.2 | | |
| Idaho | 23,418 | 24,651 | 25,901 | 5.3 | 5.1 | 20,420 | 21,347 | 22,275 | 4.5 | 1 4.5 | | |
| Montana | 16,546 | 17,276 | 17.827 | 4.4 | 3.2 | 14,546 | 15.064 | 15,434 | 3.6 | 7.5 | | |
| Utah | 38,856 | 41,681 | 44,297 | 7.3 | 6.3 | 33,433 | 35,657 | 37,627 | 6.7 | 6.2 8.0 4.3 2.5 5.5 2.0 | | |
| Wyoming | 10,333 | 10,847 | 11,169 | 5.0 | 3.0 | 8,915 | 9,281 | 9,463 | 4.1 | | | |
| Far West Alaska | 1,095,386 14,713 | 1,163,164 15,222 | 1,236,770 15,823 | 6.2 3.5 | 6.3 3.9 | 939,159 12,567 | 988,785 12,926 | 1,040,616 13,349 | 5.3 2.9 | 5.2 3.3 5.2 1.7 6.5 | | |
| California | 798,580 | 846,839 | 900,900 | 6.0 | 6.4 | 682,968 | 717,988 | 755.232 | 5.1 | 5.3 | | |
| Hawaii | 29,784 | 30,514 | 31,268 | 2.5 | 2.5 | 25,911 | 26,398 | 26,843 | 1.9 | 1 17 | | |
| * ************************************ | | 44,510 | 47,795 | 7.5 | 7.4 | 35,342 | 37,654 | 40,107 | 6.5 | 65 | | |
| Nevada | | | | | | | | | | | | |
| NevadaOregon | 41,412 73,156 | 77,579 | 81,310 | 6.0 | 4.8 | 62,206 | 65,177 | 67,866 | 4.8 | 4.1 | | |

NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability of source data. In particular, it differs from the NIPA estimate because, by defini-

tion, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Source: Tables 1 and 2 in "State Personal Income, First Quarter 1999" in the August 1999 issue of the SURVEY.

Table J.3.—Per Capita Personal Income and Per Capita Disposable Personal Income for States and Regions

| | | Per capita per | sonal income 1 | | Per capita disposable personal income ¹ | | | | | |
|----------------------|-------------------------|------------------|--------------------|----------------|--|-------------------------|-------------------------|--|--|--|
| Area name | | Dollars | | Rank in U.S. | | Rank in U.S. | | | | |
| | 1996 | 1997 | 1998 | 1998 | 1996 | 1997 | 1998 | 1998 | | |
| United States | 24,164 | 25,288 | 26,482 | | 20,810 | 21,598 | 22,424 | | | |
| New England | 28,872 | 30,427 | 32,007 | | 24,269 | 25,309 | 26,346 | | | |
| Connecticut | 33,979 | 35,863 | 37,700 | i .1 | 28,035 | 29,215 | 30,317 | 1 1 | | |
| Maine | 20,948 | 21,937 | 23,002 | 36 | 18,394 | 19,061 | 19,811 | 35 | | |
| Massachusetts | 29,591 | 31,239 | 32,902 | 3 | 24,623 | 25,740 | 26,824 |] 3 | | |
| New Hampshire | 26,418 | 27,766 | 29,219 | 7 | 23,140 | 24,104 | 25,188 | 5 | | |
| Rhode Island | 24,356 | 25,667 | 26,924 | 15 | 21,274 | 22,225 | 23,145 | 11 | | |
| Vermont | 22,179 | 23,017 | 24,217 | 30 | 19,328 | 19,905 | 20,815 | 28 | | |
| Mideast | 27,978 | 29,252 | 30,652 | | 23,765 | 24,609 | 25,512 | | | |
| Delaware | 27,125 | 28,493 | 29,932 | 6 | 23,100 | 24,076 | 25,077 | 1 6 | | |
| District of Columbia | 34,213 | 35,704 | 37,325 | | 28,950 | 29,914 | 30,776 | | | |
| Maryland | 27,298 | 28,674 | 30,023 | 5 | 23,151 | 24,031 | 24,983 | 1 7 | | |
| New Jersey | 30,892 | 32,356 | 33,953 | 2 | 26,248 | 27,286 | 28,329 |) 2 | | |
| New York | 29.015 | 30,250 | 31,679 | 4 | 24,378 | 25,160 | 26,005 | l 4 | | |
| Pennsylvania | 24,533 | 25,670 | 26,889 | 16 | 21,255 | 22,022 | 22,883 | 15 | | |
| Great Lakes | 24.055 | 25,158 | 26,290 | | 20.578 | 21,335 | 22,119 | | | |
| Illinois | 26,393 | 27,688 | 28,976 | 8 | 22,494 | 23,377 | 24,277 | | | |
| Indiana | 26,393 22,234 | 23,202 | 24,302 | 29 | 19,160 | 19,849 | 20,660 | 1 32 | | |
| Michigan | 23,996 | 24,956 | 25,979 | 18 | 20,507 | 21,126 | 21,832 | 1 % | | |
| Ohio | 23,054 | 24,163 | 25,239 | 21 | 19,821 | 20,618 | 21,329 | 1 59 | | |
| Wisconsin | 22,987 | 24,048 | 25,184 | 22 | 19,521 | 20,235 | 21,029 | 32 20 23 26 | | |
| | | 04.004 | 00 400 | | 40.004 | 00 526 | 04 000 | ł | | |
| Plains | 23,039 22,032 | 24,034 | 25,126 | 32 | 19,861 19,246 | 20,536 20,058 | 21,339 20,689 | 20 | | |
| lowa | | 23,120 | 24,007 | 24 | | | | 30 | | |
| Kansas | 22,707 | 23,972 | 25,049 | | 19,617 | 20,561 | 21,322 | 24 | | |
| Minnesota | 25,235 | 26,243 | 27,667 | 11 | 21,035 | 21,647 | 22,719 | 16 | | |
| Missouri | 22,586 | 23,629 | 24,447 | 28 26 | 19,656 | 20,395 | 20,952 | 27 | | |
| Nebraska | 22,847 | 23,618 | 24,786 | 26 | 19,965 | 20,415 | 21,318 | 25 | | |
| North Dakota | 20,197 20,450 | 20,103 21,076 | 21,708 22,201 | 38 37 | 18,077 18,513 | 17,768 18,952 | 19,162 19,866 | 24 16 27 25 38 34 | | |
| | 04 707 | 00.754 | 00 700 | | 40.040 | 40.744 | 00.400 | | | |
| Southeast | 21,787 | 22,751 | 23,793 21,500 | | 19,049 17,588 | 19,744 | 20,488 18,876 | | | |
| Alabama | 19,838 | 20,672 | | 40 | 17,588 16,682 | 18,234 | | 39 | | |
| Arkansas | 18,808 | 19,595 | 20,393 | 46 19 | | 17,314 | 17,884 22,134 | 40 | | |
| Florida | 23,834 | 24,799 | 25,922 | 1 19 | 20,723 | 21,379 | 22,134 21,359 | 18 | | |
| Georgia | 22,900 | 23,882 | 25,106 | 23 39 42 | 19,798 | 20,495 | | 22 | | |
| Kentucky | 19,475 | 20,570 | 21,551 21,385 | 39 | 16,983 | 17,837 | 18,587 | 42 | | |
| Louisiana | 19,609 | 20,458 | 21,385 18.998 | | 17,526 | 18,123 | 18,810 | 40 | | |
| Mississippi | 17,398 | 18,098 | | 50 | 15,803 | 16,363 | 17,107 | 50 | | |
| North Carolina | 22,053 | 23,168 | 24,122 | 31 | 19,134 | 19,953 | 20,578 | 33 | | |
| South Carolina | 19,651 | 20,508 | 21,387 | 41 | 17,272 | 17,913 | 18,598 | 41 | | |
| Tennessee | 21,800 | 22,699 | 23,615 | 33 | 19,406 | 20,066 | 20,745 | 29 | | |
| Virginia | 24,950 18,116 | 26,109 18,724 | , 27,489 19,373 | 13 49 | 21,344 16,193 | 22,130 16,649 | 23,105 17,131 | 39 46 18 22 42 40 50 33 41 29 | | |
| - | · | , | | | , | · | , | , , | | |
| Southwest | 21,577 | 22,787 | 23,985 | | 19,086 | 20,049 | 20,967 | | | |
| Arizona | 21,071 | 21,998 | 23,152 | 35 | 18,284 | 18,914 | 19,777 | 36 | | |
| New Mexico | 18,634 | 19,298 | 20,008 | 48 | 16,540 | 17,000 | 17,574 | 4/ | | |
| Oklahoma | 19,342 22,345 | 20,305 23,707 | 21,056 25,028 | 45 25 | 17,008 19,861 | 17,755 20,980 | 18,292 21,999 | 36 47 43 19 | | |
| | | | | 2 | | | | " | | |
| Rocky Mountain | 22,304 | 23,414 | 24,668 | 9 | 19,163 | 19,946 | 20,854 | | | |
| Colorado | 25,627 | 27,015 | 28,821 | | 21,829 | 22,787 | 24,128 | . 9 | | |
| Idaho | 19,741 | 20,392 | 21,080 | 44 | 17,214 | 17,658 | 18,129 | 44 | | |
| Montana | 18,872 | 19,660 | 20,247 | 47 | 16,591 | 17,143 | 17,530 | 48 | | |
| Utah | 19,214 21,524 | 20,185 22,596 | 21,096 23,225 | 43 34 | 16,533 18,570 | 17,267 19,333 | 17,920 19,678 | 44 48 45 37 | | |
| | | , | · · | " | · | · | | " | | |
| Far West | 24,969 | 26,127 | 27,367 | | 21,408 | 22,210 | 23,027 | 21 | | |
| Alaska | 24,310 | 24,969 | 25,771 | 20 | 20,765 | 21,203 | 21,741 | 2] | | |
| California | 25,142 | 26,314 | 27,579 | 12 | 21,503 | 22,310 | 23,119 | 12 | | |
| Hawaii | 25,086 25,877 | 25,598 | 26,210 | 17 | 21,824 22.084 | 22,145 | 22,500 22,959 | 17 14 | | |
| Nevada | 25,877 22,894 | 26,514 23,920 | 27,360 | 14 27 | | 22,431 | | 14 31 | | |
| Oregon | 22,094 | | 24,775 | 10 | 19,467 | 20,096 | 20,678 | 10 | | |
| -Washington | 24,958 | 26,451 | 28,066 | 10 | 21,774 | 22,914 | 24,119 | 10 | | |

1. Per capita personal income and per capita disposable personal income were computed using midyear population estimates from the Bureau of the Census. NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates, it differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing

of the availability of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Source: Tables 1 and 2 in "State Personal Income, First Quarter 1999" in the August 1999 issue of the SURVEY.

SURVEY OF CURRENT BUSINESS

Table J.4.—Gross State Product for States and Regions by Industry, 1997 [Millions of dollars]

| | | | , | | | | | | | | | |
|--|---|---|---|---|---|--|---|--|--|--|--|--|
| State and region | Rank of total gross state product | Total gross state product | Agri- culture, forestry, and fishing | Mining | Construc- tion | Manufac- turing | Transpor- tation and public utilities | Wholesale trade | Retail trade | Finance, insurance, and real estate | Services | Govern- ment |
| United States | | 8,103,234 | 131,745 | 120,515 | 328,806 | 1,378,869 | 676,313 | 562,755 | 712,890 | 1,570,308 | 1,656,849 | 964,184 |
| New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont | 21 42 11 39 44 50 | 466,857 134,565 30,156 221,009 38,106 27,806 15,214 | 3,445 899 460 1,284 263 210 329 | 310 36 19 156 45 15 | 15,771 4,351 1,356 7,161 1,282 959 663 | 76,656 22,510 5,153 32,394 9,521 4,347 2,731 | 29,998 8,011 2,250 13,924 2,671 1,911 1,231 | 32,219 9,373 1,848 16,133 2,410 1,537 918 | 38,059 9,862 3,459 17,510 3,348 2,385 1,494 | 116,542 38,988 5,779 53,708 8,377 6,941 2,749 | 109,730 29,184 5,800 58,449 7,004 6,092 3,202 | 44,128 11,350 4,033 20,291 3,186 3,410 1,858 |
| Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania | 41 16 8 2 6 | 1,523,401 31,585 52,372 153,797 294,055 651,652 339,940 | 8,905 273 16 1,304 1,502 2,689 3,121 | 2,737 5 13 116 186 480 1,935 | 51,564 1,038 481 7,835 10,414 18,505 13,291 | 204,283 6,108 1,308 13,230 41,062 74,446 68,129 | 122,778 1,545 2,710 11,450 28,256 49,335 29,476 | 99,738 1,192 588 9,716 27,283 40,277 20,683 | 112,108 1,842 1,314 13,254 21,293 44,440 29,965 | 392,621 12,348 9,531 34,137 68,841 203,219 64,544 | 344,626 4,482 16,969 36,268 64,380 148,253 74,274 | 184,041 2,753 19,441 26,479 30,838 70,007 34,523 |
| Great Lakes Illinois Indiana Michigan Ohio Wisconsin | 4 15 9 7 19 | 1,295,671 393,532 161,701 272,607 320,506 147,325 | 17,478 5,110 2,883 2,698 3,947 2,840 | 4,860 1,268 846 1,246 1,210 290 | 54,174 16,385 7,845 11,052 12,515 6,378 | 316,788 71,671 50,155 70,234 83,850 40,878 | 100,547 35,807 12,369 18,230 23,955 10,186 | 94,731 30,972 10,036 20,831 23,338 9,553 | 115,023 31,881 14,807 25,735 29,669 12,930 | 217,559 79,466 21,351 41,850 50,967 23,924 | 242,173 82,375 25,676 51,635 57,798 24,690 | 132,337 38,597 15,732 29,095 33,256 15,657 |
| Plains | 29 31 18 17 36 49 46 | 538,494 80,479 71,737 149,394 152,100 48,812 15,786 20,186 | 21,360 5,612 2,933 3,631 2,855 3,506 1,072 1,751 | 3,164 193 1,021 679 453 125 451 | 23,831 3,287 3,040 6,693 7,146 2,088 784 793 | 102,629 19,617 12,784 28,271 31,195 6,681 1,389 2,692 | 49,367 6,177 7,608 11,485 15,521 5,394 1,629 1,554 | 42,281 5,701 5,822 12,568 11,564 3,839 1,463 1,324 | 48,237 6,579 7,039 13,004 14,033 4,148 1,523 1,911 | 85,150 11,889 9,432 27,515 22,615 7,429 2,128 4,141 | 99,193 12,327 12,298 29,839 29,825 8,663 2,908 3,332 | 63,280 9,096 9,759 15,710 16,892 6,939 2,438 2,447 |
| Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia | 25 32 5 10 26 23 33 12 28 20 13 | 1,763,114 103,109 58,479 380,607 229,473 100,076 124,350 58,314 218,888 93,259 146,999 211,331 38,228 | 31,716 2,145 2,775 6,691 4,066 2,723 1,292 1,659 5,118 1,280 1,745 1,961 | 32,479 1,600 606 1,027 1,002 2,659 19,797 540 298 215 480 1,102 3,154 | 76,652 4,304 2,333 17,876 8,910 4,101 5,395 2,355 9,643 4,500 6,012 9,439 1,785 | 315,895 22,115 14,006 29,108 40,035 27,360 19,566 13,198 57,971 23,289 31,281 31,282 6,684 | 157,072 9,172 6,129 33,388 25,274 8,087 11,037 5,865 16,578 7,057 11,759 18,056 4,672 | 121,470 6,687 3,689 28,533 20,947 6,014 7,078 3,383 14,328 5,619 11,299 11,839 2,053 | 171,379 10,535 6,170 42,487 20,587 9,033 10,232 5,985 19,427 9,955 16,267 17,278 3,423 | 286,834 13,657 6,929 83,763 37,774 11,646 16,068 6,898 33,045 12,894 21,233 38,537 4,391 | 333,401 17,155 8,862 91,196 42,441 15,217 20,127 9,725 34,351 14,626 29,856 43,411 6,434 | 236,216 15,738 6,980 46,538 28,439 13,239 13,758 8,705 28,130 13,824 17,067 38,426 5,371 |
| Southwest Arizona | 24 37 30 30 | 844,766 121,239 45,242 76,642 601,643 | 13,481 1,934 897 2,085 8,565 | 52,354 1,300 3,271 4,087 43,695 | 37,222 6,937 2,046 2,377 25,861 | 133,678 17,815 7,887 13,015 94,961 | 84,895 9,047 3,280 7,523 65,044 | 60,142 8,095 1,981 4,697 45,369 | 76,363 12,574 4,137 7,664 51,987 | 126,830 23,531 6,207 9,587 87,505 | 157,507 24,974 7,791 13,514 111,227 | 102,294 15,031 7,745 12,090 67,428 |
| Rocky Mountain Colorado | 22 43 47 35 48 | 247,372 126,084 29,149 19,160 55,417 17,561 | 5,924 2,147 1,730 1,019 612 416 | 11,026 2,708 273 880 1,654 5,512 | 13,354 6,910 1,669 965 3,132 679 | 31,372 14,480 5,809 1,486 8,601 996 | 25,517 13,762 2,492 2,241 4,709 2,312 | 15,282 8,223 1,838 1,241 3,383 595 | 24,137 12,229 2,961 1,956 5,791 1,201 | 39,172 21,885 3,644 2,593 9,119 1,930 | 48,933 27,850 4,860 3,773 10,735 1,715 | 32,656 15,891 3,873 3,005 7,682 2,205 |
| Far West Alaska California Hawaii Nevada Oregon Washington | 45 1 40 34 | 1,423,561 24,494 1,033,016 38,024 57,407 98,367 172,253 | 29,436 314 21,633 463 427 2,473 4,127 | 13,585 5,169 6,381 26 1,568 124 317 | 56,236 1,007 34,883 1,640 4,978 5,173 8,555 | 197,569 1,134 146,173 1,213 2,608 24,666 21,776 | 106,140 3,822 72,301 3,904 4,333 6,943 14,837 | 96,892 713 71,177 1,493 2,809 7,727 12,974 | 127,584 1,673 91,300 4,332 5,553 8,175 16,550 | 305,601 2,795 237,282 8,503 10,773 14,903 31,344 | 321,285 3,029 236,925 8,413 18,670 17,030 37,219 | 169,233 4,838 114,962 8,036 5,688 11,154 24,554 |

NOTE.—Totals shown for the United States differ from the national income and product account estimates of gross domestic product (GDP) because GSP is derived from gross domestic income, which differs from GDP by the statistical discrepancy. In addition, GSP excludes and GDP includes the compensation of Federal civilian and military personnel stationed abroad and government consumption of fixed capital for military structures located abroad and for military equipment except domestically located office equipment. GSP and GDP also have different revision

schedules.
Source: Tables 6 and 7 in "Gross State Product by Industry, 1995–97" in the June 1999 issue of the SURVEY OF CURRENT BUSINESS.

K. Local Area Table_____

Table K.1.—Personal Income and Per Capita Personal Income by Metropolitan Area, 1995–97

| · · · · · · · · · · · · · · · · · · · | | | l income | | Per capita personal income ¹ | | | | ersonal income by metrop | | Per capita personal income ¹ | | | | | | |
|--|--|---|--|--|--|--|--|---|---|--|---|---|---------------------------------------|--|--|--|--------------------------------------|
| Area name | Mill | lions of dol | lars | Percent change | | Dollars | : | Rank in U.S. | Area name | Mill | ions of doll | ars | Percent change | | Dollars | | Rank in U.S. |
| | 1995 | 1996 | 1997 | 1996-97 | 1995 | 1996 | 1997 | 1997 | | 1995 | 1996 | 1997 | 1996-97 | 1995 | 1996 | 1997 | 1997 |
| United States 2 Metropolitan portion Nonmetropolitan portion | 6,059,091 5,137,433 921,658 | | 5,747,454 | 5.7 5.8 4.7 | 23,059 24,470 17,449 | 24,164 25,623 18,359 | 25,288 26,840 19,089 | | Colorado Springs, CO | 9,748 2,618 | 10,514 2,779 | 11,270 2,915 | 7.2 4.9 | 20,978 21,232 | 22,263 22,106 | 22,797 | 152 |
| Consolidated Metropolitan Statistical Areas | | | | | | i | | | Columbia, SC | 10,429 5,021 33,904 | 11,121 5,331 35,336 | 11,820 5,700 37,471 | 6.3 6.9 6.0 | 21,259 18,468 23,706 | 10 624 | 20 020 | 222 |
| Chicago-Gary-Kenosha, IL-IN-WI Cincinnati-Hamilton, OH-KY-IN Cleveland-Koro, OH Dallas-Fort Worth, TX Denver-Boulder-Greeley, CO Detroit-Ann Arbor-Flint, MI Houston-Galveston-Brazonia, TX Los Angeles-Riverside-Orange Coun- | 235,526 44,660 71,327 113,904 60,179 139,276 105,523 | 47,149 74,337 123,121 64,674 143,074 112,366 | 262,357 50,006 77,920 134,293 69,800 149,232 121,775 | 8.4 | 27,296 23,427 24,499 25,612 27,024 25,889 25,408 | 27,023 28,483 26,374 26,566 | 25,855 26,733 28,709 30,099 27,419 28,225 | | Columbus, OH Corpus Christi, TX Cumberland, MD-WV Dallas, TX* Danville, VA Daverport-Moline-Rock Island, IA-IL Dayton-Springfield, OH Daytona Beach, FL Decatur, AL | 6,830 1,715 80,161 1,928 7,632 21,960 8,300 2,764 | 7,235 1,788 86,962 1,987 8,056 22,576 8,864 | 7,639 1,874 95,191 2,082 8,541 23,685 9,341 | 9.5 4.8 6.0 4.9 | 27,081 17,609 21,359 22,918 18,492 | 22,561 23,607 19,489 | 30,481 19,126 23,906 24,877 20,187 | 269 291 22 288 123 96 |
| ty, CA Miami-Fort Lauderdale, FL Milwaukee-Racine, WI | 355,870 78,661 41,484 | 373,755 83,186 43,512 | 393,604 86,917 45,898 | 5.3 4.5 5.5 | 23,321 22,619 25,230 | 24,318 23,459 26,433 | 25,313 24,131 27,899 | | Decatur, IL | 2,512 50,303 | 2,874 2,665 54,103 | 3,003 2,753 58,471 | 4.5 3.3 8.1 | 19,814 21,629 27,553 | 23,126 29,055 | 24,107 30,743 | 117 |
| New York-No. New Jersey-Long Island, NY-NJ-CT-PA Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD | 619,350 158,253 | 654,862 166,947 | 688,267 175,008 | 5.1 | · | | 34,560 | | Des Moines, IA Detroit, MI Dothan, AL Dover, DE Dubuque, IA Dubuque, IA Duluth-Superior, MN-WI | 10,522 115,080 2,492 2,308 | 11,167 118,194 2,559 2,507 | 11,830 123,417 2,668 2,550 2,016 | 5.9 4.4 4.3 | 24,883 26,009 | 26,102 26,506 19,073 20,611 21,849 20,839 | 27,403 27,619 | 45 44 267 |
| Portland-Salem, OR-WA Sacramento-Yolo, CA San Francisco-Oakland-San Jose, CA Seattle-Tacoma-Bremerton, WA Washington-Baltimore, DC-MD-VA- | 47,988 37,445 200,245 86,045 | 52,031 39,292 215,695 92,306 | 55,815 41,621 232,660 100,810 | 4.8 7.3 5.9 7.9 9.2 | 23,697 23,326 30,562 26,363 | 25,100 24,099 32,571 | 26,396 25,138 34,634 29,839 | | Dutchess County, NY* | 1,832 4,708 6,404 2,720 | 1,931 4,950 6,776 2,878 | 5,167 7,144 3,035 | 5.4 | 24,522 19,132 | 25,805 20,155 | 27,085 21,154 | 54 219 |
| WV | 202,626 | 213,221 | 225,524 | 5.8 | 28,601 | 29,838 | 31,265 | | El Paso, TX | 9,431 3,781 1,825 | 9,895 3,873 1,906 | 10,504 3,998 1,968 | 5.5 6.2 3.2 3.3 | 14,037 22,718 19,423 | 00,400 | 23,423 | 135 |
| Abiene, TX Akron, OH* Albany, GA Albany-Schenectady-Troy, NY Albuqueque, NM | 2,300 15,555 2,163 20,787 | 2,424 16,229 2,296 21,444 | 2,566 17,079 2,381 22,217 | 5.9 5.2 3.7 3.6 | 18,800 22,856 18,586 23,606 21,324 18,861 | 20,014 23,700 19,617 24,429 | 21,202 24,849 20,207 25,425 | 216 99 255 83 | Enid, OK Erie, PA Eugene-Springfield, OR Evansville-Henderson, IN-KY Fargo-Moorhead, ND-MN | 1,091 5,670 6,117 6,290 3,315 | 1,143 5,925 6,544 6,643 3,608 | 1,222 6,140 6,920 6,942 3,746 | 6.9 3.6 5.7 4.5 3.8 | 19,088 20,326 20,201 21,906 20,264 | 20,459 20,092 21,285 21,358 23,051 21,876 | 21,474 22,120 22,231 24,010 22,466 | 205 179 173 121 166 |
| Alexandria, LA Alexandria, LA Allentown-Bethlehem-Easton, PA Altoona, PA Amarillo, TX Anchorage, AK | 14,064 2,389 14,328 2,453 4,171 6,989 | 14,759 2,456 15,045 2,578 4,343 7,162 | 15,466 2,532 15,835 2,677 4,576 7,475 | 4.8 3.1 5.3 3.8 5.4 4.4 | 23,438 18,597 20,457 27,845 | 24,551 19,644 21,112 28,690 | 25,762 20,482 22,051 29,765 | | Fayetteville, NC Fayetteville-Springdale-Rogers, AR Flagstaff, AZ-UT Flint, MI* Florence, AL Florence, SC | 5,209 5,053 1,939 9,827 2,544 2,280 | 5,461 5,413 2,076 9,891 2,636 2,426 | 5,742 5,799 2,178 9,875 2,715 2,566 | 5.1 7.1 4.9 2 3.0 5.8 | 16,663 22,647 18,729 | 19,240 20,704 17,585 22,720 19,295 19,697 | 21,655 18,184 22,685 19,800 | 198 298 158 |
| Ann Arbor, MI* Anniston, AL Appleton-Oshkosh-Neenah, WI Asheville, NC Athens, GA | 14,369 2,024 7,601 4,363 2,588 | 14,989 2,110 8,047 4,604 2,788 | 15,941 2,210 8,530 4,898 2,936 | 6.4 4.7 6.0 6.4 5.3 7.7 | 27,573 17,350 22,655 21,083 19,232 | 28,266 18,098 23,718 21,971 20,428 | 29,579 18,855 24,957 23,158 21,256 | 29 292 91 140 214 36 33 | Fort Collins-Loveland, CO Fort Lauderdale, FL* Fort Myers-Cape Coral, FL Fort Pierce-Port St. Lucie, FL | 4,810 36,123 8,749 6,681 | 5,259 38,534 9,303 7,211 | 5,613 40,743 9,863 7,607 | 6.7 5.7 6.0 5.5 | 22,174 25,561 23,372 23,804 | 23,750 26,752 24,510 25,209 | 24,852 27,661 25,568 26,135 | 98 43 78 68 |
| Atlanta, GA Atlantic-Cape May, NJ* Augusta-Aiken, GA-SC Austin-San Marcos, TX Bakersfield, CA | 2,588 87,823 8,999 8,763 22,572 10,544 | 95,356 9,431 9,086 24,580 11,004 | 102,678 9,722 9,476 27,194 11,449 | 3.1 4.3 10.6 4.0 | 22,655 21,083 19,232 25,603 27,188 19,398 22,524 17,201 | 26,993 28,339 20,106 23,665 17,801 | 28,253 29,083 20,821 25,420 18,319 | 33 236 84 297 | Fort Smith, AR-OK Fort Walton Beach, FL Fort Wayne, IN Fort Worth-Arlington, TX* Fresno, CA | 3,403 3,176 10,859 33,743 15,106 | 3,563 3,511 11,288 36,159 15,850 1,884 | 3,772 3,736 11,886 39,102 16,367 1,984 | 5.9 6.4 5.3 8.1 3.3 | 23,072 22,689 17,959 | 18,648 21,200 23,805 23,798 18,573 18,341 | 22,274 24,891 25,150 18,958 | 171 94 88 |
| Baltimore, MD* Bangor, ME (NECMA) Barnstable-Yarmouth, MA (NECMA) Baton Rouge, LA Beaumont-Port Arthur, TX | 61,948 2,683 5,415 11,776 7,276 2,920 | 65,177 2,794 5,815 12,331 7,505 3,151 | 68,758 2,927 6,190 12,786 8,034 3,309 | 5.5 4.8 6.4 3.7 7.0 5.0 | 25,157 18,582 27,199 20,956 19,413 19,589 20,839 33,425 | 26,399 19,418 28,758 21,786 20,062 | 27,770 20,425 30,199 22,408 21,453 | 41 248 25 168 207 208 | Gadsden, AL Gainesville, FL Galveston-Texas City, TX* Gary, IN* Glens Falls, NY | 1,814 3,876 5,014 13,236 2,317 | 4,095 5,269 13,943 2,410 | 4,313 5,514 14,689 2,484 | 5.3 5.3 4.6 5.4 3.1 | 19,871 19,871 21,164 21,363 18,961 | 20,844 21,986 22,460 | 21,822 22,737 23,593 20,386 | 189 155 128 |
| Bedingham, WA Benton Harbor, MI Benton Harbor, MI Bengen-Passaic, NJ* Billings, MT Billoxi-Gulfport-Pascagouta, MS | 3,366 44,162 2,634 6,006 | 3,451 46,207 2,729 6,266 | 3,647 49,111 2,851 6,614 | 5.6 | 17,594 | 18,350 | 19,211 | 286 | Goldsboro, NC Grand Forks, ND-MN Grand Junction, CO Grand Rapids-Muskegon-Holland, MI Great Falls, MT Greeter, CO* | 1,866 1,854 1,998 22,907 1,602 2,715 | 1,971 1,985 2,125 24,185 1,659 2,930 | 2,085 1,991 2,276 25,653 1,710 3,117 | 5.8 .3 7.1 6.1 3.1 6.4 | 18,853 22,857 19,824 | | 21,630 | 199 |
| Binghamton, NY Birmingham, AL Bismarck, ND Biomington, IN Bioomington-Normal, IL Bioomington-Normal, IL | 5,208 20,268 1,789 2,135 3,181 8,423 | 5,357 21,363 1,906 2,269 3,373 8,906 | 5,542 22,445 1,972 2,369 3,545 9,430 | 3.5 5.1 3.5 4.4 5.1 5.9 | 20,251 22,640 20,103 18,544 22,944 23,349 | 23,858 21,151 19,587 | 24,898 21,711 20,316 | 192 251 | Greeley, CO* Green Bay, W Green Bay, W Greensboro-Winston-Salem-High Point, NC Greenville, NC Greenville, Soartanburg-Anderson, SC | 26,142 26,142 2,312 17,912 | 27,734 2,449 18,870 | 5,476 29,344 2,620 19,921 | 5.1 5.8 7.0 | 23,400 23,277 19,268 | 24,512 24,348 20,103 21,081 | 25,559 25,441 21,117 | 79 82 220 |
| Boise Cffy, ID Boston-Worcester-Lawrence-Lowell- Brockton, MA-NH (NECMA) Boulder-Longmont, CO* Brazoria, Tx* Bremerton, WA* | 164,632 7,160 4,200 4,517 | 174,335 7,641 4,510 4,756 | 185,340 8,212 4,787 5,053 | | 28,612 28,269 19,492 20,006 | 30,124 29,702 20,508 | 31,808 31,393 21,285 | 15 17 211 201 | Hagerstown, MD* Hamilton-Middletown, OH* Harrisburg-Lebanon-Carlisle, PA Harristord, CT (NECMA) | 2,396 6,809 14,369 32,012 | 2,537 7,176 15,247 33,500 | 2,661 7,624 15,923 35,453 | 4.9 6.2 | 18,890 21,305 | 19,953 22,181 | 20,800 | 238 137 |
| Brownsville-Harlingen-San Benito, TX Bryan-College Station, TX Buffalo-Niagara Falls, NY Burlington, VT (NECMA) | 3,641 2,065 26,422 4,298 | 3,850 2,190 27,200 4,554 8,727 1,616 | 4,095 2,384 28,031 4,758 9,086 1,710 | 6.4 | 11,967 | 12,357 | 12,857 | 315 | Hattlesburg, MS Hickory-Morganton-Lenoir, NC Honolulu, HI Houma, LA Houston, TX* Huntington-Ashland, WV-KY-OH | 1,749 6,230 23,078 3,085 96,308 5,462 | 1,852 6,547 23,296 3,315 102,587 5,644 | 1,960 6,898 23,836 3,663 111,475 5,876 | 10.5 8.7 4.1 | 16,414 26,024 17,272 | 24,650 30,268 17,164 20,839 26,681 17,510 27,211 17,870 | 19,146 28,977 18,652 | 287 34 294 |
| Casper, WY Ceder Rapids, IA Champaign-Urbana, IL Charleston-North Charleston, SC Charleston, WV | 8,433 1,562 4,294 3,361 9,397 5,597 | 4,541 3,554 9,855 5,844 | 4,830 3,703 10,472 6,046 | 6.4 4.2 6.3 3.5 | 15,749 22,382 22,911 20,968 24,487 23,979 20,118 17,857 22,011 | 25,251 21,144 18,851 22,992 | 26,641 21,962 19,601 23,850 | 58 186 279 124 | Huntsville, AL Indianapolis, IN Iowa City, IA Jackson, MI | 7,118 36,252 2,251 3,030 8,533 | 7,407 37,939 2,385 3,119 8,973 | 7,824 40,111 2,510 3,271 9,456 | 5.6 5.7 5.2 4.9 5.4 | 21,706 24,602 22,258 19,754 20,544 | 22,413 25,475 23,523 20,197 21,288 20,862 23,614 | 23,459 26,662 24,628 21,057 | 133 57 105 222 174 |
| Charlotte-Gastonia-Rock Hill, NC-SC Charlottesville, VA Chattanooga, TN-GA Cheyenne, WY Chicago, IL* | 30,999 3,546 9,409 1,662 217,348 | 33,285 3,755 9,902 1,726 229,112 | 35,792 3,958 10,387 1,793 242,155 | 7.5 5.4 4.9 3.9 | 24,083 24,930 21,279 21,224 | 25,237 25,996 22,268 21,925 | 26,480 27,029 23,195 22,815 | 62 55 138 150 21 | Jackson, MI Jackson, MS Jackson, TN Jackson, TN Jacksonville, FL Jacksonville, NC Jamestown, NY Janesville-Beloit, WI | 8,533 1,946 22,147 2,153 2,538 3,228 | 2,051 23,821 2,261 2,616 3,301 | 2,186 25,465 2,421 2,689 3,444 | | | 20,862 23,614 15,817 18,579 22,024 | | |
| Chicago, It. Chico-Paradise, CA Chico-Paradise, CA Cincinnati, OH-KY-IN* Clarksville-Hopkinsville, TN-KY Cleveland-Lorain-Elyria, OH* | 3,426 37,850 3,069 55,772 | 3,614 39,973 3,245 58,108 | 3,809 42,382 3,410 60,841 | 5.4 6.0 5.1 4.7 | 17,795 23,855 16,351 24,999 | 18,813 25,059 16,715 26,046 | 19,715 26,373 17,248 27,314 | 274 63 306 49 | Jersey City, NJ* | 12,824 8,412 4,321 | 13,369 8,851 4,500 | 13,831 9,152 4,645 | 3.5 3.4 | 23,282 18,559 | 24,233 19,378 18,819 | 24,943 19,896 | 92 266 |

See footnotes at the end of the table.

Table K.1.—Personal Income and Per Capita Personal Income by Metropolitan Area, 1995-97—Continued

| | ible K.I | Personal | | IICOIIIC | Per capita personal income ! | | | | al income by Metropolitan | Alea, | iniueu | Per capita personal income 1 | | | | | |
|--|--|--|---|---|--|--|--|---|---|---|---|---|--|--|--|--|--|
| Area name | Mitti | ons of doll | ars | Percent change | - | Dollars | | Rank in U.S. | Area name | Mili | ons of dolla | ars | Percent change | | Dollars | | Rank in U.S. |
| | 1995 | 1996 | 1997 | 1996–97 | 1995 | 1996 | 1997 | 1997 | : | 1995 | 1996 | 1997 | 1996-97 | 1995 | 1996 | 1997 | 1997 |
| Jonesboro, AR Joplin, MO Kalamazoo-Battle Creek, MI Kankakee, IL* Kansas City, MO-KS Kenosha, WI* Killeen-Temple, TX Knoxville, TN Kokomo, IN La Crosse, WI-MN | 1,328 2,717 9,639 2,007 40,847 2,936 4,819 13,738 2,370 | 1,404 2,872 10,057 2,124 43,133 3,073 5,074 14,260 2,336 | 1,487 3,065 10,438 2,211 45,714 3,302 5,348 14,888 2,412 2,770 | 5.9 6.7 3.8 4.1 6.0 7.5 5.4 4.4 3.3 | 17,867 18,924 21,820 19,828 24,233 21,082 16,563 21,482 23,780 | 18,581 19,724 22,693 20,925 25,450 21,743 17,059 22,004 23,287 | 19,456 20,817 23,481 21,677 26,627 23,124 17,861 22,745 24,061 | 283 237 132 194 59 142 303 | Raleigh-Durham-Chapel Hill, NC Rapid City, SD Reading, PA Reeding, CA Reno, NV Richland-Kennewick-Pasco, WA Richmord-Petersburg, VA Riverside-San Bernardino, CA* Roanoke, VA Rochester, MN | 24,621 1,720 8,339 3,095 8,064 3,681 23,575 54,153 5,476 2,752 | 26,671 1,770 8,761 3,202 8,747 3,780 24,857 56,769 5,730 2,945 | 29,107 1,852 9,220 3,341 9,262 3,876 26,312 59,748 5,977 3,119 | 9.1 4.6.2.3 5.2.5 5.2.5 5.5.9 2.5.9 4.5.9 | 24,798 19,760 23,813 19,283 27,761 20,650 25,429 18,335 24,003 24,466 | 24,893 19,843 29,284 21,120 26,553 18,949 | 30,214 21,417 27,797 19,604 | 69 244 24 209 40 278 |
| Lafayette, LA Lafayette, IN Lake Charles, LA Lakeland-Winter Haven, FL Lancaster, PA Lansing-East Lansing, MI Laredo, TX | 2,509 6,424 3,291 3,359 8,133 10,107 9,541 1,993 2,254 26,458 | 2,643 6,911 3,393 3,547 8,643 10,726 9,835 2,158 2,370 29,423 | 7,453 3,582 3,747 9,207 11,207 10,208 2,357 2,482 31,876 | 4.7 8.3 | 21,482 23,780 20,812 17,627 19,386 19,109 22,609 21,026 11,696 14,194 23,245 | 14.564 | 22,815 20,031 20,880 20,901 20,625 24,694 22,691 12,999 14,923 25,250 | 150 261 235 234 241 102 156 314 313 | Rochester, NY Rockford, IL Rocky Mount, NC Sacramento, CA* Saginaw-Bay City-Midland, MI St. Cloud, MN St. Joseph, MO St. Louis, MO-IL Salem, OR* Salem, OR* | 26,383 7,839 2,618 34,184 8,840 2,888 1,855 63,014 6,055 | 27,410 8,165 2,809 35,895 9,103 3,081 1,947 65,847 6,471 | 28,374 8,528 2,937 38,101 9,485 3,164 2,035 69,547 6,796 | 3.5 4.4 4.6 6.1 4.2 2.7 4.5 5.6 | | 25,247 23,128 19,554 24,236 22,604 | 26,170 24,024 20,214 25,335 23,570 | 67 120 254 85 129 277 |
| Las Cruces, NM | 1,603 1,882 1,979 9,650 3,069 5,058 11,717 3,852 | 1,695 1,932 2,067 10,275 3,129 5,429 12,446 4,105 | 1,820 1,993 2,120 11,033 3,248 5,752 13,089 4,374 | 3.2 2.6 7.4 3.8 5.9 5.2 6.6 | 16,323 19,292 22,237 19,744 22,081 21,629 18,941 | 16,801 20,329 23,374 20,142 23,482 22,726 19,939 | 17,487 20,939 24,838 20,997 24,602 23,707 21,025 | 304 230 100 227 106 125 224 | Salt Lake City-Ogden, UT San Angelo, TX San Antonio, TX San Diego, CA San Francisco, CA* San Jose, CA San Jose, CA San List Obispo-Atascadero-Paso | 8,357 24,016 1,930 29,796 60,432 60,217 50,602 | 8,631 25,953 2,027 31,526 63,908 64,159 55,607 | 9,227 27,849 2,146 33,716 67,998 68,671 61,345 | 6.9 7.3 5.9 6.9 6.4 7.0 10.3 | 19,802 19,053 20,474 22,882 36,668 32,289 | 21,121 | 22,264 20,968 22,379 24,965 41,128 37,856 | 172 228 169 89 1 |
| Los Angeles-Long Beach, CA* Louisville, KY-IN Lubbock, TX Lynchburg, VA Macon, GA Madison, WI Mansfield, OH McAllen-Edinburg-Mission, TX Medford-Ashland, OR Melbourne-Titusville-Palm Bay, FL | 213,656 22,950 4,571 4,087 6,183 10,339 3,328 5,265 3,325 9,265 | 24,043 4,853 4,261 6,583 10,958 3,456 5,660 3,553 9,765 | 234,469 25,353 5,082 4,465 6,884 11,550 3,619 6,058 3,744 10,342 | 7.0 5.4 | 23,662 23,317 19,757 20,037 20,039 25,254 18,993 11,044 20,109 20,609 | 19,719 11.548 | 21,543 21,770 27,361 20,673 12,005 | 202 190 47 240 316 | Robles, CA' Santa Barbara-Santa Maria-Lompoc, CA Santa Cruz-Watsonville, CA' Santa Fe, NM Santa Rosa, CA' Sarasota-Bradenton, FL Savannah, GA Scranton-Wilkes-Barre-Hazleton, PA | 4,575 9,685 6,117 3,351 10,632 15,134 5,884 12,754 | 4,897 10,197 6,535 3,495 11,447 16,109 6,280 13,309 | 5,223 10,760 7,010 3,680 12,439 17,020 6,544 13,770 | 4.2 3.5 | 25,401 26,059 24,765 25,636 28,918 21,109 20,199 | 26,675 27,733 25,507 27,295 30,460 22,363 21,228 | 27,839 29,406 26,319 29,188 31,792 23,054 22,177 | 39 30 64 32 16 143 176 |
| Memphis, TN-AR-MS Merced, CA Miami, FL* Middlesex-Somerset-Hunterdon, NJ* Milwaukee-Waukesha, WI* Minneapolis-St. Paul, MN-WI Missoula, MT Mobile, AL Modesto, CA Monmouth-Ocean, NJ* | 9,498 | 26,569 3,269 44,653 37,105 39,023 79,350 1,831 10,064 7,762 | 28,043 3,394 46,174 39,514 41,131 84,193 1,910 10,604 8,238 | 5.5 3.8 3.4 6.5 5.4 6.1 4.3 5.4 6.1 | 23,746 15,546 20,605 32,461 25,492 27,315 19,850 18,415 17,879 | 24,725 17,113 21,207 34,027 26,695 28,739 20,735 19,327 18,768 | 21,688 35,734 28,176 30,123 21,496 20,119 | 193 8 37 26 204 257 | Seattle-Bellevue-Everett, WA* Sharon, PA Sheboygan, WI Sherman-Denison, TX Shrevepor-Bossier City, LA Sioux City, IA-NE Sioux Falls, SD South Bend, IN Spokane, WA | 63,953 2,227 2,437 1,869 7,554 2,456 3,669 5,697 8,219 | 68,967 2,342 2,539 2,017 7,782 2,646 3,955 5,841 8,604 | 76,064 2,435 2,637 2,135 8,064 2,730 4,203 6,074 9,037 | 10.3 4.0 3.9 5.9 3.6 3.2 6.3 4.0 5.0 | 18,256 22,456 19,069 19,953 20,436 23,417 22,214 | 30,916 19,162 23,215 20,144 20,532 21,905 24,797 22,693 21,300 | 19,950 24,009 21,006 21,259 22,633 26,030 23,537 | 265 122 226 213 160 70 130 |
| Monroe, LA Montgomery, AL Muncie, IN Myrtie Beach, SC Naples, FL Nashville, TN Nassau-Suffolk, NY | 7,310 29,420 2,706 6,549 2,389 3,056 5,934 27,528 84,441 | 7,762 31,048 2,856 6,872 2,438 3,326 6,503 28,986 89,022 | 8,238 32,680 2,899 7,185 2,527 3,591 6,969 31,057 92,861 | 1.5 4.6 3.7 8.0 | 28,000 18,474 20,867 20,131 | 29,148 19,466 21,716 20,635 20,301 | 30,275 19,723 22,498 21,504 21,185 | 271 165 203 218 7 | Springfield, IL. Springfield, MO Springfield, MA (NECMA) State College, PA Steuberville-Weirton, OH-WV Stocktor-Lodi, CA Sumter, SC | 4,536 6,019 13,307 2,499 2,492 9,764 1,624 | 4,814 6,328 13,812 2,651 2,561 10,252 1,719 | 5,031 6,686 14,496 2,793 2,564 10,854 1,800 | 5.5 5.7 5.0 5.4 .1 5.9 4.7 | 20,481 22,461 19,185 17,887 18,646 15,225 | 19,286 16,070 | 22,206 24,576 21,028 18,794 20,092 16,883 | 175 107 223 293 259 309 |
| New Haven-Bridgeport-Stamford-Dan- bury-Waterbury, CT' New London-Norwich, CT (NECMA) New Orleans, LA New York, NY' Newark, NJ' Newburgh, NY-PA' Norfolk-Virginia Beach-Newport News, | 58,754 6,552 27,906 268,292 61,710 7,682 | 62,869 6,840 28,837 284,422 64,847 8,028 | 66,562 7,084 30,281 298,085 68,094 8,314 | 5.9 3.6 5.0 4.8 5.0 3.6 | 36,233 26,270 21,293 31,189 31,906 21,446 | 32,991 33,455 22,198 | 34,459 35,038 22,753 | 11 9 153 | Syracuse, NY Tacoma, WA' Talahassee, FL Tampa-St. Petersburg-Clearwater, FL Terre Haute, IN Texarkana, TX-Texarkana, AR Toledo, OH Topeka, KS Trenton, NJ* Tucson, AZ | 13,372 5,111 48,799 2,771 2,212 13,881 3,728 10,696 14,616 | 14,130 5,419 51,926 2,829 2,336 14,291 3,896 11,169 15,627 | 14,973 5,730 55,356 2,895 2,469 14,850 4,027 12,070 16,409 | 6.0 5.7 6.6 2.3 5.7 3.9 3.4 8.1 | 21,363 20,658 19,902 22,440 18,513 18,035 22,727 22,637 32,483 | 21,551 21,002 23,654 18,914 18,918 23,422 23,652 33,893 20,375 | 24,364 36,598 | 112 |
| VAHNC Qakland, CA* Coala, FL Odessa-Midland, TX Oklahoma City, OK Olympia, WA* Omaha, NE-IA Orange County, CA* | 31,034 62,115 4,052 5,063 20,341 4,204 15,878 70,598 | 32,448 66,771 4,358 5,366 21,381 4,453 17,086 75,099 | 33,958 71,260 4,652 5,887 22,335 4,719 18,267 80,214 | 4.7 6.7 6.7 9.7 4.5 6.0 6.9 | 20,255 28,061 17,986 21,414 20,086 21,874 23,711 | | | | Tulsa, OK Tuscaloosa, AL Tyler, TX Uica-Rome, NY Vallejo-Fairfield-Napa, CA* Ventura, CA* Victoria, TX Vineland-Milliville-Bridgeton, NJ* | 16,334 2,992 3,425 5,966 10,562 17,463 1,675 | 17,309 3,127 3,685 6,061 11,174 18,145 1,793 | 18,511 3,299 3,943 6,239 11,935 19,173 1,888 | 6.9 5.5 7.0 2.9 6.8 5.7 5.3 | 21,921 18,884 | 22,956 19,692 | 24,206 20,514 | 114 245 |
| Orlando, FL Owensboro, KY Panama City, FL Parkersburg-Marietta, WV-OH Pensacola, FL Peoria-Pekin, IL Philadelphia, PA-NJ Phoenix-Mesa, AZ Pine Bluff, AR | 29,398 1,725 2,541 2,963 6,810 7,659 131,272 58,249 1,381 | 31,780 1,802 2,830 3,081 7,380 8,071 138,525 63,395 1,435 | 34,194 1,910 2,985 3,203 7,802 8,495 144,970 68,597 1,488 | 7.6 | 27,447 21,171 19,058 17,914 19,558 18,060 22,219 26,505 21,887 16,538 | | | | Visalia-Tulare-Porterville, CA | 2,859 5,508 3,750 138,283 2,484 2,479 34,157 2,868 | 2,918 5,802 3,915 145,507 2,583 2,644 37,065 2,988 | 3,054 5,998 4,139 154,105 2,730 2,806 39,269 3,040 | 4.7 3.4 5.7 5.9 5.7 | 18,896 30,761 20,257 | 19,467 31,981 21,127 | 20,446 33,433 22,456 | 247 12 167 |
| Pittsburgh, PA Pittsfield, MA (NECMA) Pocatello, ID Portland, ME (NECMA) Portland-Vancouver, OR-WA* Providence-Wonvich, Pasturcket BI | 56,561 3,289 1,247 6,196 41,933 | 59,485 3,464 1,318 6,591 45,559 | 61,928 3,643 1,376 7,049 49,019 23,054 | 4.1 5.2 4.4 6.9 7.6 | 23,703 24,386 17,063 25,056 24,489 | 25,054 25,781 17,938 26,409 25,970 | 26,243 27,200 18,596 28,044 27,388 | 65 52 296 38 46 | Wheeling, WV-OH Wichita, KS Wichita Falls, TX Williamsport, PA Wilmington-Newark, DE-MD* Wilmington, NC Yakima, WA Yolo, CA* | 11,502 2,676 2,208 15,123 4,040 3,846 3,262 | 12,177 2,791 2,299 16,073 4,388 | 13,028 2,944 2,377 17,262 4,710 | 1.9 | 20,543 35,078 18,346 22,137 19,804 18,441 27,582 20,175 18,150 | | | |
| (NECMA) | 21,200 4,750 2,396 2,567 4,252 | 21,913 5,138 2,519 2,764 4,489 | 23,054 5,456 2,689 2,895 4,767 | 5.2 6.2 6.7 4.7 6.2 | 23,380 14,821 18,529 19,941 23,151 | 15,996 19,252 21,229 24,349 | 25,493 16,567 20,274 21,861 25,711 | 310 252 188 77 | York, PA York, PA Youngstown-Warren, OH Yuba City, CA Yuma, AZ | 8,172 12,122 2,330 2,057 | 3,396 8,581 12,390 2,417 1,938 | 3,519 8,953 12,855 2,485 2,019 | 3.6 4.3 3.8 2.8 4.2 | 18,150 22,086 22,408 20,215 17,217 16,889 | 22,735 23,305 20,736 17,748 15,511 | 18,183 | 299 |

Per capita personal income was computed using Census Bureau midyear population estimates. Estimates for 1995-97 reflect county population estimates available as of March 1999.
 The personal income level shown for the United States is derived as the sum of the county estimates. It differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilan and military personnel stationed.

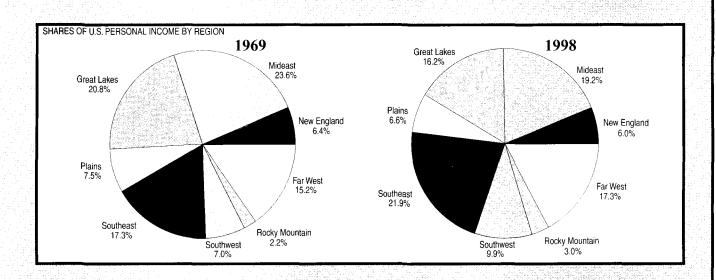
abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

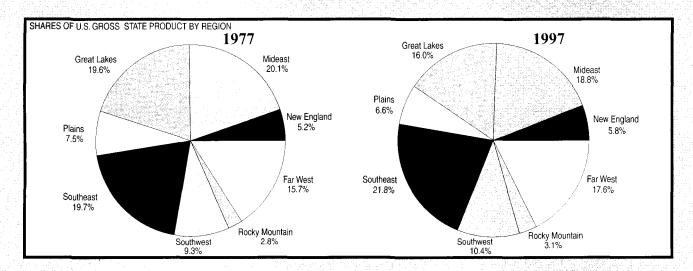
3. Includes Metropolitan Statistical Areas, Primary Metropolitan Statistical Areas (PMSA's designated by *), and New England County Metropolitan Areas (NECMA's). The New Haven-Bridgeport-Stamford-Danbury-Waterbury, CT NECMA is presented as a PMSA (part of the New York CMSA).

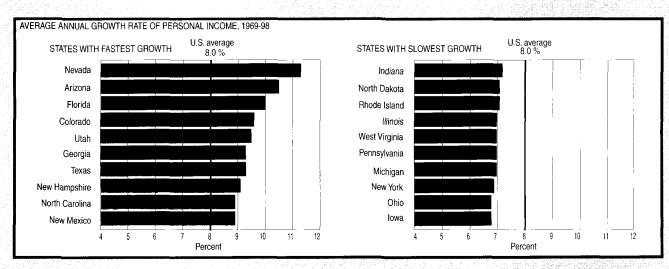
Source: Table 1 in "Local Area Personal Income, 1982–97" in the May 1999 issue of the SURVEY OF CURRENT BUSINESS.

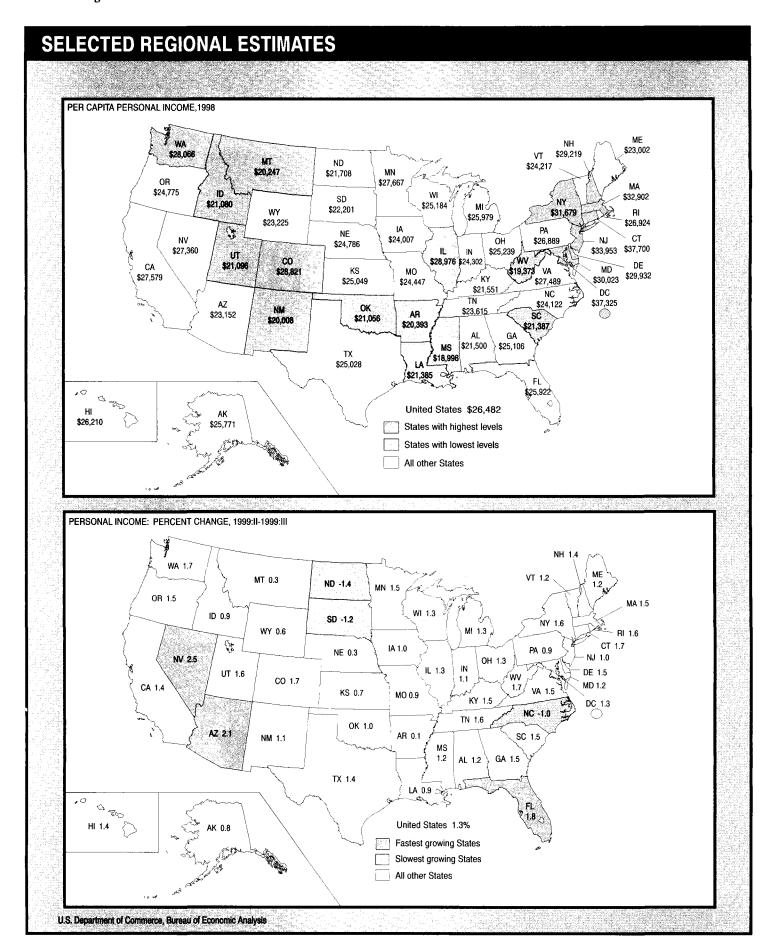
L. Charts

SELECTED REGIONAL ESTIMATES









Appendix A

Additional Information About the NIPA Estimates

Statistical Conventions

Changes in current-dollar GDP measure changes in the market value of goods and services produced in the economy in a particular period. For many purposes, it is necessary to decompose these changes into quantity and price components. To compute the quantity indexes, changes in the quantities of individual goods and services are weighted by their prices. (Quantity changes for GDP are often referred to as changes in "real GDP.") For the price indexes, changes in the prices for individual goods and services are weighted by quantities produced. (In practice, the current-dollar value and price indexes for most GDP components are determined largely using data from Federal Government surveys, and the real values of these components are calculated by deflation at the most detailed level for which all the required data are available.)

The annual changes in quantities and prices are calculated using a Fisher formula that incorporates weights from 2 adjacent years. For example, the annual percent change in real GDP in 1997-98 uses prices for 1997 and 1998 as weights, and the 1997-98 annual percent change in the GDP price index uses quantities for 1997 and 1998 as weights. Because the Fisher formula allows for the effects of changes in relative prices and in the composition of output over time, the resulting quantity or price changes are not affected by the substitution bias that is associated with changes in quantities and prices calculated using a fixed-weighted formula.¹ These annual changes are "chained" (multiplied) together to form time series of quantity and price; the percent changes that are calculated from these time series are not affected by the choice of reference period.

The quarterly changes in quantities and prices are calculated with weights from two adjacent quarters. As part of an annual or comprehensive revision, the quarterly indexes through the most recent complete year are adjusted to ensure that the average of the quarterly indexes conforms to the corresponding annual index.

In addition, BEA prepares measures of real GDP and its components in a dollar-denominated form, designated "chained (1996) dollar estimates." These estimates are computed by multiplying the 1996 current-dollar value of GDP, or of a GDP component, by the corresponding quantity index number. For example, if a current-dollar GDP component equaled \$100 in 1996 and if real output for this component increased by 10 percent in 1997, then the "chained (1996) dollar" value of this component in 1997 would be \$110 (\$100 x 1.10). Note that percentage changes in the chained

(1996) dollar estimates and the percentage changes calculated from the quantity indexes are identical, except for small differences due to rounding.

Because of the formula used for calculating real GDP, the chained (1996) dollar estimates for detailed GDP components do not add to the chained-dollar value of GDP or to any intermediate aggregates. A "residual" line is shown as the difference between GDP and the sum of the most detailed components shown in each table. The residual generally is small close to the base period but tends to become larger as one moves further from it. Accurate measures of component contributions to the percentage changes in real GDP and its major components are shown in NIPA tables 8.2–8.6.

BEA also publishes the "implicit price deflator" (IPD), which is calculated as the ratio of current-dollar value to the corresponding chained-dollar value, multiplied by 100; the values of the IPD and of the corresponding "chain-type" price index are very close.

For quarters and months, the estimates are presented at annual rates, which show the value that would be registered if the rate of activity measured for a quarter or a month were maintained for a full year. Annual rates are used so that time periods of different lengths—for example, quarters and years—may be compared easily. These annual rates are determined simply by multiplying the estimated rate of activity by 4 (for quarterly data) or by 12 (for monthly data).

Percent changes in the estimates are also expressed at annual rates. Calculating these changes requires a variant of the compound interest formula:

$$r = \left[\left(\frac{x_t}{x_o} \right)^{m/n} - 1 \right] \times 100,$$

where r is the percent change at an annual rate;

 x_i is the level of activity in the later period;

 x_0 is the level of activity in the earlier period;

m is the yearly periodicity of the data (for example, 1 for annual data, 4 for quarterly, or 12 for monthly); and

n is the number of periods between the earlier and later periods (that is, t - o).

Quarterly and monthly NIPA estimates are seasonally adjusted, if necessary. Seasonal adjustment removes from the time series the average impact of variations that normally occur at about the same time and in about the same magnitude each year—for example, weather, holidays, and tax payment dates. After seasonal adjustment, cyclical and other short-term changes in the economy stand out more clearly.

In addition, because the changes in quantities and prices calculated using these weights are symmetric, the product of a quantity index and the corresponding price index is generally equal to the current-dollar index.

Reconciliation Tables

Table 1.—Reconciliation of Changes in BEA-Derived Compensation Per Hour with BLS Average Hourly Earnings [Percent change from perceding period]

| | | · | Seasonally adjusted at annual rates | | | | | | | | | |
|--|------|------|-------------------------------------|-------------|------|-----|-----|-------------|--|--|--|--|
| | 1998 | 1999 | 19 | 98 | 1999 | | | | | | | |
| | } | | H | IV | 1 | H | III | V₽ | | | | |
| BEA-derived compensation per hour of all persons in the nonfarm business sector (less housing) ¹ | 5.2 | 4.8 | 6.2 | 4.6 | 4.2 | 4.8 | 4.7 | 4.3 | | | | |
| Less: Contribution of supplements to wages and salaries per hour | 5 | 3 | 5 | 5 | 0 | 2 | 3 | 2 | | | | |
| Plus: Contribution of wages and salaries per hour of persons in housing and in nonprofit institutions | 3 | 2 | - .3 | 1 | 1 | 1 | 1 | - .1 | | | | |
| Less: Contribution of wages and salaries per hour of persons in government enterprises, unpaid family workers, and self-employed | 2 | 1 | 1 | –. 1 | 3 | .1 | 1 | .5 | | | | |
| Equals: BEA-derived wages and salaries per hour of all employees in the private nonfarm sector | 5.6 | 4.9 | 6.4 | 5.0 | 4.3 | 4.7 | 4.9 | 3.8 | | | | |
| Less: Contribution of wages and salaries per hour of nonproduction workers in manufacturing | 1 | 1 | .4 | .4 | .4 | .4 | .4 | 0 | | | | |
| Less: Other differences ² | 1.6 | 1.3 | 2.3 | 1.5 | 0 | .7 | .8 | .6 | | | | |
| Equals: BLS average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls | 4.1 | 3.7 | 3.7 | 3.2 | 4.0 | 3.6 | 3.7 | 3.1 | | | | |
| Addendum: BLS estimates of compensation per hour in the nonfarm business sector 3 | 5.2 | 4.8 | 6.2 | 4.6 | 4.2 | 4.8 | 4.7 | 4.0 | | | | |

Table 2.—Relation of Net Exports of Goods and Services and Net Receipts of Income in the NIPA's to Balance on Goods, Services, and Income in the ITA's

[Billions of dollars]

| | | | | | Seasonally adjusted at annual rates | | | | | | |
|--|----------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|
| | Line | 1997 | 1998 | , | 1998 | | | 1999 | | | |
| | | | | JI . | 111 | ΙV | 1 | II | NI | | |
| Exports of goods, services, and income receipts, ITA's | 1 | 1,197.2 | 1,192.2 | 1,193.9 | 1,166.0 | 1,199.9 | 1,183.7 | 1,205.5 | 1,248.8 | | |
| Less: Gold, ITA's Statistical differences ¹ Other items | 2 3 4 | 5.7 0 .8 | 5.5 0 .8 | 4.4 0 .6 | 5.2 0 .8 | 7.1 0 1.2 | 2.9 0 .8 | 3.3 -1.1 .9 | 6.0 -2.6 .9 | | |
| Plus: Adjustment for grossing of parent/affiliate interest payments | 5 6 | 4.5 38.1 | 5.0 42.3 | 4.9 40.9 | 5.2 41.4 | 5.7 46.4 | 4.3 47.2 | 4.4 48.1 | 4.6 47.3 | | |
| carriers | 7 | 17.3 | 18.5 | 18.4 | 18.8 | 18.9 | 19.2 | 19.4 | 19.9 | | |
| Equals: Exports of goods and services and income receipts, NIPA's | 8 | 1,250.6 | 1,251.6 | 1,253.0 | 1,225.5 | 1,262.7 | 1,250.7 | 1,274.3 | 1,316.2 | | |
| Imports of goods, services, and income payments, ITA's | 9 | 1,298.7 | 1,368.7 | 1,363.9 | 1,376.7 | 1,392.7 | 1,417.0 | 1,484.3 | 1,563.7 | | |
| Less: Gold, ITA's Statistical differences ¹ Other items | 10 11 12 | 6.6 0 0 | 6.5 0 0 | 5.5 0 0 | 7.3 0 0 | 6.6 0 0 | 3.2 0 0 | 3.2 .9 0 | 7.6 .8 0 | | |
| Plus: Gold, NIPA's Adjustment for grossing of parent/affiliate interest payments Adjustment for U.S. territories and Puerto Rico Imputed interest paid to rest of world | 13 14 15 16 | -3.6 4.5 24.3 17.3 | -3.1 5.0 28.5 18.5 | -3.1 4.9 28.3 18.4 | -2.9 5.2 26.2 18.8 | -2.9 5.7 33.1 18.9 | -2.3 4.3 31.7 19.2 | -2.4 4.4 32.8 19.4 | -2.5 4.6 32.3 19.9 | | |
| Equals: Imports of goods and services and income payments, NIPA's | 17 | 1,334.7 | 1,411.1 | 1,407.0 | 1,416.8 | 1,441.0 | 1,466.7 | 1,534.4 | 1,609.8 | | |
| Balance on goods, services, and income, ITA's (1-9) | 18 | -101.5 | -176.5 | -170.0 | -210.7 | -192.8 | -233.3 | -278.8 | -314.9 | | |
| Less: Gold (2–10+13) | 19 20 21 | -4.5 0 .8 | -4.1 0 .8 | -4.2 0 .6 | -5.0 0 .8 | -2.4 0 1.2 | -2.6 0 .8 | -2.3 -2.0 .9 | -4.1 -3.4 .9 | | |
| Plus: Adjustment for U.S. territories and Puerto Rico (6-15) | 22 | 13.8 | 13.8 | 12.6 | 15.2 | 13.3 | 15.5 | 15.3 | 15.0 | | |
| Equals: Net exports of goods and services and net receipts of income, NIPA's (8-17) | 23 | -84.1 | -159.5 | -154.0 | -191.3 | -178.3 | -216.0 | -260.1 | 293.6 | | |

^{1.} Consists of statistical revisions in the NIPA's that have not yet been incorporated into the ITA's (1999:III) and statistical revisions in the ITA's that have not yet been incorporated into the NIPA's (1999:II-1999:III).

ITA's International transactions accounts NIPA's National income and product accounts

P Preliminary
1. Includes BLS data on compensation and hours of nonfarm proprietors and hours worked
of unpaid family workers.
2. Includes BEA use of non-BLS data and differences in detailed weighting. Annual estimates
also include differences in BEA and BLS benchmark procedures; quarterly estimates also include
differences in seasonal adjustment procedures.

^{3.} These estimates differ from the BEA-derived estimates (first line) because the BLS estimates include compensation and hours of tenant-occupied housing.

BLS Bureau of Labor Statistics

Appendix B

Suggested Readings

BEA's Mission and Strategic Plan

BEA's mission statement and the latest update to BEA's strategic plan for improving the accuracy, reliability, and relevance of the national, regional, and international accounts are available on BEA's Web site (see the box below). The initial development and implementation of the strategic plan is described in the following articles in the Survey of Current Business.

"Mid-Decade Strategic Review of BEA's Economic Accounts: Maintaining and Improving Their Performance" (February 1995)

"Mid-Decade Strategic Review of BEA's Economic Accounts: An Update" (April 1995)

"BEA's Mid-Decade Strategic Plan: A Progress Report" (June 1996)

Methodology

BEA has published a wealth of information about the methodologies used to prepare its national, regional, and international accounts.

National accounts

National income and product accounts (NIPA's)

NIPA Methodology Papers: This series documents the conceptual framework of the NIPA's and the methodology used to prepare the estimates.

An Introduction to National Economic Accounting (NIPA Methodology Paper No. 1, 1985) [Also appeared in the March 1985 issue of the SURVEY]

Corporate Profits: Profits Before Tax, Profits Tax Liability, and Dividends (NIPA Methodology Paper No. 2, 1985)

Foreign Transactions (NIPA Methodology Paper No. 3, 1987) [Revised version forthcoming]

GNP: An Overview of Source Data and Estimating Methods (NIPA Methodology Paper No. 4, 1987) [Largely superseded by "A Guide to the NIPA's" (March 1998 SURVEY)]

Government Transactions (NIPA Methodology Paper No. 5, 1988)

Personal Consumption Expenditures (NIPA Methodology Paper No. 6, 1990)

The methodologies described in these papers are subject to periodic improvementst that are typically introduced as part of the annual and comprehensive revisions of the NIPA's; these improvements are described in the Survey articles that cover these revisions.

The most recent comprehensive revision of the NIPA's is described in the following series of Survey articles.

"A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts"

"Definitional and Classificational Changes" (August 1999)

"New and Redesigned Tables" (September 1999)
"Statistical Changes" (October 1999)

"Improved Estimates of the National Income and Product Accounts for 1959–98: Results of the Comprehensive Revision" (December 1999)

"Annual Revision of the U.S. National Income and Product Accounts": This series of Survey articles, the latest of which was published in the August 1998 issue, describes the annual NIPA revisions and the improvements in methodology.

"A Guide to the NIPA's" (March 1998 SURVEY) provides the definitions of the major NIPA aggregates and components; discusses the measures of real output and prices; explains how production is classified and how the NIPA's are presented; describes the statistical conventions that are used; and lists the principal source data and methods used to prepare the estimates of gross domestic product (GDP).

Information on the sources and methods used to prepare the national estimates of personal income, which provide the basis for the State estimates of personal income, can be found in *State Personal Income*, 1929–97 (1999).

"BEA's Chain Indexes, Time Series, and Measures of Long-Term Economic Growth" (May 1997) is the most recent in a series of Survey articles that describe the conceptual basis for the chain-type measures of real output and prices used in the NIPA's.

"Reliability of the Quarterly and Annual Estimates of GDP and Gross Domestic Income" (December 1998

Availability

Most of the items listed here are available on BEA's Web site at <www.bea.doc.gov>. In addition, see the Catalog of Products for the availability of printed publicaitons. The Catalog is available on BEA's Web site; a printed copy can be obtained by writing to the Public Information Office, BE-53. Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230, or by calling 202-606-9900.

Survey) evaluates the reliability of these estimates by examining the record of revisions to them.

Wealth and related estimates

Fixed Reproducible Tangible Wealth in the United States, 1929–94 (1999) discusses the conceptual and statistical considerations underlying the BEA wealth estimates and explains the derivation of the estimates.

Gross product by industry

"Improved Estimates of Gross Product by Industry, 1959–94" (August 1996 SURVEY) describes the most recent comprehensive revision of the estimates of gross product by industry.

"Gross Product by Industry, 1947–96" (November 1997 Survey) and "Gross Product by Industry, 1995–97 (November 1998 Survey) present the most recent revisions to the estimates of gross product by industry and briefly describe changes in methodology.

Input-output accounts

"Benchmark Input-Output Accounts for the U.S. Economy, 1992" (November 1997 SURVEY) describes the preparation of the 1992 input-output (I-O) accounts and the concepts and methods underlying the U.S. I-O accounts.

"Annual Input-Output Accounts of the U.S. Economy, 1996" (January 2000 Survey) presents annual I-O tables for 1996 that update the 1992 benchmark I-O accounts.

Satellite accounts

Satellite accounts that extend the analytical capacity of the national accounts by focusing on a particular aspect of activity are presented in the following Survey articles.

- "Integrated Economic and Environmental Satellite Accounts" and "Accounting for Mineral Resources: Issues and BEA's Initial Estimates" (April 1994)
- "A Satellite Account for Research and Development" (November 1994)
- "U.S. Transportation Satellite Accounts for 1992" (April 1998)
- "U.S. Travel and Tourism Satellite Accounts for 1992" (July 1998)

International accounts

International transactions accounts (ITA's)

The Balance of Payments of the United States: Concepts, Data Sources, and Estimating Procedures (1990) describes the methodologies used in preparing the estimates in the ITA's and of the international investment position of the United States. These methodologies are subject to periodic improvements that are typically introduced as part of the annual revisions of the ITA's.

"U.S. International Transactions, Revised Estimates": This series of Survey articles, the latest of which was published in the July 1999 issue, describes the

annual ITA revisions and the improvements in methodology.

Direct investment

International Direct Investment: Studies by the Bureau of Economic Analysis (1999) presents a collection of previously published studies on U.S. direct investment abroad and foreign direct investment in the United States. In addition, it includes the following guides to BEA's statistics and methodologies used to prepare the estimates.

- "Methodology for U.S. Direct Investment Abroad" (U.S. Direct Investment Abroad: 1994 Benchmark Survey, Final Results (1998))
- "A Guide to BEA Statistics on U.S. Multinational Companies" (March 1995 Survey)
- "Methodology for Foreign Direct Investment in the United States" (Foreign Direct Investment in the United States: 1992 Benchmark Survey, Final Results (1995))
- "A Guide to BEA Statistics on Foreign Direct Investment in the United States" (February 1990 SURVEY)

Surveys of international services

U.S. International Transactions in Private Services: A Guide to the Surveys Conducted by the Bureau of Economic Analysis (1998) provides information on the 11 surveys that BEA conducts on these transactions—including classifications, definitions, release schedules, and methods used to prepare the estimates—and samples of the survey forms.

Regional

Personal income

State Personal Income, 1929–97 (1999) includes a description of the methodology used to prepare the estimates of State personal income. [Also available on the CD-ROM State Personal Income, 1929–97]

Local Area Personal Income, 1969–92 (1994) includes a description of the methodology used to prepare the estimates of local area personal income. [Also available on the CD-ROM Regional Economic Information System, 1969–97]

Gross state product

"Comprehensive Revision of Gross State Product by Industry, 1977–94" (June 1997 Survey) summarizes the sources and methods for BEA's estimates of gross state product.

"Gross State Product by Industry, 1977–96" (June 1998 Survey) and "Gross State Product by Industry, 1995–97" (June 1999 Survey) present the most recent revisions to the estimates of gross state product by industry and briefly describe changes in methodology.



Getting BEA's Estimates

Estimates and related information are available in news releases and publications and on diskettes, CD–ROM's, and the BEA Web site. The news releases are now posted on the Web site within minutes of the official time of release. Our online Catalog of Products provides product descriptions and includes links to compressed files of our diskette products that can be downloaded for free.

Our most recent Web site postings and statistical products are listed below.

www.bea.doc.gov

March 2000 Survey of Current Business

Click on "Survey of Current Business and other BEA Publications," and look under "Table of contents." Selected NIPA Tables, Fourth Quarter 1999 (Preliminary) Click on "GDP and related data," and look under "Current period estimates."

State Personal Income, Third Quarter 1999

Under "Regional," click on "Data," then click on "State personal income" and look under "Quarterly tables." 1996 Annual I-O Accounts

Click on "Industry and Wealth Data," and look under "Input-Output data."

Diskettes and CD-ROM's

1996 Annual I-O Accounts

Contains annual input-output estimates for two-digit industries. Also contains alternative use and make tables with industries defined on a 1987 SIC basis. Diskette IDN-0247, \$20.00.

U.S. International Transactions, Third Quarter 1999 Contains annual estimates for 1998 and quarterly estimates for 1997:I-1999:III on a balance-of-payments basis. Diskette IDN-0246, \$20.00. Foreign Direct Investment in the United States (FDIUS): Preliminary Results From the 1997 Benchmark Survey

Contains information on the financial structure and operations of the U.S. affiliates of foreign direct investors. Diskette IDN-0244, \$20.00.

FDIUS: Balance of Payments and Direct Investment Position Estimates, 1987–98

Contains annual estimates of the foreign direct investment position in the United States and of balance-of-payments transactions between U.S. affiliates and their foreign parents. Diskette IDN–0242, \$20.00.

U.S. Direct Investment Abroad (USDIA): Balance of Payments and Direct Investment Position Estimates, 1982–98

Contains annual estimates of the U.S. direct investment position abroad and of balance-of-payments transactions between U.S. parents and their foreign affiliates. Diskette IDN-0241, \$20.00

To order, call the BEA Order Desk at 1-800-704-0415 (outside the United States, call 202-606-9666).

Publications

Foreign Direct Investment in the United States: Preliminary Results From the 1997 Benchmark Survey Presents data on the financial structure and operations of the U.S. affiliates of foreign investors, including data collected only in benchmark surveys. Stock no. 003–010–00284–1, \$13.00.

State Personal Income, 1929-97

Presents detailed annual estimates of personal income and per capita personal income for all

States and the methodology and sources of the data used to prepare the estimates. Stock no. 003–010–00280–8, \$38.00.

International Direct Investment: Studies by the Bureau of Economic Analysis

Presents a collection of studies on multinational companies, the guides to BEA's statistics, and the methodologies used to prepare the estimates. Stock no. 003–010–00278–6, \$24.00.

To order, visit the U.S. Government Printing Office's Web site at <www.gpo.gov> or call 202-512-1800.

U. S. GOVERNMENT PRINTING OFFICE SUPERINTENDENT OF DOCUMENTS WASHINGTON, DC 20402 STATES OF MANAGE

PERIODICALS

POSTAGE AND FEES PAID

U.S. GOVERNMENT PRINTING OFFICE USPS 337-790

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

Schedule of Upcoming BEA News Releases

| U.S. International Transactions, 4th quarter 1999 | Mar. 15 | 10:00 a.m. |
|---|----------|------------|
| U.S. International Trade in Goods and Services, January 2000* | Mar. 21 | 8:30 a.m. |
| Gross Domestic Product, 4th quarter 1999 (final) and | | |
| Corporate Profits, 4th quarter 1999 | Mar. 30 | 8:30 a.m. |
| Personal Income and Outlays, February 2000 | | |
| U.S. International Trade in Goods and Services, February 2000* | April 10 | 8.30 a m |
| · | - | |
| Gross Domestic Product, 1st quarter 2000 (advance) | | |
| Personal Income and Outlays, March 2000 | April 28 | 8:30 a.m |
| State Personal Income, 4th quarter 1999 | | |
| and Per Capita Personal Income, 1999 (preliminary) | May 17 | 9:00 a.m. |
| U.S. International Trade in Goods and Services, March 2000* | | |
| Gross Domestic Product, 1st quarter 2000 (preliminary) and | • | |
| Corporate Profits, 1st quarter 2000 (preliminary) | May 25 | 8:30 a.m. |
| Personal Income and Outlays, April 2000 | May 26 | 8:30 a.m |
| Foreign Investors' Spending to Acquire or Establish U.S. Businesses, 1999 | June 7 | 10:00 a.m. |
| Local Area Personal Income, 1998 | | |
| | | |
| U.S. International Trade in Goods and Services, April 2000* | | |
| U.S. International Transactions, 1st quarter 2000 | June 20 | 10:00 a.m. |
| Gross Domestic Product, 1st quarter 2000 (final) and | | |
| Corporate Profits, 1st quarter 2000 (revised) | | |
| International Investment Position of the United States, 1999 | June 29 | 10:00 a.m. |
| Personal Income and Outlays, May 2000 | June 30 | 8:30 a.m. |
| | | |

^{*} Joint release by the Bureau of the Census and the Bureau of Economic Analysis (BEA) For more information, call BEA at 202-606-9900, or go to our Web site at www.bea.doc.gov