

Bureau of Economic Analysis

Survey of Current Business

Table of Contents January 1994

Special in this issue

34. Characteristics of Foreign-Owned U.S. Manufacturing Establishments

Foreign-owned U.S. manufacturing plants tend to be much larger than their U.S.-owned counterparts, and they tend to have somewhat higher capital intensity, wage rates, and labor productivity. The difference in plant size appears to be due to foreign ownership per se, but the other differences appear to be largely due to the nature of the industries in which foreign investment is concentrated. These conclusions are based on newly available data for 1989—that were derived by linking BEA enterprise-level data on foreign direct investment in the United States with establishment-level data from the Census Bureau's annual survey of manufactures.

Regular features

1. Business Situation

U.S. economic activity surged in the fourth quarter of 1993: The 5.9-percent increase in real GDP was double the third-quarter increase. At 2.1 percent, inflation remained moderate.

29. Personal Income by State and Region, Third Quarter 1993

Floods in the Midwest, drought in the Southeast, and declines in Federal farm subsidy payments lowered farm income, as personal income slowed in the third quarter. Still, personal income in 37 States increased faster than prices.

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Gross Product of U.S. Multinational Companies. An article presenting estimates of gross product of U.S. multinational companies (MNC's) for 1977–91 will appear in the February SURVEY; estimates will be provided for both U.S. parent companies and their foreign affiliates. The article will discuss trends in MNC gross product and examine the structure of MNC output.

User's Guide. An updated "User's Guide to BEA Information" will appear in the February SURVEY. The guide contains descriptions of BEA's programs, products, and services as well as order information and forms.

THE BUSINESS SITUATION

This article was prepared by Daniel Larkins, Larry R. Moran, and Ralph W. Morris. Real Gross domestic product (GDP) increased 5.9 percent in the fourth quarter of 1993 after increasing 2.9 percent in the third quarter, according to the advance estimate of the national income and product accounts (NIPA'S) (chart 1). The acceleration reflected a sharp stepup in the production of goods and a smaller—but still sizable—step-up in the production of structures. The production of services increased less in the fourth quarter than in the third (table 1).

In the aftermath of floods in the Midwest and drought in the Southeast, farm inventories were adjusted down \$7.5 billion in the third quarter and \$2.5 billion in the fourth.² Quarter-to-quarter growth of GDP reflects quarter-to-quarter differences in the adjustments, namely -\$7.5 billion in the third quarter, +\$5.0 billion in the fourth quarter, and +\$2.5 billion in the first quarter of 1994. These constant-dollar amounts translate into effects on GDP growth rates as follows: -0.6 percentage point in the third quarter, +0.4 percentage point in the fourth quarter, and +0.2 percentage point in the first quarter of 1994.

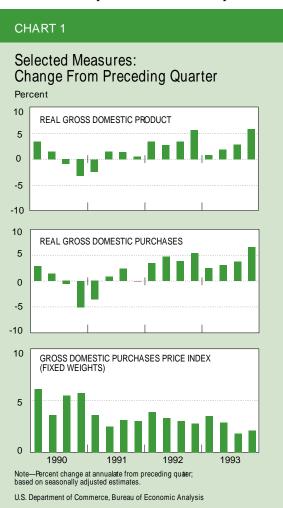
Real gross domestic purchases increased 6.5 percent in the fourth quarter after increasing 3.7 percent in the third (table 2). The acceleration was more than accounted for by investment. Inventory investment (that is, change in business inventories) turned up; farm inventories more than accounted for the upturn. Nonresidential fixed investment and residential investment both stepped up sharply. The nonresidential step-up was mainly accounted for by producers' durable equipment; the residential step-up, by single-family construction.

Exports and imports are the link between goods and services produced in the United States (GDP) and goods and services purchased by U.S. residents (gross domestic purchases). Exports—

goods and services produced in the United States but not purchased by U.S. residents—posted a strong increase in the fourth quarter after decreasing slightly in the third. Imports—goods and services purchased by U.S. residents but not produced in the United States—increased much more in the fourth quarter than in the third.

The fixed-weighted price index for gross domestic purchases increased 2.1 percent in the fourth quarter after increasing 1.8 percent in the third. The fixed-weighted price index for GDP increased 2.2 percent after increasing 2.1 percent.

Motor vehicles.—A fourth-quarter jump in motor vehicle output followed two quarters of



Quarterly estimates in the national income and product accounts are expressed at seasonally adjusted annual rates, and quarterly changes are differences between these rates. Quarter-to-quarter percent changes are annualized. Real, or constant-dollar, estimates are expressed in 1987 dollars.

^{2.} The Bureau of Economic Analysis does not attempt to quantify the total impact of disasters, but it does adjust for the effects of disasters when these effects are not adequately captured in the source data. For more information, see "Impact of the 1993 Floods and Drought," Survey of Current Business 73 (September 1993): 2.

decrease. A jump in sales continued a sevenquarter pattern of alternating increases and decreases. Inventories increased after two quarters of decrease. Output increased 48.0 percent in the fourth quarter after falling 18.6 percent in the third (table 3). The increase was evenly split between autos and trucks.

Table 1.—Real Gross Domestic Product, by Major Type of Product: Change From Preceding Period

[Quarterly changes are at seasonally adjusted annual rates]

| | Billions of 1987 dollars | | | | | | | | Perc | ent | | 2.9 5.9 1.1 9.2 | | | |
|------------------------------|--------------------------|----------------------|--------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------|-------------------|-------------------|--------------------|---------------------|------------------------|--|--|--|
| | 1992 | 1993 | | 19 | 93 | | 1002 | 1993 | 1993 | | | | | | |
| | 1992 | 1993 | - | II | 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 1992 | 1993 | I | II | III | IV | | | | | |
| Gross domestic product | 124.9 | 146.4 | 9.9 | 23.9 | 36.2 | 73.8 | 2.6 | 2.9 | 0.8 | 1.9 | 2.9 | 5.9 | | | |
| Goods Motor vehicles Other | 59.2 18.9 40.3 | 75.6 15.4 60.2 | 2.5 6.6 –4.1 | 8.9 -2.6 11.5 | 5.8 -10.2 16.0 | 46.1 19.9 26.2 | 3.0 11.1 2.3 | 3.8 8.2 3.3 | .5 13.9 –.9 | 1.7 -4.9 2.5 | 1.1 -18.6 3.5 | | | | |
| Services | 38.8 | 51.5 | 8.8 | 12.2 | 19.2 | 8.8 | 1.6 | 2.0 | 1.4 | 1.9 | 3.0 | 1.4 | | | |
| Structures | 26.8 | 19.3 | -1.5 | 2.8 | 11.1 | 19.0 | 6.4 | 4.3 | -1.3 | 2.5 | 10.1 | 17.3 | | | |
| Addendum: Gross farm product | 9.2 | -5.7 | -1.5 | -2.0 | -8.7 | 6.1 | 13.1 | -7.2 | -7.3 | -9.8 | -38.4 | 41.4 | | | |

NOTE.—Most series are found in table 1.4 of the "Selected NIPA Tables"; gross farm product is found in table 1.8. Output of motor vehicles is the sum of auto output and truck output from tables 8.4 and 8.6, respectively.

Table 2.—Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers: Change From Preceding Period

[Quarterly changes are at seasonally adjusted annual rates]

| | | Bi | lions of 1 | 987 dolla | rs | | | | Pero | ent | | |
|---------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-----------------------------|--------------------------------|----------------------------|------------------------------|-------------------------|-------------------------|---------------------------|----------------------------|--------------------------|--------------------------|
| | 1992 1993 1993 1992 1993 | | | | 1993 | 1993 | | | | | | |
| | 1992 | 1993 | ı | II | III | IV | 1992 | 1993 | ı | II | III | IV |
| Gross domestic product | 124.9 | 146.4 | 9.9 | 23.9 | 36.2 | 73.8 | 2.6 | 2.9 | 0.8 | 1.9 | 2.9 | 5.9 |
| Less: Exports of goods and services | 34.6 49.1 | 18.4 64.1 | -3.6 17.6 | 5.2 20.5 | -1.3 9.8 | 20.6 29.9 | 6.4 8.7 | 3.2 10.5 | -2.4 11.6 | 3.6 13.3 | 9 6.0 | 14.7 18.8 |
| Equals: Gross domestic purchases | 139.4 | 192.0 | 31.0 | 39.3 | 47.2 | 83.1 | 2.9 | 3.8 | 2.5 | 3.1 | 3.7 | 6.5 |
| Less: Change in business inventories Farm Nonfarm | 14.9 3.6 11.3 | 8.9 -9.7 18.6 | 20.6 -1.2 21.8 | - 16.3 -4.1 -12.2 | −6.5 −8.8 2.3 | 6.2 6.2 0 | | | | | | |
| Equals: Final sales to domestic purchasers | 124.5 | 183.2 | 10.4 | 55.5 | 53.8 | 76.9 | 2.5 | 3.7 | .8 | 4.4 | 4.2 | 6.0 |
| Personal consumption expenditures Nonresidential fixed investment Residential investment Government purchases | 83.2 14.7 27.6 –1.1 | 110.7 62.1 17.1 –6.6 | 6.6 18.6 .8 –15.6 | 28.9 22.0 -5.2 9.8 | 36.9 10.5 5.9 .6 | 34.3 29.0 15.1 –1.6 | 2.6 2.9 16.3 1 | 3.3 11.7 8.7 7 | .8 14.4 1.5 –6.4 | 3.4 16.6 -9.5 4.3 | 4.4 7.4 11.9 .3 | 4.0 21.0 31.7 7 |

NOTE.—Dollar levels are found in tables 1.2 and 1.6 of the "Selected NIPA Tables." Percent changes are found in table 8.1.

Table 3.—Motor Vehicle Output, Sales, and Inventories: Change From Preceding Period

[Quarterly changes are at seasonally adjusted annual rates]

| | Billions of 1987 dollars | | | | | | | | Perd | cent | | |
|---------------------------------------------|----------------------------|----------------------------|---------------------------|--------------------------------|------------------------------|----------------------------|----------------------------|---------------------------|--------------------------------|------------------------------|---------------------------------|-----------------------------|
| | 1002 1002 | | | 19 | 1993 1993 1993 | | | | | | | |
| | 1992 | 1993 | _ | II | III | IV | 1992 | 1993 | ı | II | III | IV |
| Output | 18.9 7.9 11.0 | 15.4 3.4 12.0 | 6.6 2.4 4.2 | - 2.6 .9 -3.5 | - 10.2 -9.9 3 | 19.9 10.2 9.7 | 11.1 7.2 18.2 | 8.2 2.9 16.8 | 13.9 8.2 22.9 | - 4.9 3.0 -15.7 | - 18.6 -28.4 -1.5 | 48.0 41.1 58.1 |
| Final sales Autos Trucks | 16.6 7.9 8.7 | 12.7 6 13.3 | - 6.4 -5.6 8 | 14.1 7.2 6.9 | - 7.7 -4.9 -2.8 | 11.6 1.0 10.6 | 9.7 7.2 14.1 | 6.7 5 18.9 | - 12.3 -17.5 -4.0 | 32.9 27.8 40.8 | - 14.2 -15.2 -12.7 | 25.6 3.5 63.2 |
| Change in business inventories Autos Trucks | 2.3 0 2.3 | 2.6 4.0 -1.4 | 12.9 8.0 4.9 | - 16.7 -6.3 -10.4 | − 2.5 −5.1 2.6 | 8.3 9.2 9 | | | | | | |

NOTE.—Dollar levels for autos and trucks are found in tables 8.4 and 8.6, respectively, of the

"Selected NIPA Tables."

Sales increased 25.6 percent in the fourth quarter after dropping 14.2 percent in the third. The increase was mostly accounted for by truck sales, which jumped 63.2 percent after decreasing 12.7 percent. Light domestic trucks accounted for the jump, according to data on unit sales; sales of minivans, sport-utility vehicles, and full-size pickups were very strong. Auto sales increased 3.5 percent after dropping 15.2 percent; the increase was more than accounted for by domestic models, according to the unit sales data.

Most of the fourth-quarter increase in motor vehicle sales was accounted for by sales to consumers, which increased 26.9 percent after decreasing 6.2 percent. The increase in consumer sales was consistent with improvement in fac-

tors that underlie total consumer spending: Real disposable personal income increased 5.2 percent after increasing 1.6 percent. The Index of Consumer Sentiment (prepared by the University of Michigan's Survey Research Center) increased to its highest level in three quarters. The unemployment rate fell to 6.5 percent, its lowest level in 11 quarters. In addition, the increase in sales may have reflected falling interest rates on auto loans; commercial bank interest rates on 48-month loans fell to 7.6 percent in the fourth quarter from 8.0 percent in the third.

The fourth-quarter increase in motor vehicle inventories was more than accounted for by autos; in units, the inventory-sales ratio for new domestic autos decreased slightly to 2.5—just

Fourth-Quarter 1993 Advance GDP Estimate: Source Data and Assumptions

The advance GDP estimate for the fourth quarter is based on the following major source data, some of which are subject to revision. (The number of months for which data were available is shown in parentheses.)

Personal consumption expenditures: Sales of retail stores (3) and unit auto and truck sales (3);

Nonresidential fixed investment: Unit auto and truck sales (3), construction put in place (2), manufacturers' shipments of machinery and equipment (3), and exports and imports of machinery and equipment (2);

Residential investment: Construction put in place (2) and single-family housing starts (3);

Change in business inventories: Manufacturing and trade inventories (2) and unit auto and truck inventories (3);

Net exports of goods and services: Merchandise exports and merchandise imports (2);

Government purchases: Military outlays (3), other Federal outlays (2), State and local construction put in place (2), and State and local employment (3);

GDP prices: Consumer Price Index (3), Producer Price Index (3), summary price indexes for nonpetroleum merchandise exports and imports (3), and values and quantities of petroleum imports (2).

The Bureau of Economic Analysis (BEA) made assumptions for the source data that were not available. A table detailing these assumptions is available on the Department of Commerce's Economic Bulletin Board or from BEA; it is summarized in table A.

Table A.—Summary of Major Data Assumptions for Advance Estimates, 1993:IV

[Billions of dollars, seasonally adjusted at annual rates]

| | 1993 | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| | July | August | Septem- ber | October | November | December | |
| Fixed investment: Nonresidential structures: Buildings, utilities, and farm: | | | | | | | |
| Value of new nonresidential construction put in place | 129.9 | 131.9 | 133.1 | 135.8 | 137.3 | 137.8 | |
| Manufacturers' shipments of complete civilian aircraft less exports | 5.7 | 11.1 | 6.3 | 1.8 | 1.4 | 6.8 | |
| 1-unit structures | 129.5 11.6 | 131.8 11.2 | 134.7 11.1 | 139.4 10.5 | 145.2 11.1 | 150.6 11.6 | |
| Change in business inventories, nonfarm: Change in inventories for manufacturing and trade (except nonmerchant wholesalers) for industries other than motor vehicles and equipment in trade | 18.1 | 23.9 | 19.0 | 12.8 | 48.3 | -22.8 | |
| Net exports: | | | | | | | |
| Exports of merchandise: U.S. exports of merchandise, excluding gold, balance-of-payments basis Imports of merchandise: | 431.7 | 439.6 | 444.8 | 457.5 | 458.9 | 463.5 | |
| U.S. imports of merchandise, excluding gold, balance-of-payments basis | 570.1 -138.4 | 576.8 -137.2 | 593.8 -149.0 | 612.0 -154.6 | 598.4 -139.5 | 608.0 -144.5 | |
| Government purchases: State and local: Structures: | | | | | | | |
| Value of new construction put in place | 115.2 | 113.7 | 119.9 | 116.1 | 120.4 | 116.5 | |

above the traditional industry target of 2.4—from 2.6 in the third quarter. Truck inventories decreased slightly in the fourth quarter after increasing in the third.

The NIPA's in 1993.—From 1992 to 1993, real GDP increased 2.9 percent, up from the 2.6-percent increase from 1991 to 1992. The 1993 increase was the largest since 1988, but it was relatively modest for a period of economic recovery.

The small acceleration in GDP in 1993 reflected step-ups in the production of both goods and services; the production of structures increased less in 1993 than in 1992. The step-up in the production of goods was accounted for by durable goods other than motor vehicles. About half of the step-up in the production of services was accounted for by brokerage services. The slowdown in structures was more than accounted for by residential construction; nonresidential construction increased slightly in 1993 after decreasing in 1992.

Gross domestic purchases increased 3.8 percent in 1993 after increasing 2.9 percent in 1992. The pickup was accounted for by personal consumption expenditures and by nonresidential fixed investment; inventory investment and residential investment increased less than in 1992, and government purchases decreased more than in 1992.

Personal consumption expenditures increased more in 1993 than in 1992—3.3 percent, compared with 2.6 percent. A slowing in the rate of growth of real disposable personal income from 2.9 percent to 1.9 percent mainly reflected bonus payments that typically would have been paid in early 1993 but that were instead paid in late 1992.³ Saving financed at least part of the 1993 increase in expenditures; for example, personal saving as a percent of disposable personal income fell to 4.0 percent in 1993 from 5.3 percent in 1992.

Nonresidential fixed investment increased 11.7 percent after increasing 2.9 percent. The pickup was consistent with pickups in final sales and in corporate profits. Real final sales of domestic product increased 2.8 percent after increasing 2.3 percent. Corporate profits are not yet available for the fourth quarter of 1993; however, in the first three quarters of the year, profits (in current dollars) averaged 14.3 percent more than in the first three quarters of 1992.

Inventory investment increased \$8.9 billion after increasing \$14.9 billion. The slowdown was

more than accounted for by the effects of the floods and drought on farm inventories. Nonfarm inventory investment increased more than in 1992; however, the ratio of nonfarm inventories to final sales of domestic product changed little from 1992 to 1993.

Residential investment increased 8.7 percent after increasing 16.3 percent. The slowdown occurred despite a drop in the mortgage commitment rate from 8.4 percent to 7.3 percent; it reflected, at least in part, accelerating house prices and slower income growth.

Government purchases decreased 0.7 percent after decreasing 0.1 percent. Federal nondefense purchases increased much less in 1993 than in 1992. In both years, defense purchases decreased substantially, and State and local government purchases increased modestly.

Exports slowed to a 3.2-percent increase from a 6.4-percent increase; imports, in contrast, stepped up to a 10.5-percent increase from an 8.7-percent increase. Both services and merchandise contributed to the slowdown in exports; much of the merchandise slowdown was accounted for by foods, feeds, and beverages and by industrial supplies and materials. Both services and merchandise contributed to the step-up in imports; much of the merchandise step-up was accounted for by nonautomotive capital goods.

Prices

The fixed-weighted price index for gross domestic purchases increased 2.1 percent in the fourth quarter after increasing 1.8 percent in the third (table 4). Prices of gross domestic purchases less food and energy, which may be viewed as a measure of the underlying inflation rate in the U.S. economy, increased 2.0 percent after increasing 2.3 percent (chart 2).

Prices of personal consumption expenditures (PCE) increased 2.7 percent after increasing 1.4 percent. The step-up was spread across PCE categories. Food prices increased 3.9 percent after increasing 0.3 percent; much of the step-up reflected upturns in the prices of meat, fish, and fresh fruits and vegetables. Energy prices increased 1.1 percent after decreasing 4.2 percent. The price of gasoline and oil turned up, reflecting an increase in the Federal excise tax on gasoline that became effective October 1, 1993; in contrast, the price of fuel oil and coal decreased more than in the third quarter, and the price of electricity and gas turned down. The price of "other" PCE increased 2.6 percent after increasing 2.0 percent; much of the step-up was accounted for by the

^{3.} See "Annual Revision of the U.S. National Income and Product Accounts," Survey 73 (August 1993): 28.

prices of furniture and household equipment and of housing services.

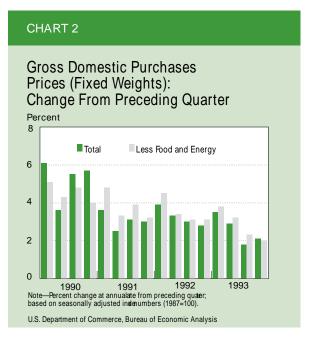
Prices of nonresidential fixed investment increased 1.3 percent after increasing 1.9 percent. Prices of nonresidential structures increased at about the same rate in both quarters. Prices of producers' durable equipment changed little after a small increase; prices of industrial, transportation, and "other" equipment slowed, and prices of information processing equipment decreased at the same rate as in the third quarter. Prices of

Table 4.—Price Indexes (Fixed Weights): Change From Preceding Quarter

[Percent change at annual rates; based on seasonally adjusted index numbers (1987=100)]

| | | 199 | 93 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------|
| | ı | II | III | IV |
| Gross domestic product | 4.3 | 2.8 | 2.1 | 2.2 |
| Less: Exports of goods and services | 1.5 -4.7 | 2.8 3.8 | .6 –2.7 | 1.0 .3 |
| Equals: Gross domestic purchases | 3.5 | 2.9 | 1.8 | 2.1 |
| Less: Change in business inventories | | | | |
| Equals: Final sales to domestic purchasers | 3.5 | 2.9 | 1.8 | 2.1 |
| Personal consumption expenditures Food Energy Other personal consumption expenditures Nonresidential fixed investment Structures Producers' durable equipment Residential investment Government purchases | 3.4 2.6 1.5 3.7 1.6 2.5 1.2 3.5 5.0 | 2.9 2.3 -1.5 3.4 2.5 3.8 1.8 5.0 2.6 | 1.4 .3 -4.2 2.0 1.9 3.4 1.0 4.6 2.5 | 2.7 3.9 1.1 2.6 1.3 3.3 .1 2.8 |
| Addenda: Merchandise imports Petroleum and products Other merchandise | -5.3 -28.8 -2.6 | 4.1 16.1 3.0 | -3.4 -36.6 .5 | .6 -24.9 3.2 |

NOTE.—Percent changes in major aggregates are found in table 8.1 of the "Selected NIPA Tables," and levels of most index numbers are found in tables 7.1 and 7.2.



residential investment increased 2.8 percent after increasing 4.6 percent.

Prices of government purchases changed little after increasing 2.5 percent. Prices paid by the Federal Government decreased 0.6 percent after increasing 3.3 percent. Much of the third-quarter increase reflected retirement incentives ("buyouts") offered to civilian employees of the Defense Department; these buyouts are treated in the NIPA's as a one-time change in the price of employee services purchased by the Federal Government. Prices paid by State and local governments increased 0.7 percent after increasing 1.8 percent; the slowdown was accounted for by durable goods and by services (including employee compensation).

The price index for GDP, which measures prices paid for goods and services produced in the United States, increased 2.2 percent after increasing 2.1 percent. This index differs from the price index for gross domestic purchases because it includes prices of exports and excludes prices of imports. Prices of exports increased 1.0 percent after increasing 0.6 percent; prices of imports increased 0.3 percent after decreasing 2.7 percent.

Personal income

Real disposable personal income (DPI) increased 5.2 percent in the fourth quarter after increasing 1.6 percent in the third (chart 3). The acceleration was more than accounted for by a pickup in current-dollar DPI, which increased 7.6 percent after increasing 2.7 percent. The personal saving rate—saving as a percentage of current-dollar DPI—increased 0.3 percentage point, to 4.1 percent.

Personal income increased \$97.1 billion in the fourth quarter after increasing \$39.5 billion in the third (table 5). Flood and drought adjustments reduced personal income by about \$3 billion in the fourth quarter and about \$12 billion in the third.

Most of the step-up in personal income was accounted for by farm proprietors' income, which increased \$27.6 billion after decreasing \$22.2 billion. Federal subsidy payments to farm proprietors increased \$14.5 billion after decreasing \$11.0 billion; the increase reflected flood- and drought-related payments, Conservation Reserve Program payments, and deficiency payments. (Conservation Reserve Program payments and deficiency payments compensate farmers who remove land from production; deficiency payments are made when the market price of a crop is, or is projected to be, below the Federal target price.) Adjust-

ments for the floods and drought reduced farm proprietors' income \$3.2 billion in the fourth quarter after reducing it \$9.3 billion in the third. Excluding subsidies and the adjustments for the effects of the floods and drought, farm proprietors' income increased \$7.0 billion in the fourth quarter after decreasing \$1.9 billion in the third; crop prices and crop production both contributed to the upswing.

Table 5.—Personal Income and Its Disposition

[Billions of dollars; seasonally adjusted at annual rates]

| | Level | Chang | je from pr | eceding q | uarter |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| | 1993: IV | | 19 | 93 | |
| | 1995. 10 | ļ | II | III | IV |
| Wage and salary disbursements Commodity-producing industries Manufacturing Other Distributive industries Service industries Government | 3,149.2 779.0 587.5 191.5 719.2 1,055.5 595.5 | -121.5 -42.6 -42.3 3 -27.0 -61.8 9.9 | 108.4 24.4 20.6 3.8 26.2 55.6 2.2 | 32.7 4.3 1.2 3.1 5.3 16.6 6.5 | 33.8 9.6 6.0 3.6 4.8 16.7 2.7 |
| Other labor income | 362.9 | 7.0 | 8.1 | 8.1 | 8.2 |
| Proprietors' income with IVA and CCAdj | 462.4 52.4 410.1 | 12.9 8.1 4.8 | -4.7 -8.7 4.0 | -16.9 -22.2 5.2 | 39.9 27.6 12.5 |
| Rental income of persons with CCAdj Personal dividend income Personal interest income | 17.9 159.4 699.2 | 8.7 4.7 .9 | 5.2 .8 –2.3 | 1.0 1.2 2.6 | 4.2 .4 3.5 |
| Transfer payments to persons | 927.9 | 17.0 | 11.1 | 13.0 | 9.4 |
| Less: Personal contributions for social insurance | 269.2 | 3.3 | 7.9 | 2.3 | 2.4 |
| Personal income | 5,509.8 | -73.6 | 118.5 | 39.5 | 97.1 |
| Less: Personal tax and nontax payments | 699.1 | -13.6 | 23.9 | 8.0 | 10.1 |
| Equals: Disposable personal income | 4,810.7 | -60.1 | 94.7 | 31.5 | 87.0 |
| Less: Personal outlays | 4,615.5 | 41.8 | 63.9 | 60.4 | 71.5 |
| Equals: Personal saving | 195.2 | -101.8 | 30.8 | -29.0 | 15.5 |
| Addenda: Special factors in personal income: | | | | | |
| In wages and salaries: Federal Government and Postal Service pay adjustments Profit sharing and bonus pay (including accelerated bonuses) | | 6.4 -164.6 | -2.0 79.8 | 1.6 0 | -1.0 .4 |
| In farm proprietors' income: Agricultural subsidy payments Uninsured losses to residential and business property and | | 8.3 | -7.4 | -11.0 | 14.5 |
| crop losses due to Midwest floods and Southeast drought 1 | | 0 | 0 | -9.3 | 6.1 |
| Uninsured losses to business property due to Midwest floods ¹ | | 0 | 0 | 7 | .7 |
| In rental income of persons with CCAdj: Uninsured losses to nonfarm residential and business property due to Midwest floods 1 | | 0 | 0 | -1.9 | 1.9 |
| In transfer payments to persons: Social security retroactive payments Cost-of-living increases in Federal transfer payments Emergency unemployment compensation payments Midwest floods | | -1.1 10.8 2 0 | 0 0 8 0 | 0 0 .2 .3 | 1.1 0 -3.0 1 |
| In personal contributions for social insurance: Social security rate and base changes and increase in premium for supplementary medical insurance | | 3.9 | 0 | 0 | 0 |

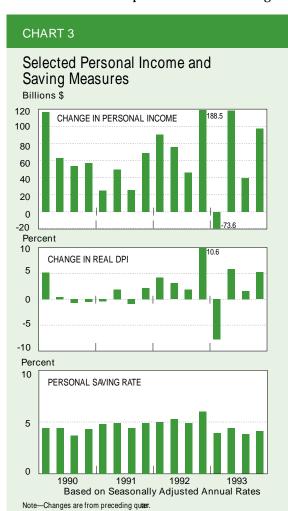
NOTE.-Most dollar levels are found in table 2.1 of the "Selected NIPA Tables."

Nonfarm proprietors' income increased \$12.5 billion after increasing \$5.2 billion. The acceleration reflected pickups in construction and real estate.

Wage and salary disbursements increased \$33.8 billion after increasing \$32.7 billion. Wages and salaries in private industries increased more than in the third quarter; the step-up was concentrated in manufacturing industries. Government wages and salaries increased less than in the third quarter.

Rental income of persons increased \$4.2 billion after increasing \$1.0 billion. In the third quarter, rental income was reduced \$1.9 billion by a flood adjustment for uninsured losses of nonfarm residential property. Excluding this adjustment, rental income increased \$2.3 billion after increasing \$2.9 billion.

Transfer payments increased \$9.4 billion after increasing \$13.0 billion. Retroactive social security payments to recent retirees accounted for \$1.1 billion of the fourth-quarter increase. Emergency



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

IVA Inventory valuation adjustment

CCAdj Capital consumption adjustment

^{1.} These adjustments, prepared by BEA, reflect the effects of disasters that are not adequately captured in the source data; they are not estimates of the total impact of the disasters.

unemployment benefits decreased \$3.0 billion in the fourth quarter.

Other labor income, personal dividend income, and personal interest income increased about as much in the fourth quarter as in the third. Personal contributions for so-

cial insurance, which are subtracted in the derivation of the personal income total, also increased about the same amount in both quarters. Personal tax and nontax payments increased \$10.1 billion after increasing \$8.0 billion.

NATIONAL INCOME AND PRODUCT ACCOUNTS

Selected NIPA Tables

New estimates in this issue: "Advance" estimates for the fourth quarter of 1993.

The selected set of national income and product accounts (NIPA) tables shown in this section presents quarterly estimates, which are updated monthly. (In most tables, the annual estimates are also shown.) These tables are available on the day of the gross domestic product (GDP) news release on printouts and diskettes on a subscription basis or from the Commerce Department's Economic Bulletin Board. For order information, write to the National Income and Wealth Division (BE-54), Bureau of Economic Analysis, Washington, DC 20230 or call (202) 606-5304.

Tables containing the estimates for 1929–88 are available in the two-volume set *National Income and Product Accounts of the United States*; see inside back cover for order information. For 1989, the estimates for most series are in the July 1992 Survey of Current Business; the estimates for series in tables 3.15–3.20 and 9.1–9.6 are in the September 1992 Survey. For 1990–92, the estimates for most series are in the August 1993 Survey; the estimates for series in tables 1.15, 1.16, 3.15–3.20, 7.15, and 9.1–9.6 are in the September 1993 Survey. The September 1993 issue also contains quantity and price indexes and their associated percent changes beginning with 1988, as well as summary NIPA series back to 1929. NIPA tables are also available, most beginning with 1929, on diskettes or magnetic tape. For more information on the presentation of the estimates, see "A Look at How BEA Presents the NIPA's" in the February 1993 Survey.

Note.—This section of the Survey is prepared by the National Income and Wealth Division and the Government Division.

Table 1.1.—Gross Domestic Product

[Billions of dollars]

| | | | Seasonally adjusted at annual rates | | | | | | |
|--------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------|-------------------------|----------------------------------|-----------------------------|----------------------------------|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | |
| | | | III | IV | - 1 | II | III | IV | |
| Gross domestic product | 6,038.5 | 6,374.0 | 6,059.5 | 6,194.4 | 6,261.6 | 6,327.6 | 6,395.9 | 6,510.8 | |
| Personal consumption expenditures | 4,139.9 | 4,390.6 | 4,157.1 | 4,256.2 | 4,296.2 | 4,359.9 | 4,419.1 | 4,487.4 | |
| Durable goods Nondurable goods Services | | | 1,305.7 | 1,331.7 | | 1,344.8 | 541.9 1,352.4 2,524.8 | 561.9 1,368.4 2,557.2 | |
| Gross private domestic investment | 796.5 | 892.0 | 802.2 | 833.3 | 874.1 | 874.1 | 884.0 | 935.8 | |
| Fixed investment | 789.1 565.5 172.6 | 875.2 622.9 178.6 | 792.5 569.2 170.8 | 821.3 579.5 171.1 | 839.5 594.7 172.4 | 861.0 619.1 177.6 | 876.3 624.9 179.1 | 924.1 653.0 185.2 | |
| equipment Residential Change in business | 392.9 223.6 | 444.4 252.3 | 398.4 223.3 | 408.3 241.8 | 244.9 | 441.6 241.9 | 445.8 251.3 | 467.8 271.1 | |
| inventories Nonfarm Farm | 7.3 2.3 5.0 | 16.8 23.1 –6.3 | 9.7 4.4 5.3 | 12.0 9.5 2.4 | 34.6 33.0 1.5 | | 7.7 22.6 –14.9 | 11.7 19.9 –8.2 | |
| Net exports of goods and services | -29.6 | -65.7 | -38.8 | -38.8 | -48.3 | -65.1 | -71.9 | -77.7 | |
| ExportsImports | 640.5 670.1 | 660.1 725.8 | 641.1 679.9 | 654.7 693.5 | 651.3 699.6 | 660.0 725.0 | 653.2 725.1 | 675.8 753.5 | |
| Government purchases | 1,131.8 | 1,157.1 | 1,139.1 | 1,143.8 | 1,139.7 | 1,158.6 | 1,164.8 | 1,165.3 | |
| Federal National defense Nondefense State and local | 448.8 313.8 135.0 683.0 | 443.4 303.6 139.8 713.7 | 452.8 316.7 136.1 686.2 | | | 447.5 307.6 140.0 711.1 | | 439.7 300.0 139.7 725.6 | |

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

Table 1.2.—Gross Domestic Product in Constant Dollars

[Billions of 1987 dollars]

| [Billions of 1987 dollars] | | | | | | | | | | | |
|--------------------------------------------------------|----------------------------------|-------------------------|----------------------------------|----------------------------------|-----------------------------|----------------------------------|----------------|----------------------------------|--|--|--|
| | | | S | Seasonall | y adjuste | ed at ann | nual rates | ; | | | |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | | | |
| | | | III | IV | I | Ш | III | IV | | | |
| Gross domestic product | 4,986.3 | 5,132.7 | 4,998.2 | 5,068.3 | 5,078.2 | 5,102.1 | 5,138.3 | 5,212.1 | | | |
| Personal consumption expenditures | 3,341.8 | 3,452.5 | 3,350.9 | 3,397.2 | 3,403.8 | 3,432.7 | 3,469.6 | 3,503.9 | | | |
| Durable goods Nondurable goods Services | 456.6 1,062.9 1,822.3 | 1,088.1 | 1,062.9 | 1,081.8 | 471.9 1,076.0 1,855.9 | 1,083.1 | 1,093.0 | 509.9 1,100.1 1,893.9 | | | |
| Gross private domestic investment | 732.9 | 820.9 | 739.6 | 763.0 | 803.0 | 803.6 | 813.4 | 863.6 | | | |
| Fixed investment | 726.4 529.2 150.6 | 805.5 591.3 151.4 | 730.0 533.8 148.8 | 754.3 543.7 148.0 | 562.3 | 790.6 584.3 151.1 | | 851.0 623.8 155.1 | | | |
| equipment Residential Change in business | 378.6 197.1 | 439.9 214.2 | 385.1 196.2 | 395.7 210.6 | 211.4 | 433.2 206.2 | 212.1 | 468.7 227.2 | | | |
| inventories Nonfarm Farm | 6.5 2.7 3.8 | 15.4 21.3 –5.9 | | 8.7 7.5 1.2 | 29.3 | 13.0 17.1 –4.1 | | 12.7 19.4 –6.7 | | | |
| Net exports of goods and services | -33.6 | -79.3 | -42.5 | -38.8 | -59.9 | -75.2 | -86.3 | -95.6 | | | |
| Exports | 578.0 611.6 | 596.4 675.7 | 579.3 621.8 | 591.6 630.3 | | 593.2 668.4 | | 612.5 708.1 | | | |
| Government purchases | 945.2 | 938.6 | 950.2 | 946.9 | 931.3 | 941.1 | 941.7 | 940.1 | | | |
| Federal National defense Nondefense State and local | 373.0 261.2 111.8 572.2 | | 377.0 264.4 112.5 573.2 | 373.7 261.3 112.4 573.2 | | 359.4 246.4 113.0 581.6 | 240.1 113.7 | 349.8 238.2 111.6 590.4 | | | |

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

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

| | | | 5 | Seasonal | y adjuste | ed at ann | nual rates | 3 |
|-------------------------------------------------------|----------------|--------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Gross domestic product | 6,038.5 | 6,374.0 | 6,059.5 | 6,194.4 | 6,261.6 | 6,327.6 | 6,395.9 | 6,510.8 |
| Final sales of domestic product | 6,031.2 7.3 | | | 6,182.5 12.0 | | | | |
| Goods ¹ | | | | 2,377.6 | | | | |
| Final sales Change in business inventories | 2,305.5 7.3 | · | , | 2,365.6 12.0 | <u> </u> | , | , | ĺ . |
| Durable goods Final sales Change in business | 977.9 975.8 | 1,047.7 1,034.6 | 984.1 978.4 | 1,007.1 1,008.3 | 1,018.6 1,003.5 | 1,040.5 1,037.8 | 1,047.7 1,032.9 | 1,083.8 1,064.3 |
| inventories | 2.0 | 13.0 | 5.7 | -1.2 | 15.0 | 2.7 | 14.8 | 19.5 |
| Nondurable goods Final sales Change in business | | | | 1,370.5 1,357.3 | | | | |
| inventories | 5.3 | 3.8 | 4.0 | 13.2 | 19.5 | 10.4 | -7.2 | -7.7 |
| Services 1 | 3,221.1 | 3,409.5 | 3,239.3 | 3,296.1 | 3,341.8 | 3,388.1 | 3,437.8 | 3,470.3 |
| Structures | 504.6 | 544.6 | 501.9 | 520.8 | 522.4 | 531.5 | 548.7 | 575.8 |

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

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

[Billions of dollars]

| Gross domestic product | 6,038.5 | 6,374.0 | 6,059.5 | 6,194.4 | 6,261.6 | 6,327.6 | 6,395.9 | 6,510.8 |
|-----------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Less: Exports of goods and services | 640.5 | 660.1 | 641.1 | | | | 653.2 | |
| services | 670.1 | 725.8 | 679.9 | 693.5 | 699.6 | 725.0 | 725.1 | 753.5 |
| Equals: Gross domestic purchases ¹ | 6,068.2 | 6,439.7 | 6,098.3 | 6,233.2 | 6,309.9 | 6,392.7 | 6,467.8 | 6,588.5 |
| Less: Change in business inventories | 7.3 | 16.8 | 9.7 | 12.0 | 34.6 | 13.1 | 7.7 | 11.7 |
| Equals: Final sales to domestic purchasers 2 | 6,060.8 | 6,422.9 | 6,088.6 | 6,221.2 | 6,275.4 | 6,379.5 | 6,460.1 | 6,576.7 |

^{1.} Purchases by U.S. residents of goods and services wherever produced. 2. Final sales to U.S. residents of goods and services wherever produced.

Table 1.7.—Gross Domestic Product by Sector

[Billions of dollars]

| Gross domestic product | 6,038.5 | 6,374.0 | 6,059.5 | 6,194.4 | 6,261.6 | 6,327.6 | 6,395.9 | 6,510.8 |
|--------------------------------------------------------|----------------|----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Business | 5,114.4 | 5,400.6 | 5,130.2 | 5,254.4 | 5,303.0 | 5,359.0 | 5,416.6 | 5,523.7 |
| Nonfarm | | 81.3 | 4,499.2 529.5 85.8 | 4,639.6 499.1 83.6 | 4,674.0 510.8 83.8 | 4,751.0 512.7 83.3 | 4,812.8 517.4 73.2 | 4,903.1 522.3 85.0 |
| Households and institutions | 267.0 | 286.3 | 269.6 | 275.7 | 280.3 | 284.7 | 288.1 | 292.3 |
| Private households Nonprofit institutions | 10.1 256.9 | 11.1 275.2 | | | | 11.0 273.7 | 11.3 276.8 | |
| General government | 657.1 | 687.1 | 659.8 | 664.3 | 678.4 | 683.9 | 691.2 | 694.7 |
| FederalState and local | 199.8 457.3 | 207.0 480.1 | 200.0 459.7 | 198.7 465.6 | | 206.2 477.7 | 208.3 483.0 | |
| Addendum: Gross domestic business product less housing | 4,608.9 | | | | | | | |

Table 1.4.—Gross Domestic Product by Major Type of Product in Constant Dollars

[Billions of 1987 dollars]

| | | | 5 | Seasonal | ly adjuste | ed at ann | nual rates | 3 |
|----------------------------------------------------------------------|-----------------------|---------|---------|---------------------|--------------------|--------------------|----------------------------|----------------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | ı | Ш | III | IV |
| Gross domestic product | 4,986.3 | 5,132.7 | 4,998.2 | 5,068.3 | 5,078.2 | 5,102.1 | 5,138.3 | 5,212.1 |
| Final sales of domestic product | 4,979.8 6.5 | | | | | | 5,131.8 6.5 | |
| Goods ¹ | 2,005.7 | 2,081.3 | 2,011.0 | 2,057.7 | 2,060.2 | 2,069.1 | 2,074.9 | 2,121.0 |
| Final sales Change in business inventories | 1,999.2 6.5 | | | | | | 2,068.5 6.5 | |
| Durable goods Final sales Change in business inventories | 914.0 911.7 2.4 | 968.1 | 915.2 | 941.8 942.6 8 | | 964.9 | 968.7 | 1,019.0 1,000.7 18.3 |
| Nondurable goods Final sales Change in business inventories | | 1,097.8 | 1,086.2 | 1,116.0 1,106.4 | 1,109.0 1,092.7 | 1,100.2 1,091.1 | 1,092.4 1,099.8 -7.4 | 1,107.6 |
| Services 1 | 2,534.7 | 2,586.2 | 2,544.8 | 2,556.5 | 2,565.3 | 2,577.5 | 2,596.7 | 2,605.5 |
| Structures | 445.8 | 465.1 | 442.3 | 454.2 | 452.7 | 455.5 | 466.6 | 485.6 |

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

Table 1.6.—Relation of Gross Domestic Product, Gross Domestic Purchases, and Final Sales to Domestic Purchasers in Constant **Dollars**

| Gross domestic product | 4,986.3 | 5,132.7 | 4,998.2 | 5,068.3 | 5,078.2 | 5,102.1 | 5,138.3 | 5,212.1 |
|-----------------------------------------------|----------------|---------|---------|---------|---------|---------|---------|----------------|
| Less: Exports of goods and services | 578.0 611.6 | | | | | | | 612.5 708.1 |
| Equals: Gross domestic purchases ¹ | 5,019.9 | 5,211.9 | 5,040.7 | 5,107.1 | 5,138.1 | 5,177.4 | 5,224.6 | 5,307.7 |
| Less: Change in business inventories | 6.5 | 15.4 | 9.6 | 8.7 | 29.3 | 13.0 | 6.5 | 12.7 |
| Equals: Final sales to domestic purchasers 2 | 5,013.4 | 5,196.6 | 5,031.1 | 5,098.4 | 5,108.8 | 5,164.3 | 5,218.1 | 5,295.0 |

^{1.} Purchases by U.S. residents of goods and services wherever produced. 2. Final sales to U.S. residents of goods and services wherever produced.

Table 1.8.—Gross Domestic Product by Sector in Constant Dollars [Billions of 1987 dollars]

| Gross domestic product | 4,986.3 | 5,132.7 | 4,998.2 | 5,068.3 | 5,078.2 | 5,102.1 | 5,138.3 | 5,212.1 |
|-------------------------------------------------------------------|----------------|--------------------------|------------------|------------------|---------|--------------------------|--------------------------|--------------------------|
| Business | 4,267.6 | 4,404.3 | 4,277.9 | 4,346.2 | 4,353.9 | 4,374.1 | 4,408.4 | 4,480.8 |
| Nonfarm Nonfarm less housing Housing Farm Statistical discrepancy | | 3,910.2 405.3 73.9 | 3,782.9 399.6 | 3,839.3 400.7 | 78.2 | 3,883.7 404.4 76.2 | 3,924.0 406.1 67.5 | 3,988.3 408.1 73.6 |
| Households and institutions | 209.1 | 217.0 | 210.3 | 212.4 | 213.5 | 216.8 | 218.4 | 219.5 |
| Private households Nonprofit institutions | 8.8 200.4 | | 8.9 201.4 | | | | | |
| General government | 509.5 | 511.3 | 510.0 | 509.8 | 510.8 | 511.3 | 511.5 | 511.8 |
| FederalState and local | 150.5 359.0 | | 150.1 360.0 | 148.8 361.0 | | | | |
| Addendum: Gross domestic business product less housing | 3,864.9 | | | | | | | |

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

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

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

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

Table 1.9.—Relation of Gross Domestic Product, Gross National Product, Net National Product, National Income, and Personal Income

| | | | | Seasonall | y adjuste | ed at ann | nual rates | 3 |
|--------------------------------------------------------------------------|-------------------------------|---------------|-------------------------------|-------------------------------|----------------|----------------|----------------|------------|
| | 1992 | 1993 | | 92 | , 43,451 | 19 | | - |
| | 1002 | 1000 | - III | IV | 1 | l II | l III | IV |
| Gross domestic product | 6 038 5 | 6 374 0 | 6 059 5 | 6 194 4 | 6,261.6 | 6 327 6 | 6 395 9 | 6 510 8 |
| Plus: Receipts of factor | 0,000.0 | 0,014.0 | 0,000.0 | 0,10-11-1 | 0,20110 | 0,021.0 | 0,000.0 | 0,010.0 |
| income from the rest of the world ¹ | 129.2 | | 127.3 | 122.3 | 122.8 | 131.9 | 135.1 | |
| income to the rest of the world 2 | 121.9 | | 119.5 | 124.8 | 122.4 | 132.3 | 128.7 | |
| Equals: Gross national product | 6,045.8 | | 6,067.3 | 6,191.9 | 6,262.1 | 6,327.1 | 6,402.3 | |
| Less: Consumption of fixed capital | 657.9 | 671.2 | 714.6 | 648.0 | 663.2 | 663.3 | 679.7 | 678.7 |
| consumption allowances Less: Capital consumption | 605.7 | 630.0 | 633.7 | 612.1 | 622.3 | 624.8 | 636.3 | 636.4 |
| adjustment | -52.1 | -41.2 | -80.9 | -36.0 | -40.9 | -38.4 | -43.4 | -42.2 |
| Equals: Net national product | 5,387.9 | | 5,352.8 | 5,543.9 | 5,598.8 | 5,663.9 | 5,722.6 | |
| Less: Indirect business tax and nontax liability Business transfer | 502.8 | 530.5 | 504.8 | 515.7 | 515.6 | 526.2 | 532.4 | 547.9 |
| payments Statistical discrepancy Plus: Subsidies less current | 27.6 23.6 | 28.0 | 27.8 15.7 | 28.1 32.1 | 27.0 34.4 | 27.8 12.0 | 28.4 13.3 | |
| surplus of government enterprises | 2.7 | 7.2 | -3.7 | 7.7 | 17.1 | 6.1 | -5.3 | 10.7 |
| Equals: National income | 4,836.6 | | 4,800.8 | 4,975.8 | 5,038.9 | 5,104.0 | 5,143.2 | |
| Less: Corporate profits with inventory valuation and capital consumption | | | | | | | | |
| adjustments | 407.2 442.0 | | 367.5 440.1 | 439.5 447.7 | 432.1 450.1 | 458.1 443.2 | 468.5 444.6 | |
| social insurance Wage accruals less | 555.6 | 585.3 | 556.6 | 564.6 | 568.9 | 585.9 | 590.5 | 596.0 |
| disbursements Plus: Personal interest income Personal dividend | -20.0 694.3 | 20.0 695.8 | 0 692.2 | -80.0 694.5 | 80.0 695.4 | 0 693.1 | 0 695.7 | 0 699.2 |
| income Government transfer | 140.4 | 158.3 | 144.9 | 152.3 | 157.0 | 157.8 | 159.0 | 159.4 |
| payments to persons | 836.8 | 889.7 | 844.3 | 855.4 | 873.0 | 883.7 | 896.4 | 905.6 |
| payments to persons | 21.6 | 21.9 | 21.8 | 22.0 | 21.4 | 21.8 | 22.1 | 22.3 |
| Equals: Personal income | 5,144.9 | 5,387.6 | 5,139.8 | 5,328.3 | 5,254.7 | 5,373.2 | 5,412.7 | 5,509.8 |
| Addenda: Net domestic product Domestic income Gross national income | 5,380.7 4,829.4 6,022.2 | 5,702.8 | 5,344.9 4,793.0 6,051.7 | 5,546.4 4,978.3 6,159.9 | | 5,104.5 | 5,136.8 | |

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 1.10.—Relation of Gross Domestic Product, Gross National Product, Net National Product, and National Income in Constant Dollars

[Billions of 1987 dollars]

| | | | 5 | Seasonal | y adjuste | ed at anr | nual rates | 8 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|----------|-----------|-----------|------------|---------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | ı | II | III | IV |
| Gross domestic product | 4,986.3 | 5,132.7 | 4,998.2 | 5,068.3 | 5,078.2 | 5,102.1 | 5,138.3 | 5,212.1 |
| Plus: Receipts of factor income from the rest of the world ¹ Less: Payments of factor income to the rest of the world ² | | | | | | | | |
| Equals: Gross national product | 4,994.0 | | 5,006.4 | 5,068.4 | 5,080.7 | 5,104.1 | 5,145.8 | |
| Less: Consumption of fixed capital | 595.0 | 598.6 | 643.7 | 584.0 | 595.0 | 592.5 | 604.4 | 602.6 |
| Equals: Net national product | 4,399.0 | | 4,362.7 | 4,484.4 | 4,485.8 | 4,511.6 | 4,541.4 | |
| Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises | 402.0 | 417.3 | 403.7 | 409.3 | 411 G | 414.9 | 440.4 | 423.6 |
| Statistical discrepancy | | 417.3 | | | | | | 423.0 |
| Equals: National income | | | | 4,048.6 | 4,045.9 | 4,087.0 | 4,111.4 | |
| Addenda: Net domestic product Domestic income Gross national income | 3,969.5 | | 3,937.7 | 4,048.5 | 4,043.4 | 4,085.0 | 4,103.9 | 4,609.5 |

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 1.11.—Command-Basis Gross National Product in Constant Dollars

| Gross national product | 4,994.0 | 5,006.4 | 5,068.4 | 5,080.7 | 5,104.1 | 5,145.8 | |
|---------------------------------------------------------------------------------|---------|-------------|---------|---------|---------|---------|--|
| Less: Exports of goods and services and receipts of factor income from the rest | | | | | | | |
| of the world Plus: Command-basis exports of goods and services and | 683.5 | 683.0 | 690.4 | 686.4 | 698.1 | 699.0 | |
| receipts of factor income 1 . | 692.9 | 689.5 | 692.4 | 700.4 | 712.5 | 718.1 | |
| Equals: Command-basis gross national product | 5,003.4 | 5,012.9 | 5,070.3 | 5,094.8 | 5,118.4 | 5,164.9 | |
| Addendum: Terms of trade ² | 102.1 | 101.0 | 100.3 | 102.0 | 102.1 | 102.7 | |

^{1.} Exports of goods and services and receipts of factor income deflated by the implicit price deflator for

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

imports of goods and services and payments of factor income.

2. Ratio of the implicit price deflator for exports of goods and services and receipts of factor income to the corresponding implicit price deflator for imports with the decimal point shifted two places to the right.

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

| | | Dimono | UI UUIIAI | ٥, | | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|-----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|-----------------------------|
| | | | 9 | Seasonal | y adjuste | ed at anr | nual rates | 3 |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| National income | 4,836.6 | | 4,800.8 | 4,975.8 | 5,038.9 | 5,104.0 | 5,143.2 | |
| Compensation of employees | 3,582.0 | 3,772.1 | 3,603.6 | 3,658.6 | 3,705.1 | 3,750.6 | 3,793.9 | 3,839.0 |
| Wages and salaries Government Other | 2,953.1 567.5 2,385.6 | 3,100.4 589.7 2,510.7 | 2,970.7 569.7 2,401.0 | 3,015.8 574.2 2,441.6 | 3,054.3 584.1 2,470.2 | 3,082.7 586.3 2,496.3 | 3,115.4 592.8 2,522.6 | 3,149.2 595.5 2,553.7 |
| Supplements to wages and salaries Employer contributions | 629.0 | 671.7 | 632.9 | 642.8 | 650.7 | 668.0 | 678.5 | 689.8 |
| for social insurance Other labor income | 306.3 322.7 | 321.0 350.7 | 306.9 326.0 | 311.3 331.5 | 312.2 338.5 | 321.4 346.6 | 323.8 354.7 | 326.8 362.9 |
| Proprietors' income with IVA and CCAdj | 414.3 | 442.1 | 408.1 | 431.2 | 444.1 | 439.4 | 422.5 | 462.4 |
| Farm | 43.7 | 45.0 | 36.8 | 47.6 | 55.7 | 47.0 | 24.8 | 52.4 |
| Proprietors' income with IVA CCAdj | 51.2 -7.5 | 52.1 -7.1 | 44.9 -8.2 | 54.8 -7.2 | 62.8 -7.1 | 54.1 -7.1 | 32.1 -7.3 | 59.4 -7.0 |
| Nonfarm Proprietors' income IVA | 370.6 358.0 5 | 397.1 385.2 -1.0 | 371.3 359.4 8 | 383.6 362.2 7.8 | 388.4 376.4 -1.6 | 392.4 380.3 -1.2 | 397.6 385.4 4 | 410.1 398.7 9 |
| CCAdj | 13.1 | 13.0 | 12.7 | 13.7 | 13.7 | 13.3 | 12.7 | 12.3 |
| Rental income of persons with CCAdj | -8.9 | 13.0 | -18.5 | -1.2 | 7.5 | 12.7 | 13.7 | 17.9 |
| Rental income of persons CCAdj | 57.4 -66.3 | 75.4 –62.5 | 75.7 -94.2 | 57.4 -58.6 | 71.3 –63.8 | 73.2 -60.4 | 77.2 -63.5 | 80.0 -62.1 |
| Corporate profits with IVA and CCAdj | 407.2 | | 367.5 | 439.5 | 432.1 | 458.1 | 468.5 | |
| Corporate profits with IVA Profits before tax Profits tax liability Profits after tax Dividends Undistributed profits | 390.1 395.4 146.3 249.1 150.5 98.6 -5.3 | | 350.1 357.9 130.1 227.8 155.2 72.7 -7.8 | 414.8 409.9 155.0 254.9 162.9 92.0 4.9 | 407.0 419.8 160.9 258.9 167.5 91.4 –12.7 | 433.4 445.6 173.3 272.3 168.5 103.9 –12.2 | 443.8 169.5 274.3 169.7 | 170.4 |
| CCAdj | 17.1 | 24.3 | 17.4 | 24.7 | 25.1 | 24.7 | 23.8 | 23.6 |
| Net interest | 442.0 | | 440.1 | 447.7 | 450.1 | 443.2 | 444.6 | |
| Addenda: Corporate profits after tax with IVA and CCAdj Net cash flow with IVA and CAdj | 260.9 507.0 | | 237.4 492.5 | 284.5 518.2 | 271.2 505.9 | 284.8 521.5 | 299.1 543.3 | |
| Undistributed profits with IVA and CCAdj | 110.4 | | 82.3 | 121.7 | 103.7 | 116.3 | 129.3 | |
| Consumption of fixed capital Less: IVA Equals: Net cash flow | 396.6 -5.3 512.3 | 408.9 -7.8 | 410.3 -7.8 500.3 | 396.5 4.9 513.2 | 402.2 -12.7 518.7 | 405.2 -12.2 533.7 | 414.0 1.0 542.3 | 414.1 -7.2 |

Table 1.16.—Gross Domestic Product of Corporate Business in Current Dollars and Gross Domestic Product of Nonfinancial Corporate Business in Current and Constant Dollars

| | | | 9 | Seasonal | y adjuste | ed at ann | nual rates | S |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------|--------------------|
| | 1992 | 1993 | | 92 | ,,. | 19 | | |
| | | | III | IV | 1 | Ш | III | IV |
| | | | | | | | | |
| | | | | Billions o | uullais | | Г | |
| Gross domestic product of corporate business | 3,571.7 | | 3,558.4 | 3,668.8 | 3,678.4 | 3,759.2 | 3,803.8 | |
| Consumption of fixed capital | 396.6 | 408.9 | 410.3 | 396.5 | 402.2 | 405.2 | 414.0 | 414.1 |
| Net domestic product | 3,175.1 | | 3,148.1 | 3,272.3 | 3,276.2 | 3,354.0 | 3,389.8 | |
| Indirect business tax and nontax liability plus business transfer payments less subsidies | 359.6 | 378.7 | 361.0 | 368.3 | 365.1 | 377.2 | 380.4 | 392.3 |
| Domestic income | 2,815.5 | | 2,787.2 | | 2,911.1 | 2,976.8 | | |
| Compensation of employees | 2,337.4 1,940.9 | 2,460.1 | 2,351.8 1,952.4 | 2,390.3 | 2,408.2 2,002.8 | 2,448.7 | 2,475.7 | 2,507.9 |
| Supplements to wages and salaries | 396.5 | 421.8 | 399.4 | 406.3 | 405.3 | 419.7 | 427.0 | 435.1 |
| Corporate profits with IVA and CCAdj Profits before tax Profits tax liability Profits after tax Dividends | 344.9 333.2 146.3 186.9 127.3 | 401.9 385.4 171.7 213.8 153.8 | 306.0 296.4 130.1 166.3 128.4 | 384.8 355.2 155.0 200.2 147.4 | 373.0 360.7 160.9 199.8 156.7 | 400.0 387.5 173.3 214.3 152.9 | 381.1 169.5 211.6 | |
| Undistributed profits | 59.6 | 60.0 | 37.9 | 52.8 | 43.2 | 61.4 | | |
| IVA | -5.3 | -7.8 | -7.8 | 4.9 | -12.7 | -12.2 | 1.0 | _7.2 |
| Net interest | 17.1 133.2 | 24.3 | 17.4 129.4 | | 25.1 129.9 | 24.7 128.1 | 23.8 127.9 | 23.6 |
| Gross domestic product of financial corporate business | 328.3 | | 294.2 | 337.2 | 346.7 | 363.3 | 371.6 | |
| Gross domestic product of nonfinancial corporate business | 3,243.4 | | 3,264.2 | 3,331.6 | 3,331.7 | 3,395.9 | 3,432.2 | |
| Consumption of fixed capital | 352.7 | 362.3 | 366.1 | 351.7 | 356.8 | 359.0 | 367.0 | 366.3 |
| Net domestic product | 2,890.7 | | 2,898.2 | 2,979.9 | 2,975.0 | 3,036.8 | 3,065.1 | |
| Indirect business tax and nontax liability plus business transfer payments less subsidies | 327.7 | 345.5 | 329.1 | 336.0 | 333.0 | 344.0 | 347.0 | 357.9 |
| Domestic income | 2,563.1 | | 2,569.0 | | 2,642.0 | | | |
| Compensation of employees | 2,149.5 1,782.4 | 2,255.4 1,866.2 | 2,162.7 1,792.9 | 2,195.9 | | 2,244.7 | 2,267.1 | 2,294.9 1,893.9 |
| Supplements to wages and salaries Corporate profits with | 367.0 | 389.2 | 369.8 | 375.9 | 374.7 | 387.4 | 393.8 | 400.9 |
| IVA and CCAdj Profits before tax Profits tax liability Profits after tax | 278.3 255.1 98.2 156.9 | 314.8 286.8 114.9 171.8 | 272.7 251.8 95.3 156.5 | 314.1 273.2 105.8 167.4 | 292.1 268.4 106.4 162.0 | 315.0 291.2 117.6 173.6 | 281.8 112.5 169.3 | |
| Dividends Undistributed profits | 105.2 51.7 | 125.3 46.5 | 105.9 50.5 | 46.7 | 127.4 34.6 | 125.4 48.2 | 45.3 | |
| IVA CCAdj Net interest | -5.3 28.5 135.3 | –7.8 35.9 | -7.8 28.8 133.6 | | -12.7 36.4 134.9 | -12.2 36.0 133.1 | 1.0 35.4 132.8 | –7.2 35.7 |
| | Billions of 1987 dollars | | | | | | | |
| Gross domestic | | | | | | | | |
| product of nonfinancial corporate business | 2,822.3 | | 2,839.8 | 2,887.4 | 2,867.5 | 2,916.6 | 2,948.9 | |
| Consumption of fixed capital Net domestic product | 318.4 2,503.9 | 324.3 | 329.3 2,510.5 | 317.2 | 321.0 | 321.4 | 327.9 2,620.9 | 326.7 |
| payments less subsidies Domestic income | 258.7 2,245.2 | 270.2 | 260.5 2,250.0 | 264.5 2,305.7 | 265.7 2,280.8 | 268.4 2,326.8 | 271.6 2,349.3 | 275.1 |

Table 2.1.—Personal Income and Its Disposition

| | | Billions | or dollar | SJ | | | | |
|----------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| | | | 9 | Seasonal | y adjuste | ed at ann | nual rates | S |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Personal income | 5,144.9 | 5,387.6 | 5,139.8 | 5,328.3 | 5,254.7 | 5,373.2 | 5,412.7 | 5,509.8 |
| Wage and salary disbursements Commodity-producing | 2,973.1 | 3,080.4 | 2,970.7 | 3,095.8 | 2,974.3 | 3,082.7 | 3,115.4 | 3,149.2 |
| industriés Manufacturing Distributive industries | 756.5 577.6 682.0 | 763.6 577.2 706.4 | 751.6 573.3 682.5 | 783.3 602.0 709.9 | 740.7 559.7 682.9 | 765.1 580.3 709.1 | 769.4 581.5 714.4 | 779.0 587.5 719.2 |
| Service industries Government | | 1,020.8 589.7 | 966.8 569.7 | 1,028.4 574.2 | | 1,022.2 586.3 | 1,038.8 592.8 | 1,055.5 595.5 |
| Other labor income | 322.7 | 350.7 | 326.0 | 331.5 | 338.5 | 346.6 | 354.7 | 362.9 |
| Proprietors' income with inventory valuation and capital consumption adjustments Farm | 414.3 43.7 370.6 | 442.1 45.0 397.1 | 408.1 36.8 371.3 | 431.2 47.6 383.6 | 444.1 55.7 388.4 | 439.4 47.0 392.4 | 422.5 24.8 397.6 | 462.4 52.4 410.1 |
| Rental income of persons with capital consumption | | | | | | | | |
| adjustment | -8.9 | 13.0 | -18.5 | -1.2 | 7.5 | 12.7 | 13.7 | 17.9 |
| Personal dividend income Personal interest income | 140.4 694.3 | 158.3 695.8 | 144.9 692.2 | 152.3 694.5 | 157.0 695.4 | 157.8 693.1 | 159.0 695.7 | 159.4 699.2 |
| Transfer payments to | 034.0 | 033.0 | 032.2 | 004.0 | 033.4 | 030.1 | 000.1 | 033.2 |
| persons Old-age, survivors, disability, and health | 858.4 | 911.6 | 866.1 | 877.4 | 894.4 | 905.5 | 918.5 | 927.9 |
| insurance benefits Government unemployment | 413.9 | 438.2 | 416.6 | 420.8 | 433.1 | 435.0 | 439.4 | 445.4 |
| insurance benefits Veterans benefits Government employees | 39.2 19.3 | 34.0 20.0 | 39.7 18.8 | 37.8 19.0 | 34.5 20.0 | 34.4 20.2 | 35.1 20.1 | 32.0 19.7 |
| retirement benefits Other transfer payments Aid to families with | 108.3 277.7 | 115.4 303.9 | 108.4 282.7 | 110.2 289.7 | 112.8 294.0 | 114.6 301.3 | 116.4 307.5 | 117.9 312.9 |
| dependent children Other | 23.3 254.4 | 23.9 280.0 | 23.5 259.2 | 23.5 266.2 | 23.6 270.4 | 24.1 277.2 | 24.0 283.5 | 24.0 289.0 |
| Less: Personal contributions for social insurance | 249.3 | 264.3 | 249.8 | 253.3 | 256.6 | 264.5 | 266.8 | 269.2 |
| Less: Personal tax and nontax payments | 644.8 | 681.6 | 642.8 | 670.7 | 657.1 | 681.0 | 689.0 | 699.1 |
| Equals: Disposable personal income | | 4,706.0 | - | | | - | | |
| Less: Personal outlays | 4,261.5 | 4,515.7 | 4,277.3 | 4,377.9 | 4,419.7 | 4,483.6 | 4,544.0 | 4,615.5 |
| Personal consumption expenditures Interest paid by persons | 4,139.9 111.1 | 4,390.6 114.0 | 4,157.1 110.5 | 4,256.2 111.3 | 4,296.2 112.5 | 4,359.9 112.7 | 4,419.1 114.1 | 4,487.4 116.7 |
| Personal transfer payments to rest of the world (net) | 10.4 | 11.0 | 9.7 | 10.5 | 11.0 | 11.0 | 10.8 | 11.4 |
| Equals: Personal saving | 238.7 | 190.3 | 219.6 | 279.7 | 177.9 | 208.7 | 179.7 | 195.2 |
| Addenda: Disposable personal income: | | | | | | | | |
| Total, billions of 1987 dollars Per capita: | 3,632.5 | 3,700.5 | | | 3,642.6 | , | 3,708.7 | 3,756.4 |
| Current dollars 1987 dollars Population (mid-period, | 17,615 14,219 | 18,222 14,329 | 17,577 14,169 | 18,153 14,490 | 17,876 14,163 | 18,196 14,326 | 18,265 14,341 | 18,549 14,484 |
| millions) Personal saving as percentage of disposable personal income | 255.5 5.3 | 258.3 4.0 | 255.8 4.9 | 256.6 6.0 | 257.2 3.9 | 257.9 4.4 | 258.6 3.8 | 259.3 4.1 |
| poroonal moonio | | 1.0 | 7.0 | 0.0 | 0.9 | 7.7 | 0.0 | |

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

Table 2.2.—Personal Consumption Expenditures by Major Type of Product

[Billions of dollars]

| | | | | Seasonal | y adjuste | ed at ann | nual rates | ıal rates | |
|--------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------|------------------------------------------|------------------------------------------|----------------------------------|----------------------------------|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | |
| | | | III | IV | ı | II | III | IV | |
| Personal consumption expenditures | 4,139.9 | 4,390.6 | 4,157.1 | 4,256.2 | 4,296.2 | 4,359.9 | 4,419.1 | 4,487.4 | |
| Durable goods | 497.3 | 537.7 | 500.9 | 516.6 | 515.3 | 531.6 | 541.9 | 561.9 | |
| Motor vehicles and parts Furniture and household | 204.3 | | | | | | | 235.4 | |
| equipment Other | 194.5 98.5 | 211.7 103.6 | 196.5 101.0 | | 203.3 100.3 | 208.6 102.2 | 214.0 106.2 | 220.9 105.6 | |
| Nondurable goods | 1,300.9 | 1,350.2 | 1,305.7 | 1,331.7 | 1,335.3 | 1,344.8 | 1,352.4 | 1,368.4 | |
| Food | 633.7 228.2 103.4 13.8 321.8 | 658.3 237.1 103.6 15.1 336.1 | 631.7 230.7 105.8 13.9 323.6 | 105.2 13.9 | 648.2 233.1 106.0 15.1 332.9 | 654.1 235.2 103.6 14.9 337.2 | | | |
| Services | 2,341.6 | 2,502.7 | 2,350.5 | 2,407.9 | 2,445.5 | 2,483.4 | 2,524.8 | 2,557.2 | |
| Housing Household operation Electricity and gas Other household | 600.0 234.4 105.8 | 627.7 251.0 113.2 | 602.5 230.3 106.0 | | 617.6 245.7 111.1 | 625.1 246.7 109.8 | 631.1 255.2 116.4 | 636.9 256.3 115.6 | |
| operation Transportation Medical care Other | 128.7 155.4 628.4 723.5 | 137.7 170.2 680.6 773.3 | 124.3 153.0 634.9 729.7 | | 134.5 166.3 662.2 753.8 | 136.9 169.1 675.4 767.1 | 138.7 170.9 686.9 780.7 | 140.7 174.4 698.0 791.6 | |

Table 2.3.—Personal Consumption Expenditures by Major Type of Product in Constant Dollars

| Personal consumption expenditures 3,341.8 3,452.5 3,350.9 3,397.2 3,403.8 3,432.7 3 Durable goods 456.6 489.7 459.0 473.4 471.9 484.2 Motor vehicles and parts 182.3 191.7 180.6 188.6 185.7 191.3 Furniture and household equipment 194.8 216.3 197.1 204.2 206.5 212.4 Other 79.5 81.7 81.3 80.6 79.7 80.6 Nondurable goods 1,062.9 1,088.1 1,062.9 1,081.8 1,076.0 1,083.1 1 Food 520.5 531.2 518.2 529.3 526.7 528.6 Clothing and shoes 193.7 199.2 195.4 200.0 194.8 197.8 | | l . |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------|
| Motor vehicles and parts 182.3 191.7 180.6 188.6 185.7 191.3 Furniture and household equipment 194.8 216.3 197.1 204.2 206.5 212.4 Other 79.5 81.7 81.3 80.6 79.7 80.6 Nondurable goods 1,062.9 1,088.1 1,062.9 1,081.8 1,076.0 1,083.1 Food 520.5 531.2 518.2 529.3 526.7 528.6 | 3,469.6 | 3,503.9 |
| Furniture and household equipment 194.8 216.3 197.1 204.2 206.5 212.4 Other 79.5 81.7 81.3 80.6 79.7 80.6 Nondurable goods 1,062.9 1,088.1 1,062.9 1,081.8 1,076.0 1,083.1 1 Food 520.5 531.2 518.2 529.3 526.7 528.6 | 493.1 | 509.9 |
| Other 79.5 81.7 81.3 80.6 79.7 80.6 Nondurable goods 1,062.9 1,088.1 1,062.9 1,081.8 1,076.0 1,083.1 1 Food 520.5 531.2 518.2 529.3 526.7 528.6 | 189.9 | |
| Food | 219.4 83.7 | |
| | 1,093.0 | 1,100.1 |
| Clothing and shoes 193.7 199.2 195.4 200.0 194.8 197.8 Gasoline and oil 83.9 84.9 84.7 84.4 83.9 84.1 Fuel oil and coal 11.9 13.0 11.7 11.9 12.9 12.6 Other 252.9 259.8 252.7 256.2 257.7 259.9 | 532.6 200.6 86.2 13.2 260.4 | 203.7 85.3 13.2 |
| Services | 1,883.5 | 1,893.9 |
| Housing | 493.3 220.8 100.6 | 220.8 |
| operation | 120.2 126.5 | |
| Medical care | 465.1 | 468.6 |
| Other 554.4 574.5 554.9 561.7 566.8 571.8 | 577.9 | 581.4 |

Table 3.2.—Federal Government Receipts and Expenditures

| | | [2 | 0. 40.14. | ~] | | | | |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------|
| | | | 5 | Seasonal | ly adjuste | ed at anr | nual rates | 3 |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Receipts | 1,183.0 | | 1,169.1 | 1,221.1 | 1,218.4 | 1,268.0 | 1,275.9 | |
| Personal tax and nontax receipts | 490.8 478.0 11.3 1.4 | 521.2 506.7 13.0 1.5 | 489.5 476.7 11.4 1.4 | 511.8 498.3 12.1 1.4 | 502.1 489.1 11.6 1.5 | 520.7 506.0 13.2 1.5 | 527.1 512.7 12.8 1.5 | 535.0 519.0 14.5 1.5 |
| Corporate profits tax accruals Federal Reserve banks Other | 120.2 16.8 103.5 | | 107.0 16.2 90.8 | 127.1 15.8 111.3 | 132.4 15.7 116.7 | 142.4 15.3 127.2 | 139.3 15.1 124.2 | |
| Indirect business tax and nontax accruals | 81.3 46.8 18.3 16.2 | 87.4 50.3 19.9 17.2 | 81.1 46.8 18.7 15.7 | 83.5 46.5 19.1 18.0 | 81.5 47.4 18.8 15.3 | 86.2 48.5 20.4 17.3 | 86.7 48.8 20.0 17.8 | 95.2 56.6 20.3 18.3 |
| Contributions for social insurance | 490.7 | 517.9 | 491.4 | 498.7 | 502.3 | 518.7 | 522.8 | 527.6 |
| Expenditures | 1,459.3 | 1,493.4 | 1,459.8 | 1,485.3 | 1,481.9 | 1,490.6 | 1,488.5 | 1,512.5 |
| Purchases National defense Nondefense | 448.8 313.8 135.0 | 443.4 303.6 139.8 | 452.8 316.7 136.1 | 452.4 315.7 136.7 | 442.7 304.8 137.9 | 447.5 307.6 140.0 | 443.6 301.9 141.7 | 439.7 300.0 139.7 |
| Transfer payments (net) To persons To rest of the world (net) | 624.5 608.2 16.3 | 650.0 635.8 14.2 | 624.4 611.6 12.8 | 617.1 | 642.0 628.9 13.1 | 645.6 632.7 12.9 | 652.8 639.1 13.7 | 659.7 642.5 17.2 |
| Grants-in-aid to State and local governments | 171.4 | 185.8 | 173.7 | 176.7 | 176.1 | 182.8 | 188.6 | 195.8 |
| Net interest paid Interest paid To persons and business To rest of the world (net) Less: Interest received by government | 187.1 219.9 178.7 41.2 32.8 | 180.6 217.5 174.7 42.8 37.0 | 187.4 221.1 179.8 41.4 33.7 | 216.4 175.0 | 178.3 214.1 172.4 41.6 35.7 | 182.5 219.0 176.9 42.1 36.5 | 182.2 219.9 176.7 43.2 37.7 | 179.3 217.2 172.8 44.3 |
| Subsidies less current surplus of government enterprises . Subsidies | 27.5 31.7 4.1 | 33.6 36.2 2.6 | 21.4 25.5 4.1 | 33.2 36.1 2.9 | 42.9 43.7 .8 | 32.3 35.9 3.6 | 21.4 24.8 3.4 | |
| Less: Wage accruals less disbursements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surplus or deficit (–), national income and product accounts | -276.3 | | -290.7 | -264.2 | -263.5 | -222.6 | -212.7 | |
| Social insurance funds Other | 32.2 -308.5 | 41.7 | 31.3 -322.0 | | 30.2 -293.7 | 45.2 -267.8 | 44.7 -257.4 | 46.9 |

Table 3.3.—State and Local Government Receipts and Expenditures

| | | [Billions | of dollars | 5] | | | | |
|----------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | 5 | Seasonall | y adjuste | ed at ann | ual rates | ; |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | Ш | IV | I | II | III | IV |
| Receipts | 837.8 | | 839.0 | 861.6 | 860.2 | 881.0 | 894.2 | |
| Personal tax and nontax receipts | 154.0 116.7 18.3 19.0 | 160.3 120.8 19.7 19.9 | 153.3 115.7 18.5 19.1 | 158.8 120.8 18.8 19.2 | 155.0 116.4 19.2 19.5 | 160.3 121.0 19.5 19.8 | 162.0 122.1 19.8 20.0 | 164.1 123.6 20.2 20.3 |
| Corporate profits tax accruals | 26.0 | | 23.1 | 27.9 | 28.5 | 30.8 | 30.1 | |
| Indirect business tax and nontax accruals | 421.5 200.8 177.7 43.0 | 443.1 211.6 186.9 44.6 | 423.7 201.9 178.9 42.9 | 432.2 205.7 181.4 45.1 | 434.1 206.5 183.9 43.6 | 440.0 209.3 186.5 44.3 | 445.7 212.8 187.9 45.0 | 452.6 217.7 189.3 45.6 |
| Contributions for social insurance | 64.9 | 67.4 | 65.2 | 65.9 | 66.5 | 67.2 | 67.7 | 68.3 |
| Federal grants-in-aid | 171.4 | 185.8 | 173.7 | 176.7 | 176.1 | 182.8 | 188.6 | 195.8 |
| Expenditures | 830.6 | 885.2 | 837.8 | 848.0 | 859.4 | 880.0 | 895.9 | 905.5 |
| Purchases Compensation of employees Other | 683.0 457.3 225.7 | 713.7 480.1 233.6 | 686.2 459.7 226.5 | 691.4 465.6 225.7 | 697.0 472.1 224.9 | 711.1 477.7 233.4 | 721.2 483.0 238.3 | 725.6 487.6 237.9 |
| Transfer payments to persons | 228.6 | 253.9 | 232.8 | 238.4 | 244.1 | 251.0 | 257.2 | 263.1 |
| Net interest paid | -46.0 66.1 112.1 | -45.3 68.7 113.9 | -45.9 66.5 112.3 | -45.7 67.1 112.8 | -45.5 67.7 113.2 | -45.3 68.4 113.7 | -45.2 69.0 114.2 | -45.0 69.6 114.6 |
| Less: Dividends received by government | 10.2 | 10.7 | 10.3 | 10.5 | 10.5 | 10.7 | 10.8 | 10.9 |
| Subsidies less current surplus of government enterprises . Subsidies | -24.8 .4 25.2 | -26.5 .5 26.9 | -25.1 .4 25.6 | -25.5 .4 25.9 | -25.8 .4 26.2 | -26.2 .5 26.6 | -26.7 .5 27.1 | -27.3 .5 |
| Less: Wage accruals less disbursements | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surplus or deficit (–), national income and product accounts | 7.2 | | 1.2 | 13.5 | .8 | 1.1 | -1.7 | |
| Social insurance funds Other | 59.4 -52.2 | 58.6 | 59.5 -58.3 | 59.6 -46.0 | 59.0 -58.2 | 58.9 –57.8 | 58.5 -60.2 | 58.0 |

Table 3.7B.—Government Purchases by Type

| | | • | | • | | | | |
|----------------------------------------------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|
| | | | 8 | Seasonal | ly adjuste | ed at anr | nual rates | 3 |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Government purchases | 1,131.8 | 1,157.1 | 1,139.1 | 1,143.8 | 1,139.7 | 1,158.6 | 1,164.8 | 1,165.3 |
| Federal | 448.8 | 443.4 | 452.8 | 452.4 | 442.7 | 447.5 | 443.6 | 439.7 |
| National defense | 313.8 79.0 10.3 218.9 | 303.6 70.8 9.4 218.0 | 316.7 80.1 11.2 220.2 | 315.7 78.9 9.8 221.0 | 304.8 74.4 9.0 216.4 | 307.6 75.3 10.2 217.0 | 301.9 67.4 9.3 219.4 | 300.0 66.2 9.3 219.4 |
| employees Military Civilian Other services Structures | 135.7 90.7 45.0 83.2 5.6 | 137.0 91.0 46.0 81.0 5.2 | 135.6 90.7 44.9 84.6 5.3 | 133.7 89.2 44.5 87.3 6.0 | 137.2 91.5 45.7 79.1 5.0 | 136.4 91.2 45.2 80.6 5.0 | 137.9 90.7 47.2 81.5 5.8 | 136.5 90.5 46.0 82.9 5.0 |
| Nondefense Durable goods Nondurable goods Commodity Credit Corporation | 135.0 7.1 8.6 | 139.8 7.4 7.4 | 136.1 6.6 9.2 | 136.7 7.4 9.3 | 7.3 7.8 | 140.0 7.9 7.6 | 7.3 7.3 7.3 | 139.7 6.9 7.0 |
| inventory change Other nondurables Services Compensation of | 7 9.2 109.0 | 1 7.5 114.2 | 4 9.5 110.2 | 0 9.3 109.7 | 4 8.1 112.2 | 3 7.9 114.3 | 2 7.5 116.1 | .6 6.3 114.3 |
| employees Other services Structures | 64.1 44.9 10.3 | 69.9 44.3 10.8 | 64.5 45.7 10.2 | 65.0 44.7 10.3 | 69.0 43.2 10.5 | 69.8 44.6 10.1 | 70.4 45.7 11.0 | 70.6 43.7 11.5 |
| State and local | 683.0 | 713.7 | 686.2 | 691.4 | 697.0 | 711.1 | 721.2 | 725.6 |
| Durable goods Nondurable goods Services Compensation of | 37.6 60.2 485.3 | 39.3 62.2 506.6 | 37.9 61.1 487.5 | 493.5 | 499.6 | 39.2 63.0 504.4 | 39.7 62.3 509.9 | 39.8 62.0 512.8 |
| employees Other services Structures | 457.3 28.0 99.8 | 480.1 26.5 105.5 | 459.7 27.8 99.8 | 27.9 | | 477.7 26.6 104.5 | 483.0 26.9 109.4 | 487.6 25.1 111.0 |

Table 3.10.—National Defense Purchases

[Billions of dollars]

| National defense purchases | 313.8 | 303.6 | 316.7 | 315.7 | 304.8 | 307.6 | 301.9 | 300.0 |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| Durable goods | 79.0 | 70.8 | 80.1 | 78.9 | 74.4 | 75.3 | 67.4 | 66.2 |
| Military equipment | 73.2 22.7 14.3 12.1 3.8 6.6 13.6 5.8 | 66.6 20.9 12.3 10.7 3.0 6.4 13.3 4.2 | 73.7 22.5 14.8 12.0 4.1 6.9 13.4 6.4 | 72.6 21.9 14.2 11.6 3.9 7.1 14.0 6.3 | 70.5 20.8 13.5 11.1 4.2 6.6 14.2 3.9 | 70.5 22.5 12.9 11.3 3.2 6.8 13.9 4.8 | 63.1 20.1 11.6 10.0 2.3 6.4 12.6 4.3 | 62.4 20.4 11.2 10.3 2.1 5.9 12.5 3.9 |
| Nondurable goods | 10.3 | 9.4 | 11.2 | 9.8 | 9.0 | 10.2 | 9.3 | 9.3 |
| Petroleum products Ammunition Other nondurable goods | 3.5 3.4 3.4 | 3.2 3.6 2.7 | 4.0 3.7 3.5 | 3.0 3.6 3.2 | 3.0 3.5 2.5 | 3.4 4.0 2.7 | 3.3 3.1 2.9 | 2.9 3.9 2.5 |
| Services | 218.9 | 218.0 | 220.2 | 221.0 | 216.4 | 217.0 | 219.4 | 219.4 |
| Compensation of employees | 135.7 90.7 | 137.0 91.0 | 135.6 | 133.7 | 407.0 | 400.4 | | |
| Other services Contractual research and development Installation support 1 Weapons support 2 Personnel support 3 Transportation of | 45.0 83.2 26.5 23.4 10.0 13.3 | 91.0 46.0 81.0 26.6 23.4 8.9 12.8 | 90.7 44.9 84.6 26.3 23.2 10.0 13.5 | 89.2 44.5 87.3 27.5 24.3 10.0 13.4 | 137.2 91.5 45.7 79.1 27.2 22.1 9.1 11.6 | 136.4 91.2 45.2 80.6 26.6 21.9 9.6 12.2 | 137.9 90.7 47.2 81.5 25.5 24.9 9.1 13.3 | 136.5 90.5 46.0 82.9 27.1 24.7 7.9 14.0 |
| Other services | 26.5 23.4 10.0 | 46.0 81.0 26.6 23.4 8.9 | 90.7 44.9 84.6 26.3 23.2 10.0 | 89.2 44.5 87.3 27.5 24.3 10.0 | 91.5 45.7 79.1 27.2 22.1 9.1 | 91.2 45.2 80.6 26.6 21.9 9.6 | 90.7 47.2 81.5 25.5 24.9 9.1 | 90.5 46.0 82.9 27.1 24.7 7.9 |
| Other services Contractual research and development | 83.2 26.5 23.4 10.0 13.3 5.8 6.2 | 46.0 81.0 26.6 23.4 8.9 12.8 5.2 6.3 | 90.7 44.9 84.6 26.3 23.2 10.0 13.5 6.7 7.5 | 89.2 44.5 87.3 27.5 24.3 10.0 13.4 6.1 7.2 | 91.5 45.7 79.1 27.2 22.1 9.1 11.6 5.0 6.3 | 91.2 45.2 80.6 26.6 21.9 9.6 12.2 5.3 6.4 | 90.7 47.2 81.5 25.5 24.9 9.1 13.3 5.6 6.5 | 90.5 46.0 82.9 27.1 24.7 7.9 14.0 5.0 6.0 |

I. Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

Table 3.8B.—Government Purchases by Type in Constant Dollars

[Billions of 1987 dollars]

| | اطا | 1110113 01 | 1307 401 | iaisj | | | | |
|-------------------------------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| | | | S | Seasonall | y adjuste | ed at ann | ual rates | ; |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Government purchases | 945.2 | 938.6 | 950.2 | 946.9 | 931.3 | 941.1 | 941.7 | 940.1 |
| Federal | 373.0 | 355.1 | 377.0 | 373.7 | 357.6 | 359.4 | 353.7 | 349.8 |
| National defense | 261.2 73.2 9.4 173.6 | 242.7 63.8 8.7 165.7 | 264.4 74.6 10.4 174.6 | 261.3 72.6 8.6 174.7 | 246.0 67.2 8.3 166.1 | 246.4 67.4 9.2 165.5 | 240.1 60.9 8.7 165.4 | 238.2 59.5 8.7 165.6 |
| employees | 100.9 66.4 34.5 72.7 5.0 | 96.0 63.5 32.5 69.7 4.5 | 100.2 65.9 34.3 74.4 4.8 | 99.0 65.4 33.7 75.7 5.3 | 97.7 64.4 33.3 68.4 4.4 | 96.4 63.8 32.7 69.0 4.4 | 95.3 63.1 32.2 70.1 5.0 | 94.4 62.5 31.9 71.2 4.3 |
| Nondefense | 111.8 7.5 7.9 | 112.5 8.1 6.7 | 112.5 7.0 8.2 | 112.4 7.9 8.4 | 111.5 7.8 7.2 | 113.0 8.4 6.9 | 113.7 8.1 6.4 | 111.6 7.9 6.1 |
| inventory change Other nondurables Services Compensation of | 4 8.3 87.4 | 1 6.7 88.5 | 4 8.6 88.4 | 0 8.4 87.2 | 2 7.4 87.3 | 2 7.1 88.9 | 3 6.7 89.8 | .4 5.6 87.8 |
| employees Other services Structures | 49.6 37.8 9.0 | 51.4 37.1 9.2 | 49.8 38.5 8.9 | 49.8 37.4 8.9 | 51.0 36.3 9.1 | 51.4 37.4 8.7 | 51.6 38.2 9.4 | 51.5 36.3 9.8 |
| State and local | 572.2 | 583.4 | 573.2 | 573.2 | 573.7 | 581.6 | 588.0 | 590.4 |
| Durable goods Nondurable goods Services Compensation of | 33.3 52.1 395.8 | 34.1 53.5 402.6 | 33.4 52.4 396.7 | 33.6 52.7 398.2 | 33.8 53.0 400.1 | 34.0 53.4 401.9 | 34.3 53.8 403.4 | 34.5 54.0 404.9 |
| employees Other services Structures | 359.0 36.7 91.1 | 363.9 38.6 93.2 | 360.0 36.7 90.8 | 361.0 37.3 88.6 | 362.0 38.1 86.9 | 363.4 38.4 92.4 | 364.5 38.9 96.5 | 365.8 39.1 96.9 |

Table 3.11.—National Defense Purchases in Constant Dollars

| | [Bi | llions of | 1987 dol | lars] | | | | |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| National defense purchases | 261.2 | 242.7 | 264.4 | 261.3 | 246.0 | 246.4 | 240.1 | 238.2 |
| Durable goods | 73.2 | 63.8 | 74.6 | 72.6 | 67.2 | 67.4 | 60.9 | 59.5 |
| Military equipment Aircraft Missiles Ships Vehicles Electronic equipment Other Other durable goods | 67.1 20.2 15.3 10.3 3.4 6.1 11.8 6.1 | 59.0 17.5 12.8 8.9 2.5 5.9 11.3 4.8 | 67.9 20.1 16.0 10.2 3.7 6.3 11.6 6.8 | 66.3 19.0 15.7 9.8 3.4 6.5 11.9 6.4 | 62.9 17.7 14.1 9.3 3.6 6.0 12.1 4.4 | 62.1 18.8 13.2 9.5 2.6 6.2 11.8 5.3 | 55.9 16.6 12.4 8.3 2.0 5.9 10.8 5.0 | 54.9 17.1 11.4 8.6 1.7 5.4 10.6 4.7 |
| Nondurable goods | 9.4 | 8.7 | 10.4 | 8.6 | 8.3 | 9.2 | 8.7 | 8.7 |
| Petroleum products Ammunition Other nondurable goods | 2.9 3.5 3.0 | 2.8 3.6 2.4 | 3.1 4.2 3.2 | 2.4 3.3 2.9 | 2.7 3.4 2.2 | 2.9 3.9 2.4 | 2.9 3.1 2.7 | 2.6 3.9 2.2 |
| Services | 173.6 | 165.7 | 174.6 | 174.7 | 166.1 | 165.5 | 165.4 | 165.6 |
| Compensation of employees | 100.9 66.4 34.5 72.7 23.6 20.6 8.4 10.0 | 96.0 63.5 32.5 69.7 23.4 20.2 7.2 9.6 | 100.2 65.9 34.3 74.4 23.3 20.2 8.3 10.1 | 99.0 65.4 33.7 75.7 24.1 21.2 8.2 9.9 | 97.7 64.4 33.3 68.4 23.8 19.4 7.4 8.7 | 96.4 63.8 32.7 69.0 23.4 19.1 7.8 9.1 | 95.3 63.1 32.2 70.1 22.4 21.4 7.4 10.0 | 94.4 62.5 31.9 71.2 24.1 21.1 6.4 10.4 |
| Transportation of material Travel of persons Other | 6.1 5.6 –1.6 | 5.4 5.4 –1.6 | 7.5 6.9 –1.9 | 6.6 6.4 8 | 5.3 5.4 –1.6 | 5.4 5.5 –1.1 | 5.8 5.6 –2.5 | 5.3 5.1 –1.3 |
| Structures | 5.0 | 4.5 | 4.8 | 5.3 | 4.4 | 4.4 | 5.0 | 4.3 |
| Military facilities | 3.3 1.7 | 2.9 1.6 | 3.2 1.5 | 3.5 1.8 | 2.8 1.6 | 2.8 1.6 | 3.3 1.7 | 2.8 1.6 |

^{1.} Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

Includes depot maintenance and contractual services for weapons systems, other than research and development.

Includes compensation of foreign personnel, consulting, training, and education.

Includes depot maintenance and contractual services for weapons systems, other than research and development.

Includes compensation of foreign personnel, consulting, training, and education.

Table 4.1.—Foreign Transactions in the National Income and Product Accounts

| | | | Sea | asonally | adjuste | ed at ar | nual ra | tes |
|---------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | -1 | II | III | IV |
| Receipts from rest of the world | 769.7 | | 768.4 | 777.0 | 774.1 | 791.8 | 788.3 | |
| Exports of goods and services Merchandise Durable Nondurable Services Services | 640.5 448.7 300.8 147.9 191.7 | 660.1 459.5 313.1 146.4 200.6 | 447.5 298.5 | 654.7 462.0 311.1 150.9 192.8 | 651.3 453.2 306.9 146.3 198.0 | 660.0 458.6 314.0 144.6 201.3 | 653.2 452.2 307.4 144.8 200.9 | 675.8 473.7 324.0 149.7 202.1 |
| Receipts of factor income 2 | 129.2 | | 127.3 | 122.3 | 122.8 | 131.9 | 135.1 | |
| Capital grants received by the United States (net) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Payments to rest of the world | 769.7 | | 768.4 | 777.0 | 774.1 | 791.8 | 788.3 | |
| Imports of goods and services | 670.1 544.5 346.3 198.2 125.6 | 725.8 593.0 385.8 207.2 132.8 | 557.3 351.4 205.9 | 693.5 564.7 359.7 205.1 128.7 | 699.6 569.6 368.8 200.7 130.0 | 725.0 592.6 379.5 213.1 132.4 | 725.1 591.9 384.5 207.3 133.3 | 753.5 618.1 410.3 207.8 135.3 |
| Payments of factor income 3 | 121.9 | | 119.5 | 124.8 | 122.4 | 132.3 | 128.7 | |
| Transfer payments (net) From persons (net) From government (net) From business | 32.7 10.4 16.3 6.0 | 31.4 11.0 14.2 6.1 | | 41.2 10.5 24.6 6.1 | 29.7 11.0 13.1 5.6 | 29.9 11.0 12.9 6.0 | 30.9 10.8 13.7 6.3 | 35.1 11.4 17.2 6.5 |
| Net foreign investment | -55.1 | | -59.4 | -82.4 | -77.6 | -95.4 | -96.4 | |

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

Table 4.3.—Exports and Imports of Merchandise by End-Use Category
[Billions of dollars]

Exports of merchandise . 448.7 459.5 447.5 462.0 453.2 458.6 452.2 473.7 Foods, feeds, and beverages 40.3 40.2 40.9 41.9 40.8 39.6 38.9 104.9 Industrial supplies and materials 103.0 106.4 103.0 103.0 102.4 103.5 105.2 Durable goods 36.9 37.5 37.9 37.2 37.2 37.6 38.1 37.2 64.2 178.5 Nondurable goods 68 4 65.4 68.5 67.7 65.8 65.4 66.2 188 5 Capital goods, except automotive ... 176.9 182 0 1733 182 0 1778 183 3 Civilian aircraft, engines, and parts ... 37.7 32.1 37.1 27.1 31.8 33.4 33.1 36.4 Computers, peripherals, and parts 28.8 29.1 28.8 30.0 28.8 28.0 29.6 110.4 120.9 114.9 115.9 118.8 121.9 126.8 Automotive vehicles, engines, and parts 47.1 51.9 47.8 50.9 51.2 51.3 48.4 56.6 53.4 27.2 51.0 25.4 53.3 26.5 54.2 27.5 Consumer goods, except automotive 50.4 51.5 52.2 55.7 27.2 27.8 25.6 26.3 Durable goods 24.8 26.2 25.5 26.8 25.2 25.1 26.7 Nondurable goods 27.9 28.9 28.1 28.8 Other 28.9 28.9 29.9 Durable goods 14.5 14.5 14.1 14.5 14.4 14.6 14.9 13.9 Nondurable goods 14.5 14.5 14.1 14.5 14.4 14.6 14.9 13.9 564.7 544.5 593.0 557.3 569.6 592.6 591.9 618.1 Imports of merchandise Foods, feeds, and beverages .. 27.9 27.4 28.3 28.9 28.1 28.1 27.6 27.5 Industrial supplies and materials except petroleum and products 86.4 89.6 82.7 43.8 39.4 40.3 41.1 49.2 Durable goods 43.3 Nondurable goods 42.8 45.7 43.3 43.9 44.8 46.2 45.7 46.2 54.9 141.8 Petroleum and products 51.6 51.4 57.2 51.0 57.3 50.2 47.2 Capital goods, except automotive 134.2 152.1 152.6 137.8 142.6 150.7 162.6 12.6 11.0 13.0 Civilian aircraft, engines, and parts ... 12.3 10.5 11.8 10.5 11.2 Computers, peripherals, and parts 31.8 38.3 33.6 34.6 35.9 37.2 39.0 89.8 102.9 91.9 94.2 96.2 101.7 103.1 Automotive vehicles, engines, and parts 91.8 102.5 91.8 95.1 100.5 102.1 100.1 107.2 137.6 71.5 Consumer goods, except automotive 123.0 134.9 126.7 126.5 128.9 132.9 140.4 63.9 70.1 65.2 68.2 73.2 Durable goods 65.9 67.7 Nondurable goods 59.1 64.8 60.9 61.3 61.2 64.7 66.2 67.2 Other 33.8 34.5 33.0 34.8 32.7 34.8 33.9 36.4 Durable goods 16.9 17.2 16.5 17.4 16.4 17.4 17.0 18.2 Nondurable goods 16.9 17 2 16.5 17 4 16.4 17 4 18.2 Addenda: Exports of agricultural products 1 44.0 43.2 45.5 43.4 43.1 42.4 44.7 Exports of nonagricultural products ... 404.7 416.2 402.9 416.4 409.9 415.5 409.8 429.7 Imports of nonpetroleum products 492.9 541.6 500.1 509.9 518.5 535.3 541.7 570.9

Table 4.2.—Exports and Imports of Goods and Services and Receipts and Payments of Factor Income in Constant Dollars

[Billions of 1987 dollars]

| | | | Sea | sonally | adjuste | ed at an | nual ra | tes |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|----------------|--------------------------------------------------|---------|--------------------------------------------------|--------------------------------------|--------------------------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | . 422.7 . 288.0 . 134.7 | | III | IV | I | II | III | IV |
| Exports of goods and services Merchandise ¹ Durable Nondurable Services ¹ | 422.7 288.0 134.7 | 596.4 438.2 304.9 133.3 158.2 | 423.0 287.4 | 591.6 437.3 300.0 137.3 154.3 | | 593.2 434.5 302.4 132.1 158.6 | 434.1 302.2 131.9 | 454.1 318.4 135.6 |
| Receipts of factor income 2 | 105.5 | | 103.7 | 98.9 | 98.3 | 105.0 | 107.1 | |
| Imports of goods and services Merchandise Durable Nondurable Services Imports of goods and services Merchandise Services Imports of goods and services Imports of goods Impor | 611.6 511.9 332.5 179.4 99.7 | 572.3 | 521.6 | 630.3 530.3 348.0 182.4 100.0 | 545.9 | 668.4 565.7 372.1 193.6 102.7 | 678.2 574.9 381.0 193.9 103.3 | 708.1 602.8 405.9 196.9 105.3 |
| Payments of factor income $^{\scriptsize 3}$ | 97.7 | | 95.5 | 98.8 | 95.8 | 103.0 | 99.6 | |

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

Table 4.4.—Exports and Imports of Merchandise by End-Use Category in Constant Dollars

| Exports of merchandise | 422.7 | 438.2 | 423.0 | 437.3 | 430.2 | 434.5 | 434.1 | 454.1 |
|--------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Foods, feeds, and beverages | 35.7 | 35.2 | 36.9 | 37.7 | 36.4 | 35.2 | 33.7 | 35.3 |
| Industrial supplies and materials | 97.5 | 94.8 | 97.7 | 96.6 | 94.7 | 94.0 | 94.3 | 96.3 |
| Durable goods | 32.1 | 31.0 | 32.7 | 31.9 | 31.1 | 30.6 | 31.4 | 31.0 |
| Nondurable goods | 65.4 | 63.8 | 65.0 | 64.7 | 63.6 | 63.4 | 63.0 | 65.3 |
| Capital goods, except automotive | 178.4 | 191.3 | 177.0 | 186.8 | 184.3 | 189.5 | 190.5 | 200.8 |
| Civilian aircraft, engines, and parts | 30.9 | 25.5 | 27.3 | 30.0 | 26.6 | 29.0 | 21.6 | 25.0 |
| Computers, peripherals, and parts | 51.0 96.6 | 60.3 105.4 | 52.5 97.2 | 56.4 | 55.9 | 57.0 | 62.5 | 65.8 110.0 |
| Other | 41.9 | 45.9 | 42.6 | 100.5 45.1 | 101.8 45.3 | 103.4 45.3 | 106.3 42.8 | 50.0 |
| Consumer goods, except automotive | 43.5 | 45.9 | 44.0 | 45.1 | 44.1 | 45.5 | 46.5 | 47.5 |
| Durable goods | 22.7 | 24.1 | 22.7 | 23.4 | 23.2 | 24.1 | 24.4 | 24.6 |
| Nondurable goods | 20.8 | 21.7 | 21.3 | 22.2 | 21.0 | 20.8 | 22.1 | 22.9 |
| Other | 25.6 | 25.4 | 24.9 | 25.5 | 25.4 | 25.7 | 26.3 | 24.3 |
| Durable goods | 12.8 | 12.7 | 12.5 | 12.8 | 12.7 | 12.8 | 13.1 | 12.1 |
| Nondurable goods | 12.8 | 12.7 | 12.4 | 12.8 | 12.7 | 12.8 | 13.1 | 12.1 |
| Imports of merchandise | 511.9 | 572.3 | 521.6 | 530.3 | 545.9 | 565.7 | 574.9 | 602.8 |
| Foods, feeds, and beverages | 26.0 | 25.8 | 26.4 | 25.6 | 26.1 | 25.6 | 25.7 | 25.7 |
| Industrial supplies and materials, except | | | | | | | | |
| petroleum and products | 72.0 | 78.6 | 72.2 | 73.3 | 75.3 | 76.0 | 78.8 | 84.2 |
| Durable goods | 34.1 | 37.6 | 33.6 | 34.8 | 35.3 | 34.9 | 37.6 | 42.5 |
| Nondurable goods | 37.9 | 41.0 | 38.6 | 38.5 | 40.0 | 41.1 | 41.1 | 41.7 |
| Petroleum and products | 51.2 | 56.3 | 53.1 | 52.8 | 53.4 | 57.8 | 56.7 | 57.4 |
| Capital goods, except automotive | 148.4 | 179.3 | 153.8 | 160.0 | 165.3 | 175.8 | 181.4 | 194.7 |
| Civilian aircraft, engines, and parts | 10.3 | 8.8 | 10.0 | 10.5 | 8.5 | 9.4 | 8.4 | 8.8 |
| Computers, peripherals, and parts | 59.7 | 82.8 | 64.2 | 68.2 | 73.1 | 79.0 | 85.8 | 93.2 |
| Other | 78.3 | 87.8 | 79.5 | 81.3 | 83.8 | 87.4 | 87.2 | 92.8 |
| Automotive vehicles, engines, and parts | 79.7 | 87.4 115.3 | 79.5 108.0 | 81.9 106.7 | 87.0 110.2 | 87.4 113.0 | 85.3 | 89.7 120.0 |
| Consumer goods, except automotive Durable goods | 105.2 55.6 | 60.7 | 57.1 | 56.2 | 58.6 | 58.9 | 117.8 62.0 | 63.4 |
| Nondurable goods | 49.6 | 54.5 | 50.9 | 50.2 | 51.6 | 54.1 | 55.8 | 56.7 |
| Other | 29.5 | 29.7 | 28.7 | 30.3 | 28.5 | 30.0 | 29.3 | 31.2 |
| Durable goods | 14.7 | 14.9 | 14.3 | 15.0 | 14.2 | 15.0 | 14.6 | 15.6 |
| Nondurable goods | 14.7 | 14.9 | 14.3 | 15.0 | 14.2 | 15.0 | 14.6 | 15.6 |
| Addenda: | | | | | | | | |
| Exports of agricultural products 1 | 39.7 | 38.2 | 40.8 | 41.1 | 38.7 | 38.8 | 37.3 | 37.8 |
| Exports of agricultural products | 382.9 | 400.1 | 382.2 | 396.1 | 391.5 | 395.7 | 396.8 | 416.3 |
| Imports of nonpetroleum products | 460.8 | 516.0 | 468.5 | 477.6 | 492.5 | 507.9 | 518.2 | 545.5 |
| 1 Industry and a few and a few lands and | +00.0 | 310.0 | 100.0 | +11.0 | 102.0 | 307.3 | 010.2 | J-0.0 |

^{1.} Includes parts of: exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

^{2.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

^{1.} Includes parts of: exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

^{2.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

^{3.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Table 5.1.—Gross Saving and Investment

| | | | 5 | Seasonal | y adjuste | ed at ann | ual rates | 3 |
|-------------------------------------------------------------------------------------------------------------|---------------------------------|-------|---------------------------------|----------------------------------|-------------------------|--------------------|-----------------------|-------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Gross saving | 717.8 | | 727.0 | 718.8 | 762.0 | 766.7 | 774.3 | |
| Gross private saving Personal saving Undistributed corporate profits with inventory valuation and capital | 986.9 238.7 | 190.3 | 1,016.5 219.6 | 969.4 279.7 | 1,024.8 177.9 | 988.3 208.7 | 988.7 179.7 | 195.2 |
| consumption adjustments Undistributed profits Inventory valuation | | | 82.3 72.7 | 121.7 92.0 | 103.7 91.4 | 116.3 103.9 | | |
| adjustmentCapital consumption | -5.3 | -7.8 | -7.8 | 4.9 | -12.7 | -12.2 | 1.0 | -7.2 |
| adjustment Corporate consumption of | 17.1 | 24.3 | 17.4 | 24.7 | 25.1 | 24.7 | 23.8 | 23.6 |
| fixed capital | 396.6 | 408.9 | 410.3 | 396.5 | 402.2 | 405.2 | 414.0 | 414.1 |
| Noncorporate consumption of fixed capital | 261.3 | 262.3 | 304.3 | 251.5 | 261.0 | 258.1 | 265.7 | 264.5 |
| disbursements | -20.0 | 20.0 | 0 | -80.0 | 80.0 | 0 | 0 | 0 |
| Government surplus or deficit (-), national income and product accounts Federal State and local | - 269.1 -276.3 7.2 | | - 289.5 -290.7 1.2 | - 250.6 -264.2 13.5 | | | | |
| Capital grants received by the United States (net) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gross investment | 741.4 | | 742.7 | 750.9 | 796.5 | 778.7 | 787.6 | |
| Gross private domestic investment | 796.5 –55.1 | | 802.2 -59.4 | 833.3 -82.4 | 874.1 -77.6 | 874.1 -95.4 | 884.0 -96.4 | |
| Statistical discrepancy | 23.6 | | 15.7 | 32.1 | 34.4 | 12.0 | 13.3 | |

Table 5.4.—Fixed Investment by Type

[Billions of dollars]

| | | | Sea | asonally | adjuste | ed at an | inual ra | tes |
|--------------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | Ш | IV | Ι | II | III | IV |
| Fixed investment | 789.1 | 875.2 | 792.5 | 821.3 | 839.5 | 861.0 | 876.3 | 924.1 |
| Nonresidential | 565.5 | 622.9 | 569.2 | 579.5 | 594.7 | 619.1 | 624.9 | 653.0 |
| Structures | 172.6 | 178.6 | 170.8 | 171.1 | 172.4 | 177.6 | 179.1 | 185.2 |
| farm | 114.6 35.8 | 119.3 36.4 | 111.6 36.1 | 111.9 36.9 | 114.8 35.1 | 117.1 36.6 | 119.6 36.6 | 125.5 37.2 |
| wellsOther structures | 12.4 9.8 | 13.8 9.2 | 12.3 10.8 | 12.6 9.7 | 12.8 9.7 | 14.0 9.8 | 14.4 8.6 | 13.9 8.6 |
| Producers' durable equipment Information processing and related | 392.9 | 444.4 | 398.4 | 408.3 | 422.2 | 441.6 | 445.8 | 467.8 |
| equipmentComputers and peripheral | 135.5 | 152.3 | 139.2 | 139.7 | 142.7 | 147.0 | 154.6 | 164.8 |
| equipment 1 | 39.8 | 48.2 | 40.7 | 40.7 | 45.8 | 46.1 | 49.5 | 51.5 |
| OtherIndustrial equipmentTransportation and related | 95.7 87.2 | 104.1 97.9 | 98.5 88.1 | 98.9 91.2 | 96.9 92.4 | 100.9 95.9 | 105.1 98.7 | 113.3 104.4 |
| equipmentOther | 90.7 79.5 | 104.4 89.9 | 91.1 80.1 | 96.1 81.3 | 101.3 85.8 | 110.1 88.5 | 101.9 90.6 | 104.1 94.4 |
| Residential | 223.6 | 252.3 | 223.3 | 241.8 | 244.9 | 241.9 | 251.3 | 271.1 |
| Structures Single family Multifamily Other structures | 216.3 116.5 13.1 86.7 | 244.5 133.8 10.8 99.9 | 215.9 115.9 12.7 87.3 | 234.3 124.3 11.7 98.3 | 237.3 132.4 10.3 94.6 | 234.2 127.5 10.3 96.4 | 243.4 131.1 11.4 100.9 | 263.0 144.3 11.2 107.6 |
| Producers' durable equipment | 7.3 | 7.8 | 7.4 | 7.5 | 7.5 | 7.6 | 7.9 | 8.1 |

^{1.} Includes new computers and peripheral equipment only.

Table 5.5.—Fixed Investment by Type in Constant Dollars

| [Bil | lions of | 1987 d | ollars] | | | | | |
|-----------------------------------------------------------------|--------------------------------|--------------------------------------|--------------------------------|--------------|--------------------------------------|-------------------------------|--------------|------|
| | | | Sea | asonally | adjuste | ed at ar | nnual ra | ites |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | ۱۱ |
| Fixed investment | 726.4 | 805.5 | 730.0 | 754.3 | 773.7 | 790.6 | 806.9 | 85 |
| Nonresidential | 529.2 | 591.3 | 533.8 | 543.7 | 562.3 | 584.3 | 594.8 | 62 |
| Structures | 150.6 | 151.4 | 148.8 | | 148.2 | 151.1 | 151.2 | 15 |
| farmUtilitiesMining exploration, shafts, and | 100.8 30.9 | 101.7 30.4 | 97.9 31.1 | 97.5 31.6 | 99.3 29.9 | | | |
| wellsOther structures | 10.0 8.9 | 11.2 8.1 | 10.0 9.8 | | 10.4 8.6 | 11.4 8.7 | 11.7 7.5 | |
| Producers' durable equipment Information processing and related | 378.6 | 439.9 | 385.1 | 395.7 | 414.1 | 433.2 | 443.6 | 46 |
| equipment | 159.9 | 195.7 | 166.0 | 168.5 | 178.6 | | | |
| equipment ¹ Other | 71.2 88.7 | 100.7 95.0 | | 91.3 | 89.5 89.0 | 92.3 | 95.9 | |
| Industrial equipment Transportation and related | 72.7 | 80.2 | 72.8 | 75.7 | 76.7 | 78.8 | 80.5 | |
| equipment Other | 77.7 68.3 | 87.9 76.1 | 77.8 68.5 | 82.1 69.4 | 85.7 73.2 | | | |
| Residential | 197.1 | 214.2 | 196.2 | 210.6 | 211.4 | 206.2 | 212.1 | 22 |
| Structures Single family Multifamily Other structures | 190.1 102.7 11.8 75.6 | 206.8 113.1 9.4 84.4 | 189.1 101.7 11.4 76.0 | 10.4 | 204.1 113.9 9.1 81.1 | 198.9 108.7 9.0 81.2 | 110.0 9.8 | 11 |
| Producers' durable equipment | 7.0 | 7.4 | 7.1 | 7.2 | 7.3 | 7.3 | 7.5 | |
| Includes new computers and peripheral ex- | quinment | only | | | | | | 1 |

^{1.} Includes new computers and peripheral equipment only.

Table 5.10.—Change in Business Inventories by Industry

| - | | | | | | | | |
|--------------------------------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------------------|------------------------------------|----------------------------------------|--------------------------------|-----------------------------------|
| | | | Sea | asonally | adjuste | ed at ar | nnual ra | tes |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | ı | II | III | IV |
| Change in business inventories | 7.3 | 16.8 | 9.7 | 12.0 | 34.6 | 13.1 | 7.7 | 11.7 |
| Farm | 5.0 | -6.3 | 5.3 | 2.4 | 1.5 | -3.7 | -14.9 | -8.2 |
| Nonfarm | 2.3 8.8 -6.4 | 23.1 34.2 –11.1 | 4.4 10.8 –6.3 | 9.5 3.3 6.2 | 33.0 51.7 –18.7 | 34.8 | | 19.9 28.2 –8.3 |
| Manufacturing Durable goods Nondurable goods | -6.0 -10.6 4.6 | 1.2 2 1.5 | 7.1 -2.6 9.7 | -14.2 -17.0 2.8 | -1.8 -5.5 3.7 | 4.2 .4 3.9 | 2.9 2.6 .2 | 5 1.5 -2.0 |
| Wholesale trade Durable goods Nondurable goods | 6.1 3.9 2.2 | 3.4 1.9 1.5 | 2.3 6.8 –4.5 | 13.5 3.8 9.7 | .7 -3.2 3.9 | 6.8 .6 6.3 | 7.7 7.0 .7 | -1.8 3.3 -5.1 |
| Merchant wholesalers | 6.3 4.4 1.8 2 5 | 2.9 1.5 1.4 .5 .4 | 1.5 5.7 -4.1 .8 1.1 4 | 15.0 5.5 9.5 -1.5 -1.7 | 3 -3.7 3.5 .9 .5 | 6.1 1.8 4.2 .8 -1.3 2.0 | | -4.1 1.6 -5.7 2.3 1.7 |
| Retail trade | 6.5 4.8 7 5.5 1.6 | 12.6 8.1 3.3 4.8 4.6 | 4.8 .3 -6.3 6.7 4.4 | 10.5 6.5 -1.9 8.4 4.0 | 27.6 21.9 19.0 2.9 5.8 | 3.0 .4 6 1.0 2.6 | 5.3 4 -8.4 8.0 5.7 | 14.7 10.3 3.2 7.2 4.4 |
| Other Durable goods Nondurable goods | -4.3 3.8 -8.1 | 5.9 3.3 2.6 | -9.8 1.1 -10.9 | 2 5.5 -5.8 | 6.5 1.9 4.6 | 2.8 1.4 1.4 | 6.7 5.6 1.1 | 7.5 4.3 3.2 |

Table 5.12.—Inventories and Final Sales of Domestic Business by Industry

[Billions of dollars]

| [Billion | o or done | | | | | |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|
| | | Seasona | lly adjust | ted quart | erly totals | |
| | 19 | 92 | | 19 | 993 | |
| | III | IV | 1 | II | III | IV |
| Inventories 1 | 1,098.7 | 1,099.0 | 1,119.5 | 1,119.6 | ³ 1,130.9 | 1,133.4 |
| Farm | 94.9 | 95.1 | 99.1 | 95.4 | 95.1 | 91.9 |
| Nonfarm Durable goods Nondurable goods | 1,003.8 580.2 423.5 | 1,003.9 580.9 423.0 | 1,020.4 590.7 429.7 | 1,024.2 592.1 432.2 | ³ 1,035.8 ³ 600.3 ³ 435.5 | 1,041.5 606.5 435.0 |
| Manufacturing | 406.8 256.5 150.3 | 400.9 251.0 149.9 | 402.0 250.8 151.2 | 402.4 250.7 151.7 | 407.0 254.2 152.8 | 405.3 252.9 152.5 |
| Wholesale trade | 244.9 154.2 90.7 | 247.9 155.4 92.5 | 249.6 155.9 93.7 | 251.3 156.6 94.7 | ³ 254.6 ³ 159.1 ³ 95.5 | 255.3 160.7 94.6 |
| Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods | 217.7 137.7 80.0 27.2 16.5 10.7 | 221.4 139.4 82.0 26.5 16.0 10.4 | 222.6 139.5 83.1 27.0 16.4 10.6 | 224.1 140.5 83.7 27.2 16.1 11.1 | 227.6 142.5 85.0 ³ 27.0 ³ 16.6 ³ 10.4 | 228.1 143.6 84.5 27.2 17.1 10.1 |
| Retail trade | 266.4 126.7 62.3 64.4 139.7 | 269.5 129.4 62.5 67.0 140.1 | 280.1 137.0 68.2 68.7 143.1 | 281.2 138.0 69.3 68.7 143.3 | 282.7 138.2 66.9 71.3 144.5 | 286.9 142.0 68.3 73.8 144.8 |
| Other | 85.7 | 85.6 | 88.7 | 89.3 | 91.5 | 94.0 |
| Final sales of domestic business ² Final sales of goods and structures of domestic business ² | 426.7 234.2 | 436.9 240.5 | 439.0 240.4 | 445.5 243.9 | 450.7 245.9 | 459.3 252.4 |
| Ratio of inventories to final sales of domestic business | | | | | | |
| Inventories to final sales | 2.57 2.35 | 2.52 2.30 | 2.55 2.32 | 2.51 2.30 | ³ 2.51 ³ 2.30 | 2.47 2.27 |
| and structures | 4.29 | 4.17 | 4.24 | 4.20 | ³ 4.21 | 4.13 |

^{1.} Inventories are as of the end of the quarter.

Table 5.11.—Change in Business Inventories by Industry in Constant Dollars

[Billions of 1987 dollars]

| | | | Sea | asonally | adjuste | ed at ar | nnual rat | tes | | | |
|----------------------------------------------------|-------------------------------|------------------------|------------|------------|-------------------|--------------------------|--------------------------|-----------------------------------|--|--|--|
| | 1992 | 1993 | 19 | .92 | | 19 | 93 | | | | |
| | | | III | IV | ı | II | III | IV | | | |
| Change in business inventories | 6.5 | 15.4 | 9.6 | 8.7 | 29.3 | 13.0 | 6.5 | 12.7 | | | |
| Farm | 3.8 | -5.9 | 3.8 | 1.2 | 0 | -4.1 | -12.9 | -6.7 | | | |
| Nonfarm | 2.7 | 21.3 | 5.8 | 7.5 | 29.3 | 17.1 | 19.4 | 19.4 | | | |
| Manufacturing Durable goods Nondurable goods | -4.7 -8.9 4.2 | .6 | | -15.1 | -4.6 | 1.4 | 2.8 | 1.2 2.7 –1.5 | | | |
| Wholesale trade Durable goods Nondurable goods | 5.4 3.6 1.8 | 1.8 | | 3.4 | .7 -2.8 3.6 | | | -1.4 3.1 -4.5 | | | |
| Merchant wholesalers | 5.6 4.0 1.6 2 4 | 1.4 1.3 .4 .4 | 5.2 | 5.0 7.7 | -3.3 3.2 .8 | 1.7 4.2 .7 –1.2 | 5.6 2.9 -2.1 .8 | -3.7 1.4 -5.1 2.3 1.7 | | | |
| Retail trade | 5.9 4.3 6 4.9 1.6 | 7.1 2.9 4.1 | .2 –5.6 | 7.6 | 16.6 2.3 | .8 5 1.2 | 1 -7.1 7.0 | 13.1 8.8 2.7 6.1 4.4 | | | |
| Other Durable goods Nondurable goods | -3.9 3.4 -7.3 | 2.8 | | 4.9 | | 1.2 | 4.8 | 6.4 3.6 2.8 | | | |

Table 5.13.—Inventories and Final Sales of Domestic Business by Industry in Constant Dollars

| [Billions of 1987 dollars] | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------|-------------------------------|--|--|--|--|--|
| | ٤ | Seasonall | y adjuste | ed quarte | rly totals | ; | | | | | |
| | 199 | 92 | | 199 | 93 | | | | | | |
| | III | IV | I | II | III | IV | | | | | |
| Inventories 1 | 983.1 | 985.3 | 992.6 | 995.9 | 997.5 | 1,000.6 | | | | | |
| Farm | 87.8 | 88.1 | 88.1 | 87.1 | 83.9 | 82.2 | | | | | |
| Nonfarm | 895.3 525.5 369.8 | 897.2 525.3 371.8 | 904.5 528.6 375.9 | 908.8 529.6 379.2 | | 537.6 | | | | | |
| Manufacturing Durable goods Nondurable goods | 369.0 235.7 133.3 | 365.9 231.9 134.0 | 365.7 230.7 135.0 | 366.9 231.1 135.8 | 367.7 231.8 135.9 | 232.5 | | | | | |
| Wholesale trade Durable goods Nondurable goods | 215.1 137.7 77.4 | 217.7 138.5 79.2 | 217.9 137.8 80.1 | 219.6 138.0 81.6 | | 140.3 | | | | | |
| Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods | 190.6 122.7 67.9 24.5 15.0 9.5 | 193.8 124.0 69.8 23.9 14.6 9.4 | 193.8 123.1 70.6 24.2 14.7 9.5 | 195.3 123.6 71.7 24.3 14.4 9.9 | 125.0 72.4 23.8 | 125.3 71.1 24.4 15.0 | | | | | |
| Retail trade Durable goods Automotive Other Nondurable goods | 234.0 113.7 56.9 56.8 120.2 | 236.4 115.2 56.5 58.7 121.2 | 242.4 119.9 60.6 59.3 122.5 | 243.2 120.1 60.5 59.6 123.0 | 120.1 58.7 61.4 | 122.3 59.4 62.9 | | | | | |
| Other | 77.2 | 77.1 | 78.5 | 79.1 | 80.3 | 81.9 | | | | | |
| Final sales of domestic business 2 Final sales of goods and structures of | 355.7 | 361.5 | 360.4 | 363.4 | 366.8 | 372.3 | | | | | |
| domestic business 2 | 203.6 | 208.6 | 207.0 | 209.3 | 211.3 | 216.2 | | | | | |
| Ratio of inventories to final sales of domestic business | | | | | | | | | | | |
| Inventories to final sales | 2.76 2.52 | 2.73 2.48 | 2.75 2.51 | 2.74 2.50 | 2.72 2.49 | | | | | | |
| structures | 4.40 | 4.30 | 4.37 | 4.34 | 4.32 | 4.25 | | | | | |

Inventories are as of the end of the quarter. Quarter-to-quarter changes calculated from this table are at quarterly rates, whereas the constant-dollar change in business inventories component of GDP is stated at annual rates.

Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final

Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final

Table 6.1C.—National Income Without Capital Consumption Adjustment by Industry

| | | | 5 | Seasonal | y adjuste | ed at anr | nual rates | 3 |
|--------------------------------------------------------------------------------------------------------|----------------------------------|------|---------------------------------|----------------------------------|----------------|----------------------------------|----------------|----|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| National income without capital consumption adjustment | 4,880.3 | | 4,873.1 | 5,003.2 | 5,071.1 | 5,133.6 | 5,177.6 | |
| Domestic industries | 4,873.0 | | 4,865.3 | 5,005.7 | 5,070.7 | 5,134.1 | 5,171.2 | |
| Private industries | 4,138.5 | | 4,127.7 | 4,262.0 | 4,313.3 | 4,372.8 | 4,401.9 | |
| Agriculture, forestry, and fisheries | 38.5 212.8 | | 94.4 38.0 213.1 900.5 | 104.3 40.1 218.1 919.0 | | 106.7 39.3 224.7 925.8 | 39.6 231.6 | |
| Durable goods Nondurable goods | 501.7 | | 503.1 397.4 | 518.8 400.2 | 507.6 | 518.0 407.7 | | |
| Transportation and public utilities Transportation Communications Electric, gas, and sanitary services | 356.1 151.0 103.7 101.5 | | 355.3 151.7 103.8 99.9 | 361.4 154.4 106.4 100.6 | 157.4 105.4 | 370.7 158.9 108.2 103.6 | 164.4 108.5 | |
| Wholesale trade Retail trade Finance, insurance, and | 283.6 416.7 | | 286.4 412.5 | 297.8 428.7 | 288.2 432.2 | 299.8 441.1 | 297.4 449.1 | |
| real estate | 1,085.8 | | | 768.3 1,124.4 | 1,141.1 | · · | 1,180.7 | |
| Government | 734.5 | | 737.5 | 743.8 | 757.4 | 761.3 | 769.2 | |
| Rest of the world | 7.3 | | 7.8 | -2.5 | .4 | 5 | 6.4 | |

Table 6.16C.—Corporate Profits by Industry

[Billions of dollars]

| · · | DIIIONS | UI UUIIA | 115] | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|
| | | | Sea | sonally | adjuste | ed at an | nual ra | tes |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | == | IV | _ | = | III | IV |
| Corporate profits with inventory valuation and capital consumption adjustments | 407.2 | | 367.5 | 439.5 | 432.1 | 458.1 | 468.5 | |
| Domestic industries | 344.9 | 401.9 | 306.0 | 384.8 | 373.0 | 400.0 | 405.8 | |
| FinancialNonfinancial | 66.7 278.3 | 87.1 314.8 | 33.2 272.7 | 70.7 314.1 | 81.0 292.1 | 85.0 315.0 | | |
| Rest of the world | 62.3 65.2 | | 61.5 65.4 | 54.7 60.5 | 59.0 66.7 | 58.1 71.4 | 62.7 74.0 | |
| world | 3.0 | | 3.8 | 5.8 | 7.7 | 13.3 | 11.3 | |
| Corporate profits with inventory valuation adjustment | 390.1 | | 350.1 | 414.8 | 407.0 | 433.4 | 444.8 | |
| Domestic industries Financial Federal Reserve banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Motor vehicles and equipment Other Nondurable goods Food and kindred products Chemicals and allied products | 327.8 78.1 17.8 60.3 249.8 115.5 48.3 .6 7.4 6.6 12.1 3.5 18.1 67.2 17.0 | 377.7 98.7 16.1 82.5 279.0 128.5 58.0 1.2 6.4 7.5 14.3 7.6 21.1 70.5 15.6 | 288.6 44.6 17.1 27.5 244.0 119.3 8.0 6.5 12.2 2.4 20.5 69.4 18.5 | 360.1 82.0 16.7 65.3 278.1 128.0 0 6.6 7.8 17.6 4.9 21.0 70.0 15.2 | 348.0 92.3 16.6 75.7 255.7 118.9 48.0 5 5.5 5.7 14.9 3.1 19.4 70.9 18.0 | 375.3 96.4 16.2 80.2 278.9 132.5 58.4 2.5 6.9 6.2 12.1 10.0 20.7 74.2 14.8 16.3 | 282.8 126.7 59.9 1.1 6.3 8.8 14.4 8.1 21.3 66.8 14.6 | |
| Petroleum and coal products Other Transportation and public utilities Wholesale and retail trade Other Rest of the world | 6.1 28.5 52.0 46.3 36.0 62.3 | 11.1 27.6 57.3 53.4 39.8 | 6.7 29.2 48.7 41.3 34.6 61.5 | 5.0 32.1 50.4 57.7 42.0 54.7 | 7.2 27.3 53.3 46.0 37.5 59.0 | 13.5 29.5 53.9 55.4 37.2 58.1 | 12.0 | |

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product

| | | | | | asonally | | | | | | | | | asonally | | | |
|----------------------------------------------------------------------------------------------|-------------------------|----------------|-------------------------|-------------------------|-------------------------|----------------------------------|-------------------------|----------------|----------------------------------------------------------------------------|-------------------------|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------|
| | 1992 | 1993 | 19 | 92 | | 199 | 93 | | | 1992 | 1993 | 19 | 92 | | 199 | 93 | |
| | | | III | IV | I | II | III | IV | | | | III | IV | I | II | III | IV |
| Gross domestic product: Current dollars | 133.0 | 140.4 | 133.5 | 136.4 | 137.9 | 139.4 | 140.9 | 143.4 | Nonresidential: Current dollarsQuantity indexes: | 113.6 | 125.1 | 114.4 | 116.4 | 119.5 | 124.4 | 125.5 | 131.2 |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 109.8 109.5 109.4 | | 110.1 109.8 109.7 | | 111.4 | 111.9 | 113.2 112.5 112.3 | | Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 106.3 103.3 104.1 | | 107.2 103.9 104.8 | 109.2 105.7 106.7 | 113.0 108.4 109.4 | 117.4 112.4 113.5 | 119.5 113.4 114.5 | 125.3 |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 122.1 121.5 121.7 | | 122.5 121.8 122.0 | 123.5 122.6 122.9 | 124.8 123.8 124.1 | 124.7 | 126.3 125.3 125.6 | | Price indexes: Fixed 1987 weights Chain-type annual weights | 111.4 | 113.3 | 111.7 110.1 | 112.0 110.1 | 112.4 110.4 | 113.1 110.9 | | 114.0 |
| Implicit price deflator Personal consumption expenditures: | 121.1 | 124.2 | 121.2 | 122.2 | 123.3 | 124.0 | | 124.9 | Benchmark-years weights Implicit price deflator | 109.1 106.9 | | 109.3 | 109.4 | 109.6 | 110.1 106.0 | 110.5 105.1 | 104.7 |
| Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights | 109.5 | 113.1 | 109.8 109.3 | | | 112.5 | 113.7 112.8 | 114.8 | Structures: Current dollars Quantity indexes: | 100.7 | 104.2 | 99.7 | 99.9 | 100.6 | 103.7 | 104.5 | 108.1 |
| Benchmark-years weights Price indexes: Fixed 1987 weights | 109.1 | 128.7 | 109.4 | 110.8 | | 111.8 | 112.9 | | Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 87.9 87.9 87.9 | | 86.8 86.8 86.8 | 86.4 86.4 86.4 | 86.5 86.5 86.5 | 88.2 88.3 88.3 | 88.3 88.3 88.4 | 90.5 |
| Chain-type annual weights Benchmark-years weights Implicit price deflator | 124.4 124.5 123.9 | | 124.9 125.0 124.1 | 125.8 125.9 125.3 | 126.8 127.0 126.2 | 127.9 | 128.2 128.3 127.4 | | Price indexes: Fixed 1987 weights Chain-type annual weights | 114.6 114.6 | 117.8 | 114.8 114.8 | 115.6 115.6 | | 117.4 117.4 | 118.4 118.4 | 119.3 |
| Durable goods: Current dollars Quantity indexes: | 123.2 | 133.2 | 124.1 | 128.0 | 127.6 | 131.7 | 134.2 | 139.2 | Benchmark-years weights . Implicit price deflator | 114.6 | | 114.8 | 115.6 | 116.3 116.3 | 117.4 117.5 | 118.3 | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 111.6 | 121.3 | 113.7 112.2 112.4 | | | 117.7 | 122.1 119.5 119.8 | | Producers' durable equipment: Current dollars | 120.3 | 136.1 | 122.0 | 125.1 | 129.3 | 135.3 | 136.6 | 143.3 |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | | 113.8 | 111.8 110.5 110.4 | | 112.6 111.2 111.1 | 112.0 | 114.1 112.5 112.4 | | Quantity indexes: Fixed 1987 weights Chain-type annual weights | 116.0 111.8 | | 118.0 113.3 | 121.2 116.4 | 120.4 | 132.7 125.8 | 135.9 127.2 | 143.6 |
| Implicit price deflator Nondurable goods: | 108.9 | 109.8 | 109.1 | 109.1 | 109.2 | 109.8 | 109.9 | 110.2 | Benchmark-years weights . Price indexes: Fixed 1987 weights | | 110.9 | | 117.6 | 110.4 | 127.1 | 128.6 | 111.2 |
| Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights | 105.1 | 133.5 107.6 | | 131.7 107.0 106.7 | 132.1 106.4 106.1 | 133.0 107.1 106.8 | 133.8 108.1 107.7 | 108.8 | Chain-type annual weights Benchmark-years weights Implicit price deflator | 107.6 106.7 103.8 | | 107.8 106.9 103.5 | 107.5 106.7 103.2 | 106.8 | 107.8 107.0 101.9 | 107.9 107.1 100.5 | 99.8 |
| Benchmark-years weights Price indexes: Fixed 1987 weights | 104.9 | | 104.9 | 106.7 | 106.1 | 106.8 | 107.7 | | Residential: Current dollarsQuantity indexes: | 99.3 | 112.0 | 99.1 | 107.4 | 108.7 | 107.4 | 111.6 | 120.4 |
| Chain-type annual weights Benchmark-years weights Implicit price deflator | 122.7 122.7 | | 123.1 123.1 122.8 | 123.5 123.5 | 124.5 124.5 124.1 | 124.6 | 124.2 124.3 123.7 | | Fixed 1987 weights Chain-type annual weights | 87.5 87.5 | | 87.1 87.1 | 93.5 93.5 | 93.8 93.8 | 91.6 91.6 | 94.2 94.1 | 100.9 |
| Services: | 440.0 | 450.0 | | | 440.4 | | 4540 | 4500 | Benchmark-years weights Price indexes: | 87.5 | | 87.1 | 93.5 | 93.9 | 91.6 | 94.2 | |
| Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights | 111.3 | 152.8 114.5 | 111.7 | 147.1 112.5 112.0 | | 113.9 | 154.2 115.0 114.4 | 115.7 | Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 113.4 113.5 113.4 | 117.7 | 113.8 113.9 113.8 | 114.8 114.9 114.8 | | 117.2 117.3 117.2 | | 119.3 |
| Benchmark-years weights Price indexes: Fixed 1987 weights | 111.0 | 134.6 | 111.4 | 112.1 | 112.9 | 113.5 | 114.5 | | Implicit price deflator Exports of goods and services: | | 117.8 181.4 | | | 115.8 | 117.3 181.3 | | |
| Chain-type annual weights Benchmark-years weights Implicit price deflator | 128.9 129.1 | | 129.5 | 130.9 131.2 | 132.1 132.4 | 133.5 133.8 | 134.5 134.7 | | Current dollars Quantity indexes: Fixed 1987 weights | 158.8 | | 159.2 | 162.5 | 178.9 161.6 | 163.0 | 162.6 | 168.3 |
| Gross private domestic investment: Current dollars | 106.3 | 119.0 | 107.1 | 111.2 | 116.7 | 116.7 | 118.0 | 124.9 | Chain-type annual weights Benchmark-years weights Price indexes: | 155.9 156.8 | | 155.9 156.9 | | 158.9 | 159.2 160.2 | 157.8 158.8 | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 96.2 | 109.6 | 98.7 96.7 97.2 | 99.9 | 104.4 | 104.1 | 108.6 104.6 105.1 | | Fixed 1987 weights | 112.9 112.3 | | 113.0 112.4 | 113.2 112.6 | 114.7 113.4 112.9 | 115.5 114.1 113.5 | 114.1 113.5 | 116.0 |
| Price indexes: Fixed 1987 weights Chain-type annual weights | | | | | | | | | Implicit price deflator Imports of goods and services: Current dollars | 110.8 | 110.7 143.1 | 110.7 | | 110.8 | 111.3 143.0 | | 110.3 |
| Benchmark-years weights Implicit price deflator Fixed investment: | | | | | | | | | Quantity indexes: Fixed 1987 weights | 120.6 | 133.3 | 122.6 | 124.3 | 127.8 | 131.8 | 133.8 | 139.7 |
| Current dollars | 100.5 | 121.1 111.4 | | 113.6 104.3 | | 119.1 109.3 | 121.2 111.6 | 127.8 117.7 | Chain-type annual weights Benchmark-years weights Price indexes: | 116.6 117.7 | | 118.1 119.3 | 120.9 | 122.3 123.7 | 125.8 127.2 | 128.4 | |
| Chain-type annual weights Benchmark-years weights Price indexes: | 98.9 | | 98.6 99.2 | 102.6 | 104.5 | 106.6 | | | Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 113.4 112.3 | | 114.4 113.3 | 114.1 113.0 | 114.5 112.5 111.5 | 113.4 112.4 | 112.5 111.5 | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator | 111.0 110.3 | 114.7 | 111.2 | 110.9 | 112.0 111.4 | 114.4 112.7 112.1 108.9 | 113.3 112.7 | | Implicit price deflator | 109.6 | 107.4 | 109.3 | 110.0 | 108.0 | 108.5 | 106.9 | 106.4 |

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product—Continued

| | | | | Sa | asonallı | / adjust | ed | |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------|
| | 1992 | 1993 | 19 | | asonany | 19 | | |
| | 1992 | 1993 | III | 92 IV | 1 | 19: | 93 | IV |
| | | | | | | | | |
| Government purchases: Current dollars | 128.4 | 131.3 | 129.2 | 129.8 | 129.3 | 131.4 | 132.1 | 132. |
| Fixed 1987 weights | 107.2 107.0 106.9 | | 107.8 107.4 107.3 | 107.4 107.2 107.1 | 105.6 105.6 105.4 | 106.8 106.6 106.5 | 106.8 106.6 106.5 | 106. |
| Price indexes: Fixed 1987 weights Chain-type annual weights | 120.6 120.0 | 124.2 | 121.0 120.3 | 121.7 121.0 | 123.2 122.4 | 124.0 123.2 | 124.8 123.9 | 124. |
| Benchmark-years weights Implicit price deflator | 120.2 119.7 | 123.3 | 120.5 119.9 | 121.3 120.8 | 122.6 122.4 | 123.5 123.1 | 124.2 123.7 | 123. |
| Federal: Current dollars | 116.6 | 115.2 | 117.6 | 117.5 | 115.0 | 116.3 | 115.2 | 114. |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights | 96.9 96.6 | 92.3 | 97.9 97.3 | 97.1 96.8 | 92.9 92.9 | 93.4 93.4 | 91.9 91.9 | 90. |
| Benchmark-years weights Price indexes: | 96.3 | | 97.0 | 96.5 | 92.7 | 93.2 | 91.6 | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 121.8 120.7 121.0 | 126.1 | 122.2 121.0 121.4 | 122.8 121.5 122.0 | 125.1 123.6 124.1 | 125.8 124.3 124.8 | 126.8 125.4 125.9 | 126. |
| Implicit price deflator | 120.3 | | 120.1 | 121.1 | 123.8 | 124.5 | 125.4 | 125. |
| National defense: Current dollars Quantity indexes: | 107.4 | 103.9 | 108.4 | 108.1 | 104.4 | 105.3 | 103.4 | 102. |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 89.4 88.6 88.7 | 83.1 | 90.5 89.2 89.3 | 89.5 88.5 88.6 | 84.2 83.8 83.9 | 84.4 84.0 84.1 | 82.2 81.6 81.8 | 81. |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator | 122.3 121.2 121.2 120.1 | 127.1 | 122.8 121.6 121.6 119.8 | 123.5 122.2 122.2 120.8 | 125.9 124.4 124.5 123.9 | 126.8 125.3 125.4 124.8 | 127.9 126.6 126.6 125.7 | 127. 126. |
| Nondefense: Current dollars | 145.4 | 150.5 | 146.6 | 147.2 | 148.4 | 150.7 | 152.5 | 150. |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 120.4 122.1 120.7 | | 121.2 123.0 121.5 | 121.1 122.9 121.5 | 120.1 121.8 120.4 | 121.7 123.5 122.0 | 122.4 124.4 122.9 | 120. |
| Price indexes: Fixed 1987 weights Chain-type annual weights | 120.2 119.1 | 122.9 | 120.3 119.2 | 120.9 119.7 | 122.5 121.6 | | 123.4 122.5 | 123. |
| Benchmark-years weights Implicit price deflator | 120.5 120.8 | 124.3 | 120.6 121.0 | 121.2 121.6 | 123.0 123.6 | 123.3 123.9 | 124.0 124.6 | 125. |
| State and local: Current dollars Quantity indexes: | 137.5 | 143.7 | 138.2 | 139.2 | 140.4 | 143.2 | 145.2 | 146 |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 115.2 115.0 115.1 | | 115.4 115.2 115.3 | 115.4 115.3 115.3 | 115.5 115.4 115.4 | 117.1 116.8 116.9 | 118.4 118.0 118.1 | 118 |
| Price indexes: Fixed 1987 weights Chain-type annual weights | 119.6 119.6 119.5 | 122.8 | 120.0 119.9 119.9 | 120.9 120.8 120.7 | 121.8 121.7 121.6 | 122.7 122.6 122.5 | 123.2 123.1 123.0 | 123 |
| Benchmark-years weights Implicit price deflator | 119.5 | 122.3 | 119.9 | 120.7 | 121.5 | 122.3 | | 122 |

NOTE.—The quantity and price indexes in this table are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. The fixed-weighted measures use as weights the composition of output in 1987. For the alternative indexes, the chain-type indexes with annual weights use weights for the preceding and current years, and the indexes with benchmark-years weights use weights of 1959, 1963, 1967, 1972, 1977, 1982, and 1987 and the most recent year. Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.2.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product, Final Sales, and Purchases

| | | | | Se | asonally | / adjust | ed | |
|-------------------------------------------------------|------------------|-------|----------------|----------------|----------------|----------------|----------------|-------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Gross domestic product: | | | | | | | | |
| Current dollars | 133.0 | 140.4 | 133.5 | 136.4 | 137.9 | 139.4 | 140.9 | 143.4 |
| Fixed 1987 weights | 109.8 | 113.1 | 110.1 | 111.6 | 111.9 | 112.4 | 113.2 | 114.8 |
| Chain-type annual weights Benchmark-years weights | | | 109.8 109.7 | 111.3 111.1 | 111.4 111.2 | 111.9 111.7 | 112.5 112.3 | |
| Price indexes: Fixed 1987 weights | 122.1 | 125.9 | 122.5 | 123.5 | 124.8 | 125.6 | 126.3 | 127.0 |
| Chain-type annual weights | | 123.9 | 121.8 | | 123.8 | 124.7 | 125.3 | 121.0 |
| Benchmark-years weights | 121.7 | | 122.0 | | 124.1 | 124.9 | 125.6 | |
| Implicit price deflator | 121.1 | 124.2 | 121.2 | 122.2 | 123.3 | 124.0 | 124.5 | 124.9 |
| Final sales of domestic product 1: Current dollars | 133.6 | 140.8 | 134.0 | 137.0 | 138.0 | 139.9 | 141.5 | 144.0 |
| Quantity indexes: Fixed 1987 weights | 110.3 | 113.4 | 110.5 | 112.1 | 111.9 | 112.7 | 113.7 | 115.2 |
| Chain-type annual weights | | | 110.1 | 111.6 | 111.3 | 112.2 | 112.9 | |
| Benchmark-years weights | 109.9 | | 110.0 | 111.5 | 111.2 | 112.1 | 112.8 | |
| Price indexes: Fixed 1987 weights | 122.2 | 126.0 | 122.6 | 123.6 | 124.9 | 125.7 | 126.4 | 127.1 |
| Chain-type annual weights | | 120.0 | 121.9 | | 123.9 | 124.7 | 125.4 | 121.1 |
| Benchmark-years weights | 121.7 | | 122.1 | 122.9 | 124.2 | 125.0 | 125.6 | |
| Implicit price deflator | 121.1 | 124.2 | 121.3 | 122.2 | 123.3 | 124.1 | 124.5 | 125.0 |
| Gross domestic purchases 2: | | | | | | | | |
| Current dollarsQuantity indexes: | 129.6 | 137.5 | 130.2 | 133.1 | 134.7 | 136.5 | 138.1 | 140.7 |
| Fixed 1987 weights | 107.2 | 111.3 | 107.6 | 109.1 | 109.7 | 110.6 | 111.6 | 113.3 |
| Chain-type annual weights Benchmark-years weights | 106.7 106.7 | | 107.0 107.1 | 108.4 108.5 | 108.9 108.9 | 109.6 109.7 | 110.4 110.5 | |
| Price indexes: | 100.7 | | 107.1 | 100.0 | 100.5 | 100.7 | 110.0 | |
| Fixed 1987 weights | 122.0 | | 122.5 | 123.4 | 124.4 | 125.3 | 125.9 | 126.5 |
| Chain-type annual weights | 121.5 121.5 | | 121.9 | | 123.8 | 124.6 | 125.2 | |
| Benchmark-years weights Implicit price deflator | 120.9 | 123.6 | 121.9 121.0 | | 123.8 122.8 | 124.6 123.5 | 125.2 123.8 | 124.1 |
| • • | 0.0 | .20.0 | | | | .20.0 | 0.0 | |
| Final sales to domestic purchasers 3: Current dollars | 130.2 | 137.9 | 130.7 | 133.6 | 134.8 | 137.0 | 138.7 | 141.2 |
| Fixed 1987 weights | 107.7 | 111.6 | 108.0 | 109.5 | 109.7 | 110.9 | 112.1 | 113.7 |
| Chain-type annual weights | 107.1 | | 107.4 | | 108.8 | 109.9 | 110.8 | |
| Benchmark-years weights Price indexes: | 107.2 | | 107.5 | 108.9 | 108.9 | 110.0 | 111.0 | |
| Fixed 1987 weights | 122.1 | 125.6 | 122.6 | 123.4 | 124.5 | 125.4 | 126.0 | 126.6 |
| Chain-type annual weights | 121.6 | | 122.0 | | 123.8 | 124.7 | 125.2 | |
| Benchmark-years weights | 121.5 | 400.0 | 122.0 | 122.8 | 123.8 | 124.7 | 125.2 | 4040 |
| Implicit price deflator | 120.9 | 123.6 | 121.0 | 122.0 | 122.8 | 123.5 | 123.8 | 124.2 |

Equals GDP less change in business inventories.
 Equals GDP less net exports of goods and services or equals the sum of personal consumption expenditures, gross private domestic investment, and government purchases.
 Equals gross domestic purchases less change in business inventories or equals the sum of personal

consumption expenditures, gross private domestic fixed investment, and government purchases.

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

Table 7.3.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross National Product and Command-Basis Gross National Product

| | | | Seasonally adjusted | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|---------------------|----------------|----------------|----------------|----------------|----|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | |
| | | | ≡ | IV | 1 | II | III | IV | |
| Gross national product: Current dollars | 133.0 | | 133.5 | 136.3 | 137.8 | 139.2 | 140.9 | | |
| Fixed 1987 weights | | | | 111.2 | | 111.8 | | | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator | 122.1 121.4 121.6 121.1 | | | 122.5 122.8 | 123.8 124.0 | 124.6 124.9 | | | |
| Less: Exports of goods and services and receipts of factor income: Current dollars | 163.1 145.7 | | 163.8 145.6 | | | | 168.1 149.0 | | |
| Plus: Command-basis exports of goods and services and receipts of factor income: Current dollars Quantity index, fixed 1987 weights | 176.0 147.8 | | | | 178.9 149.4 | | 179.5 153.2 | | |
| Equals: Command-basis gross national product: Current dollars | 133.0 110.1 | | 133.5 110.3 | | | 139.2 112.6 | 140.9 113.7 | | |

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

Table 7.4.—Price Indexes for Personal Consumption Expenditures by Major Type of Product, Fixed 1987 Weights

[Index numbers, 1987=100]

| Personal consumption expenditures | 124.9 | 128.7 | 125.5 | 126.5 | 127.5 | 128.4 | 128.9 | 129.7 |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------|-------------------------------------------|-------------------------------------------------------------|
| Durable goods | 111.5 | 113.8 | 111.8 | 112.1 | 112.6 | 113.5 | 114.1 | 114.9 |
| Motor vehicles and parts Furniture and household equipment Other | 112.2 104.0 124.2 | 115.8 104.3 126.8 | 112.7 103.8 124.7 | | 113.9 103.9 126.1 | | | 117.5 105.0 127.1 |
| Nondurable goods | 123.0 | 124.9 | 123.4 | 123.8 | 124.9 | 125.0 | 124.5 | 125.2 |
| Food | 122.0 117.9 123.3 116.5 128.8 | 119.2 122.1 | 122.2 118.2 124.8 118.5 129.6 | 122.7 118.2 124.7 117.3 130.3 | 123.5 119.8 126.3 116.2 131.4 | 119.0 123.1 117.4 | 124.3 118.9 118.8 116.5 131.5 | 125.5 119.0 120.2 113.7 131.5 |
| Services | 129.5 | 134.6 | 130.1 | 131.6 | 132.8 | 134.2 | 135.2 | 136.2 |
| Housing Household operation Electricity and gas Other household operation Transportation Medical care Other | 124.1 112.5 111.0 113.8 128.3 140.9 132.2 | 114.5 116.4 | 124.4 112.9 111.4 114.2 127.8 142.0 133.2 | 125.4 113.9 112.7 114.9 131.9 144.0 134.4 | 126.5 113.5 112.2 114.6 134.4 145.9 135.4 | 114.2 116.2 134.9 | 115.8 116.9 136.0 | 128.9 116.9 115.6 118.1 136.8 150.7 138.8 |
| Addenda: Price indexes for personal consumption expenditures: | | | | | | | | |
| Chain-type annual weights Benchmark-years weights | | | 124.9 125.0 | 125.8 125.9 | 126.8 127.0 | 127.7 127.9 | | |

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

Table 7.6.—Price Indexes for Fixed Investment by Type, Fixed 1987 Weights

[Index numbers, 1987=100]

| [| | | | | | | | | | | |
|------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|-----------------------------------------|------------------------|--------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------|--|--|--|
| | | | | Se | asonally | adjust | ed | | | | |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | | | |
| | | | III | IV | I | II | III | IV | | | |
| Fixed investment | 112.0 | 114.7 | 112.4 | 112.8 | 113.5 | 114.4 | 115.2 | 115.7 | | | |
| Nonresidential | 111.4 | 113.3 | 111.7 | 112.0 | 112.4 | 113.1 | 113.6 | 114.0 | | | |
| Structures | 114.6 | 117.8 | 114.8 | 115.6 | 116.3 | 117.4 | 118.4 | 119.3 | | | |
| farmUtilitiesMining exploration, shafts, and | 113.7 115.6 | 117.2 119.3 | 114.0 115.8 | | 115.6 117.3 | 116.5 119.4 | 117.8 119.8 | 118.8 120.8 | | | |
| wells Other structures | 123.5 110.7 | 123.3 113.6 | 122.9 110.8 | | 122.9 112.3 | 123.6 113.7 | 123.3 113.6 | 123.5 114.9 | | | |
| Producers' durable equipment Information processing and related equipment | 109.7 93.1 | 110.9 92.3 | 110.1 92.9 | 110.1 92.8 | 110.4 92.7 | 110.9 92.3 | 111.2 92.1 | 111.2 91.9 | | | |
| Computers and peripheral equipment ¹ | 59.6 107.9 120.2 | 53.0 109.6 122.5 | 58.3 108.2 121.4 | 57.0 108.5 120.9 | 55.7 109.0 121.1 | 53.6 109.5 122.3 | 52.2 109.7 123.2 | 50.3 110.3 123.4 | | | |
| equipmentOther | 116.8 117.1 | 119.2 119.1 | 117.1 117.7 | 117.3 118.0 | 118.4 118.2 | 119.1 119.1 | 119.6 119.4 | 119.6 119.6 | | | |
| Residential | 113.4 | 117.7 | 113.8 | 114.8 | 115.8 | 117.2 | 118.5 | 119.3 | | | |
| Structures Single family Multifamily Other structures | 113.6 113.4 111.3 114.7 | 118.0 118.3 115.6 118.4 | 114.0 113.9 111.5 114.9 | 115.2 112.5 | 116.1 116.2 113.5 116.7 | 117.5 117.3 114.6 118.7 | 118.8 119.2 116.4 119.1 | 119.7 120.6 117.7 119.0 | | | |
| Producers' durable equipment | 104.9 | 105.5 | 105.2 | 104.9 | 104.5 | 105.4 | 105.9 | 106.3 | | | |
| Addenda: Price indexes for fixed investment: Chain-type annual weights Benchmark-years weights | | | 111.2 110.6 | | | | | | | | |

^{1.} Includes new computers and peripheral equipment only.

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

Table 7.9.—Price Indexes for Exports and Imports of Goods and Services and for Receipts and Payments of Factor Income, Fixed 1987 Weights

| Exports of goods and services | 113.7 | 115.5 | 113.9 | 114.3 | 114.7 | 115.5 | 115.7 | 116.0 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------------------------|
| Merchandise ¹ Durable Nondurable Services ¹ | 109.6 109.3 110.2 123.7 | 110.8 | 109.4 110.1 | 109.8 109.5 | | 111.1 | 110.8 110.0 | 110.9 111.0 110.7 128.3 |
| Receipts of factor income 2 | 122.5 | | 122.7 | 123.7 | 124.9 | 125.6 | 126.1 | |
| Imports of goods and services | 115.1 | 114.9 | 116.3 | 115.9 | 114.5 | 115.6 | 114.8 | 114.9 |
| Merchandise ¹ Durable Nondurable Services ¹ | 112.1 112.8 110.7 128.9 | 112.0 114.3 108.0 128.0 | 113.3 112.7 | 112.4 | | | 107.3 | 111.9 115.3 106.0 127.9 |
| Payments of factor income 3 | 125.0 | | 125.3 | 126.6 | 127.9 | 128.9 | 129.6 | |
| Addenda: Price indexes for exports of goods and services: Chain-type annual weights Benchmark-years weights Price indexes for imports of goods and services: | | | | | 113.4 112.9 | | | |
| Chain-type annual weights Benchmark-years weights | 113.4 112.3 | | 114.4 113.3 | 114.1 113.0 | 112.5 111.5 | 113.4 112.4 | | |

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

Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

^{3.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.
NOTE.— Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.10.—Price Indexes for Exports and Imports of Merchandise by End-Use Category, Fixed 1987 Weights

| | | | | Se | asonally | / adjust | ed | |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | |
| | | | III | IV | I | II | III | IV |
| Exports of merchandise | 109.6 | 110.4 | 109.7 | 109.7 | 110.0 | 110.5 | 110.5 | 110.9 |
| Foods, feeds, and beverages | 114.5 108.3 116.5 104.6 105.8 122.1 58.9 116.5 112.3 118.0 114.5 120.9 113.0 113.0 | 116.4 109.2 125.2 101.9 105.9 125.6 52.1 118.0 113.2 119.9 115.0 124.1 113.9 113.9 | 112.6 109.4 118.2 105.4 105.7 122.4 57.4 116.7 112.3 117.8 113.0 113.0 113.0 | 111.7 108.8 118.7 104.4 105.8 123.5 56.3 117.0 113.0 118.8 115.0 122.1 113.4 113.4 | 113.1 109.1 122.3 103.1 105.8 124.6 54.9 117.1 113.3 119.6 115.4 123.3 113.4 113.4 | 113.1 110.4 127.5 102.6 106.0 125.4 52.7 117.9 113.3 119.7 114.9 123.9 114.1 114.1 | 118.2 109.1 126.2 101.3 105.7 125.1 51.2 118.1 119.7 114.8 124.1 113.8 113.8 | 121.0 108.3 124.9 100.8 106.2 127.2 49.7 118.8 113.4 120.4 115.1 125.0 114.3 114.3 |
| Imports of merchandise | 112.1 | 112.0 | 113.1 | 113.1 | 111.6 | 112.7 | 111.8 | 111.9 |
| Foods, feeds, and beverages | 108.1 114.2 115.3 113.1 100.8 107.3 122.2 61.4 116.5 114.8 118.3 116.9 120.1 114.7 | 108.1 114.2 116.7 111.6 91.4 108.1 125.6 55.6 118.4 116.9 119.4 120.6 115.9 115.9 | 106.3 114.6 116.2 113.0 107.7 108.1 122.4 60.6 117.6 114.9 119.0 117.5 120.8 115.0 115.0 | 107.2 114.4 114.7 114.0 104.0 108.0 123.5 59.0 117.8 115.9 119.8 117.9 122.3 115.8 115.8 | 105.7 114.8 117.6 111.9 95.5 106.9 124.6 57.8 116.5 115.1 118.8 117.9 119.8 114.8 | 106.6 115.0 117.4 112.4 99.1 107.7 125.4 56.3 117.8 116.5 119.7 120.9 115.8 115.8 | 108.8 113.4 115.5 111.1 88.5 108.6 125.2 55.0 119.3 117.0 119.5 118.4 120.8 116.0 116.0 | 111.3 113.7 116.4 110.9 82.3 109.0 127.2 53.3 120.1 119.1 119.6 118.6 120.8 116.9 116.9 |
| Addenda: Exports of agricultural products ¹ Exports of nonagricultural products Imports of nonpetroleum products | 111.5 109.4 113.4 | 113.5 110.1 114.4 | 110.3 109.6 113.7 | 109.8 109.7 114.2 | 111.1 109.8 113.4 | 110.5 110.5 114.3 | 115.0 109.9 114.4 | 117.3 110.0 115.3 |

^{1.} Includes parts of: exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

Table 7.11.—Price Indexes for Government Purchases by Type, Fixed 1987 Weights

| [index numbers, 1907=100] | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|--|--|
| | | Seasonally adjusted | | | | | | | | | |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | | | |
| | | | ≡ | IV | Ι | = | Ш | IV | | | |
| Government purchases | 120.6 | 124.2 | 121.0 | 121.7 | 123.2 | 124.0 | 124.8 | 124.8 | | | |
| Federal | 121.8 | 126.1 | 122.2 | 122.8 | 125.1 | 125.8 | 126.8 | 126.6 | | | |
| National defense Durable goods Nondurable goods Services Compensation of employees Military Civilian Other services Structures | 122.3 113.7 115.6 127.1 134.6 136.6 130.6 116.4 114.0 | 127.1 117.7 113.1 132.8 142.9 143.6 141.5 118.4 117.7 | 122.8 113.6 118.5 127.8 135.4 137.6 130.8 117.1 113.2 | 123.5 115.3 117.8 128.0 135.1 136.6 132.0 117.8 116.2 | 125.9 117.1 113.0 131.2 140.6 142.3 137.1 117.8 117.2 | 126.8 117.9 115.9 132.1 141.7 143.3 138.3 118.5 117.4 | 127.9 117.9 112.6 134.0 144.7 143.9 146.5 118.8 117.3 | 127.7 117.8 111.0 133.8 144.7 145.0 144.1 118.4 118.7 | | | |
| Nondefense Durable goods Nondurable goods Commodity Credit Corporation | 120.2 101.2 | 122.9 93.2 | 120.3 101.7 | 120.9 96.9 | 122.5 94.0 | 122.5 94.0 | 123.4 94.1 | 123.2 90.6 | | | |
| inventory change | 107.9 124.5 129.3 117.9 113.7 | 105.6 128.8 136.1 118.8 116.5 | 108.4 124.5 129.4 117.8 113.9 | 106.0 125.5 130.6 118.4 114.8 | 106.0 128.0 135.2 118.1 115.1 | 106.3 128.3 135.7 118.1 116.2 | 106.0 129.3 136.4 119.3 116.8 | 104.1 129.7 137.0 119.7 117.7 | | | |
| State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures | 119.6 113.2 115.4 122.6 127.5 69.3 109.5 | 122.8 115.4 116.1 126.0 132.1 59.5 113.1 | 120.0 113.5 116.6 122.9 127.9 68.5 109.9 | 120.9 113.6 114.9 124.0 129.2 67.0 111.6 | 121.8 114.5 116.2 125.0 130.6 63.9 111.5 | 122.7 115.4 117.9 125.7 131.6 60.3 113.0 | 123.2 115.8 115.6 126.6 132.7 60.1 113.3 | 123.4 115.7 114.5 126.8 133.5 53.5 114.5 | | | |
| Addenda: Price indexes for government purchases: Chain-type annual weights | | | 120.3 120.5 | 121.0 121.3 | 122.4 122.6 | 123.2 123.5 | | | | | |
| Chain-type annual weights Benchmark-years weights Price indexes for Federal nondefense purchases: | | | 121.6 121.6 | 122.2 122.2 | 124.4 124.5 | 125.3 125.4 | | | | | |
| Chain-type annual weights Benchmark-years weights Price indexes for State and local purchases: | 119.1 120.5 | | 119.2 120.6 | 119.7 121.2 | 121.6 123.0 | 121.8 123.3 | | | | | |
| Chain-type annual weights Benchmark-years weights | | | 119.9 119.9 | 120.8 120.7 | 121.7 121.6 | 122.6 122.5 | 123.1 123.0 | | | | |

Table 7.12.—Price Indexes for National Defense Purchases, Fixed 1987 Weights

| | | | Seasonally adjusted | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | |
| | | | ≡ | IV | ı | II | = | IV | |
| National defense purchases | 122.3 | 127.1 | 122.8 | 123.5 | 125.9 | 126.8 | 127.9 | 127.7 | |
| Durable goods | 113.7 | 117.7 | 113.6 | 115.3 | 117.1 | 117.9 | 117.9 | 117.8 | |
| Military equipment Aircraft Missiles Ships Vehicles Electronic equipment Other Other durable goods | 114.4 118.4 98.6 118.4 120.9 109.2 116.6 106.5 | 118.8 125.7 98.4 121.7 128.5 109.8 118.1 105.9 | 114.4 118.5 98.4 118.3 121.0 109.5 116.5 106.3 | 116.2 121.8 97.4 119.2 124.1 109.6 117.9 106.3 | 118.2 124.8 99.1 120.7 126.0 109.7 118.2 106.3 | 119.1 125.3 99.9 121.4 130.8 109.6 118.2 106.2 | 119.0 127.0 96.8 122.7 126.9 109.6 117.9 105.8 | 119.0 125.7 98.0 122.1 130.1 110.1 118.3 105.5 | |
| Nondurable goods | 115.6 | 113.1 | 118.5 | 117.8 | 113.0 | 115.9 | 112.6 | 111.0 | |
| Petroleum products Ammunition Other nondurable goods | 119.7 108.5 117.9 | 112.5 111.3 115.5 | 130.1 106.7 117.0 | 124.2 111.5 116.8 | 111.1 111.3 116.7 | 119.7 111.1 116.2 | 110.8 112.6 114.3 | 108.4 110.1 114.6 | |
| Services | 127.1 | 132.8 | 127.8 | 128.0 | 131.2 | 132.1 | 134.0 | 133.8 | |
| Compensation of employees Military Civilian Other services Contractual research and | 134.6 136.6 130.6 116.4 | 142.9 143.6 141.5 118.4 | 135.4 137.6 130.8 117.1 | 135.1 136.6 132.0 117.8 | 140.6 142.3 137.1 117.8 | 141.7 143.3 138.3 118.5 | 144.7 143.9 146.5 118.8 | 144.7 145.0 144.1 118.4 | |
| development Installation support Weapons support Personnel support Transportation of material Travel of persons Other | 111.9 113.5 120.5 134.7 104.6 110.6 | 113.1 115.6 124.1 135.9 105.0 116.2 | 112.3 114.5 121.1 136.6 104.1 108.5 | 113.5 114.5 122.1 136.8 104.5 111.3 | 113.8 113.8 123.1 134.9 104.9 115.6 | 113.6 115.4 124.0 136.4 104.8 115.6 | 113.2 116.8 124.4 136.0 105.8 116.2 | 111.7 116.6 125.0 136.5 104.5 117.4 | |
| Structures | 114.0 | 117.7 | 113.2 | 116.2 | 117.2 | 117.4 | 117.3 | 118.7 | |
| Military facilitiesOther | 106.1 128.6 | 108.3 134.9 | 104.4 129.4 | 107.5 132.2 | 108.1 133.9 | 108.0 134.8 | 107.7 135.0 | 109.4 135.9 | |
| Addenda: Price indexes for national defense purchases: Chain-type annual weights | 121.2 121.2 | | 121.6 121.6 | 122.2 122.2 | 124.4 124.5 | 125.3 125.4 | | | |

^{1.} Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

Table 7.13.—Implicit Price Deflators for the Relation of Gross Domestic Product, Gross National Product, Net National Product, and National Income

[Index numbers, 1987=100]

| Gross domestic product | 121.1 | 124.2 | 121.2 | 122.2 | 123.3 | 124.0 | 124.5 | 124.9 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|----------------|----------------|-------|-------|----------------|-------|
| Plus: Receipts of factor income from the rest of the world ¹ | 122.5 | | 122.7 | 123.7 | 124.9 | 125.6 | 126.1 | |
| rest of the world 2 | 124.8 | | 125.1 | 126.3 | 127.7 | 128.4 | 129.2 | |
| Equals: Gross national product | 121.1 | | 121.2 | 122.2 | 123.3 | 124.0 | 124.4 | |
| Less: Consumption of fixed capital | 110.6 | 112.1 | 111.0 | 111.0 | 111.5 | 111.9 | 112.5 | 112.6 |
| Equals: Net national product | 122.5 | | 122.7 | 123.6 | 124.8 | 125.5 | 126.0 | |
| Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises Statistical discrepancy | | 132.1 | | | | | | 133.6 |
| Equals: National income | | | | | | - | 125.1 | |
| Addenda: Net domestic product Domestic income | 122.5 121.7 | | 122.7 121.7 | 123.7 123.0 | | | 126.1 125.2 | 126.5 |

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 7.14.—Implicit Price Deflators for Gross Domestic Product by Sector

[Index numbers, 1987=100]

| | Seasonally adjusted | | | | | | | | |
|-----------------------------------------------------------------------|-------------------------------------------|----------------|----------------|-------------------------|-------------------------|----------------|-------------------------|-------------------------------------------|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | 3 | |
| | | | III | IV | ı | II | III | IV | |
| Gross domestic product | 121.1 | 124.2 | 121.2 | 122.2 | 123.3 | 124.0 | 124.5 | 124.9 | |
| Business | 119.8 | 122.6 | 119.9 | 120.9 | 121.8 | 122.5 | 122.9 | 123.3 | |
| Nonfarm Nonfarm less housing Housing Farm Statistical discrepancy | 120.1 119.5 125.5 106.1 119.8 | 127.3 110.1 | 118.9 | 120.8 124.5 104.9 | 121.6 126.9 107.1 | 126.8 109.3 | 122.7 127.4 108.3 | 123.4 122.9 128.0 115.5 123.3 | |
| Households and institutions | 127.7 | 131.9 | 128.2 | 129.8 | 131.3 | 131.3 | 131.9 | 133.2 | |
| Private households Nonprofit institutions | 115.7 128.2 | 119.4 132.5 | 116.4 128.7 | 117.4 130.4 | | | | 121.1 133.7 | |
| General government | 129.0 | 134.4 | 129.4 | 130.3 | 132.8 | 133.8 | 135.1 | 135.8 | |
| FederalState and local | 132.8 127.4 | | | | | | | 141.9 133.3 | |
| Addendum: Gross domestic business product less housing | 119.3 | | | | | | | | |

Table 7.15.—Current-Dollar Cost and Profit Per Unit of Constant-Dollar Gross Domestic Product of Nonfinancial Corporate Business

[Dollars]

| | - | - | | | | | | |
|---------------------------------------------------------------------------------------------------------------|--------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| Current-dollar cost and profit per unit of constant-dollar gross domestic product 1 | 1.149 | | 1.149 | 1.154 | 1.162 | 1.164 | 1.164 | |
| Consumption of fixed capital | .125 | | .129 | .122 | .124 | .123 | .124 | |
| Net domestic product | 1.024 | | 1.021 | 1.032 | 1.037 | 1.041 | 1.039 | |
| Indirect business tax and nontax liability plus business transfer payments less subsidies | | | .116 .905 .762 | .116 .916 .761 | .116 .921 .772 | .118 .923 .770 | .118 .922 .769 | |
| consumption adjustments Profits tax liability Profits after tax with inventory valuation and capital | .099 .035 | | .096 .034 | .109 .037 | .102 .037 | .108 .040 | .108 .038 | |
| consumption adjustments | .064 .048 | | .062 .047 | .072 .046 | .065 .047 | .068 .046 | .070 .045 | |

^{1.} Equals the deflator for gross domestic product of nonfinancial corporate business with the decimal point shifted two places to the left.

^{2.} Includes depot maintenance and contractual services for weapons systems, other than research and development.

^{3.} Includes compensation of foreign personnel, consulting, training, and education.

^{2.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Table 8.1.—Percent Change From Preceding Period in Selected Series

[Percent]

| | | | | | • | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|---------------------------------|----------------------------------|---------------------------------|----------------------------|---------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|---------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|--------------|
| | | | Sea | sonally | adjuste | d at an | nual rate | es | | | | Sea | sonally | adjuste | d at an | nual rat | es |
| | 1992 | 1993 | 19 | 92 | | 199 | 93 | | | 1992 | 1993 | 19 | 92 | | 199 | 3 | - |
| | | | III | IV | I | II | Ш | IV | | | | III | IV | 1 | II | III | IV |
| Gross domestic product: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes: | 5.5 2.6 2.3 2.4 | | 4.6 3.4 3.0 3.1 | 9.2 5.7 5.5 5.5 | 4.4 .8 .4 .4 | 4.3 1.9 1.8 1.8 | 4.4 2.9 2.2 2.2 | 7.4 5.9 | Structures: Current dollars | -5.5 -6.0 -6.0 -6.0 | 3.5 | -8.2 -10.3 -10.3 -10.4 | .7 -2.1 -1.9 -1.9 | 3.1 .5 .6 | 12.6 8.1 8.4 8.4 | 3.4 .3 .3 | 14.3 |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights . | 3.3 3.1 3.2 | | 2.5 2.0 2.3 | 3.1 2.8 2.9 | 4.3 4.1 4.1 | 2.8 2.7 2.7 | 2.1 2.1 2.1 | 2.2 | Fixed 1987 weights Chain-type annual weights Benchmark-years weights . | .6 .6 .6 | 2.8 | 2.3 2.3 2.3 | 2.7 2.8 2.8 | 2.5 2.4 2.4 | 3.8 3.9 3.9 | 3.4 3.3 3.3 | 3.3 |
| Personal consumption expenditures: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 6.0 2.6 2.3 2.5 | | 5.7 4.2 3.8 4.0 | 9.9 5.6 5.1 5.2 | 3.8 .8 .6 .6 | 6.1 3.4 3.2 3.2 | 5.5 4.4 4.0 4.0 | 6.3 4.0 | Producers' durable equipment: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights. | 5.3 6.9 4.7 5.7 | 13.1 | 7.0 10.2 6.7 7.7 | 10.3 11.5 11.6 11.9 | 14.3 19.9 14.5 14.5 | 19.7 19.8 19.1 19.1 | 3.9 10.0 4.7 4.7 | 21.2 |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 3.7 3.6 3.6 | | 3.4 3.2 3.3 | 3.1 2.9 3.0 | 3.4 3.3 3.3 | 2.9 2.9 2.9 | 1.4 1.5 1.5 | 2.7 | Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights . | 1.3 .5 .8 | 1.1 | 1.8 .4 .8 | 2 -1.1 9 | 1.2 | 1.8 .8 .8 | 1.0 .3 .3 | |
| Durable goods: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights | 8.6 7.0 6.7 | 8.1 7.2 | 11.2 10.7 10.4 | 13.1 13.2 12.1 | -1.0 -1.3 -2.2 | 13.3 10.8 10.4 | 8.0 7.6 6.4 | 15.6 14.3 | Residential: Current dollarsQuantity indexes: Fixed 1987 weights | 17.9 16.3 | 12.8 8.7 | 5.0 1.2 | 37.5 32.8 | 5.2 1.5 | -4.8 -9.5 | 16.5 11.9 | 35.4 31.7 |
| Benchmark-years weights Price indexes: Fixed 1987 weights Chain-type annual weights | 6.8 2.2 1.8 | 2.0 | 10.7 10.7 1.1 | 12.1 12.2 1.1 1.0 | -2.2 -2.2 1.8 1.4 | 10.4 10.4 3.3 2.8 | ~ 4 | 2.6 | Chain-type annual weights Benchmark-years weights Price indexes: Fixed 1987 weights | 16.3 16.3 1.3 | 3.8 | 1.3 1.3 3.6 | 32.9 32.8 3.7 | 1.6 1.6 3.5 | -9.4 -9.4 5.0 | 11.8 11.8 4.6 | 2.8 |
| Benchmark-years weights Nondurable goods: Current dollars | 2.0 | | .8 5.5 | 1.1 | 1.4 | 2.8 | 1.8 | 4.8 | Chain-type annual weights Benchmark-years weights Exports of goods and services: | 1.4 | | 3.6 3.6 | 3.6 3.6 | 3.4 | 5.1 5.1 | 4.3 | |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes: Fixed 1987 weights | 1.4 1.4 1.4 2.1 | | 3.0 3.0 3.1 2.5 | 7.3 7.0 7.0 | -2.1 -2.2 -2.2 3.5 | 2.7 2.5 2.5 | 3.7 3.5 3.5 -1.6 | 2.6 | Current dollars | 6.5 6.4 5.6 6.0 | 3.1 | 5.6 6.5 5.4 5.6 | 8.8 8.8 8.1 8.2 | -2.1 -2.4 -2.7 -2.7 | 5.5 3.6 3.3 3.3 | -4.1 9 -3.4 -3.4 | 14.6 |
| Chain-type annual weights Benchmark-years weights Services: | 2.0 2.1 | | 2.4 2.5 | 1.1 | 3.4 3.4 | .4 | -1.3 | | Fixed 1987 weights | 1.2 .8 1.0 | 1.5 | .7 .3 .4 | 1.4 .8 .9 | 1.5 .8 .8 | 2.8 2.4 2.4 | .6 0 0 | 1.0 |
| Current dollars | 6.9 2.2 2.0 2.1 5.0 | 2.9 | 4.7 3.3 2.9 3.1 4.4 | 10.1 2.9 2.6 2.8 4.6 | 6.4 3.1 2.8 2.8 3.7 | 6.3 2.1 2.0 2.0 | 6.8 3.9 3.8 3.8 | 5.2 2.2 3.1 | Imports of goods and services: Current dollars | 7.9 8.7 7.2 7.9 | 10.5 | 8.4 9.2 6.4 7.2 | 8.2 5.6 5.0 5.2 | 3.6 11.6 9.8 9.8 | 15.3 13.3 11.8 11.8 | .1 6.0 3.8 3.8 | 16.6 |
| Chain-type annual weights Benchmark-years weights Gross private domestic investment: | 4.8 4.9 | | 4.1 4.3 | 4.4 4.5 | 3.7 3.7 | 4.3 4.2 4.2 | 2.9 | | Fixed 1987 weights | 1.2 .6 .8 | | 6.3 5.4 5.5 | -1.3 -1.0 -1.0 | -4.7 -5.3 -5.3 | 3.8 3.2 3.2 | -2.7 -3.1 -3.1 | |
| Current dollars | 8.1 8.5 7.4 | | 1.3 1.4 –1.4 | 16.4 13.3 13.8 | 21.1 22.7 19.3 | 0 .3 -1.2 | 4.6 5.0 2.0 | 25.6 27.1 | Government purchases: Current dollars Quantity indexes: Fixed 1987 weights | 3.0 1 | 2.2 7 | 4.8 4.1 | 1.7 -1.4 | -1.4 -6.4 | 6.8 4.3 | 2.2 | .2 7 |
| Benchmark-years weights Price indexes: Fixed 1987 weights Chain-type annual weights | 7.9 | | 1 | 13.8 | 19.3 | -1.2 | 2.0 | | Chain-type annual weights | 2 2 3.4 3.1 | 3.0 | 3.1 3.3 2.1 1.8 | 8 8 2.6 2.5 | -5.9 -5.9 5.0 4.6 | 4.0 4.0 2.6 2.7 | 0 0 2.5 2.4 | .1 |
| Benchmark-years weights Fixed investment: Current dollars | 5.8 | | 2.9 | 15.3 | 9.2 | 10.6 | 7.3 | 23.7 | Benchmark-years weights Federal: Current dollars | 3.2 | -1.2 | 1.9 7.6 | 2.5 4 | 4.6 -8.3 | 2.7 | 2.4 -3.4 | -3.5 |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 6.2 5.1 5.6 | 10.9 | 3.1 1.2 1.7 | 14.0 14.1 14.3 | 10.7 7.7 7.7 | 9.0 8.2 8.2 | 8.5 5.7 5.7 | 23.7 | Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | -3.5 -3.4 -3.5 | -4.8 | | -3.5 -2.1 -2.1 | -16.2 -15.0 -15.0 | 2.0 2.2 2.2 | -6.2 -6.5 -6.5 | -4.3 |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 1.1 .8 .9 | | 2.5 1.7 2.0 | 1.7 1.1 1.2 | 2.2 1.7 1.7 | 3.3 2.7 2.7 | ~ . | 1.8 | Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 4.5 4.2 4.4 | 3.5 | 2.7 1.8 2.1 | 2.1 1.8 2.0 | 7.5 7.2 7.2 | 2.3 2.3 2.3 | 3.3 3.5 3.5 | 6 |
| Nonresidential: Current dollars Quantity indexes: Fixed 1987 weights | 1.7 2.9 | | 2.1 3.8 | 7.4 7.6 | 10.9 14.4 | 17.4 16.6 | 3.8 7.4 | 19.2 21.0 | National defense: Current dollarsQuantity indexes: Fixed 1987 weights | -2.7 -7.1 | -3.3 -7.1 | 8.4 10.5 | | -13.1 -21.4 | 3.7 | -7.2 -9.8 | -2.5 -3.1 |
| Chain-type annual weights Benchmark-years weights Price indexes: | 1.2 2.0 | | 1.2 1.9 | 7.4 7.6 | 10.3 10.3 | 16.0 16.0 | 3.4 3.4 | | Chain-type annual weights Benchmark-years weights Price indexes: | −7.1 −7.1 | | 6.6 7.3 | -3.0 -2.9 | -19.6 -19.6 | .8 .8 | -10.6 -10.6 | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 1.1 .5 .7 | | 2.0 .9 1.3 | .8 .1 .2 | 1.6 1.0 1.0 | 2.5 1.8 1.8 | 1.9 1.2 1.2 | 1.3 | Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 4.9 4.7 4.8 | 3.9 | 2.1 | 2.1 1.8 1.9 | 8.1 7.6 7.6 | 3.0 2.9 2.9 | 3.5 4.0 4.0 | 5 |

Table 8.1.—Percent Change From Preceding Period in Selected Series—Continued

| [Percent] | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------|-------------------|------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|--|--|--|--|
| | | | Sea | sonally | adjuste | ed at an | nual ra | tes | | | | |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | | | | |
| | | | Ш | IV | I | Ш | III | IV | | | | |
| Nondefense: Current dollars | 9.4 | 3.6 | 5.8 | 1.8 | 3.6 | 6.2 | 4.9 | -5.5 | | | | |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights | 6.2 | .6 | 4.4 4.5 | 4 1 | -3.2 -3.5 | 5.5 5.5 | 2.5 2.9 | | | | | |
| Benchmark-years weights Price indexes: | 6.2 | | 4.6 | 1 | -3.5 | 5.5 | 2.9 | | | | | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 3.1 3.1 3.1 | | 1.2 .9 1.1 | 1.9 1.9 1.9 | 5.7 6.3 6.3 | 0 .8 .8 | | 7 | | | | |
| State and local: Current dollars Quantity indexes: | 4.5 | 4.5 | 3.0 | 3.1 | 3.3 | 8.3 | 5.8 | 2.5 | | | | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes: | 2.2 2.1 2.1 | | 1.2 1.2 1.2 | 0 .1 .1 | .3 .4 .4 | 5.6 5.2 5.2 | 4.5 4.2 4.2 | 1.6 | | | | |
| Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 2.5 2.4 2.4 | | 1.7 1.8 1.8 | 2.9 2.9 2.9 | 3.0 2.9 2.9 | 2.9 3.0 3.0 | | 7 | | | | |
| Addenda: Final sales of domestic product: Current dollars | 5.2 | 5.4 | 4.9 | 9.1 | 2.9 | 5.7 | 4.8 | 7.1 | | | | |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 2.3 2.0 2.1 | | 3.7 3.4 3.4 | 5.8 5.6 5.5 | 8 -1.1 -1.1 | 3.2 3.0 3.0 | 3.4 2.7 2.7 | | | | | |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 3.3 3.1 3.2 | | 2.5 2.0 2.3 | 3.2 2.7 2.8 | 4.3 4.1 4.1 | 2.8 2.7 2.7 | | 2.2 | | | | |
| Gross domestic purchases: Current dollars | 5.7 | 6.1 | 4.9 | 9.1 | 5.0 | 5.4 | 4.8 | 7.7 | | | | |
| Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 2.9 2.5 2.7 | | 3.8 3.0 3.3 | 5.4 5.1 5.1 | 2.5 1.7 1.7 | 3.1 2.7 2.7 | 3.7 3.0 3.0 | | | | | |
| Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights | 3.3 3.1 3.2 | | 3.0 2.7 2.8 | 2.8 2.7 2.7 | 3.5 3.4 3.4 | 2.9 2.8 2.8 | 1.8 1.7 1.7 | | | | | |
| Final sales to domestic purchasers: Current dollars Quantity indexes: | 5.4 | 6.0 | 5.2 | 9.0 | 3.5 | 6.8 | 5.2 | 7.4 | | | | |
| Fixed 1987 weights | 2.5 2.2 2.4 | 3.7 | 4.0 3.4 3.6 | 5.5 5.2 5.2 | .8 .3 .3 | 4.4 4.0 4.0 | 4.2 3.5 3.5 | | | | | |
| Fixed 1987 weights | | 2.9 | 3.0 2.7 2.8 | 2.8 2.7 2.7 | 3.5 3.3 3.3 | 2.9 2.8 2.8 | 1.8 1.7 1.7 | | | | | |
| Gross national product: Current dollars | 5.4 | | 4.8 | 8.5 | 4.6 | 4.2 | 4.8 | | | | | |
| Fixed 1987 weights | 2.2 | | 3.6 3.2 3.3 | 5.0 4.9 4.8 | 1.0 .6 .6 | 1.9 1.7 1.7 | 3.3 2.7 2.7 | | | | | |
| Fixed 1987 weights | 3.1 | | 2.5 2.0 2.2 | 3.1 2.7 2.8 | 4.3 4.1 4.1 | 2.8 2.7 2.7 | 2.1 | | | | | |
| Command-basis gross national product: Quantity index, fixed 1987 weights | 2.7 | | 3.6 | 4.7 | 1.9 | 1.9 | 3.7 | | | | | |
| Disposable personal income: Current dollars | 6.4 2.9 | 4.6 1.9 | 3.4 1.9 | 15.1 10.6 | -5.1 -7.8 | 8.5 5.8 | 2.7 1.6 | 7.6 5.2 | | | | |

NOTE.—Except for disposable personal income, the quantity and price indexes in this table are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. The fixed-weighted measures use as weights the composition of output in 1987. For the alternative indexes, the chain-type indexes with annual weights use weights for the preceding and current years, and the indexes with benchmark-years weights use weights of 1959, 1963, 1967, 1972, 1977, 1982, and 1987 and the most recent year.

Table 8.2.—Selected Per Capita Product and Income Series in Current and Constant Dollars and Population of the United States

[Dollars]

| [Dollars] | | | | | | | | | | | | |
|------------------------------------------------------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|-----------------|--|--|--|--|
| | | | | Seasona | ılly adjuste | ed at annu | al rates | | | | | |
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | | | | |
| | | | III | IV | I | II | III | IV | | | | |
| Current dollars: | | | | | | | | | | | | |
| Gross domestic product | 23,637 | 24,681 | 23,685 | 24,143 | 24,346 | 24,538 | 24,732 | 25,105 | | | | |
| product Personal income . Disposable personal | 23,665 20,139 | 20,861 | 23,716 20,090 | | 24,347 20,430 | 24,536 20,837 | 24,756 20,930 | 21,245 | | | | |
| income Personal consumption | 17,615 | 18,222 | 17,577 | 18,153 | 17,876 | 18,196 | 18,265 | 18,549 | | | | |
| expenditures Durable goods Nondurable | 16,205 1,947 | 17,001 2,082 | 16,249 1,958 | 16,589 2,013 | 16,704 2,004 | 16,907 2,062 | 17,088 2,095 | 17,303 2,166 | | | | |
| goods Services | 5,092 9,166 | 5,228 9,691 | 5,104 9,187 | 5,190 9,385 | 5,192 9,508 | 5,215 9,631 | 5,229 9,763 | 5,276 9,860 | | | | |
| Constant (1987) dollars: | | | | | | | | | | | | |
| Gross domestic product | 19,518 | 19,874 | 19,537 | 19,754 | 19,744 | 19,786 | 19,869 | 20,097 | | | | |
| product Disposable personal | 19,548 | | 19,569 | 19,755 | 19,754 | 19,793 | 19,898 | | | | | |
| income Personal | 14,219 | 14,329 | 14,169 | 14,490 | 14,163 | 14,326 | 14,341 | 14,484 | | | | |
| consumption expenditures Durable goods Nondurable | 13,081 1,787 | 13,369 1,896 | 13,098 1,794 | 13,241 1,845 | 13,234 1,835 | 13,312 1,878 | 13,416 1,907 | 13,511 1,966 | | | | |
| goods Services | 4,161 7,133 | 4,213 7,259 | 4,154 7,149 | 4,216 7,179 | 4,184 7,216 | 4,200 7,234 | 4,226 7,283 | 4,242 7,303 | | | | |
| Population (mid- period, thousands) | 255,472 | 258,256 | 255,836 | 256,569 | 257,197 | 257,872 | 258,612 | 259,343 | | | | |

Table 8.3.—Auto Output

[Billions of dollars]

| | | | Seasonally adjusted at annual rates | | | | | | |
|------------------------------------------|-------|-------|-------------------------------------|-------|-------|-------|-------|-------|--|
| | 1992 | 1993 | 19 | 92 | | 19 | 93 | | |
| | | | III | IV | I | II | III | IV | |
| Auto output | 133.2 | 142.1 | 133.0 | 136.4 | 142.8 | 145.9 | 134.6 | 145.1 | |
| Final sales | 133.5 | 137.3 | 132.4 | 137.2 | 131.4 | 140.8 | 137.0 | 139.9 | |
| Personal consumption expenditures | 126.7 | | 125.4 | | 127.7 | | | 140.3 | |
| New autos | 87.3 | | | 90.3 | | | | | |
| Net purchases of used autos | 39.5 | | | | | | | | |
| Producers' durable equipment | 37.6 | 38.8 | 36.9 | 37.1 | 36.9 | 42.2 | 38.9 | 37.3 | |
| New autos | 62.2 | 66.7 | 61.8 | 62.7 | 61.8 | 72.6 | 67.4 | 65.0 | |
| Net purchases of used autos | -24.6 | -27.9 | -24.9 | -25.6 | -24.9 | -30.4 | -28.5 | -27.7 | |
| Net exports | -32.8 | -37.8 | -32.1 | -32.6 | -35.3 | -37.0 | -39.3 | -39.5 | |
| Exports | 14.3 | | | 15.9 | | | | | |
| Imports | 47.0 | | | 48.4 | | | | | |
| Government purchases | 2.0 | 2.0 | 2.2 | 1.8 | 2.1 | 2.0 | 2.0 | 1.8 | |
| Change in business inventories of | | | | | | | | | |
| new and used autos | 3 | 4.8 | .6 | 8 | 11.4 | 5.0 | -2.4 | 5.2 | |
| New | .3 | 3.3 | 1.0 | 7 | 12.0 | 1.6 | -3.4 | 3.1 | |
| Used | 6 | 1.5 | 4 | 1 | 7 | 3.5 | 1.0 | 2.1 | |
| Addenda: Domestic output of new autos 1 | 104.1 | 110.7 | 103.1 | 108.0 | 114.6 | 111.9 | 99.3 | 116.8 | |
| Sales of imported new autos ² | 60.1 | 64.1 | 60.1 | 60.5 | 59.6 | | 69.6 | | |
| oales of imported flew autos | 00.1 | 04.1 | 00.1 | 00.5 | 33.0 | 00.0 | 03.0 | 01.0 | |

- 1. Consists of final sales and change in business inventories of new autos assembled in the United States.
- 2. Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

Table 8.5.—Truck Output

[Billions of dollars]

| Truck output 1 | 83.3 | 101.2 | 81.4 | 93.7 | 100.0 | 97.0 | 98.0 | 109.8 |
|-----------------------------------|------|-------|------|------|-------|-------|------|-------|
| Final sales | 82.2 | 101.8 | 82.3 | 92.0 | 92.4 | 102.0 | 99.9 | 112.8 |
| Personal consumption expenditures | 43.3 | 52.5 | 44.2 | 47.8 | 49.7 | 52.0 | 50.0 | 58.2 |
| Producers' durable equipment | 37.1 | 48.9 | 37.8 | 41.1 | 45.3 | 48.2 | 48.6 | 53.3 |
| Net exports | -5.1 | -5.5 | -4.8 | -4.6 | -6.7 | -6.4 | -4.8 | -4.1 |
| Exports | 5.6 | 5.8 | 5.4 | 6.0 | 5.2 | 5.7 | 5.4 | 6.9 |
| Imports | 10.7 | 11.3 | 10.2 | 10.7 | 11.9 | 12.1 | 10.2 | 11.1 |
| Government purchases | 6.9 | 5.9 | 5.1 | 7.7 | 4.1 | 8.2 | 6.0 | 5.4 |
| Change in business inventories | 1.2 | 5 | 9 | 1.7 | 7.7 | -5.0 | -1.9 | -3.0 |

^{1.} Includes new trucks only.

Table 8.4.—Auto Output in Constant Dollars

[Billions of 1987 dollars]

| • | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------|
| | Seasonally adjusted at annual i | | | | | | | |
| | 1992 | 1993 | 19 | 92 | | | | |
| | | | III | IV | I | II | III | IV |
| Auto output | 117.4 | 120.8 | 116.8 | 120.1 | 122.5 | 123.4 | 113.5 | 123.7 |
| Final sales Personal consumption expenditures New autos Net purchases of used autos Producers' durable equipment New autos Net purchases of used autos Net exports Exports Imports Government purchases | 117.8 113.9 77.9 36.0 32.8 55.5 -22.7 -30.5 12.7 43.3 1.7 | 115.4 79.5 36.0 34.5 58.1 -23.6 -34.4 12.7 | 112.0 76.3 35.7 32.3 54.9 -22.6 -30.0 13.5 | 115.8 79.9 35.9 32.7 55.5 –22.8 | 112.2 76.5 35.7 32.6 54.5 -21.9 | 115.5 78.9 36.6 37.5 63.5 -26.0 -33.5 13.1 | 115.4 78.2 37.2 34.6 58.5 -23.9 -35.4 11.6 | -22.8 |
| Change in business inventories of new and used autos New | - .4 .1 6 | 3.6 2.3 1.2 | . 6 1.0 –.4 | . 5 .6 –.1 | 8.5 9.1 –.6 | 2.2 7 3.0 | −2.9 −3.7 .8 | 6.3 4.6 1.7 |
| Addenda: Domestic output of new autos ¹ Sales of imported new autos ² | 92.8 53.6 | 96.2 55.9 | 91.8 53.5 | 96.8 53.6 | 99.9 52.5 | 96.5 57.3 | 85.8 60.4 | 102.6 53.2 |

- 1. Consists of final sales and change in business inventories of new autos assembled in the United States.
- 2. Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

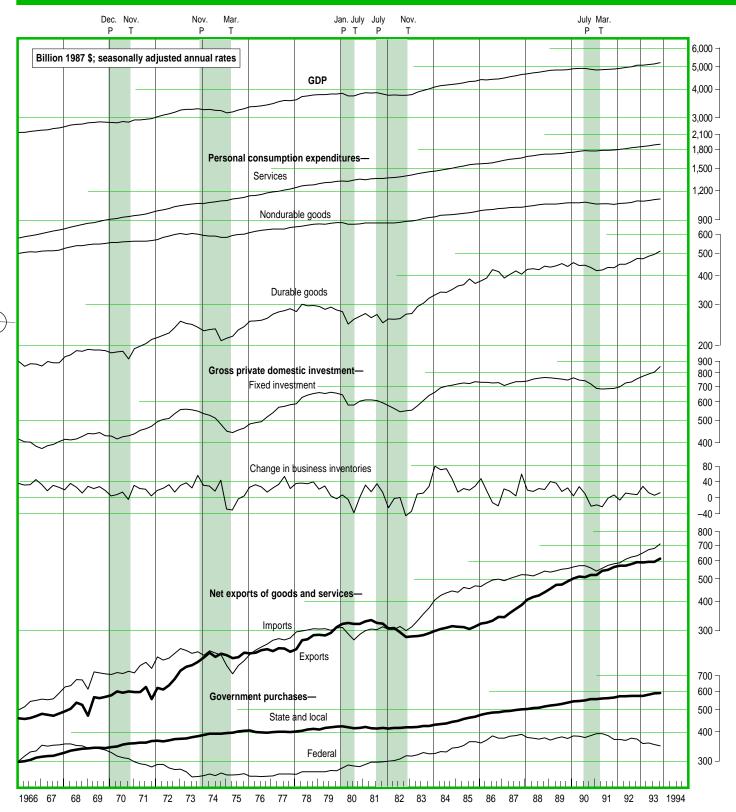
Table 8.6.—Truck Output in Constant Dollars

| Truck output 1 | 71.4 | 83.4 | 69.3 | 79.5 | 83.7 | 80.2 | 79.9 | 89.6 |
|-----------------------------------|------|------|------|------|------|------|------|------|
| Final sales | 70.4 | 83.7 | 70.1 | 78.1 | 77.3 | 84.2 | 81.4 | 92.0 |
| Personal consumption expenditures | 37.1 | 43.4 | 37.6 | 40.7 | 42.0 | 43.3 | 40.9 | 47.3 |
| Producers' durable equipment | 31.8 | 40.1 | 32.2 | 34.8 | 37.6 | 39.6 | 39.5 | 43.6 |
| Net exports | -4.4 | -4.6 | -4.1 | -3.9 | -5.7 | -5.4 | -4.0 | -3.3 |
| Exports | 4.8 | 4.8 | 4.6 | 5.1 | 4.4 | 4.6 | 4.4 | 5.7 |
| Imports | 9.1 | 9.4 | 8.6 | 9.1 | 10.1 | 10.0 | 8.4 | 9.0 |
| Government purchases | 5.9 | 4.9 | 4.4 | 6.6 | 3.4 | 6.7 | 4.9 | 4.4 |
| Change in business inventories | 1.0 | 4 | 8 | 1.4 | 6.3 | -4.1 | -1.5 | -2.4 |

^{1.} Includes new trucks only.

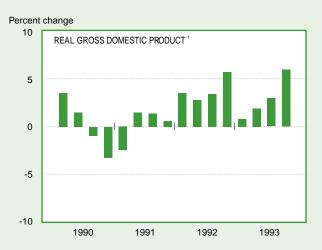
NIPA Charts

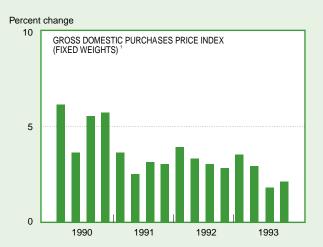
REAL GDP AND ITS COMPONENTS: TRENDS AND CYCLES

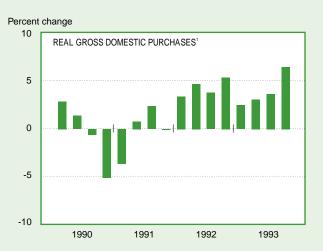


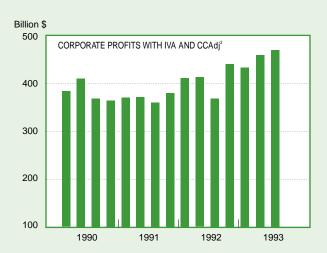


SELECTED SERIES: RECENT QUARTERS

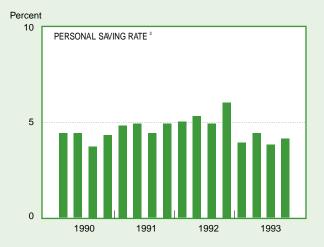












- Percent change at annual rate from preceding quarter; based on seasonally adjusted estimates.
 Seasonally adjusted annual rate; IVA is inventory valuation adjustment, and CCAdj is capital consumption adjustment.
 Personal saving as percentage of disposable personal income; based on seasonally adjusted estimates.

Personal Income by State and Region, Third Quarter 1993

This article was written by Howard L. Friedenberg and Duke D. Tran. The estimates of State personal income were prepared by the Regional Economic Measurement Division.

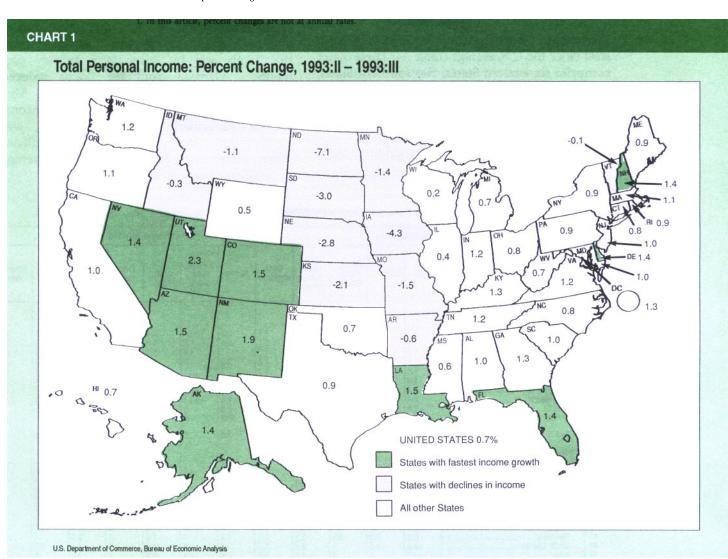
Personal income in the Nation increased a modest 0.7 percent in the third quarter of 1993 after increasing 2.3 percent in the second. The slowdown was partly attributable to reductions in farm proprietors' income that resulted from lower farm subsidy payments and from floods in the Midwest and drought in the Southeast, which caused crop damage and uninsured losses to farm residential and business property. In addition, the floods affected other components of personal income: Nonfarm proprietors' income was reduced by uninsured losses

to nonfarm business property, and rental income of persons was reduced by uninsured losses to nonfarm residential property.

The large second-quarter increase in personal income mostly reflected the continued effect of the payment of bonuses in the fourth quarter of 1992 that typically would have been paid in the first quarter of 1993. As a result of the accelerated bonus payments, personal income jumped in the fourth quarter, plummeted in the first, and rebounded sharply in the second.

In the third quarter, the o.7-percent increase in personal income exceeded the o.4-percent

1. In this article, percent changes are not at annual rates.



increase in U.S. prices (measured by the fixed-weighted price index for personal consumption expenditures). The increase in U.S. prices was the smallest since the second quarter of 1986.

By State, personal income in the third quarter increased in 39 States and declined in 11 States. In all of the 39 States except Illinois and Wisconsin, the increase in personal income exceeded the 0.4-percent increase in U.S. prices.

The remainder of this article focuses on the States with the fastest growth in personal income and on the States with declines in personal income. These two groups of States accounted for relatively small shares of the Nation's total personal income, with the first group accounting for about 12 percent and the second, for about 8 percent. Tables 1 and 2 at the end of the article contain the quarterly estimates of total and nonfarm State personal income, beginning with the first quarter of 1990.

States with the fastest income growth

Increases in personal income in 10 States were at least twice the U.S. average (table A). These States comprise six western States, two southern States, and two eastern States (chart 1).

In Utah, New Mexico, Arizona, Colorado, Alaska, and Nevada, personal income growth was boosted by average or above-average increases in payrolls in the transportation-public utilities group and in retail trade. In all of these States

except Alaska, personal income was boosted by average or above-average increases in payrolls in both the finance-insurance-real estate group and services. In addition, payroll increases were well above average in durables and nondurables manufacturing in Utah, New Mexico, and Colorado, in construction in Utah, New Mexico, and Alaska, and in mining in New Mexico.

In Louisiana, Florida, Delaware, and New Hampshire, personal income growth was boosted by above-average increases in payrolls in durables manufacturing and in government.

States with declines in income

In 11 States, declines in personal income ranged from 0.1 percent in Vermont to 7.1 percent in North Dakota. These States comprise the seven Plains States and Idaho, Arkansas, Montana, and Vermont.

In North Dakota, Iowa, South Dakota, Nebraska, Kansas, Missouri, and Minnesota, personal income was reduced by crop damage and uninsured property losses resulting from the floods and by lower farm subsidy payments. Damage from the floods reduced farm income—particularly in Minnesota, Missouri, and Iowa—and slowed nonfarm income growth—particularly in Missouri, Iowa, and North Dakota. In addition, in most of the Plains States, increases in payrolls were below average in retail trade and in services.

Table A.—Percent Change in Personal Income for Selected States and the United States, 1993:II-1993:III

| | | Persona | I income | Wage and salary disbursements (payrolls) | | | | | | | | | | | | | |
|----------|------------------------------------------------------|--------------|------------|------------------------------------------|----------------------------------------|-------------------|-------------|---------------------------------------------------|-------------------------|-----------------|---------------------------------------------------|------------|-----------------|--|--|--|--|
| Rank | | Total | Nonfarm | Durables manu- facturing | Nondu- rables manu- facturing | Con- struction | Mining | Trans- portation and public utilities | Whole- sale trade | Retail trade | Finance, insur- ance, and real estate | Services | Govern- ment | | | | |
| | States with fastest growth in total personal income: | | 0.5 | | | 0.0 | 0.0 | 0.4 | | 4.0 | | 0.4 | 0.7 | | | | |
| 1 2 | Utah New Mexico | 2.3 1.9 | 2.5 2.4 | 3.9 5.3 | 3.3 7.1 | 3.6 6.1 | 2.2 6.5 | 3.4 1.2 | 1.4 1.8 | 1.6 1.8 | 5.6 3.1 | 3.1 2.9 | 2.7 2.8 | | | | |
| 3 | Arizona | 1.5 | 1.7 | 3 | .2 | 1.6 | .1 | 1.4 | 3.0 | 1.0 | 2.0 | 2.9 | 2.5 | | | | |
| 4 | Louisiana | 1.5 | 1.9 | 3.6 | 2.2 | 1.3 | 2.0 | .2 | 1.6 | .9 | 1.2 | 1.3 | 5.0 | | | | |
| 5 | Colorado | 1.5 | 1.8 | 3.1 | 4.9 | 1.1 | .7 | 2.2 | 1.5 | .9 | 3.2 | 2.4 | 1.3 | | | | |
| 6 | Alaska | 1.4 | 1.4 | .5 | 2.7 | 6.6 | 1.7 | .7 | 5 | 2.9 | 1.7 | 1.4 | .5 | | | | |
| 7 8 | Delaware | 1.4 1.4 | 1.6 1.4 | 6.8 2.0 | .1 | 1.0 2.1 | 2.8 -9.3 | 1.0 -1.1 | .5 1.3 | 1.5 –1.1 | 2.6 1.7 | 1.7 1.5 | 2.0 4.2 | | | | |
| 9 | New Hampshire Nevada | 1.4 | 1.4 | 2.0 | -4.8 | 2.1 | -9.3 2.5 | 8. | 1.3 | -1.1 1.6 | 3.7 | 1.5 | 4.2 | | | | |
| 10 | Florida | 1.4 | 1.5 | 2.7 | .4 | 1.2 | -6.9 | .3 | 1.5 | 1.4 | 1.8 | 2.0 | 1.3 | | | | |
| | United States | .7 | 1.2 | .1 | .4 | 1.8 | 1.5 | .7 | .8 | .8 | 1.9 | 1.5 | 1.1 | | | | |
| | States with declines in total personal income: | | | | | | | | | | | | | | | | |
| 40 | Vermont | 1 | 0 | -6.5 | 1.3 | -2.9 | -10.7 | -2.9 | 5 | .1 | .9 | .6 | .4 | | | | |
| 41 | Idaho | 3 | .9 | -1.3 | 1.3 | -1.1 | 8 | .7 | 1.3 | 1.0 | 1.5 | 1.4 | 1.5 | | | | |
| 42 43 | Arkansas Montana | 6 -1.1 | 1.2 1.2 | 6 -2.4 | 1.4 1.8 | 2.6 -1.6 | 2.0 4 | 1.2 4 | .8 1.2 | 1.4 1.2 | 2.2 1.4 | 1.8 2.8 | .1 2.3 | | | | |
| 43 | Minnesota | -1.1 -1.4 | 1.2 | 1.0 | 8 | 1.6 | 4 -1.5 | 4 | .9 | .8 | 3.2 | 2.0 | 1.8 | | | | |
| 45 | Missouri | -1.5 | .3 | -1.8 | 1.3 | 1.7 | 4 | 1.4 | .7 | .5 | 1.4 | 1.0 | 1.1 | | | | |
| 46 | Kansas | -2.1 | 1.0 | 1.9 | 2.0 | 2.6 | .4 | 1.2 | 1.4 | .3 | 2.1 | 1.8 | .4 | | | | |
| 47 | Nebraska | -2.8 | 1.3 | 4.9 | 3.1 | 3.5 | 4.4 | .4 | -1.0 | .4 | 2.0 | 7 | 2.5 | | | | |
| 48 | South Dakota | -3.0 | 1.0 | .9 | 3.4 | 2.7 | 2.3 | 1.4 | .9 | 1.7 | 2.9 | 1.0 | 1.9 | | | | |
| 49 50 | lowa North Dakota | -4.3 -7.1 | .4 | .8 3 q | -1.1 2.0 | 5.9 | 4.6 6.5 | 1.4 | 2.9 1.5 | .4 2.0 | 2.2 | .8 1.8 | 2.0 | | | | |

In Idaho, Arkansas, and Montana, personal income was reduced by lower farm subsidy payments and by payroll declines in durables manufacturing. In addition, in Idaho and Montana, payrolls declined in construction and in mining.

In Vermont, changes in payrolls were below average in all major nonfarm industries except nondurables manufacturing.

Data Availability

Quarterly estimates for the years 1969–89 are available from the Regional Economic Information System, Regional Economic Measurement Division, BE-55, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230, or call (202) 606–5360.

Tables 1 and 2 follow.

Table 1.—Total Personal Income, States and Regions

[Millions of dollars, seasonally adjusted at annual rates]

| | | 19 | 90 | | | 19 | - | , | | 19 | 192 | | | 1993 | Percent change | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| State and region | I | II | III | IV | I | II | III | IV | 1 | II | III | IV | l ^r | ll ^r | ^{p3} | 1993:II- 1993:III | 1992:III- 1993:III |
| United States 1 | 4,570,006 | 4,631,917 | 4,683,970 | 4,742,587 | 4,764,545 | 4,815,371 | 4,842,334 | 4,911,942 | 5,002,853 | 5,079,491 | 5,124,684 | 5,315,440 | 5,241,308 | 5,359,978 | 5,399,494 | .7 | 5.4 |
| New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont | 287,590 82,015 20,679 133,579 22,889 18,615 9,812 | 290,753 83,235 20,929 134,866 23,092 18,772 9,858 | 293,410 84,330 21,080 135,971 23,272 18,877 9,879 | 293,640 84,914 20,973 135,786 23,223 18,859 9,885 | 293,750 83,863 21,180 136,197 23,534 19,031 9,946 | 295,655 84,596 21,172 137,044 23,745 19,065 10,033 | 295,680 84,409 21,285 136,837 23,884 19,161 10,103 | 299,245 85,514 21,533 138,399 24,247 19,336 10,215 | 302,617 86,304 21,844 139,977 24,489 19,572 10,430 | 306,754 87,798 22,204 141,528 24,770 19,804 10,649 | 310,222 89,365 22,488 142,455 25,080 20,038 10,796 | 320,614 92,675 22,905 147,352 26,061 20,569 11,051 | 312,640 89,753 22,733 143,826 25,291 20,081 10,956 | 320,602 91,688 23,189 147,973 26,001 20,543 11,208 | 323,615 92,389 23,405 149,539 26,366 20,722 11,194 | .9 .8 .9 1.1 1.4 .9 1 | 4.3 3.4 4.1 5.0 5.1 3.4 3.7 |
| Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania | 930,013 13,923 14,178 103,585 190,081 390,690 217,557 | 943,909 14,067 14,355 105,069 193,061 396,167 221,190 | 956,505 14,303 14,579 106,487 195,256 401,330 224,549 | 961,804 14,363 14,742 106,855 196,373 402,999 226,472 | 962,588 14,563 14,728 107,990 194,714 402,709 227,884 | 972,690 14,634 14,869 108,907 196,696 407,608 229,976 | 975,521 14,704 14,928 109,061 197,366 408,092 231,371 | 988,505 14,891 15,096 110,224 199,765 413,357 235,170 | 1,004,710 14,901 15,301 111,416 204,108 420,554 238,430 | 1,018,028 15,206 15,484 113,079 207,195 424,841 242,223 | 1,032,443 15,334 15,679 114,441 210,128 431,203 245,658 | 1,072,339 15,763 15,895 117,522 218,806 451,407 252,946 | 1,037,073 15,513 16,026 116,058 211,975 429,602 247,899 | 1,069,185 16,046 16,175 119,140 218,804 444,671 254,350 | 1,079,550 16,272 16,387 120,322 221,013 448,818 256,738 | 1.0 1.4 1.3 1.0 1.0 .9 | 4.6 6.1 4.5 5.1 5.2 4.1 4.5 |
| Great Lakes Illinois Indiana Michigan Ohio Wisconsin | 758,972 229,276 92,374 167,565 185,459 84,297 | 768,614 231,641 92,694 169,902 189,048 85,329 | 776,658 233,719 94,013 172,235 190,384 86,307 | 784,524 237,441 94,889 172,514 192,183 87,497 | 786,696 236,747 95,483 173,035 193,248 88,182 | 793,336 239,224 96,300 175,201 193,469 89,142 | 800,219 240,493 97,108 176,437 196,160 90,021 | 812,184 243,203 99,050 179,169 199,299 91,464 | 827,150 248,654 101,179 181,120 202,896 93,301 | 841,521 252,791 103,130 184,738 206,005 94,857 | 849,494 256,089 104,608 185,084 207,631 96,082 | 878,933 265,071 107,902 191,910 214,546 99,505 | 870,942 262,126 107,915 189,799 212,395 98,708 | 886,680 266,489 109,653 194,159 215,876 100,502 | 892,105 267,452 110,948 195,432 217,523 100,749 | .6 .4 1.2 .7 .8 .2 | 5.0 4.4 6.1 5.6 4.8 4.9 |
| Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota | 307,534 47,578 43,314 80,939 88,010 27,602 9,401 10,691 | 308,895 46,457 43,714 82,161 89,030 27,310 9,506 10,717 | 308,291 46,194 43,651 82,287 89,833 26,883 8,952 10,490 | 319,391 47,762 45,805 83,911 91,332 27,973 11,173 11,436 | 318,322 48,463 44,517 83,860 92,389 28,401 9,580 11,113 | 322,670 48,484 45,429 84,864 93,328 29,060 9,972 11,535 | 321,996 48,159 45,105 85,332 94,075 28,626 9,547 11,151 | 330,896 49,285 47,056 87,009 95,921 28,890 10,996 11,739 | 337,889 51,670 47,501 89,266 97,037 30,076 10,451 11,889 | 340,683 51,417 48,372 89,858 98,146 30,176 10,733 11,982 | 342,878 51,653 48,295 91,500 98,730 30,058 10,642 12,001 | 358,165 53,671 51,062 95,425 101,939 31,442 11,910 12,716 | 357,716 55,781 49,895 94,881 100,833 32,184 11,269 12,873 | 360,587 54,237 51,000 95,753 103,059 32,112 11,556 12,870 | 352,254 51,916 49,946 94,432 101,526 31,217 10,730 12,486 | -2.3 -4.3 -2.1 -1.4 -1.5 -2.8 -7.1 -3.0 | 2.7 .5 3.4 3.2 2.8 3.9 .8 4.0 |
| Southeast Alabama Arkansas Florida ² Georgia Kentucky Louisiana ² Mississippi North Carolina South Carolina Tennessee Virginia West Virginia | 962,833 58,822 32,387 238,046 108,697 54,342 58,830 31,941 107,415 51,450 76,281 120,468 24,154 | 975,611 59,957 32,578 241,960 110,053 54,931 59,634 32,280 108,714 52,569 76,831 121,670 24,436 | 988,104 60,451 32,618 245,284 111,813 55,661 60,450 32,544 109,914 53,238 78,080 123,261 24,790 | 997,121 61,520 33,181 246,860 112,553 56,755 61,410 33,067 109,721 53,720 78,780 124,378 25,175 | 1,012,437 62,864 34,288 250,111 114,075 56,963 33,794 111,282 54,493 80,110 126,031 25,595 | 1,023,149 63,320 34,512 251,638 115,869 58,075 63,503 34,160 113,170 54,799 81,093 127,138 25,871 | 1,032,219 63,975 34,575 252,323 116,988 59,112 64,200 34,340 115,614 55,212 81,953 127,792 26,135 | 1,045,501 64,938 35,269 253,897 118,642 60,200 65,301 35,080 116,810 55,936 83,721 129,121 26,587 | 1,069,265 66,503 36,975 258,790 121,344 61,691 66,897 36,208 119,446 56,927 85,805 131,541 27,136 | 1,086,795 67,389 37,667 262,614 123,477 62,639 68,011 36,663 121,712 57,859 87,601 133,622 27,541 | 1,087,300 68,488 37,574 253,668 125,078 63,355 67,501 36,888 123,838 58,608 135,692 27,924 | 1,135,950 70,502 39,051 276,642 129,311 65,359 69,812 37,983 127,299 60,055 92,243 139,157 28,536 | 1,132,150 70,468 39,327 274,454 128,160 64,753 70,328 38,767 126,910 59,990 91,609 138,815 28,568 | 1,158,174 71,553 39,666 281,879 132,507 66,170 71,423 39,130 130,072 61,354 93,583 141,704 29,133 | 1,171,042 72,300 39,425 285,704 134,247 67,028 72,471 39,372 131,074 61,938 94,709 143,434 29,340 | 1.1 1.0 6 1.4 1.3 1.5 .6 .8 1.0 1.2 | 7.7 5.6 4.9 12.6 7.3 5.8 7.4 6.7 5.8 5.7 6.8 5.7 |
| Southwest Arizona New Mexico Oklahoma Texas | 403,063 58,359 21,104 46,577 277,023 | 410,025 59,053 21,315 47,198 282,459 | 416,293 59,969 21,714 47,840 286,769 | 422,901 60,502 22,268 49,289 290,843 | 427,728 61,542 22,628 48,858 294,701 | 433,662 62,069 22,909 49,604 299,080 | 436,082 62,179 23,047 49,533 301,324 | 444,431 63,032 23,433 50,830 307,136 | 454,078 64,521 24,008 51,723 313,826 | 462,587 65,666 24,424 52,536 319,960 | 468,047 66,593 24,762 52,794 323,899 | 485,403 68,764 25,242 54,336 337,061 | 482,404 68,689 25,704 54,032 333,980 | 493,539 70,554 26,236 55,072 341,678 | 498,566 71,591 26,723 55,439 344,813 | 1.0 1.5 1.9 .7 | 6.5 7.5 7.9 5.0 6.5 |
| Rocky Mountain Colorado Idaho Montana Utah Wyoming | 117,566 60,403 14,855 11,463 23,548 7,299 | 119,960 61,630 15,175 11,598 24,086 7,471 | 121,252 62,482 15,169 11,470 24,593 7,538 | 125,642 64,235 15,825 12,662 25,150 7,770 | 126,086 64,739 15,693 12,180 25,524 7,949 | 128,962 66,106 16,156 12,530 26,066 8,104 | 129,722 66,634 16,204 12,431 26,297 8,156 | 133,804 68,405 16,817 13,498 26,794 8,290 | 135,197 69,323 17,037 12,937 27,536 8,364 | 137,982 70,854 17,427 13,251 27,953 8,497 | 139,799 71,992 17,620 13,203 28,461 8,524 | 145,252 74,445 18,452 14,197 29,361 8,796 | 144,967 74,406 18,320 13,892 29,455 8,895 | 148,256 76,217 18,747 14,243 30,041 9,008 | 149,885 77,330 18,692 14,088 30,719 9,056 | 1.1 1.5 3 -1.1 2.3 .5 | 7.2 7.4 6.1 6.7 7.9 6.2 |
| Far West Alaska California Hawaii ² Nevada Oregon Washington | 802,435 11,369 608,554 21,924 23,340 47,386 89,862 | 814,150 11,701 615,997 22,497 23,794 48,441 91,720 | 823,458 11,811 621,900 23,023 24,391 48,998 93,334 | 837,564 12,008 631,333 23,585 24,826 50,004 95,808 | 836,937 12,210 627,956 23,765 25,368 50,351 97,287 | 845,247 12,310 633,308 23,914 25,801 50,988 98,926 | 850,895 12,451 636,462 24,137 26,165 51,401 100,279 | 857,377 12,598 638,808 24,442 26,585 52,406 102,538 | 871,949 12,954 648,337 25,177 27,299 53,336 104,846 | 885,140 13,076 657,824 25,529 27,732 54,172 106,806 | 894,499 13,198 665,179 23,953 28,328 55,220 108,621 | 918,785 13,400 679,806 26,360 29,656 56,631 112,932 | 903,416 13,683 666,077 26,548 29,798 57,047 110,263 | 922,954 13,849 680,480 26,963 30,482 57,907 113,274 | 932,477 14,048 687,207 27,159 30,898 58,537 114,629 | 1.0 1.4 1.0 .7 1.4 1.1 | 4.2 6.4 3.3 13.4 9.1 6.0 5.5 |
| | Census Divisions | | | | | | | | | | | | | | | | |
| New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific | 287,590 798,328 758,972 307,534 781,915 221,386 414,817 220,369 779,095 | 290,753 810,418 768,614 308,895 792,892 223,999 421,869 224,122 790,356 | 293,410 821,136 776,658 308,291 803,670 226,736 427,678 227,326 799,067 | 293,640 825,843 784,524 319,391 808,369 230,122 434,722 233,237 812,738 | 293,750 825,307 786,696 318,322 818,866 233,731 440,680 235,624 811,569 | 295,655 834,280 793,336 322,670 826,895 236,648 446,700 239,740 819,447 | 295,680 836,828 800,219 321,996 832,758 239,379 449,631 241,112 824,731 | 299,245 848,293 812,184 330,896 841,204 243,939 458,535 246,853 830,792 | 302,617 863,092 827,150 337,889 856,803 250,208 469,421 251,025 844,650 | 306,754 874,259 841,521 340,683 870,594 254,291 478,175 255,805 857,408 | 310,222 886,989 849,494 342,878 870,263 257,417 481,767 259,482 866,171 | 320,614 923,159 878,933 358,165 910,181 266,087 500,260 268,914 889,128 | 312,640 889,476 870,942 357,716 904,495 265,598 497,666 269,158 873,618 | 320,602 917,825 886,680 360,587 928,009 270,435 507,839 275,527 892,472 | 323,615 926,569 892,105 352,254 938,719 273,409 512,147 279,098 901,578 | .9 1.0 .6 2.3 1.2 1.1 .8 1.3 | 4.3 4.5 5.0 2.7 7.9 6.2 6.3 7.6 4.1 |

r Revised.

[&]quot; Preiminary.

1. 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) estimate of personal income 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. It can also differ from the NIPA estimate because of different data sources and revision schedules.

^{2.} The third quarter 1992 estimates of personal income reflect the losses resulting from damage caused by Hurricane Andrew in Florida and Louisiana and by Hurricane Iniki in Hawaii.

3. The third quarter 1933 estimates of personal income reflect the losses resulting from damage caused by floods in Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin and by drought in Georgia, North Carolina, South Carolina, and Virginia.

NOTE.—The quarterly estimates of State personal income were prepared by Marian B. Sacks, James P. Stehle, Isabelle B. Whiston, and James M. Zavrel, under the supervision of Robert L. Brown.

Table 2.—Nonfarm Personal Income, States and Regions

[Millions of dollars, seasonally adjusted at annual rates]

| | | 19 | 90 | | | 19 | | , | | 19 | 92 | | | 1993 | Percent change | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| State and region | ı | II | III | IV | ı | II | III | IV | ı | II | III | IV | l ^r | Π^r | ^{p2} | 1993:II- 1993:III | 1992:III- 1993:III |
| United States | 4,512,502 | 4,582,305 | 4,645,876 | 4,689,197 | 4,717,842 | 4,762,871 | 4,803,506 | 4,865,490 | 4,948,464 | 5,026,445 | 5,081,861 | 5,260,442 | 5,178,293 | 5,305,560 | 5,367,129 | 1.2 | 5.6 |
| New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont | 286,729 81,778 20,473 133,381 22,840 18,576 9,681 | 289,930 83,010 20,738 134,673 23,042 18,735 9,731 | 292,641 84,116 20,900 135,789 23,227 18,844 9,765 | 292,881 84,705 20,788 135,607 23,176 18,825 9,780 | 292,907 83,624 21,006 135,967 23,481 18,991 9,838 | 294,760 84,349 20,986 136,798 23,689 19,023 9,915 | 294,848 84,184 21,112 136,605 23,833 19,123 9,993 | 298,456 85,303 21,364 138,175 24,199 19,300 10,116 | 301,698 86,069 21,665 139,742 24,429 19,532 10,261 | 305,787 87,554 22,012 141,276 24,709 19,764 10,472 | 309,295 89,126 22,303 142,214 25,021 19,999 10,632 | 319,702 92,441 22,712 147,113 26,005 20,531 10,901 | 311,745 89,514 22,540 143,604 25,232 20,042 10,813 | 319,663 91,425 22,992 147,740 25,943 20,505 11,057 | 322,686 92,141 23,193 149,304 26,306 20,686 11,055 | .9 .8 .9 1.1 1.4 .9 | 4.3 3.4 4.0 5.0 5.1 3.4 4.0 |
| Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania | 926,986 13,745 14,178 103,119 189,802 389,692 216,450 | 940,971 13,901 14,355 104,625 192,778 395,207 220,104 | 953,835 14,147 14,579 106,076 195,011 400,483 223,539 | 959,209 14,220 14,742 106,460 196,120 402,192 225,475 | 960,099 14,406 14,728 107,582 194,441 401,861 227,080 | 969,984 14,460 14,869 108,452 196,396 406,702 229,104 | 973,108 14,550 14,928 108,655 197,088 407,287 230,602 | 986,152 14,740 15,096 109,833 199,507 412,572 234,405 | 1,001,656 14,736 15,301 110,941 203,824 419,609 237,246 | 1,014,922 15,047 15,484 112,611 206,880 423,901 241,001 | 1,029,556 15,189 15,679 113,978 209,843 430,333 244,534 | 1,069,501 15,608 15,895 117,060 218,524 450,548 251,866 | 1,034,067 15,349 16,026 115,579 211,707 428,624 246,781 | 1,066,330 15,887 16,175 118,700 218,542 443,775 253,251 | 1,076,938 16,135 16,387 119,907 220,756 448,036 255,719 | 1.0 1.6 1.3 1.0 1.0 1.0 | 4.6 6.2 4.5 5.2 5.2 4.1 4.6 |
| Great Lakes Illinois Indiana Michigan Ohio Wisconsin | 750,597 226,542 91,036 166,426 184,186 82,408 | 762,771 230,187 91,858 169,022 188,049 83,655 | 772,891 233,175 93,539 171,555 189,640 84,982 | 779,369 236,198 94,159 171,679 191,221 86,111 | 782,641 235,836 95,071 172,163 192,569 87,002 | 788,937 238,062 95,894 174,258 192,788 87,935 | 797,695 240,167 97,049 175,722 195,732 89,024 | 809,189 242,743 98,947 178,393 198,760 90,346 | 820,924 246,615 100,185 180,198 201,829 92,097 | 836,079 251,113 102,362 183,805 205,042 93,757 | 844,889 254,786 103,954 184,314 206,744 95,090 | 873,752 263,478 107,219 191,076 213,645 98,333 | 861,887 258,831 106,288 188,582 210,979 97,207 | 880,539 264,610 108,810 193,083 214,813 99,222 | 888,966 266,997 110,297 194,704 216,672 100,296 | 1.0 .9 1.4 .8 .9 | 5.2 4.8 6.1 5.6 4.8 5.5 |
| Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota | 293,408 43,601 41,872 78,096 87,140 24,586 8,799 9,315 | 298,555 44,224 42,541 79,919 88,388 25,106 8,916 9,461 | 302,414 44,989 43,129 80,849 89,386 25,382 9,039 9,642 | 305,959 45,609 43,365 81,741 90,341 25,926 9,188 9,791 | 309,125 46,148 43,684 82,189 91,702 26,169 9,267 9,966 | 312,325 46,630 44,012 83,172 92,677 26,389 9,347 10,098 | 316,112 47,104 44,669 84,169 93,670 26,776 9,444 10,279 | 320,452 47,762 45,257 85,391 95,061 27,007 9,558 10,415 | 325,931 48,542 46,259 87,293 96,124 27,352 9,731 10,630 | 330,460 49,292 46,941 88,412 97,211 27,904 9,868 10,832 | 334,793 49,828 47,361 90,241 98,100 28,218 10,050 10,995 | 344,889 51,207 48,899 93,487 100,801 28,987 10,275 11,233 | 341,606 50,877 48,352 92,200 99,695 28,724 10,364 11,392 | 348,848 51,915 49,351 94,043 102,047 29,394 10,510 11,589 | 351,681 52,126 49,855 95,195 102,404 29,788 10,602 11,710 | .8 .4 1.0 1.2 .3 1.3 .9 | 5.0 4.6 5.3 5.5 4.4 5.6 5.5 6.5 |
| Southeast Alabama Arkansas Florida¹ Georgia Kentucky Louisiana¹ Mississippi North Carolina South Carolina Tennessee Virginia West Virginia | 950,421 57,962 30,864 235,675 107,395 53,192 58,117 31,218 105,155 51,098 75,818 119,849 24,077 | 964,449 58,973 31,316 240,048 108,828 53,878 59,049 31,694 106,539 52,260 76,415 121,089 24,361 | 978,590 59,663 31,870 243,066 110,811 54,755 60,092 32,172 107,952 53,006 77,758 122,721 24,726 | 986,407 60,531 32,230 244,547 111,426 55,663 32,554 107,784 53,402 78,317 123,822 25,108 | 998,895 61,526 32,753 247,357 112,595 55,841 62,093 33,037 109,003 54,076 79,622 125,459 25,533 | 1,008,847 62,046 33,058 248,530 114,205 56,919 62,829 33,391 110,591 54,342 80,618 126,513 25,804 | 1,019,996 62,795 33,646 249,464 115,502 58,107 63,765 33,863 113,131 54,845 81,560 127,244 26,074 | 1,033,587 63,852 34,316 251,273 117,164 59,130 64,852 34,468 114,627 55,552 83,243 128,582 26,529 | 1,054,388 65,378 35,179 255,531 119,736 60,379 66,028 35,299 117,082 56,550 85,196 130,962 27,067 | 1,071,976 66,321 35,819 259,630 121,751 61,382 67,027 35,774 119,324 57,480 86,968 133,036 27,464 | 1,076,262 67,558 36,224 252,107 123,601 62,071 67,354 36,309 121,514 58,317 88,209 135,141 27,858 | 1,123,074 69,395 37,645 274,326 127,682 64,011 69,237 37,206 125,183 59,680 91,620 138,615 28,473 | 1,116,822 69,386 37,144 272,080 126,404 63,412 69,294 37,565 124,343 59,568 90,882 138,253 28,493 | 1,144,262 70,631 37,806 279,270 130,933 64,943 70,626 38,223 127,667 61,023 92,950 141,133 29,057 | 1,160,628 71,499 38,247 283,344 133,111 65,860 71,946 38,862 129,434 61,770 94,227 143,065 29,263 | 1.4 1.2 1.5 1.7 1.4 1.9 1.7 1.4 1.2 1.4 | 7.8 5.8 5.6 12.4 7.7 6.1 6.8 7.0 6.5 5.9 6.8 5.9 |
| Southwest Arizona New Mexico Oklahoma Texas | 397,624 57,632 20,745 45,674 273,574 | 404,888 58,367 21,011 46,337 279,173 | 412,465 59,319 21,420 47,052 284,674 | 416,624 59,844 21,769 47,693 287,318 | 422,555 60,766 22,234 48,072 291,482 | 427,392 61,165 22,443 48,524 295,260 | 432,135 61,484 22,715 49,022 298,914 | 439,286 62,374 23,053 49,735 304,124 | 448,550 63,832 23,538 50,662 310,519 | 456,306 64,987 23,934 51,422 315,963 | 463,582 65,982 24,368 52,017 321,214 | 478,893 68,136 24,770 53,069 332,919 | 475,460 67,749 25,195 53,050 329,465 | 486,700 69,795 25,698 53,960 337,248 | 494,008 70,954 26,324 54,593 342,137 | 1.5 1.7 2.4 1.2 1.4 | 6.6 7.5 8.0 5.0 6.5 |
| Rocky Mountain Colorado Idaho Montana Utah Wyoming | 115,042 59,526 13,860 11,197 23,290 7,169 | 117,372 60,769 14,095 11,334 23,833 7,341 | 119,486 61,843 14,354 11,500 24,377 7,412 | 121,730 63,021 14,644 11,644 24,851 7,570 | 123,895 64,065 14,940 11,850 25,301 7,740 | 125,896 65,166 15,178 11,948 25,787 7,817 | 127,729 66,020 15,487 12,193 26,079 7,950 | 130,208 67,367 15,806 12,435 26,541 8,059 | 132,870 68,551 16,219 12,681 27,264 8,155 | 135,372 70,039 16,557 12,888 27,642 8,246 | 137,678 71,281 16,828 13,040 28,200 8,329 | 141,412 73,307 17,303 13,261 29,024 8,517 | 142,389 73,502 17,470 13,566 29,192 8,659 | 145,338 75,296 17,817 13,771 29,737 8,717 | 147,920 76,687 17,979 13,937 30,478 8,839 | 1.8 1.8 .9 1.2 2.5 1.4 | 7.4 7.6 6.8 6.9 8.1 6.1 |
| Far West Alaska California Hawaii¹ Nevada Oregon Washington | 791,695 11,364 600,429 21,692 23,233 46,503 88,474 | 803,369 11,696 607,826 22,254 23,692 47,534 90,367 | 813,554 11,807 614,406 22,780 24,296 48,198 92,067 | 827,017 11,999 624,004 23,342 24,725 48,963 93,984 | 827,725 12,205 621,286 23,550 25,271 49,536 95,877 | 834,729 12,305 625,854 23,698 25,693 50,023 97,156 | 841,882 12,446 629,840 23,926 26,072 50,614 98,984 | 848,159 12,589 632,629 24,235 26,495 51,466 100,745 | 862,445 12,950 641,636 24,949 27,231 52,458 103,220 | 875,543 13,071 651,162 25,301 27,655 53,270 105,084 | 885,807 13,193 659,086 23,792 28,263 54,379 107,094 | 909,218 13,391 673,475 26,156 29,578 55,620 110,997 | 894,318 13,678 659,518 26,344 29,722 56,225 108,831 | 913,879 13,844 674,085 26,756 30,404 57,020 111,769 | 924,303 14,043 681,473 26,945 30,835 57,828 113,178 | 1.1 1.4 1.1 .7 1.4 1.4 | 4.3 6.4 3.4 13.3 9.1 6.3 5.7 |
| | | | | | | Cen | sus Divisions | 3 | | | | | | | | | |
| New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific | 286,729 795,944 750,597 293,408 774,291 218,190 408,229 216,652 768,461 | 289,930 808,090 762,771 298,555 786,006 220,959 415,876 220,442 779,676 | 292,641 819,033 772,891 302,414 797,083 224,347 423,687 224,521 789,258 | 292,881 823,787 779,369 305,959 801,511 227,064 428,265 228,069 802,292 | 292,907 823,382 782,641 309,125 810,740 230,026 434,401 232,167 802,454 | 294,760 832,202 788,937 312,325 817,768 232,975 439,671 235,197 809,036 | 294,848 834,976 797,695 316,112 824,393 236,325 445,346 238,001 815,809 | 298,456 846,484 809,189 320,452 833,395 240,692 453,027 242,130 821,665 | 301,698 860,679 820,924 325,931 847,906 246,252 462,388 247,471 835,214 | 305,787 871,781 836,079 330,460 861,826 250,446 470,231 251,948 847,888 | 309,295 884,710 844,889 334,793 863,384 254,146 476,810 256,291 857,544 | 319,702 920,938 873,752 344,889 902,522 262,232 492,871 263,895 879,640 | 311,745 887,112 861,887 341,606 896,095 261,245 488,952 265,056 864,596 | 319,663 915,569 880,539 348,848 919,845 266,747 499,640 271,234 883,475 | 322,686 924,510 888,966 351,681 932,415 270,448 506,923 276,034 893,468 | .9 1.0 1.0 .8 1.4 1.4 1.5 1.8 | 4.3 4.5 5.2 5.0 8.0 6.4 6.3 7.7 4.2 |

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cane Andrew in Florida and Louisiana and by Hurricane Iniki in Hawaii.

2. The third quarter 1993 estimates of nonfarm personal income reflect the losses resulting from damage caused by floods in Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin.

Preliminary.

NOTE. Nonfarm personal income is total personal income less farm earnings.

1. The third quarter 1992 estimates of personal income reflect the losses resulting from damage caused by Hurri-

Characteristics of Foreign-Owned U.S. Manufacturing Establishments

By Ned G. Howenstine and William J. Zeile

THIS ARTICLE examines the characteristics of **I** foreign-owned U.S. manufacturing establishments on the basis of newly released data from a joint project of the Bureau of Economic Analysis (BEA) and the Bureau of the Census. The data greatly expand the establishment-level information available on the manufacturing operations of U.S. affiliates of foreign companies.¹ Because the establishment data provide more detailed and more precise information on the industrial composition of affiliates' operations than BEA's enterprise data (see the box on page 35), they can significantly enhance and extend the analysis of key questions about foreign direct investment in the United States (FDIUS), such as whether foreign-owned plants account for significant shares of total U.S. production in specific manufacturing industries and whether the wage rates and productivity of foreign-owned U.S. plants differ from those of U.S.-owned plants.

The new data on foreign-owned manufacturing establishments indicate the following:

- The average plant size, or scale, of foreignowned establishments is much larger than that of U.S.-owned establishments, mostly reflecting the tendency for foreign-owned establishments to be larger than U.S.-owned establishments within specific industries. Less important is the tendency of foreignowned establishments to be concentrated in industries with larger-than-average plant size.
- The capital intensity of foreign-owned establishments is higher than that of U.S.-

owned establishments, almost entirely reflecting foreign-owned establishments' relatively greater concentration in the industries that are the most capital intensive; the overall effect of within-industry differences is negligible. In many industries, the capital intensity of foreign-owned establishments differs from that of U.S.-owned establishments, but there is no systematic tendency for this difference to be in one direction or the other.

- The hourly wages paid to production workers are higher for foreign-owned establishments than for U.S.-owned establishments. Foreign-owned establishments tend to be in higher wage industries, and their production is more concentrated in large plants, which generally have higher wage rates than small plants. Foreign ownership per se does not appear to influence wage rates.
- The labor productivity of foreign-owned establishments is higher than that of U.S.owned establishments, largely reflecting the tendency for foreign-owned establishments to be concentrated in industries in which

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^{1.} A U.S. affiliate is a U.S. business enterprise that is owned 10 percent or more, directly or indirectly, by a foreign person. "Person" is broadly defined to include any individual, corporation, branch, partnership, associated group, association, estate, trust, or other organization and any government (including any corporation, institution, or other entity or instrumentality of a government). The data are not adjusted for percentage of foreign ownership. Thus, for example, the employment data shown here include all employees at the manufacturing establishments of each U.S. affiliate, even though the foreign investor may own as little as 10 percent of the affiliate. However, most affiliates are majority owned; based on BEA data, U.S affiliates that are majority owned (that is, affiliates that are owned more than 50 percent by direct investors) accounted for 85 percent of all manufacturing employment by U.S. affiliates.

The new data on foreign-owned manufacturing establishments, which cover 1989 and 1990, were released last fall as part of an ongoing effort to augment and improve U.S. Government data on fdius. The data were obtained by linking bea enterprise, or company, data on fdius with more detailed Census Bureau establishment, or plant, data for all U.S. companies.² For the linked establishments (hereafter referred to as "foreignowned establishments"), data from the Census Bureau's annual survey of manufactures (ASM) were then extracted.

The new data on foreign-owned manufacturing establishments cover most of the ASM items, including value added, shipments, employment, total employee compensation, employee benefits, hourly wage rates of production workers, cost of materials and energy used, inventories by stage of fabrication, and expenditures for new plant and equipment. Data are also included on the number of foreign-owned establishments. Totals for 1989 and 1990 for each of these items are shown in table 1. The data are also available by highly detailed industry, by State, and by country of investor. Summary data for 1990 appear in tables 2-13; data by detailed industry for 1990 covering selected items for foreign-owned and all U.S. establishments are shown in table 14, at the end of the article. (The box on page 51 provides information on the availability of the data in full detail for 1989 and 1990.)

The new ASM data update and extend the link project's initial results, published in 1992, which were for 1987—a benchmark, or census, year for both BEA and the Census Bureau. The 1987 data covered both manufacturing and nonmanufacturing establishments, but presented fewer measures of their operations than are available from the new ASM-based series. ³ Later this year,

Establishment and Enterprise Data for U.S. Affiliates Compared

The establishment data presented in this article complement BEA's enterprise data for U.S. affiliates. BEA's enterprise data are needed for analyzing the overall significance of, and trends in, direct investment and for compiling the U.S. international transactions accounts, the international investment position of the United States, and the U.S. national income and product accounts. The data on positions and transactions between U.S. affiliates and their foreign parents used in compiling the national and international accounts exist only at the enterprise level. Analyses of some topics, such as profits and taxes, are meaningful only at that level. Furthermore, balance sheets and income statements containing the critical, nonduplicative financial and operating data needed for examining these topics exist only at the enterprise level.

The establishment data facilitate analysis of the activities and importance of foreign-owned U.S. companies in specific industries because they provide more detailed and more precise information on the industrial composition of U.S. affiliates' operations than BEA's enterprise data. Whereas BEA's enterprise data classify each company, however diversified, in a single industry, the establishment data permit each plant or location of a company to be classified separately. Furthermore, the

level of industry classification can be much more detailed for individual establishments than is appropriate for consolidated enterprises, whose operations may span many narrowly defined industries. As a result, foreign-owned establishments can be classified into 459 manufacturing industries, whereas BEA's foreign-owned enterprises can be classified into only 55 manufacturing industries.

The establishment data also provide more detailed State-by-industry data than are available from the enterprise data, and the ASM data introduced in this article include the first available State-level measures of manufacturing production (value added) by foreign-owned firms.

Finally, the establishment-level data for foreign-owned and U.S.-owned companies presented in this article are closely comparable because they are from the same source. In contrast, the enterprise-level data for foreign-owned U.S. companies collected by BEA are frequently not comparable, except at highly aggregated levels, with data for all U.S. companies collected by other Government agencies. Because the other agencies' data are collected for different purposes, they often differ significantly in concept, definitions, consolidation, and industry classification from BEA's data for foreign-owned companies.

^{2.} A parallel project has linked Bea's fdius data to Bureau of Labor Statistics (Bls) data on all U.S. businesses. The initial results of that link, released in 1992 by Bls, provided data for 1989 and 1990 on the number, employment, and payroll of foreign-owned establishments for both manufacturing and nonmanufacturing industries. In October 1993, Bls released information on the occupational structure of foreign-owned manufacturing establishments in 1989. Data from the two link projects differ, particularly at the most detailed industry levels, because of differences in coverage, classification, timing, and definitions. Both projects were authorized by Congress under the Foreign Direct Investment and International Financial Data Improvements Act of 1990.

^{3.} For summary data for 1987, see "Foreign Direct Investment in the United States: Establishment Data for 1987," SURVEY OF CURRENT BUSINESS

BEA and the Census Bureau will publish ASM data for foreign-owned manufacturing establishments for 1991 and for 1988.

This article analyzes the operations of foreignowned manufacturing establishments on the basis of the 1990 ASM data. Although the data are for the year 1990, most of the findings probably also apply to more recent years, because both the overall level and the industry and country composition of foreign direct investment in U.S. manufacturing have changed little since then.⁴

Table 1.—Data for Foreign-Owned Manufacturing Establishments, 1989 and 1990

[Millions of dollars, except as noted]

| | 1989 | 1990 |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Number of establishments | 10,458 | 11,934 |
| Value added by manufacture | 161,929.2 | 177,360.7 |
| Value of shipments | 371,911.9 | 417,539.4 |
| Employment and employee compensation: Total employment (number of employees) | 1,815,311 1,082,983 732,328 | 2,004,235 1,188,140 816,095 |
| Production worker hours (millions of hours) | 2,203.2 | 2,411.7 |
| Employee compensation, total Payroll Production worker wages Other workers Benefits Legally required Other | 67,769.1 55,562.5 26,616.4 28,946.1 12,206.6 4,751.2 7,455.4 | 78,128.8 63,495.9 30,304.8 33,191.1 14,632.9 5,591.4 9,041.5 |
| Production worker wages per hour (dollars) | 12.08 | 12.57 |
| Expenditures for new plant and equipment: Total Buildings and other structures Machinery and equipment | 16,070.6 2,799.6 13,271.0 | 19,748.4 3,246.5 16,502.0 |
| Materials: Cost of materials, total Of which: Purchased fuels and electric energy Fuels Electric energy | 211,706.8 8,993.6 3,697.4 5,296.1 | 241,548.4 10,106.3 4,238.1 5,868.2 |
| Quantity of electric energy used (billion kWh) | 121,950.3 | 135,204.9 |
| Inventories: End of year, total Finished products Work-in-process Materials, supplies, fuels, etc. | 49,926.9 20,151.9 12,954.2 16,820.9 | 55,487.3 23,167.3 13,650.3 18,669.7 |
| Beginning of year, total Finished products Work-in-process Materials, supplies, fuels, etc. | 47,212.3 18,701.2 12,424.6 16,077.4 | 53,768.3 21,736.4 13,635.7 18,396.2 |

kWh Kilowatthours

The remainder of this article consists of two sections and a technical note. The first section provides an overview of the operations of foreign-owned manufacturing establishments by industry, country, and State. The second compares the following key aspects of the operations of foreign-owned establishments with those of U.S.-owned establishments: Plant size, capital intensity, employee compensation, hourly wage rates of production workers, and labor productivity. The technical note describes the statistical decomposition method used in the article to separate industry-mix effects from within-industry differences and discusses how the estimation of data for foreign-owned establishments and the inclusion of residual industries, which cover establishments not elsewhere classified, affect the findings of the article.

Overview of Operations

In 1990, there were 11,900 foreign-owned manufacturing establishments in the United States. They employed 2 million workers and had shipments of \$418 billion. Their value added, an approximate measure of production, was \$177 billion, 13 percent of the value added by all U.S. manufacturing establishments (table 2).5

More than one-half of the value added by foreign-owned manufacturing establishments in 1990 was accounted for by four Standard Industrial Classification (sic) two-digit industries: Chemicals and allied products (\$49 billion), food and kindred products (\$20 billion), electronic and other electric equipment (\$17 billion), and industrial machinery and equipment (\$14 billion). Production in the chemicals industry alone accounted for more than one-fourth of the value added by foreign-owned manufacturing establishments.

Among sic two-digit industries, the share of total U.S. production accounted for by foreign-owned establishments was largest in chemicals (32 percent), followed by stone, clay, and glass products (25 percent) and primary metals (19 percent). The share was less than 5 percent in four industries: Apparel and other textile products, lumber and wood products, furniture and fixtures, and transportation equipment.

^{72 (}October 1992): 44–78. For a slightly expanded version of that article, see Office of the Chief Economist, Economics and Statistics Administration, U.S. Department of Commerce, Foreign Direct Investment in the United States: An Update (Washington, DC: U.S. Government Printing Office, June 1993). The detailed 1987 data are available in a separate volume (see inside back cover for order information).

^{4.} Although foreign direct investment in manufacturing grew rapidly between 1987 and 1990, data from Bea's enterprise surveys indicate that there was little growth in the industry in 1991 and 1992. According to Bea's annual survey of Fddus, total manufacturing employment of U.S. affiliates in 1991 was almost the same as that in 1990, and changes in the composition of employment among subindustries of manufacturing and among investing countries were small. Moreover, data from Bea's latest survey of U.S. businesses acquired or established by foreign direct investors indicate that in 1992, new investment in manufacturing was at the lowest level in 8 years and was less than one-half that in 1991. In the May 1993 Survey, see "U.S. Affiliates

of Foreign Companies: Operations in 1991" and "U.S. Business Enterprises Acquired or Established by Foreign Direct Investors in 1992."

^{5.} Value added measured by the Census Bureau's ASM differs from BEA'S national income and product accounts measure of gross product because it includes purchased services but excludes indirect taxes and because it reflects inventory change valued at book value rather than at replacement cost.

Within a given two-digit industry, the shares for the component subindustries may vary considerably. In transportation equipment, for example, where foreign-owned establishments' share of value added was just under 5 percent, shares for sic three-digit subindustries ranged from less than 1 percent for "guided missiles, space vehicles, and parts" to 12 percent for railroad equipment. The share for motor vehicles and equipment was 8 percent.

At the SIC four-digit level, foreign-owned establishments had operations in 429 of the 459 manufacturing industries. They accounted for less than 5 percent of total industry production in 149 industries and for more than 30 percent in 45 industries (table 3). Of the latter group, 13 industries were in chemicals, 6 in stone, clay, and glass products, and 6 in electronic and other electric equipment.

In nine industries, foreign-owned establishments accounted for more than one-half of total U.S. production. Their shares were highest in three chemicals industries: Inorganic pigments (71 percent), biological products except diagnostic (69 percent), and noncellulosic organic fibers (67 percent) (table 14). Among the industries outside chemicals, the share was highest in hydraulic cement (62 percent).

By country

In 1990, more than 80 percent of the employment, shipments, and value added by all foreign-

owned manufacturing establishments were accounted for by establishments with ultimate beneficial owners (UBO'S) in seven countries: Canada, France, Germany, Japan, the Netherlands, Switzerland, and the United Kingdom (table 4).⁶ The establishments of these seven countries accounted for 86 percent of the value added by all foreign-owned manufacturing establishments and for 11 percent of the value added by all U.S. manufacturing establishments.

Table 3.—Distribution of Manufacturing Industries According to Foreign-Owned Establishments' Share of Value Added, 1990

| Percentage of an industry's value added accounted for by foreign-owned establishments | Number of industries | | | |
|------------------------------------------------------------------------------------------|----------------------|--|--|--|
| 0 1 | 30 | | | |
| Less than 5.0 ² | 119 | | | |
| 5.0-9.9 | 89 | | | |
| 10.0–14.9 | 73 | | | |
| 15.0–19.9 | 43 | | | |
| 20.0–24.9 | 33 | | | |
| 25.0–29.9 | 27 | | | |
| 30.0–34.9 | 10 | | | |
| 35.0–39.9 | 13 | | | |
| 40.0–44.9 | 6 | | | |
| 45.0–49.9 | 7 | | | |
| 50.0 or more | 9 | | | |

^{1.} Industries with no foreign-owned establishments.

Table 2.—Selected Data for Foreign-Owned Manufacturing Establishments, by Industry, 1990

| | | | Foreign-owne | Foreign-owned establishments as | | | | | |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|
| SIC code | Industry | Number | Number of | Millions o | of dollars | a percentage of all U.S. establishments | | | |
| code | , | of estab- lishments | employees | Value added Shipments | | Employ- ment | Value added | Ship- ments | |
| | Manufacturing | 11,934 | 2,004,235 | 177,360.7 | 417,539.4 | 10.6 | 13.4 | 14.5 | |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | Food and kindred products Tobacco products Textile mill products Apparel and other textile products Lumber and wood products Furniture and fixtures Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics products Leather and leather products Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment | 983 5 183 116 116 184 83 328 834 1,520 319 29 1,421 402 593 945 760 274 | 159,386 H 47,363 23,085 17,043 J 48,644 103,983 242,392 25,638 120,951 6,362 105,578 119,087 93,300 191,440 228,237 104,147 | 19,501.2 (P)) 2,283.1 850.2 842.5 (P)) 4,709.2 10,408.8 48,835.7 4,106.8 8,757.9 287.3 8,450.2 10,297.6 6,350.2 13,561.7 16,703.2 7,170.6 | 46,842.8 (P) 5,693.6 1,727.5 2,304.0 (P) 11,395.2 16,499.9 87,678.9 46,372.6 17,790.6 608.1 16,407.5 31,902.9 13,973.6 31,010.6 34,601.8 28,834.9 | 10.8 (P) 7.5 2.3 2.5 (P) 7.7 6.8 28.4 22.9 13.9 5.4 20.7 16.7 16.7 16.5 10.2 15.2 | 13.8 (P) 8.6 2.6 2.9 (P) 7.9 10.1 31.9 15.1 17.6 6.3 24.8 19.3 7.9 10.3 15.6 | 12.2 (P) 8.6 2.7 3.1 (P) 8.7 10.5 30.4 26.9 17.5 6.2 25.9 21.8 8.6 12.1 17.8 7.8 | |
| 38 39 | Instruments and related products | 467 128 | 121,520 26,087 | 9,722.1 1,929.3 | 15,840.7 3,553.2 | 12.8 6.8 | 11.9 9.6 | 12.8 9.6 | |
| | Administrative and auxiliary | 1,702 | 200,064 | n.a. | n.a. | 15.9 | n.a. | n.a. | |

D Suppressed to avoid disclosure of data of individual companies.

^{6.} The ubo is that person, proceeding up a U.S. affiliate's ownership chain, beginning with and including the foreign parent, that is not owned more than 50 percent by another person. The foreign parent is the first foreign person in the affiliate's ownership chain. Unlike the foreign parent, the ubo of an affiliate may be located in the United States. The ubo of each U.S. affiliate is identified to ascertain the person that ultimately owns or controls and that, therefore, ultimately derives the benefits from owning or controlling the U.S. affiliate.

Includes three industries for which value added by foreign-owned establishments was negative in 1990.

Note.—The distribution is across the 459 industries defined at the four-digit level of the Standard Industrial Classification.

n.a. Not available

NOTE.—Size ranges are given in employment cells that are suppressed. The size ranges are:

A—0 to 19; B—20 to 99; C—100 to 249; E—250 to 499; F—500 to 999; G—1,000 to 2,499; H—2,500 to 4,999; I—5,000 to 9,999; J—10,000 to 24,999; K—25,000 to 49,999; L—50,000 to 99,999; M—100,000 or more.

SIC Standard Industrial Classification

Among establishments of individual investing countries, British-owned establishments accounted for the largest share of production by foreign-owned manufacturing establishments (23 percent), followed by Canadian-owned establishments (15 percent) and Japanese-owned establishments (13 percent). The share of total U.S. manufacturing production accounted for by British-owned establishments was 3 percent.

British-owned establishments also accounted for the largest share of production by foreignowned establishments in 10 of the 20 SIC twodigit manufacturing industries. Among these 10 industries, their share of total U.S. manufacturing production was largest in tobacco products, petroleum and coal products, food and kindred products, and instruments and related products (table 5).

Japanese-owned establishments accounted for the largest share of production by foreign-owned establishments in four industries: Primary metals, industrial machinery and equipment, electronic and other electric equipment, and transportation equipment. Their share of total U.S.

Table 4.—Selected Data for Foreign-Owned Manufacturing Establishments, by Country of UBO, 1990

| Table 4.—Selected Data for For | | | | of dollars | | of all-countri | | rcent) |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| • | Number of | Number of | IVIIIIIVI | JI UUIIAIS | | | 62 Iorai (heir | |
| Country | establish- ments | employees | Value added | Value of shipments | Number of estab- lishments | Number of em- ployees | Value added | Value of ship- ments |
| All countries | 11,934 | 2,004,235 | 177,360.7 | 417,539.4 | 100.0 | 100.0 | 100.0 | 100.0 |
| Canada | 1,538 | 269,362 | 26,869.2 | 58,983.3 | 12.9 | 13.4 | 15.1 | 14.1 |
| Europe | 8,007 | 1,297,424 | 115,466.1 | 251,039.0 | 67.1 | 64.7 | 65.1 | 60.1 |
| Austria Belgium Denmark Finland France | 27 95 39 123 1,217 | 5,035 14,633 7,159 18,112 178,324 | 417.1 1,626.7 377.4 1,194.5 15,390.3 | 816.2 4,975.5 916.6 2,891.2 36,168.0 | .2 .8 .3 1.0 10.2 | .3 .7 .4 .9 8.9 | .2 .9 .2 .7 8.7 | .2 1.2 .2 .7 8.7 |
| Germany Ireland Italy Liechtenstein Luxembourg Netherlands | 1,045 243 141 9 25 618 | 229,007 26,534 17,307 917 5,003 123,424 | 20,442.5 2,090.1 1,260.1 50.9 307.2 11,648.1 | 40,568.9 5,227.6 3,755.4 120.7 664.3 34,800.9 | 8.8 2.0 1.2 .1 .2 5.2 | 11.4 1.3 .9 (*) .2 6.2 | 11.5 1.2 .7 (*) .2 6.6 | 9.7 1.3 .9 (*) .2 8.3 |
| Norway Spain Sweden Switzerland United Kingdom Other | 53 20 347 697 3,291 17 | 5,771 399 73,818 133,934 456,618 1,429 | 463.9 26.5 4,969.9 14,829.4 40,325.9 45.5 | 933.8 65.7 10,760.5 27,440.4 80,610.2 323.0 | .4 .2 2.9 5.8 27.6 | .3 (*) 3.7 6.7 22.8 .1 | .3 (*) 2.8 8.4 22.7 (*) | .2 (*) 2.6 6.6 19.3 .1 |
| Latin America and Other Western Hemisphere | 238 | 56,017 | 4,624.6 | 14,068.4 | 2.0 | 2.8 | 2.6 | 3.4 |
| South and Central America Brazil Mexico Panama Venezuela Other | 143 9 64 35 31 4 | 38,737 358 J J 6,684 174 | 3,614.5 22.9 (^D) (^D) 1,123.1 15.5 | 11,999.7 77.3 (P) (P) 7,532.0 27.4 | 1.2 .1 .5 .3 .3 | 1.9 (*) .5–1.2 .5–1.2 .3 (*) | 2.0 (*) (D) (D) (D) .6 (*) | 2.9 (*) (D) (D) 1.8 (*) |
| Other Western Hemisphere | 95 | 17,280 | 1,010.1 | 2,068.7 | .8 | .9 | .6 | .5 |
| Africa | 46 | 6,869 | 475.1 | 1,374.4 | .4 | .3 | .3 | .3 |
| Middle East | 67 | 1 | (D) | (D) | .6 | .2–.5 | (D) | (D) |
| Asia and Pacific Australia Hong Kong Japan Korea, Republic of Malaysia New Zealand Philippines Singapore Taiwan Other | 2,005 497 3 1,356 20 1 51 13 8 37 19 | 362,948 36,448 C 291,415 3,988 C 17,489 H 1,184 5,840 G | 29,384.5 3,785.0 (P) 22,814.6 253.8 (P) 1,352.6 (P) 106.1 501.1 (P) | 83,833.6 10,446.8 (P) 65,760.0 1,145.0 (P) 3,549.5 (P) 283.2 1,327.6 (P) | 16.8 4.2 (*) 11.4 .2 (*) 4 .1 .1 .3 .2 | 18.1 1.8 (*) 14.5 .2 (*) .9 .1–.2 .1 .3 0–.1 | 16.6 2.1 (P) 12.9 .1 (P) .8 (P) .1 .3 (P) | 20.1 2.5 (P) 15.7 .3 (P) .9 (P) .1 .3 (P) |
| United States | 33 | Н | (D) | (D) | .3 | .2 | (D) | (D) |
| Addenda: European Communities (12) ¹ OPEC ² | 6,735 77 | L J | (D) (D) | (D) (D) | 56.4 .6 | 2.5–5.0 .5–1.2 | (D) (D) | (D) (D) |

^D Suppressed to avoid disclosure of data of individual companies.

D Suppressed to avoid disclosure of data of individual companies.
* Less than 0.05 percent.
1. The European Communities (12) comprises Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, and the United Kingdom.
2. OPEC is the Organization of Petroleum Exporting Countries. Through 1992, its members were Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.
NOTES.—The columns for number of establishments and for number of employees cover both

operating establishments and administrative and auxiliary establishments; the other columns cover

operating establishments and administrative and administrative stabilishments, the other columns cover operating establishments only.

Size ranges are given in employment cells that are suppressed. The size ranges are: A—0 to 19; B—20 to 99; C—100 to 249; E—250 to 499; F—500 to 999; G—1,000 to 2,499; H—25,000 to 9,999; D—10,000 to 24,999; K—25,000 to 49,999; L—50,000 to 99,999; M—100,000 or more.

UBO Ultimate beneficial owne

manufacturing production was largest in primary metals and in electronic and other electric equipment.

Table 6 presents, for each of the seven major investing countries, ratios of the country's share of U.S. value added in each sic two-digit industry to the country's share of value added in manufacturing as a whole. These ratios can be interpreted as indexes of relative intensity of investment by a country, taking into account both the size of the industry and the overall level of manufacturing production by the country's U.S. establishments.

Because these ratios allow for variations in both industry size and production levels, the ratios, unlike simple distributions of value added, can be compared across countries as well as among industries. A value greater than 1.0 indicates that production by the investing country's establishments was more intense in the given industry than in manufacturing as a whole. For example, Japanese-owned establishments accounted for 1.7 percent of total U.S. manufacturing production but for 3.5 percent of U.S. production in rubber products; thus, the value of the index for

Table 5.—Value Added in Manufacturing Industries by All U.S. Establishments and by Foreign-Owned Establishments of Major Investing Countries, 1990

| Investing Countries, 1990 | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| SIC | | All U.S. | | | Foreign- | owned esta | blishments I | by country o | of UBO | | | U.Sowned | | |
| code | Industry | establishments | All countries | Canada | France | Germany | Nether- lands | Switzer- land | United Kingdom | Japan | Other countries | establish- ments | | |
| | | Millions of dollars | | | | | | | | | | | | |
| | Manufacturing | 1,326,361.7 | 177,360.7 | 26,869.2 | 15,390.3 | 20,442.5 | 11,648.1 | 14,829.4 | 40,325.9 | 22,814.6 | 25,040.8 | 1,149,001.0 | | |
| 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 | Food and kindred products Tobacco products Textile mill products Apparel and other textile products Lumber and wood products Furniture and fixtures Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics products Leather and leather products Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Instruments and related products Miscellaneous manufacturing industries | 140,972.8 22,561.3 26,541.6 33,034.0 28,597.2 21,644.7 59,823.3 103,179.0 153,032.4 27,214.1 49,889.0 4,586.6 79,951.9 132,165.8 106,983.9 146,916.3 81,665.6 20,095.6 | 19,501.2 (P) 2,283.1 850.2 842.5 (P) 4,709.2 10,408.8 48,835.7 4,106.8 8,757.9 287.3 8,450.2 10,297.6 6,350.2 13,561.7 16,703.2 7,170.6 9,722.1 1,929.3 | 2,108.1 0 507.6 (D) (D) 749.8 3,143.4 (P) 1,032.1 996.1 (P) 154.5 1,522.7 877.0 501.8 2,399.1 801.0 1,355.6 64.6 | 1,175.4 0 195.2 (P) 18.0 (P) 129.7 465.6 2,944.8 (P) 2,153.6 (P) 2,256.9 1,342.3 (P) 799.3 390.6 279.6 | 445.6 (P) 264.9 129.4 62.0 (P) 119.1 1.248.1 9,316.9 (P) 610.6 655.5 685.9 1,739.4 2,273.6 330.2 1,271.3 (P) | 2,949.6 0 0.7.7 (P) (P) (P) 5,034.2 (P) 174.1 62.9 (P) 26.9 (P) | 3,913.7 0 48.1 0 (P) (P) 68.7 (P) 117.8 (P) 117.8 (P) 515.2 231.0 689.8 714.8 (P) 1,068.3 (P) | 5,821.8 (P) 693.1 186.8 281.2 (P) 2,856.1 8,760.1 1,952.4 1,731.5 (P) 1,747.3 956.9 1,917.2 2,612.0 2,549.6 1,131.1 3,314.1 3,314.9 612.4 | 786.0 0 246.9 (P) 76.1 (P) 477.4 386.4 2,438.7 (P) 1,722.4 0 774.7 3,874.2 426.4 2,947.5 4,333.1 3,183.2 780.1 235.1 | 2,301.0 0 289.8 (P) (P) (P) 1,670.8 (P) 446.1 (P) (2,216.8 1,505.0 962.3 4,084.0 (P) (P) (P) (P) (P) (P) (P) (P) | 121,471.6 (P) 24,258.5 32,183.8 27,754.7 (P) 55,114.1 92,770.2 104,196.7 23,107.3 41,131.1 4,299.3 25,690.0 43,069.0 73,601.7 71,943.5 18,166.3 | | |
| | | | | | P | ercent of all | U.S. establ | ishments | | | | | | |
| | Manufacturing | 100.0 | 13.4 | 2.0 | 1.2 | 1.5 | 0.9 | 1.1 | 3.0 | 1.7 | 1.9 | 86.6 | | |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 | Food and kindred products Tobacco products Textile mill products Apparel and other textile products Lumber and wood products Furniture and fixtures Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics products Leather and leather products Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Instruments and related products Miscellaneous manufacturing industries Addendum: | 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 | 13.8 (P) 8.6 2.9 (P) 7.9 10.1 31.9 15.1 17.6 6.3 7.9 10.3 15.6 4.9 11.9 9.6 | 1.5 0 1.9 (D) (D) (D) 1.3 3.0 (P) 5.5 2.9 1.1 4.2.2 5.5 1.7 | .8 0 .7 (P) .1 (P) .2 .5 .5 .1.9 (P) .6 6 .2.5 (P) .6 6 .8 .5 .5 .1.4 | .3 (P) 1.00 .4 .2 (P) .2 .1.2 6.1 (P) 2.3 0 1.8 1.2 .9 1.2 1.6 (P) | 2.1 0 1. (P) (P) (P) 3.3 (P) (P) 5.5 1. (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 2.8 0 .2 0 .2 0 .2 0 .5 .7 .7 .3 5 .7 .7 (P) .1.3 (P) | 4.1 (P) 6.6 1.0 (P) 1.5 2.8 5.7 7.2 3.5 (P) 1.8 2.4 2.0 2.4 8.3 4.1 | .6 0 .9 (P) .3 (P) .8 .4 1.6 (P) .3.5 0 .2.3 7.33 .5 2.2 .2.4.1 2.2 1.0.0 1.2 | 1.6 0 1.1 (D) (D) (D) 1.6 (D) (D) 9 (D) 6.5 2.8 1.2 3.1.1 (D) | 86.2 (P) 91.4 97.4 97.1 (P) 92.1 88.9 68.1 84.9 82.4 93.7 75.2 80.7 92.1 88.1 90.4 | | |
| | Total number of industries in which the UBO country's establishments have the highest share of value added amoung investing countries | | | 2 | 3 | 0 | 0 | 0 | 10 | 4 | 1 | | | |

Less than 0.05 percent

^D Suppressed to avoid disclosure of data of individual companies.

UBO Ultimate beneficial owner SIC Standard Industrial Classification

Japanese-owned establishments in rubber products was 2.0, indicating a relatively high intensity of investment in the industry.

In the table, France stands out because of the relatively high intensity of its investment in stone, clay, and glass products: In 1990, French-owned establishments' share of U.S. production in this industry was nearly six times as large as their share in total manufacturing. France also shows relatively intense investment in the rubber products industry, where French-owned establishments' share of production was nearly four times as large as their share in total manufacturing.

Japan shows relatively intense investment in the primary metals industry; Japanese-owned establishments' share of production in this industry was more than four times as large as that in total manufacturing. In contrast, their share of production in transportation equipment was only slightly higher than their share in total manufacturing.

Germany shows relatively intense investment in chemicals, as do Switzerland and the Netherlands. The establishments of each of these three countries had shares of production in chemicals that were nearly four times as large as their shares in total manufacturing.

By State

The States with the largest production by foreignowned manufacturing establishments were California, Texas, New Jersey, North Carolina, Ohio, and New York (table 7). These six States accounted for 41 percent of the total production by foreign-owned manufacturing establishments in the United States. By two-digit industry, California accounted for a particularly large share of the production in electronic and other electric equipment (23 percent), and New York accounted for a very large share in printing and publishing (26 percent) (table 8). Texas, New Jersey, and North Carolina together accounted for nearly 40 percent of the production by foreign-owned establishments in chemicals, and Ohio accounted for nearly 20 percent in transportation equipment.

Among two-digit industries, chemicals accounted for the largest share of production by foreign-owned manufacturing establishments in 20 States, and food products accounted for the largest share in 11 States. The chemicals industry accounted for more than one-half of foreign-owned production in five States: Delaware, West Virginia, New Jersey, Texas, and Virginia.

The States in which foreign-owned establishments accounted for the largest share of manufacturing production were Delaware (37 percent), West Virginia (36 percent), New Jersey (24 percent), Georgia (19 percent), South Carolina (19 percent), and North Carolina (19 percent). In several of these States, foreign-owned establishments accounted for very large shares of chemicals production—74 percent in Delaware, 56 percent in West Virginia, 47 percent in New Jersey, and 60 percent in North Carolina (table 9). In North Carolina, foreign-owned establishments also accounted for large shares of production

Table 6.—Index of Relative Intensity of Production in Manufacturing for All Foreign-Owned Establishments and for Establishments of Major Investing Countries, 1990

| SIC code | Industry | All countries | Canada | France | Germa- ny | Nether- lands | Switzer- land | United Kingdom | Japan | Other countries |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| | Manufacturing | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | Food and kindred products Tobacco products Textille mill products Apparel and other textile products Lumber and wood products Lumber and wood products Furniture and fixtures Paper and allied products Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and miscellaneous plastics products Leather and leather products Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Instruments and related products Miscellaneous manufacturing industries | 1.034 (P) .643 .192 .220 (P) .589 .754 2.386 1.129 1.313 .468 1.851 1.443 .594 .767 1.168 .365 .890 .718 | .738 0 .944 (P) .619 1.504 (P) .223 1.408 .541 1.187 .223 1.408 .541 1.187 1.107 .269 .819 | .719 0 .634 (P) .054 (P) .187 .389 1.658 (P) .3.720 (D) .5.697 2.168 (P) .521 .727 .424 .412 1.199 | .205 (P) .648 .254 .141 (P) .129 .785 3.950 (P) .1.463 0 .1.160 .797 .557 .854 1.379 .146 1.010 (P) | 2.382 0.162 (P) (P) (P) 3.746 (P) 1.062 (P) 5.81 1.134 (P) .162 (P) .021 (P) | 2.483 0 .162 0 (P) (P) 3.786 (P) .211 (P) 1.350 .634 .258 .467 .598 (P) 1.170 (P) | 1.358 (P) .859 .186 .323 (P) .487 .910 1.883 2.360 1.142 (P) 1.683 .590 .789 .650 .784 .253 1.335 | .324 0 .541 (P) .155 (P) .464 .218 .926 (P) .2.007 0 .310 1.297 2.355 1.260 .555 680 | .865 0.578 (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) |

D Suppressed to avoid disclosure of data of individual companies.

NOTE.—The index is the share of total U.S. value added in the given manufacturing industry accounted for by establishments of the given UBO country divided by the share of total U.S. value added in total manufacturing accounted for by establishments of the UBO country. This

index is similar in form to the export index of revealed comparative advantage introduced in Bela Balassa, "Trade Liberalization and 'Revealed' Comparative Advantage," *Manchester School* 33 (May 1965): 99–123.

SIC Standard Industrial Classification

in both the electronics and the instruments industries (40 percent in each). In South Carolina, foreign-owned establishments accounted for more than 50 percent of the State's production in the rubber products industry.

Comparison of Foreign-Owned and U.S.-Owned Establishments

This section compares the operations of foreignowned manufacturing establishments with those of U.S.-owned ones in terms of plant size (or scale), capital intensity, compensation per employee, production-worker wage rates, and labor productivity.⁷ The section also examines whether differences between the hourly wage rates of production workers in foreign-owned and U.S.-owned establishments reflect differences in their

Table 7.—Selected Data for Foreign-Owned Manufacturing Establishments, by State, 1990

| | | Foreign-owne | | ed establishm f all U.S. esta | | | |
|--------------------------------|---------------------|------------------|------------------------------|----------------------------------|------------------------|--------------------------|--------------------------|
| State | Number of | Number of em- | Millions of | f dollars | l | | DIISTITIETIUS |
| | establish- ments | ployees | Value added | Shipments | Number of employees | Value added | Shipments |
| Total | 11,934 | 2,004,235 | 177,360.7 | 417,539.4 | 10.6 | 13.4 | 14.5 |
| Alabama | 185 | 33,678 | 3,019.5 | 6,661.1 | 9.2 | 14.1 | 13.7 |
| Alaska | 24 115 | 3,092 10,998 | 182.8 747.2 | 658.6 2,002.9 | 22.7 6.1 | 13.1 6.3 | 17.9 8.8 |
| Arizona Arkansas | 106 | 17.881 | 1.225.5 | 3.262.6 | 8.2 | 9.8 | 10.7 |
| California | 1,361 | 205,024 | 18,533.9 | 42,051.9 | 9.7 | 12.4 | 14.3 |
| Colorado | 119 | 10,964 | 1,019.5 | 2,342.8 | 6.1 | 7.4 | 8.5 |
| Connecticut | 194 | 34,571 | 2,650.5 | 4,407.9 | 10.0 | 11.1 | 11.0 |
| Delaware District of Columbia | 69 | 30,386 215 | 1,658.0 17.4 | 4,339.9 37.4 | 46.2 1.5 | 36.7 1.1 | 33.6 1.7 |
| Florida | 504 | 44,688 | 3,091.7 | 7,342.6 | 9.0 | 10.4 | 12.1 |
| Georgia | 491 | 70,347 | 6,926.8 | 13,730.2 | 12.5 | 19.2 | 16.3 |
| Hawaii | 30 | 2,087 | 275.7 | 1,218.0 | 10.1 | 17.7 | 29.0 |
| Idaho | 25 649 | 3,414 110,468 | 269.4 8.684.1 | 509.8 25,260.4 | 5.6 11.0 | 6.9 12.3 | 5.6 16.1 |
| IllinoisIndiana | 317 | 86,378 | 7,683.9 | 16,766.2 | 14.0 | 17.1 | 17.0 |
| lowa | 106 | 22.359 | 1.863.0 | 3.631.8 | 9.7 | 9.6 | 7.9 |
| Kansas | 89 | 13,547 | 1,144.2 | 2,902.8 | 7.1 | 8.8 | 8.0 |
| Kentucky | 184 | 42,508 | 3,790.1 | 10,006.8 | 15.2 | 16.0 | 18.6 |
| Louisiana Maine | 127 59 | 17,136 7,384 | 4,179.7 554.9 | 18,892.9 1,406.8 | 10.0 7.2 | 18.5 9.4 | 28.7 11.3 |
| Maryland | 196 | 27,941 | 2,232.4 | 4.859.0 | 13.2 | 14.2 | 15.8 |
| Massachusetts | 313 | 57,078 | 4,900.7 | 8,828.3 | 10.8 | 14.0 | 13.8 |
| Michigan | 396 | 70,914 | 5,300.0 | 14,368.9 | 7.8 | 8.2 | 9.4 |
| MinnesotaMississippi | 174 110 | 31,983 13,706 | 1,813.5 1,109.5 | 4,009.6 2,582.0 | 8.1 5.9 | 7.0 8.7 | 7.3 8.5 |
| Missouri | 268 | 36.928 | 3.635.1 | 7.388.7 | 8.7 | 12.0 | 11.0 |
| Montana | 15 | 943 | 77.3 | 794.4 | 4.7 | 6.5 | 19.7 |
| Nebraska | 54 | 8,022 | 956.7 | 1,960.4 | 8.1 | 12.8 | 9.6 |
| New Hampshire | 27 91 | 1,501 11,915 | 123.6 690.1 | 244.7 1,375.0 | 5.9 12.9 | 8.4 12.4 | 8.4 14.1 |
| New Jersey | 590 | 98.905 | 11.023.0 | 19.989.2 | 15.8 | 24.4 | 22.8 |
| New Mexico | 34 | 2,640 | 183.6 | 369.7 | 6.6 | 8.2 | 6.7 |
| New York | 650 | 104,499 | 9,528.6 | 18,845.2 | 9.1 | 11.1 | 12.2 |
| North Carolina North Dakota | 483 7 | 110,447 F | 10,682.9 (^D) | 21,147.8 (^D) | 13.3 (D) | 18.5 (^D) | 18.2 (^D) |
| Ohio | 644 | 118,364 | 9,888.5 | 26.449.0 | 10.9 | 12.3 | 14.9 |
| Oklahoma | 103 | 15,842 | 1,339.5 | 4,256.8 | 9.5 | 11.3 | 15.2 |
| Oregon | 119 | 15,269 | 1,071.7 | 3,313.9 | 7.1 | 8.1 | 10.7 |
| Pennsylvania Rhode Island | 667 51 | 119,688 6,628 | 9,511.1 390.4 | 20,216.7 909.7 | 11.9 6.6 | 14.8 7.6 | 14.8 9.3 |
| | | , | | | | | |
| South CarolinaSouth Dakota | 229 21 | 59,626 2.947 | 3,996.1 141.6 | 9,724.6 338.2 | 16.2 9.9 | 19.0 8.7 | 20.8 7.5 |
| Tennessee | 308 | 72,779 | 5,252.6 | 14.102.1 | 14.4 | 17.4 | 20.9 |
| Texas | 783 | 101,890 | 12,849.7 | 35,184.0 | 10.8 | 15.4 | 16.7 |
| Utah | 51 | 7,049 | 588.7 | 1,302.2 | 6.9 | 9.6 | 9.3 |
| Vermont | 26 | 3,657 | 224.7 | 490.1 | 8.3 | 7.0 | 8.8 |
| Virginia Washington | 242 197 | 47,873 22,979 | 4,555.3 1,867.1 | 8,465.5 5,454.6 | 11.3 | 14.0 7.5 | 13.9 8.1 |
| WashingtonWest Virginia | 61 | 22,979 18,047 | 2,291.7 | 5,454.6 4,489.5 | 22.0 | 7.5 36.1 | 34.7 |
| Wisconsin | 249 | 46,016 | 3,551.0 | 8,520.9 | 8.4 | 9.6 | 10.3 |
| Wyoming | 8 | C | (D) | (D) | (D) | (D) | (D) |

D Suppressed to avoid disclosure of data of individual companies.

Size ranges are given in employment cells that are suppressed. The size ranges are: A=0 to 19; B=20 to 99; C=100 to 249; E=250 to 499; F=500 to 999; G=1,000 to 2,499; H= 2,500 to 4,999; I=5,000 to 9,999; J=10,000 to 24,999; K=25,000 to 49,999; L=50,000 to 99,999; M=100,000 or more.

^{7.} The analysis in this section is based on data for operating establishments only. Data for administrative and auxiliary establishments are not available by detailed industry for either foreign-owned or all U.S. establishments.

NOTES.—The columns for number of establishments and for number of employees cover both operating establishments and administrative and auxiliary establishments; the other columns cover operating establishments only.

Table 8.—Value Added by Foreign-Owned Manufacturing Establishments, State by Selected Industry, 1990 [Millions of dollars]

| | [Millions of Condis] | | | | | | | | | | | | | | |
|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------|
| | | | | | | | | Selected i | ndustries | | | | | | |
| State | Total | Food and kindred products | Textile mill products | Paper and allied products | Printing and publishing | Chemi- cals and allied products | Petroleum and coal products | Rubber and miscel- laneous plastics products | Stone, clay, and glass products | Primary metal industries | Fabricat- ed metal products | Industrial machinery and equip- ment | Electronic and other electric equip- ment | Transpor- tation equip- ment | Instru- ments and related products |
| SIC code | | 20 | 22 | 26 | 27 | 28 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| Total | 177,360.7 | 19,501.2 | 2,283.1 | 4,709.2 | 10,408.8 | 48,835.7 | 4,106.8 | 8,757.9 | 8,450.2 | 10,297.6 | 6,350.2 | 13,561.7 | 16,703.2 | 7,170.6 | 9,722.1 |
| Alabama Alaska Arizona Arkansas California | 3,019.5 182.8 747.2 1,225.5 18,533.9 | (D) (D) 43.2 170.1 2,471.0 | 103.1 0 0 0 (^D) | 348.4 (^D) 0 36.1 344.6 | 18.6 0 (D) (D) 936.4 | 896.6 (^D) 20.6 81.8 3,430.1 | (D) 0 0 (D) (D) | 634.0 0 52.7 (^D) 376.5 | 183.4 0 159.0 48.7 1,008.0 | (^D) 0 147.6 56.7 475.7 | (D) (D) 68.1 149.7 608.6 | 96.1 0 107.2 214.8 1,880.0 | 248.3 0 (^D) 214.5 3,920.9 | (D) 0 (D) 54.6 880.1 | (D) 0 (D) (D) 1,936.5 |
| Colorado | 1,019.5 2,650.5 1,658.0 17.4 3,091.7 | 210.3 163.2 (^D) 0 645.4 | 0 32.3 0 0 0 | (D) 15.8 0 0 (D) | 140.5 141.4 0 (^D) 164.5 | 107.8 973.5 1,316.3 0 225.5 | (D) 10.6 (D) 0 (D) | (D) 18.8 (D) (D) 72.0 | 85.1 80.2 (^D) (D) 400.2 | (D) 207.4 (D) 0 84.3 | (D) 122.7 (D) 0 78.8 | 100.6 206.6 (^D) 0 300.4 | 64.1 102.0 0 0 497.4 | 0 (D) 0 0 147.3 | 57.1 248.0 (^D) 0 128.7 |
| Georgia Hawaii Idaho Illinois Indiana | 6,926.8 275.7 269.4 8,684.1 7,683.9 | 550.3 (^D) 125.4 1,435.7 1,025.4 | (D) 0 0 0 (D) | 355.5 (D) 0 220.8 (D) | 144.0 (D) (D) 801.2 330.3 | 1,026.2 (^D) 6.3 1,660.1 893.5 | (D) (D) 0 149.7 3.6 | 145.6 (^D) 0 645.5 534.8 | 407.3 (D) (D) 327.5 (D) | 208.1 (^D) 0 572.8 1,758.2 | 111.8 0 0 310.4 335.8 | 241.2 0 (P) 880.2 780.9 | 823.1 0 (P) 790.5 634.5 | 10.1 (D) 0 (D) 224.8 | 262.7 0 0 489.1 654.7 |
| lowa Kansas Kentucky Louisiana Maine | 1,863.0 1,144.2 3,790.1 4,179.7 554.9 | 360.3 195.6 527.9 261.2 95.8 | 0 0 (D) (D) 0 | 42.2 (D) (D) (D) (D) 265.6 | 125.9 172.6 95.3 (D) | 209.7 128.3 739.1 1,855.7 (^D) | (D) (D) (D) (D) (D) | 371.9 (D) (D) 10.7 43.7 | 76.0 124.6 168.8 38.3 (^D) | (D) (D) 814.6 0 (D) | (D) 13.3 146.0 (D) 12.2 | 254.0 87.9 189.1 (^D) 23.8 | (D) (D) 85.4 (D) (D) | (D) (D) (D) (D) (D) | (D) (D) 0 0 0 |
| Maryland Massachusetts Michigan Minnesota Mississippi | 2,232.4 4,900.7 5,300.0 1,813.5 1,109.5 | 460.3 218.3 550.5 421.1 39.4 | (^D) 111.9 0 (^D) 0 | (D) 141.1 83.6 (D) (D) | 220.0 501.6 255.7 179.1 (^D) | 570.2 446.5 837.1 91.5 363.7 | (D) (D) (D) (D) (D) | 89.6 151.1 261.8 86.7 115.4 | 183.1 (^D) 231.1 70.7 95.7 | (D) 201.0 690.9 (D) 35.0 | 44.8 276.5 368.9 (^D) 133.4 | 99.1 827.5 649.1 213.7 (^D) | 195.4 530.2 292.1 266.1 (^D) | (D) 78.0 713.5 (D) (D) | 117.8 504.8 206.9 101.2 42.7 |
| Missouri Montana Nebraska Nevada New Hampshire | 3,635.1 77.3 956.7 123.6 690.1 | 900.9 (^D) 363.8 43.3 35.7 | (D) 0 0 0 (D) | 102.5 0 0 (^D) 40.1 | 81.9 0 (^D) 0 46.7 | 1,108.7 (P) 401.1 (D) (D) | (D) (D) (D) (D) 0 (D) | 63.3 (D) (D) (D) (D) 96.7 | 187.3 (^D) (^D) 32.6 27.9 | 307.2 (D) (D) 19.5 (D) | 200.8 (D) (D) 0 (D) | 161.3 0 (^D) 0 209.8 | 149.5 0 (^D) 0 64.5 | (D) 0 (D) 0 0 | 129.6 0 (^D) (^D) 76.9 |
| New Jersey New Mexico New York North Carolina North Dakota | 11,023.0 183.6 9,528.6 10,682.9 (^D) | 1,156.4 (^D) 1,069.9 290.1 (^D) | (^D) 0 52.9 489.5 0 | 177.1 0 182.0 141.4 0 | 419.8 (^D) 2,707.7 160.2 (^D) | 6,726.3 (^D) 1,813.4 4,886.5 0 | 76.6 (D) (D) (D) 0 | 209.6 (^D) 495.7 562.4 0 | 232.3 18.4 293.1 295.7 0 | 255.2 0 373.8 160.9 0 | 178.3 0 332.1 235.7 0 | 340.5 (^D) 595.3 525.6 0 | 357.5 (^D) 798.2 1,894.0 0 | 33.8 0 136.2 191.3 (^D) | 787.7 (^D) 441.2 528.2 0 |
| Ohio Oklahoma Oregon Pennsylvania Rhode Island | 9,888.5 1,339.5 1,071.7 9,511.1 390.4 | 1,148.6 89.0 169.8 1,065.3 (^D) | (D) 0 (D) 95.7 (D) | 229.1 (D) (D) 388.4 0 | 395.3 47.6 (^D) 794.3 45.5 | 1,609.1 195.5 117.5 1,505.4 (^D) | (D) (D) (D) (D) (D) | 541.0 430.0 10.7 214.4 38.4 | 479.2 123.6 36.4 511.8 (^D) | 1,035.5 (^D) 84.7 526.7 (^D) | 491.1 102.3 (^D) 510.7 15.9 | 617.0 87.4 203.6 971.0 21.7 | 619.0 (^D) 168.7 765.4 46.8 | 1,338.6 (D) (D) 628.4 0 | 535.4 61.1 (^D) 868.5 83.5 |
| South Carolina South Dakota Tennessee Texas Utah | 3,996.1 141.6 5,252.6 12,849.7 588.7 | 273.7 73.7 228.0 509.1 25.1 | 328.7 0 155.0 0 (^D) | (D) 0 88.5 40.0 0 | 37.5 (^D) 144.3 303.0 (^D) | 1,017.6 (^D) 1,585.5 7,594.0 20.2 | (D) 0 (D) 458.5 0 | 771.1 (^D) 375.2 315.0 0 | 174.3 (^D) 227.7 625.4 24.1 | (D) 0 213.6 505.3 (D) | 85.8 (P) 267.4 330.6 (P) | 558.6 32.1 551.9 477.2 (^D) | 389.1 (^D) 392.7 1,114.6 32.6 | (D) 0 564.2 84.3 (D) | (D) 0 188.2 381.9 (D) |
| Vermont Virginia Washington West Virginia Wisconsin Wyoming | 224.7 4,555.3 1,867.1 2,291.7 3,551.0 | 406.1 0 1,038.2 | 0 (D) 0 (D) 0 (D) | (P) (P) 250.1 (P) 379.1 0 | (P) 173.0 31.9 (P) 262.0 0 | 38.8 2,361.0 134.3 1,435.2 243.5 (^D) | 0 0 (P) (P) 0 0 | (D) 304.8 47.6 (D) 165.5 (D) | (D) 192.5 153.7 84.9 (D) | (P) (P) 71.3 485.6 136.3 0 | 0 33.0 (P) 109.8 166.4 0 | 30.4 295.8 23.8 (P) 579.0 | (P) 282.2 177.2 (P) 236.1 0 | (P) 201.0 (P) 0 (P) 0 | 0 80.3 (P) (P) 221.6 0 |

 $^{^{\}rm D}$ Suppressed to avoid disclosure of data of individual companies.

NOTE.—Administrative and auxiliary establishments are excluded. SIC Standard Industrial Classification

Table 9.—Value Added by Foreign-Owned Manufacturing Establishments as a Percentage of That by All U.S. Manufacturing Establishments, State by Selected Industry, 1990

| | | | | | | | - Induo | | industries | | | | | | |
|-------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|-------------------------------------|------------------------------------------|---------------------------------------|-------------------------------------------------|----------------------------------------|-------------------------------------------------------------|--------------------------------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------------------------|
| State | Total | Food and kindred products | Textile mill products | Paper and al- lied prod- ucts | Printing and publishing | Chemicals and allied products | Petrole- um and coal products | Rubber and miscel- laneous plastics products | Stone, clay, and glass products | Primary metal industries | Fabricat- ed metal products | Industrial machinery and equipment | Electronic and other electric equipment | Transpor- tation equip- ment | Instru- ments and related products |
| SIC code | | 20 | 22 | 26 | 27 | 28 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| Total | 13.4 | 13.8 | 8.6 | 7.9 | 10.1 | 31.9 | 15.1 | 17.6 | 24.8 | 19.3 | 7.9 | 10.3 | 15.6 | 4.9 | 11.9 |
| Alabama Alaska Arizona Arkansas California | 14.1 | (D) | 6.5 | 11.0 | 2.7 | 43.6 | (D) | 52.5 | 39.4 | (D) | (D) | 7.2 | 26.1 | (D) | (D) |
| | 13.1 | (D) | 0 | (P) | 0 | (^D) | 0 | 0 | 0 | 0 | (D) | 0 | 0 | 0 | 0 |
| | 6.3 | 5.9 | 0 | 0 | (D) | 3.9 | 0 | 23.5 | 45.3 | 22.1 | 19.0 | 13.3 | (^D) | (D) | (D) |
| | 9.8 | 7.0 | 0 | 2.2 | (D) | 11.3 | (D) | (^D) | 20.8 | 13.0 | 14.3 | 23.2 | 21.1 | 10.2 | (D) |
| | 12.4 | 13.5 | (^D) | 11.5 | 7.9 | 49.8 | (D) | 8.2 | 27.2 | 23.5 | 7.9 | 10.1 | 21.6 | 3.8 | 12.9 |
| Colorado | 7.4 | 8.1 | 0 | (D) | 9.5 | 41.4 | (D) | (D) | 23.0 | (D) | (D) | 6.3 | 7.0 | 0 | 2.4 |
| | 11.1 | 18.5 | 14.6 | 1.4 | 8.8 | 41.7 | (D) | 3.6 | 25.3 | 26.4 | 5.2 | 7.3 | 5.8 | (^D) | 11.8 |
| | 36.7 | (^D) | 0 | 0 | 0 | 74.4 | (D) | (D) | (P) | (D) | (P) | (^D) | 0 | 0 | (^D) |
| | 1.1 | 0 | 0 | 0 | (^D) | 0 | n.a. | (D) | (P) | 0 | 0 | 0 | 0 | 0 | 0 |
| | 10.4 | 14.6 | 0 | (D) | 4.8 | 8.8 | (D) | 8.0 | 35.2 | 31.5 | 5.8 | 19.6 | 11.1 | 6.3 | 4.4 |
| Georgia | 19.2 | 12.3 | (P) | 10.1 | 8.2 | 34.9 | (D) | 13.0 | 37.4 | 17.4 | 10.9 | 16.0 | 32.8 | 0.2 | 41.1 |
| Hawaii | 17.7 | (^D) | 0 | (P) | (D) | (^D) | (D) | (^D) | (D) | (^D) | 0 | 0 | 0 | (P) | 0 |
| Idaho | 6.9 | 13.4 | 0 | 0 | (D) | 1.2 | 0 | 0 | (D) | 0 | 0 | (^D) | (^D) | 0 | 0 |
| Illinois | 12.3 | 14.2 | 0 | 8.3 | 11.0 | 20.4 | 15.2 | 18.3 | 25.0 | 17.2 | 5.1 | 8.4 | 11.4 | (P) | 20.1 |
| Indiana | 17.1 | 28.7 | (P) | (P) | 16.2 | 13.5 | 0.6 | 22.9 | (D) | 28.3 | 10.9 | 19.7 | 19.7 | 3.5 | 36.8 |
| lowa Kansas Kentucky Louisiana Maine | 9.6 8.8 16.0 18.5 9.4 | 7.2 9.5 27.8 14.7 25.9 | 0 0 (P) (P) 0 | 10.5 (P) (P) (P) (P) 14.8 | 10.0 9.4 6.4 (D) | 10.5 9.1 29.2 19.8 (^D) | (D) (D) (D) (D) (D) | 43.7 (D) (D) 5.1 18.6 | 21.4 30.9 28.7 17.4 (^D) | (D) (D) 57.8 0 (D) | (D) 3.7 13.6 (D) 6.2 | 6.4 6.7 8.4 (^D) 10.5 | (D) (D) 4.8 (D) (D) | (D) (D) (D) (D) (D) | (D) (D) 0 0 |
| Maryland | 14.2 | 19.9 | (P) | (D) | 12.1 | 28.3 | (D) | 20.1 | 45.1 | (D) | 7.1 | 10.6 | 27.3 | (D) | 5.5 |
| | 14.0 | 13.0 | 15.2 | 9.9 | 13.6 | 29.4 | (D) | 9.9 | (^D) | 22.5 | 12.5 | 16.0 | 10.5 | 4.6 | 8.7 |
| | 8.2 | 10.6 | 0 | 4.8 | 8.9 | 17.5 | (D) | 9.4 | 17.8 | 24.7 | 5.8 | 8.4 | 22.1 | 3.3 | 15.2 |
| | 7.0 | 11.4 | (P) | (D) | 6.3 | 9.0 | (D) | 10.6 | 8.0 | (D) | (^D) | 4.8 | 15.0 | (D) | 4.8 |
| | 8.7 | 3.5 | 0 | (D) | (^D) | 35.6 | (D) | 18.1 | 30.6 | 9.6 | 20.6 | (^D) | (^D) | (D) | 44.7 |
| Missouri | 12.0 | 19.3 | (D) | 9.5 | 3.6 | 25.5 | (D) | 7.8 | 25.1 | 36.1 | 9.0 | 9.9 | 8.2 | (P) | 18.1 |
| Montana | 6.5 | (^D) | 0 | 0 | 0 | (D) | (D) | (D) | (P) | (D) | (P) | 0 | 0 | 0 | 0 |
| Nebraska | 12.8 | 13.6 | 0 | 0 | (^D) | 72.3 | (D) | (D) | (P) | (D) | (P) | (^D) | (^D) | (P) | (D) |
| Nevada | 8.4 | 27.9 | 0 | (^D) | 0 | (D) | (D) | (D) | 24.4 | 22.3 | 0 | 0 | 0 | 0 | (D) |
| New Hampshire | 12.4 | 9.7 | (D) | 10.6 | 8.4 | (D) | (D) | 27.2 | 20.5 | (D) | (P) | 24.3 | 10.2 | 0 | 8.3 |
| New Jersey New Mexico New York North Carolina North Dakota | 24.4 8.2 11.1 18.5 (^D) | 25.2 (^D) 17.5 8.8 (^D) | (D) 0 7.0 6.6 0 | 11.5 0 8.1 6.7 0 | 9.4 (P) 16.3 11.6 (P) | 46.7 (^D) 24.5 59.2 0 | 10.4 (D) (D) (D) (D) | 12.6 (^D) 25.7 23.8 0 | 19.2 16.0 19.3 21.0 | 23.8 0 20.7 22.5 0 | 7.7 0 9.6 14.1 0 | 13.2 (^D) 7.5 11.6 0 | 12.5 (^D) 10.6 41.1 0 | 4.6 0 2.8 14.9 (^D) | 22.3 (^D) 3.1 45.7 0 |
| Ohio Oklahoma Oregon Pennsylvania Rhode Island | 12.3 | 16.4 | (P) | 10.0 | 9.4 | 21.6 | (D) | 12.6 | 16.1 | 14.5 | 5.8 | 6.4 | 10.5 | 9.2 | 28.5 |
| | 11.3 | 9.6 | 0 | (D) | 7.7 | 42.7 | (D) | 37.2 | 18.3 | (^D) | 10.3 | 4.4 | (^D) | (D) | 10.7 |
| | 8.1 | 9.3 | (P) | (D) | (P) | 37.5 | (D) | 3.7 | 14.9 | 10.0 | (^D) | 15.9 | 20.2 | (D) | (^D) |
| | 14.8 | 14.1 | 11.2 | 12.2 | 13.5 | 21.0 | (D) | 9.9 | 18.0 | 9.4 | 9.9 | 16.4 | 15.8 | 16.8 | 30.6 |
| | 7.6 | (^D) | (P) | 0 | 13.4 | (^D) | (D) | 16.6 | (^D) | (^D) | 2.5 | 8.1 | 11.3 | 0 | 15.0 |
| South Carolina | 19.0 | 31.2 | 9.1 | (D) | 7.1 | 22.3 | (D) | 52.0 | 23.7 | (D) | 8.8 | 27.0 | 32.6 | (D) | (D) |
| | 8.7 | 17.6 | 0 | 0 | (^D) | (^D) | 0 | (^D) | (^D) | 0 | (^D) | 10.7 | (^D) | 0 | 0 |
| | 17.4 | 6.0 | 18.3 | 5.4 | 7.5 | 31.0 | (D) | 22.4 | 27.4 | 17.8 | 15.2 | 22.6 | 21.7 | 29.3 | 26.2 |
| | 15.4 | 6.2 | 0 | 1.8 | 7.5 | 36.9 | 5.3 | 11.2 | 30.4 | 23.6 | 8.8 | 7.4 | 14.4 | 1.4 | 9.0 |
| | 9.6 | 4.2 | (^D) | 0 | (^D) | 9.1 | 0 | 0 | 14.9 | (D) | (^D) | (^D) | 10.5 | (D) | (D) |
| Vermont Virginia Washington West Virginia Wisconsin Wyoming | 7.0 14.0 7.5 36.1 9.6 (^D) | (D) 10.0 18.2 0 21.3 (D) | 0 (P) (P) 0 (P) n.a. | (D) (D) 13.6 (D) 7.8 n.a. | (D) 8.0 3.0 (D) 10.5 0 | (D) 54.3 8.8 55.9 15.1 (D) | 0 0 (P) (P) 0 | (D) 23.3 12.3 (D) 12.5 (D) | (P) 28.0 29.2 19.1 (P) (P) | (D) (D) 6.1 42.1 11.3 0 | 0 3.5 (P) 30.7 5.3 0 | 15.4 20.3 1.7 (^D) 8.0 0 | (D) 17.3 31.1 (D) 8.0 0 | (D) 6.6 (D) 0 (D) 0 | 0 4.8 (D) (D) 11.4 0 |

 $^{^{\}mathbf{D}}$ Suppressed to avoid disclosure of data of individual companies. n.a. Not applicable.

NOTE.—Administrative and auxiliary establishments are excluded. SIC Standard Industrial Classification

plant scale and capital intensity or whether they can be attributed to foreign ownership per se. Finally, it examines whether differences between the productivity of foreign-owned and U.S.-owned establishments reflect differences in their plant scale, capital intensity, or employee skill levels or whether they can be attributed to foreign ownership per se.

Plant scale

For total manufacturing, average plant scale (measured as value added per establishment) of foreign-owned establishments was much larger than that of U.S.-owned establishments—\$17.3 million, compared with \$3.2 million, or a difference of \$14.1 million.⁸ A statistical decomposition of the difference indicated that 60 percent of it was attributable to a tendency in some industries for the plant scale of foreign-owned establishments to be larger than that of U.S.owned establishments, while only 27 percent was attributable to a tendency for foreign-owned establishments to be concentrated in industries with above-average plant scale.9 (The method used to decompose the difference in plant scale is described in the technical note.)

The importance of the within-industry differences can be seen by examining the distribution of industries on the basis of the relative plant scale of foreign-owned and U.S.-owned establishments. As the following tabulation indicates, the average plant scale of foreign-owned establishments was more than 10 percent larger than that of U.S.-owned establishments in 277 of the 312 industries with 6 or more foreign-owned establishments (hereafter referred to as "the 312 industries"). In 98 of these 277 industries, plant scale of foreign-owned establishments was more than four times as large. Moreover, there were only 20 industries in which the average plant scale of foreign-owned establishments was more

than 10 percent smaller than that of U.S.-owned establishments.¹⁰

| Plant scale of foreign-owned establishments relative to that of U.Sowned establishments | Number of industries |
|---------------------------------------------------------------------------------------------------|----------------------|
| All industries | 312 |
| At least 30 percent smaller | 8 12 |
| Within 10 percent smaller or larger | 15 |
| Within 10 percent smaller or larger Between 10 and 30 percent larger At least 30 percent larger | 12 265 |

Plant scale of foreign-owned establishments may be larger, on average, than that of U.S.owned establishments at least partly because the income and other benefits that normally accrue to large plants may be sought out to offset the inherent disadvantages foreign investors tend to face when investing in the United States and when subsequently operating their U.S. businesses. Foreign investors may be unfamiliar with the language and the general business environment in the United States, and their investments must, at least to some extent, be managed from a distance. Many of the added costs a foreign investor incurs when making a new U.S. investment and subsequently operating a business here tend to be fixed, and foreign investors may tend to concentrate their investments in relatively large establishments as a means of spreading these costs over a larger volume of output. In some cases, such a strategy may also benefit foreign direct investors by simplifying the organizational structure, reducing the number of units that must be managed, and lowering the number of local business environments to which they must become acclimated.

Most industries with direct investment have both large foreign-owned and large U.S.-owned plants. However, in many of these industries, there are substantial numbers of small U.S.-owned plants but relatively few small foreign-owned plants. This pattern can be seen in "motor vehicles and car bodies" manufacturing (SIC 3711), which includes both car and truck manufacturing. In 1990, the average plant scale of foreign-owned establishments in the industry was over 60 percent larger than that of U.S.-owned establishments. Of the 406 plants in the industry, 385 were U.S. owned and 21 were foreign owned. Both groups had a number of large plants: 52 of the U.S.-owned plants and 11

^{8.} Because the number of manufacturing establishments is not shown in the Census Bureau's ASM publications, average plant scale for U.S.-owned establishments was computed using the total value added from the ASM and the number of U.S. manufacturing establishments shown in the Census Bureau's County Business Patterns, 1990: United States (Washington DC: U.S. Government Printing Office, 1992). Because the County Business Patterns and ASM data are closely comparable, use of County Business Patterns establishment counts is unlikely to have significantly affected the findings of the article.

^{9.} The remaining difference was attributable to the interaction of the within-industry differences and industry-mix effects.

In industries with only a few foreign-owned establishments, value added per establishment and the other measures for foreign-owned establishments discussed in this section may be so affected by the special circumstances of individual establishments that they are not representative of foreign-owned establishments generally. Because of this possibility, the decomposition was limited to the 312 four-digit industries with at least 6 foreign-owned establishments. For these industries, value added per establishment was \$17.3 million for foreign-owned establishments and \$3.6 million for U.S.-owned establishments, a difference of \$13.7 million.

^{10.} Across the 312 industries, the mean difference between the foreignowned and U.S.-owned plant scale measures was \$11.0 million. Unlike the differences cited in the text and in footnote 9, which were computed using a method that gave heavier weight to the larger industries, this figure was computed without regard to industry size; a statistical test indicated that it was statistically significant at the 1-percent confidence level.

of the foreign-owned plants had at least 1,000 employees. However, there were many small U.S.-owned plants but few small foreign-owned plants in the industry: Over three-fourths of the U.S.-owned plants, but less than one-fifth of the foreign-owned plants, had fewer than 100 employees.

Capital intensity

For total manufacturing, capital intensity (indirectly measured as the non-employee-compensation share of value added) was higher for foreign-owned establishments than for U.S.-owned establishments—61 percent, compared with 55 percent. Virtually all of this difference was attributable to industry-mix effects; within-industry differences were negligible. 12

Although the capital intensity of foreign-owned establishments was not systematically higher or lower than that of U.S.-owned establishments within specific industries, ¹³ in a large number of industries, as the following tabulation indicates, the capital intensity of foreign-owned establishments differed substantially from that of U.S.-owned establishments. On the one hand, the capital intensity of foreign-owned establishments was more than 10 percent higher than that of U.S.-owned establishments in 98 of the 312 industries. On the other hand, it was more than 10 percent lower in 85 industries.

| Capital intensity of foreign-owned establishments relative to that of U.Sowned establishments | Number of industries |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| All industries | 312 |
| At least 30 percent lower Between 10 and 30 percent lower Within 10 percent lower or higher Between 10 and 30 percent higher At least 30 percent higher | 26 59 129 67 31 |

Compensation per employee

For total manufacturing, compensation per employee of foreign-owned establishments was \$5,300 higher than that of U.S.-owned establishments—\$38,300, compared with \$33,000. About 60 percent of this difference was attributable

to industry-mix effects, and 30 percent to within-industry differences.¹⁴

Although industry-mix effects dominate, with-in-industry differences are nonetheless significant. The positive contribution of these differences can be seen from the following tabulation. It shows that compensation per employee of foreign-owned establishments was more than 10 percent higher than that of U.S.-owned establishments in 131 of the 312 industries, whereas it was more than 10 percent lower in only 28 industries. ¹⁵

| Compensation per employee of foreign-owned establishments relative to that of U.Sowned establishments | Number of industries |
|-------------------------------------------------------------------------------------------------------|-----------------------------|
| All industries | 312 |
| At least 30 percent lower | 3 25 153 107 24 |

Compensation per employee may have been higher for foreign-owned establishments than for other establishments in the same industry because the occupational mix was weighted more heavily toward relatively high-skilled occupations, perhaps reflecting the use of different technologies. In addition, foreign-owned establishments may have paid higher wage rates at a given skill level than U.S.-owned establishments because, for example, they have a greater tendency to be located in high-wage areas.

^{11.} The data needed to measure capital intensity directly are not available.

^{12.} This statement is based on a decomposition similar to that used for plant scale (see technical note). The decomposition was based on data for the 312 industries. For these industries, the capital intensity measures for both foreign-owned and U.S.-owned establishments were almost the same as the corresponding measures for manufacturing as a whole.

^{13.} Across the 312 industries, the mean difference between the foreignowned and U.S.-owned capital-intensity measures was negligible.

^{14.} The remaining difference was attributable to the interaction of the within-industry differences and industry-mix effects. The decomposition was based on data for the 312 industries. For these industries, the difference in compensation per employee was \$4,600, somewhat smaller than the difference for manufacturing as a whole.

In "FDIUS: Establishment Data for 1987," differences between foreignowned and U.S.-owned establishments were examined using payroll per employee, which is a somewhat narrower measure than total employee compensation. (Payroll excludes employee benefits, whereas total employee compensation includes them.) Data on total employee compensation were not available from the 1987 link data.

Within-industry differences were somewhat less important in explaining the overall difference in compensation per employee in the 1990 data than in explaining the overall difference in payroll per employee in the 1987 data. This result appears to largely reflect a narrowing of within-industry differences in payroll per employee between 1987 and 1990. In light of the 1990 data, within-industry differences in benefits per employee appear to be larger than within-industry differences in payroll per employee.

^{15.} Across the $_{312}$ industries, the mean difference between foreign-owned and U.S.-owned establishments' compensation per employee was \$2,500. A statistical test indicated that this difference was significant at the 1-percent confidence level.

^{16.} As noted in footnote 2, BLS has released information on the occupational structure of foreign-owned manufacturing establishments for 1989. Based on this information, BLS concluded that while the distribution of occupations in foreign-owned manufacturing establishments in the United States was little different from that in all U.S. manufacturing establishments at the overall manufacturing level, there were major differences in the distribution of occupations within individual industries, at least at the SIC two-digit level.

Table 10.—Relative Plant Scale and Capital Intensity:
Averages for Industries Grouped by the Wage Rates
of Foreign-Owned Establishments Relative to Those
of U.S.-Owned Establishments, 1990

| | | Perc | ent |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------|----------------------------------------------------|
| Range of relative wage rates (percent) ¹ | Number of industries | Relative plant scale ² | Relative capital intensi- ty ³ |
| All industries | 312 | 376 | 102 |
| At least 30 percent lower Between 10 and 30 percent lower Within 10 percent lower or higher Between 10 and 30 percent higher At least 30 percent higher | 2 41 156 88 25 | 118 226 336 448 634 | 147 95 102 104 103 |
| Addendum: Coefficient of correlation between the measure in the column and the relative wage rate ratio for the 312 industries | | .336* | .0348 |

^{*}Statistically significant at the 1-percent confidence level.

Production-worker wage rates

In examining differences in employee compensation between foreign-owned and U.S.-owned establishments, differences in occupational mix can be partly controlled for by comparing the wages of production workers only. Restricting the comparison in this way eliminates variations in the ratio of production workers to other workers as a source of differences in rates of pay; in addition, production workers probably constitute a more homogeneous group than other workers, who may represent a wide variety of occupational groups (for example, sales and clerical as well as professional and managerial employees).

For total manufacturing, the average hourly wage rate (excluding benefits) of production workers was \$12.57 for foreign-owned establishments and \$11.04 for U.S.-owned establishments, a difference of \$1.53. About 70 percent of this difference was attributable to industry-

Table 11.—Production Worker Hourly Wage Rates for Foreign-Owned and U.S.-Owned Establishments, Selected Industries in Which Wage Rates of Foreign-Owned Establishments Were Relatively Low or High, 1990

| SIC | | Wages pe | er hour (dollars) | Relative wage | Addendum: | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| code | Industry | Foreign-owned establishments | U.Sowned establishments | rate (percent) 1 | Relative plant scale (percent) ² | |
| 3647 3694 3721 2711 3714 3624 3592 2431 3711 3661 3663 2095 2631 2296 3255 3531 3951 | Industries in which foreign-owned establishments had relatively low hourly wage rates: Vehicular lighting equipment Engine electrical equipment Aircraft Newspapers Motor vehicle parts and accessories Carbon and graphite products Carburetors, pistons, rings, valves Millwork Motor vehicles and car bodies Telephone and telegraph apparatus Radio and television communications equipment Roasted coffee Paperboard mills Tire cord and fabrics Clay refractories Construction machinery Pens and mechanical pencils Industries in which foreign-owned establishments had relatively high | 10.38 8.30 12.07 8.93 11.60 10.53 11.56 7.96 16.74 12.07 9.94 10.76 14.03 8.43 10.70 12.88 8.32 | 15.85 11.86 17.17 12.52 16.14 14.27 14.83 9.92 20.84 14.93 12.10 13.01 16.88 10.12 12.77 15.26 9.86 | 65 70 70 71 72 74 78 80 80 81 82 83 83 83 84 84 | 109 127 26 96 113 170 385 161 297 175 162 76 39 225 219 222 | |
| 3532 2064 3251 3082 2851 3398 2045 2836 2325 3651 2833 3087 2085 3295 3295 2816 3291 3645 3291 3656 3291 3656 3658 | hourly wage rates: Mining machinery Candy and other confectionery products Brick and structural clay tile Unsupported plastics profile shapes Paints and allied products Metal heat treating Prepared flour mixes and doughs Biological products except diagnostic Men's and boys' trousers and slacks Household audio and video equipment Medicinals and botanicals Custom compound purchased resins Distilled and blended liquors Minerals, ground or treated Fasteners, buttons, needles, and pins Inorganic pigments Abrasive products Residential lighting fixtures Scales and balances, except laboratory Plastics plumbing fixtures | 13.05 12.00 10.40 11.87 14.35 13.73 13.48 10.21 8.27 10.40 21.43 12.24 15.89 9.63 17.01 14.84 10.49 11.25 | 10.39 9.54 8.22 9.36 11.27 10.75 10.55 7.98 6.39 7.97 16.41 9.31 11.92 10.16 7.15 12.54 10.70 7.51 7.87 | 126 126 127 127 127 128 128 128 130 130 131 131 133 134 135 136 139 140 | 360 357 165 439 416 431 503 1,026 120 1,474 98 187 187 324 831 703 817 606 686 1,032 | |

^{1.} Hourly wage rate for foreign-owned establishments divided by hourly wage rate for U.S.-owned establishments times 100.

Relative wage rates are foreign-owned establishments' wage rates divided by U.S.-owned establishments' wage rates times 100.

^{2.} Relative plant scale is foreign-owned establishments' value added per establishment divided by the corresponding measure for U.S.-owned establishments times 100. This column shows the unweighted averages of the relative scale measure for industries in the groups defined by the relative wage rates shown in the stub.

^{3.} Relative capital intensity is foreign-owned establishments' non-employee-compensation share of value added divided by the corresponding measure for U.S.-owned establishments times 100. This column shows the unweighted averages of the relative capital intensity measure for industries in the groups defined by the relative wage rates shown in the situs.

Value added per establishment for foreign-owned establishments divided by value added per establishment for U.S.-owned establishments times 100.

NOTE.—The list of industries in this table excludes industries for which the data for foreignowned establishments are suppressed. It also excludes residual industries, which cover establishments not elsewhere classified.

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mix effects, and 20 percent was attributable to within-industry differences.¹⁷

Although industry-mix effects dominate, the first two columns of table 10 show that within-industry differences are nonetheless significant. Hourly wages of production workers were more than 10 percent higher in foreign-owned establishments than in U.S.-owned establishments in 113 of the 312 industries, whereas they were at least 10 percent lower in only 43 industries. 18

Data for selected industries in which the wage rates of foreign-owned establishments differed substantially from those of U.S.-owned establishments are shown in table 11. Five of the industries in which wage rates of foreign-owned establishments were substantially lower than those of U.S.-owned establishments are motor-vehicle related: Vehicular lighting equipment; engine electrical equipment; motor vehicle parts and accessories; carburetors, pistons, rings, and valves; and motor vehicles and car bodies. The lower wage rates in these industries may have resulted because many of the foreign-owned establishments were established recently—within the last decade—and thus have a workforce with less accumulated job tenure than is typical of U.S.owned establishments. They may also reflect lower rates of unionization among foreign-owned establishments and differences in plant location.

Plant scale.—The within-industry differences in wage rates partly reflect differences in plant scale. Across the 312 industries, the ratio of the wage rates of foreign-owned establishments to those of U.S.-owned establishments is significantly correlated with the ratio of their average plant scales. In table 10, the relative plant-scale ratio for foreign- and U.S.-owned establishments increases steadily as the ratio of their wage rates increases: The average ratio is 118 percent for the 2 industries in which the wage rates are at least 30 percent lower for foreign-owned establishments than for U.S.-owned establishments, and it is 634 percent for the 25 industries in which the wage rates are at least 30 percent higher for foreign-owned establishments. This pattern is consistent with other research that shows that

production-worker wages tend to be higher at larger plants. 19

This pattern is further illustrated in table 11. Average plant scale of foreign-owned establishments was more than three times higher than that of U.S.-owned establishments in 15 of the 20 industries in which wage rates of foreign-owned establishments were substantially higher than those of U.S.-owned establishments. In contrast, it was more than three times that of U.S.-owned establishments in only 1 of the 17 industries in which wage rates of foreign-owned establishments were substantially lower than those of U.S.-owned establishments; in 4 of the 17 industries, average plant scale of foreign-owned establishments was smaller than that of U.S.-owned establishments.

Capital intensity.—Differences between the hourly wage rates of foreign-owned and U.S.-owned establishments were not associated with differences in their capital intensity. In table 10, no discernable relationship between the relative wage and capital-intensity measures is evident. Furthermore, a statistical test indicated that the relative wage and capital-intensity measures were not significantly correlated.

Effect of foreign-ownership.—Differences between the hourly wage rates of foreign-owned and U.S.-owned establishments do not appear to be the result of foreign ownership per se. A regression that controlled for the effects of plant scale and capital intensity on wage rates and that incorporated a variable for foreign ownership indicated that there is no statistically significant relationship between foreign ownership and wage rates.²⁰

$$W = 10.42 + 0.07SC + 0.59CI - 0.09FDMY \\ (11.35) \quad (0.90) \quad (-0.43)$$

$$R^2 = 0.21,$$

^{17.} The remaining difference was attributable to the interaction of the within-industry differences and industry-mix effects. The decomposition was based on data for the 312 industries. For these industries, the hourly wage rate for foreign-owned establishments was \$1.26 higher than that for U.S.-owned establishments—\$12.69, compared with \$11.43.

^{18.} Across the \mathfrak{z}_{12} industries, the mean difference between foreign-owned and U.S.-owned establishments' hourly wage rates was $\mathfrak{s}_{0.63}$. A statistical test indicated that this difference was significant at the 1-percent confidence level.

^{19.} See, for example, Steve J. Davis and John Haltiwanger, "Wage Dispersion Between and Within U.S. Manufacturing Plants, 1963–1986," *Brookings Papers on Economic Activity*, Special Issue (1991): 115–80.

^{20.} A linear regression equation was estimated in which there were 624 observations (consisting of separate observations for foreign-owned and U.S.-owned establishments for each of the $_{312}$ industries). This estimation yielded the following:

where W is hourly wages, SC is plant scale, CI is capital intensity, and FDMY is a dummy variable for foreign ownership. The t-statistics for the independent variables, which appear in parentheses, indicate that the coefficient of the scale variable was significant at the 1-percent confidence level and that the coefficients of both the capital intensity variable and the foreign-ownership dummy variable were insignificant.

Labor productivity

For total manufacturing, labor productivity (measured as value added per production-worker hour) of foreign-owned establishments was significantly higher than that of U.S.-owned establishments—\$74 per hour, compared with \$52 per hour. About 70 percent of the difference was attributable to industry-mix effects, and 20 percent to within-industry differences.

Examination of the distribution of industries on the basis of the relative productivity of foreign- and U.S.-owned establishments confirms that, although industry-mix effects dominate, within-industry differences are nonetheless im-

Table 12.—Relative Plant Scale, Capital Intensity, and Employee Skill Level: Averages for Industries Grouped by the Productivity of Foreign-Owned Establishments Relative to That of U.S.-Owned Establishments, 1990

| | | Percent | | | | | | |
|-------------------------------------------------------------------|----------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------------|--|--|--|--|
| At least 30 percent lower | Number of industries | Relative plant scale ² | Relative capital intensi- ty 3 | Relative employ- ee skill level ⁴ | | | | |
| All industries | 312 | 376 | 102 | 109 | | | | |
| At least 30 percent lower | 18 52 89 61 92 | 136 208 288 373 604 | 58 85 96 108 121 | 103 98 106 111 118 | | | | |
| the measure in the column and the relative productivity ratio for | | .50* | .64* | .39* | | | | |

^{*} Statistically significant at the 1-percent confidence level.

portant. In a significant number of industries, the productivity of foreign-owned establishments was higher than that of U.S.-owned establishments: It was more than 10 percent higher in 153 of the 312 industries (table 12). In considerably fewer industries, the productivity of foreign-owned establishments was relatively low: It was at least 10 percent lower in only 70 industries. ²³ In 89 industries, foreign-owned establishments' productivity was roughly equal to (within 10 percent of) that of U.S.-owned establishments.

Studies of productivity frequently indicate that plant scale, capital intensity, and employee skill level strongly influence productivity. The following discussion examines the extent to which these conventional factors explain the differences between the productivity of foreign-owned and U.S.-owned establishments.

Plant scale.—Differences between the productivity of foreign-owned and U.S.-owned establishments were highly correlated across industries with differences in plant scale (table 12). This pattern can be seen by comparing the industries in which foreign-owned establishments' productivity was relatively low with the industries in which it was relatively high. In the 18 "lower productivity" industries, the average plant scale of foreign-owned establishments was only about 36 percent larger than that of U.S.-owned es-In contrast, in the 92 "higher tablishments. productivity" industries, the average plant scale of foreign-owned establishments was more than six times that of U.S.-owned establishments.

This pattern is further illustrated in table 13, which shows selected lower and higher productivity industries. In 7 of the 11 lower productivity industries, the average plant scale of foreignowned establishments was smaller than that of U.S.-owned establishments. In contrast, in all but 2 of the 23 higher productivity industries, the average plant scale of foreign-owned establishments was at least twice as large as that of U.S.-owned establishments.

Capital intensity.—As discussed earlier, even though the capital intensity of foreign-owned establishments was not systematically higher or lower than that of U.S.-owned establishments within individual industries, the differences in the capital intensity of the two groups of establishments were sizable in a large number

^{21.} Productivity can be measured in a variety of ways; the measure used here—value added per production-worker hour—is a commonly used measure of labor productivity and can be easily calculated from the data. Studies of productivity sometimes use total output (shipments plus inventory change) instead of value added in the numerator. However, when total output is used as a measure of production, the inputs to which output is related typically include not only labor employed within the establishment but also capital and the inputs that the establishment purchases from others (for example, materials or business services); data on some of these inputs are not available from the ASM. Furthermore, in attempting to determine whether foreignowned establishments differ from U.S.-owned establishments, value added may be the preferred measure because it reflects only the production by the establishments themselves, whereas total output reflects, in addition to the establishments' own production, the value of inputs purchased from others.

^{22.} The remaining difference was attributable to the interaction of the industry-mix effects and within-industry differences. The decomposition was performed for the $_{312}$ industries. For these industries, value added per production-worker hour was $_{575}$ for foreign-owned establishments and $_{555}$ for U.S.-owned establishments.

Relative productivity is foreign-owned establishments' value added per production worker hour divided by the corresponding measure for U.S.-owned establishments times 100.
 Relative plant scale is foreign-owned establishments' value added per establishment

^{2.} Relative plant scale is foreign-owned establishments value added per establishment divided by the corresponding measure for U.S.-owned establishments times 100. This column shows the unweighted averages of the relative scale measure for industries in the groups defined by the relative productivity measure shown in the stub.

^{3.} Relative capital intensity is foreign-owned establishments' non-employee-compensation share of value added divided by the corresponding measure for U.S.-owned establishments times 100. This column shows the unweighted averages of the relative capital intensity measure for industries in the groups defined by the relative productivity measure shown in the stub.

^{4.} Relative employee skill level is foreign-owned establishments' compensation per employee divided by the corresponding measure for U.S.-owned establishments times 100. This column shows the unweighted averages of the relative employee skill level measure for industries in the groups defined by the relative productivity measure shown in the stub.

^{23.} Across the 312 industries, the mean difference between the foreignowned and U.S.-owned productivity measures was \$8.19 per hour. A statistical test indicated that this difference was significant at the 1-percent confidence level.

of industries. As table 12 indicates, these differences are highly correlated with differences in productivity. Like the case of plant scale, as the productivity of foreign-owned establishments increases in relation to that of U.S.-owned establishments, the relative capital intensity of foreign-owned establishments also increases. The correlation between capital intensity and productivity reflects the tendency for additional capital to allow increased production when combined with a given amount of labor.

The correlation between differences in productivity and differences in capital intensity of foreign-owned and U.S.-owned establishments is particularly evident when the capital intensities of the two groups of establishments in lower and higher productivity industries are compared. In the lower productivity industries, the average capital intensity of foreign-owned establishments was only 58 percent of that of U.S.-owned

establishments. In contrast, in the higher productivity industries, the average capital intensity of foreign-owned establishments exceeded that of U.S.-owned establishments by 21 percent. The data shown in table 13 for selected lower and higher productivity industries further illustrate this pattern. In all of the lower productivity industries, foreign-owned establishments were less capital intensive than U.S.-owned establishments, whereas in all but one of the higher productivity industries, foreign-owned establishments were more capital intensive.

Employee skill level.—Differences in productivity of foreign-owned and U.S.-owned establishments were correlated with differences in the skill level of their employees (measured as compensation per employee); however, the correlation was not as high as the correlation for plant scale and

Table 13.—Productivity, Plant Scale, Capital Intensity, and Employee Skill Level of Foreign-Owned and U.S.-Owned Establishments, Selected Industries in Which the Productivity of Foreign-Owned Establishments Was Relatively Low or High, 1990

| | | Fo | Foreign-owned establishments | | | L | J.Sowned | establishmen | ts | Foreign-owned establishments relative to U.Sowned establishments (percent) | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| SIC | Industry | Productivi- ty (dollars) ¹ | Plant scale (millions of dollars) ² | Capital intensity (percent) 3 | Employee skill level (dollars) ⁴ | Productivi- ty (dollars) ¹ | Plant scale (millions of dollars) ² | Capital intensity (percent) 3 | Employee skill level (dollars) ⁴ | Produc- tivity | Plant scale | Capital intensity | Employ- ee skill level |
| 2296 3721 3844 2911 3295 2833 3724 3692 3711 3643 3524 | Industries in which foreign-owned establishments had relatively low productivity: Tire cord and fabrics Aircraft X-ray apparatus and tubes Petroleum refining Minerals, ground or treated Medicinals and botanicals Aircraft engines and engine parts Primary batteries, dry and wet Motor vehicles and car bodies Current-carrying wiring devices Lawn and garden equipment | 20.1 30.8 56.3 123.8 37.8 105.6 43.7 28.8 62.0 29.1 43.8 | 13.4 30.5 15.6 61.0 6.6 10.4 10.9 7.2 151.6 10.8 48.6 | 28 12 36 67 28 61 33 31 52 31 65 | 23,786 43,176 45,010 56,727 49,584 48,543 41,474 26,222 47,037 30,621 24,195 | 66.2 76.8 119.8 248.2 75.0 200.4 82.7 51.4 104.3 43.7 63.7 | 34.3 115.6 18.7 69.5 2.0 10.6 27.9 9.8 94.3 6.2 9.7 | 73 31 67 85 75 81 50 61 66 53 | 28,535 48,834 44,245 55,053 26,492 46,583 47,121 30,728 60,373 28,840 29,451 | 30 40 47 50 53 53 56 67 69 | 39 26 83 88 324 98 39 73 161 173 502 | 38 41 53 79 37 76 66 52 80 60 96 | 83 88 102 103 187 104 88 85 78 106 82 |
| 3555 2033 3291 3563 2096 3594 3567 2035 2041 2834 3873 3398 2034 2241 2836 2032 2045 2731 3088 | Industries in which foreign-owned establishments had relatively high productivity: Printing trades machinery Canned fruits and vegetables Abrasive products Air and gas compressors Potato chips and similar snacks Fluid power pumps and motors Industrial furnaces and ovens Pickles, sauces, and salad dressings Flour and other grain mill products Pharmaceutical preparations Watches, clocks, watchcases, and parts Metal heat treating Dehydrated fruits, vegetables, soups Narrow fabric mills Biological products except diagnostic Canned specialties Prepared flour mixes and doughs Book publishing Plastics plumbing fixtures | 92.2 82.7 85.0 104.0 114.0 86.9 66.8 163.0 107.6 417.4 75.5 74.4 42.0 129.2 161.2 144.0 689.4 88.6 | 23.8 35.5 28.0 17.0 32.1 15.1 4.4 35.7 17.8 153.6 7.8 33.5 12.9 23.3 30.5 37.0 34.4 22.8 | 68 79 58 55 56 46 46 78 78 69 54 78 68 68 86 86 | 34,815 27,591 48,695 45,572 36,432 40,044 35,742 42,475 54,215 30,140 40,478 30,788 25,025 37,209 31,089 36,583 36,563 | 59.5 52.3 53.1 62.9 66.0 49.4 37.0 89.7 57.5 220.7 38.9 42.0 20.9 64.3 80.1 68.5 291.4 | 3.3 9.1 3.4 7.3 8.0 5.6 2.4 7.4 3.0 33.7 2.8 1.8 6.2 2.3 2.3 2.3 15.7 7.4 3.8 | 36 70 54 44 69 37 30 79 62 80 55 46 59 42 55 77 68 73 | 41,234 26,491 34,351 39,662 26,683 39,663 32,519 28,091 35,627 43,629 27,299 21,377 36,677 30,766 31,615 37,424 23,809 | 155 158 160 165 173 176 180 182 187 194 196 200 201 201 201 201 201 210 237 252 | 722 389 817 234 400 269 181 483 585 456 625 431 542 562 1,026 194 503 912 | 188 113 107 125 110 149 153 109 123 98 125 118 132 161 120 112 123 110 | 84 104 142 1155 137 101 121 127 119 124 104 122 113 117 101 101 116 98 |
| | Book publishing Plastics plumbing fixtures Laboratory apparatus and furniture Railroad equipment Inorganic pigments Logging | | | | | | | | | | | | |

Value added per production worker hour.

^{2.} Value added per establishment.

^{3.} Non-employee-compensation share of value added.

^{4.} Compensation per employee

NOTE.—The industries with relatively low productivity for foreign-owned establishments shown in this table are the industries in which the productivity of foreign-owned establishments was at least 30 percent lower than that

of U.S.-owned establishments and that (1) had at least six foreign-owned establishments, (2) were not suppressed for foreign-owned establishments, and (3) were not residual industries (see "Technical Note" in the article). The industries with relatively high productivity for foreign-owned establishments shown in this table are the industries in which the productivity of foreign-owned establishments was a least 50 percent higher than that of U.S.-owned establishments and that (1) had at least six foreign-owned establishments, (2) were not suppressed for foreign-owned establishments, and (3) were not residual industries (see "Technical Note").

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for capital intensity.²⁴ In the lower productivity industries, the employee skill level of foreignowned and U.S.-owned establishments was about the same, whereas in the higher productivity industries, the employee skill level of foreignowned establishments was 18 percent higher than that of U.S.-owned establishments. Table 13 further illustrates the relationship between productivity and employee skill level. In 10 of the 11 lower productivity industries, the employee skill level of foreign-owned establishments was roughly equal to, or lower than, that of U.S.owned establishments. In contrast, in 15 of the 23 higher productivity industries, the employee skill level of foreign-owned establishments was substantially higher than that of U.S.-owned establishments.

Combined effects.—The prior discussion showed that, when taken separately, differences in the plant scale, capital intensity, and employee skill level of foreign-owned and U.S.-owned establishments are each associated with differences in productivity. To determine whether a particular factor still independently contributes to the differences in productivity once the influence of each of the other factors is taken into account, the measures of relative plant scale, capital intensity, and employee skill level were included as independent variables in a multiple regression equation in which the relative productivity measure was the dependent variable. In addition to testing for the independent contribution of each of the three factors, the regression also provides an indication of their combined importance. The results confirmed that, even after allowing for the influence of the other measures, the relative plant scale, capital intensity, and employee skill level measures were each significantly correlated with the differences in productivity.²⁵ Furthermore, over 60 percent of the variation in the relative

$$RPR = -.89 + .02RSC + .01RCI + .01RES$$

(4.90) (15.67) (9.10)
 $R^2 = .61,$
 $F = 163.7$

where *RPR*, *RSC*, *RCI*, and *RES* are the measures of relative productivity, plant scale, capital intensity, and employee skill level, respectively. The t-statistics for the independent variables, which appear in parentheses, indicate that the coefficients for all of the variables were statistically significant at the 1-percent confidence level. The coefficients of correlation between the independent variables were as follows: Plant scale and capital intensity, 0.32; plant scale and employee skill level, 0.33; capital intensity and employee skill level, 0.04.

productivity measure could be accounted for by the combined variation in these three factors.

Effect of foreign ownership.—One additional statistical check was made to test directly whether foreign ownership per se was associated with higher productivity levels. This check involved estimating a multiple regression equation that controlled for the effects on productivity levels of plant scale, capital intensity, and employee skill level and that included a variable for foreign ownership. The test indicated that there was no correlation between productivity and for-eign ownership per se.²⁶ Thus, any influence of foreign ownership on productivity appears to be mainly indirect: The plant scale, capital intensity, and employee skill level of foreignowned establishments differ from those of U.S.owned establishments, and it is largely because of these differences that the productivity for foreign-owned establishments is higher.

Technical Note

This note describes the statistical decomposition method used in the article and discusses how the findings of the article are affected by the estimation of data for foreign-owned establishments and by the inclusion in the SIC of residual industries, which cover establishments not elsewhere classified.

Statistical decomposition

The differences between foreign-owned and U.S.-owned establishments in average plant scale, capital intensity, compensation per employee, wages per production-worker hour, and productivity were decomposed statistically into industry-mix,

$$PR = -133.81 + .19SC + 219.10CI + .0024ES - .15FDMY$$
 $(1.83) (19.95) (10.99) (-.04)$
 $R^2 = .54,$
 $F = 188.41$

where PR, SC, CI, and ES are the measures of productivity, plant scale, capital intensity, and employee skill level, respectively, and FDMY is a dummy variable for foreign ownership. The t-statistics for the independent variables, which are shown in parentheses, indicate that the coefficients of both the capital intensity and employee skill level variables were significant at the 1-percent confidence level, that the coefficient of the scale variable was significant at the 10-percent confidence level, and that the coefficient of the foreign-ownership dummy was insignificant. To rule out the possibility that the regression results were influenced by errors in the measurement of capital intensity through the use of a proxy variable, tests controlling for this potential errors-in-variables problem using "instrumental variables" were conducted; the results of the tests suggested that such errors probably were not a problem.

^{24.} The compensation-per-employee measure of employee skill level (sometimes termed "human capital intensity") reflects both occupational structure and the accumulation of skills within occupations.

 $^{{\}tt 25}.$ Using the ${\tt 312}$ industries as the observations, the estimation yielded the following:

^{26.} A linear regression was estimated in which there were 624 observations (there were separate observations for foreign-owned and U.S.-owned establishments for each of the 312 industries). This estimation yielded the following:

within-industry, and interaction effects. The decomposition for a given measure begins with expressing the measure as a weighted average of values for individual industries. For plant scale, for example, average plant scale (value added per establishment) may be expressed as a weighted average of the average plant scales in individual industries, with the weight for any given industry being the industry's share in the total number of establishments. Thus, the average plant scale for U.S.-owned establishments can be expressed as

$$p = \sum_{i=1}^{312} s_i p_i,$$

and the average plant scale of foreign-owned establishments can be expressed as

$$p^{a} = \sum_{i=1}^{312} s_{i}^{a} p_{i}^{a},$$

where p is average plant scale (value added per establishment) for the 312 industries (see footnote 9), p_i is plant scale for industry i, and s_i is the share of the ith industry in the total number of establishments for the 312 industries. (Variables with the superscript a denote data for foreign-owned establishments, and variables without a superscript denote data for U.S.-owned establishments.) The difference between average plant scales of the two groups of establishments can then be decomposed algebraically as

$$p^{a} - p = \sum_{i=1}^{312} p_{i}(s_{i}^{a} - s_{i}) + \sum_{i=1}^{312} s_{i}(p_{i}^{a} - p_{i}) + \sum_{i=1}^{312} (p_{i}^{a} - p_{i})(s_{i}^{a} - s_{i}).$$

The first term on the right side of the equation measures the effects of differences in industry mix; it is the difference in plant scale that would have resulted if, in each industry, plant scale were the same for foreign-owned establishments as for U.S.-owned establishments but if the differences in the distribution of the establishments by industry were as observed. The second term on the right side measures the effects of within-industry differences in plant scale; it is the difference in plant scale that would have resulted if foreignowned establishments had the same distribution by industry as U.S.-owned establishments but if the differences in plant scale that existed in each industry were as observed. The third term reflects the interaction between these two effects.

A decomposition similar to this one was carried out for each of the other measures discussed in the article.

Estimation of nonsample establishments

Data were estimated for foreign-owned establishments that were not selected for the 1990 ASM, which covered only a sample of all manufacturing establishments. For manufacturing as a whole, 17 percent of the shipments of foreign-owned establishments was estimated in 1990. for the nonsample foreign-owned establishments were estimated using industry-average relationships between employment and payroll, on the one hand, and the other items covered by the ASM, on the other. (Employment and payroll for all foreign-owned establishments were obtained from the Census Bureau's Standard Statistical Establishment List.) Because industry-average relationships were used as the basis for estimation, actual differences between foreign-owned and U.S.-owned establishments may not be the same as those observed in the data; in particular, both the total and the within-industry differences may be larger. To check this possibility, the productivity of foreign-owned and U.S.-owned establishments was compared using data only for those foreign-owned establishments that were reported in the ASM. This comparison indicated that both the total productivity difference and the within-industry difference are larger when only these data are used than when both the reported and estimated data are used. However, the significance of this result is difficult to assess because the foreign-owned establishments included in the ASM sample were much larger, on average, than the nonsample establishments, and, as discussed

Data Availability

This article presents summary data for foreignowned U.S. manufacturing establishments. Publications presenting more detailed data for 1989 and 1990 are available from the Superintendent of Documents (see inside back cover for order information). The data are also available on diskettes at a cost of \$20 each. For the 1989 data, specify BEA Accession Number 50-93-40-789, and for the 1990 data, Accession Number 50-93-40-790. Send your order, along with a check or money order payable to "Bureau of Economic Analysis," to Public Information Office Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. To place an order using MasterCard or VISA, call (202) 606-9827. For further information about the link project, call (202) 606-9893.

in the previous section, productivity tends to be higher in larger establishments.

Residual industries

The sic includes some three- and four-digit industries that cover establishments not elsewhere classified. (An sic code with the digit "9" appearing as the third or fourth digit usually designates such an industry.) These residual industries usually do not consist of homogeneous activity groups. For example, sic 3699 ("Electrical machinery, equipment, and supplies, not elsewhere classified") includes, among other things, establishments that manufacture electric Christmas tree lights and establishments that manufacture particle accelerators. Because of this heterogeneity, the activities of foreign-owned and U.S.-owned establishments that are classified in such industries may differ significantly. These differences could, in turn, cause the withinindustry differences that were observed in the data to be larger than if comparisons had been based only on industries in which activities were more homogeneous. To determine whether this was the case, the residual industries were excluded from the data, and the comparisons of the hourly wage rate and the productivity of foreign-owned and U.S.-owned establishments were repeated. Two different checks were made: In the first, only the 15 three-digit residual industries were excluded; in the second, both the threeand four-digit residual industries (a total of 53 industries) were excluded. In both the hourly wage rate and the productivity comparisons, excluding the residual industries had little effect on the results. Specifically, both the overall differences between foreign-owned and U.S.-owned establishments and the relative importance of the industry-mix effects and within-industry differences were nearly the same as those reported in the article. In addition, the distributions of foreign-owned and U.S.-owned establishments in terms of relative hourly wage rates and productivity were little changed from those discussed in the article.

Table 14 follows.

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990

| | by Detailed industry, | | | | | 1990 | | | | | | | |
|--------------|------------------------------------------------------------------------------|------------------------|-------------------------------|--------------------------------|----------------------------------|-----------------------------------------|----------------------------------|-------------------------------------------------------------------------|---------------------------------------|----------------------------------|--|--|--|
| | | For | eign-owned establis | hments | | All U.S. establishmen | ts | Foreign-owned establishments as a percentage of all U.S. establishments | | | | | |
| SIC | In director. | | Thousands | s of dollars | | Thousands | of dollars | percentage | | ibiisiirierits | | | |
| code | Industry | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | Value added by manufac- ture | Value of shipments | | | |
| | Manufacturing ³ | 2,004,235 | 177,360,745 | 417,539,353 | 18,840,300 | 1,326,361,700 | 2,873,501,600 | 10.6 | 13.4 | 14.5 | | | |
| 20 | Food and kindred products | 159,386 | 19,501,177 | 46,842,783 | 1,469,900 | 140,972,800 | 384,009,000 | 10.8 | 13.8 | 12.2 | | | |
| 21 22 | Tobacco products Textile mill products | H 47,363 | (D) 2,283,123 | 5,693,627 | 40,900 632,500 | 22,561,300 26,541,600 | 29,922,400 65,951,400 | (^D) | (^D) 8.6 | (D) 8.6 | | | |
| 23 24 | Apparel and other textile products | 23,085 | 850,240 | 1,727,481 | 992,900 682,900 | 33,034,000 28,597,200 | 64,413,600 | 2.3 2.5 | 2.6 2.9 | 2.7 | | | |
| 25 | Lumber and wood products | 17,043 J | 842,486 (^D) | 2,304,003 (^D) | 499,200 | 21,644,700 | 74,287,200 41,682,000 | (D) 7.7 | (D) | (D) 8.7 | | | |
| 26 27 | Paper and allied products Printing and publishing | 48,644 103,983 | 4,709,223 10,408,807 | 11,395,189 16,499,934 | 628,100 1,538,100 | 59,823,300 103,179,000 | 131,444,600 157,059,500 | 7.7 6.8 | 7.9 10.1 | 8.7 10.5 | | | |
| 28 29 | Chemicals and allied products Petroleum and coal products | 242,392 25,638 | 48,835,701 4,106,797 | 87,678,890 46,372,551 | 853,300 111,900 | 153,032,400 27,214,100 | 288,183,700 172,588,600 | 28.4 22.9 | 31.9 15.1 | 30.4 26.9 | | | |
| 30 | Rubber and miscellaneous plastics products | 120,951 | 8,757,926 | 17,790,551 | 870,100 | 49,889,000 | 101,398,200 | 13.9 | 17.6 | 17.5 | | | |
| 31 32 | Leather and leather products | 6,362 105,578 | 287,251 8,450,211 | 608,138 16,407,454 | 117,400 509,100 | 4,586,600 34,140,200 | 9,887,300 63,468,000 | 5.4 20.7 | 6.3 24.8 | 6.2 25.9 | | | |
| 33 34 | Primary metal industries | 119,087 93,300 | 10,297,630 6,350,246 | 31,902,909 13,973,579 | 711,900 1,438,700 | 53,366,600 79,951,900 | 146,052,000 163,052,800 | 16.7 6.5 | 19.3 7.9 | 21.8 8.6 | | | |
| 35 | Industrial machinery and equipment | 191,440 | 13,561,697 | 31,010,583 | 1,876,700 | 132,165,800 | 256,344,700 | 10.2 | 10.3 | 12.1 | | | |
| 36 37 | Electronic and other electric equipment | 228,237 104,147 | 16,703,246 7,170,588 | 34,601,773 28,834,909 | 1,497,400 1,773,700 | 106,983,900 146,916,300 | 194,847,900 367,926,700 | 15.2 5.9 | 15.6 4.9 | 17.8 7.8 | | | |
| 38 39 | Instruments and related products | 121,520 26,087 | 9,722,110 1,929,276 | 15,840,686 3,553,235 | 948,600 386,300 | 81,665,600 20,095,600 | 123,776,700 37,205,200 | 12.8 6.8 | 11.9 9.6 | 12.8 9.6 | | | |
| | Administrative and auxiliary | 200,064 | n.a. | n.a. | 1,260,900 | n.a. | n.a. | 15.9 | n.a. | n.a. | | | |
| 20 201 | Food and kindred products Meat products | 159,386 16,050 | 19,501,177 642,258 | 46,842,783 2,911,450 | 1,469,900 376,900 | 140,972,800 18,434,500 | 384,009,000 90,776,500 | 10.8 4.3 | 13.8 3.5 | 12.2 3.2 | | | |
| 2011 2013 | Meat packing plants | 3,864 2,968 | 172,550 199,018 | 1,124,837 845,454 | 118,400 81,700 | 6,666,500 5,315,700 | 51,069,200 18,779,700 | 3.3 3.6 | 2.6 3.7 | 2.2 4.5 | | | |
| 2015 | Poultry slaughtering and processing | 9,218 | 270,690 | 941,159 | 176,800 | 6,452,300 | 20,927,600 | 5.2 | 4.2 | 4.5 | | | |
| 202 2021 | Dairy products Creamery butter | 18,410 B | 2,121,659 (^D) | 6,845,546 (^D) | 139,000 1,600 | 13,233,700 207,500 | 50,962,400 1,307,500 | 13.2 (^D) | 16.0 (^D) | 13.4 (^D) 11.7 | | | |
| 2022 2023 | Cheese, natural and processed Dry, condensed, evaporated products | 4,804 1,420 | 390,614 468,861 | 1,886,501 908,179 | 34,900 12,100 | 2,850,600 2,670,200 | 16,155,800 6,135,300 | 13.8 11.7 | 13.7 17.6 | 14.8 | | | |
| 2024 2026 | lcé cream and frozen desserts | 8,724 | (D) 823,911 | (D) 3,183,337 | 20,700 69,600 | 1,725,500 5,779,900 | 4,660,200 22,703,600 | (^D) 12.5 | (^D) 14.3 | (^D) 14.0 | | | |
| 203 | Preserved fruits and vegetables | 27,181 | 3,362,382 | 6,918,243 | 218,200 | 20,418,900 | 44,494,500 | 12.5 | 16.5 | 15.5 | | | |
| 2032 2033 | Canned specialties Canned fruits and vegetables | 931 9,641 | 213,440 1,278,306 | 389,181 2,935,885 | 23,900 68,000 | 3,272,300 6,405,200 | 6,322,300 14,697,900 | 3.9 14.2 | 6.5 20.1 | 6.2 20.1 | | | |
| 2034 2035 | Dehydrated fruits, vegetables, soups Pickles, sauces, and salad dressings | 2,345 1,525 | 334,656 392,483 | 591,218 621,680 | 14,100 21,200 | 1,124,900 2,984,500 | 2,453,700 5,749,800 | 16.6 7.2 | 29.8 13.2 | 24.1 10.8 | | | |
| 2037 2038 | Frozen fruits and vegetables Frozen specialties, nec | 5,768 6,971 | 353,619 789,878 | 1,037,316 1,342,963 | 46,200 44,700 | 2,921,600 3,710,400 | 7,473,600 7,797,000 | 12.5 15.6 | 12.1 21.3 | 13.9 17.2 | | | |
| 204 | Grain mill products | 15,180 | 2,877,809 | 6,796,558 | 102,700 | 19,294,700 | 46,538,000 | 14.8 | 14.9 | 14.6 | | | |
| 2041 2043 | Flour and other grain mill products | 1,312 0 | 231,559 0 | 726,735 0 | 12,300 16,100 | 1,251,300 6,325,300 | 5,624,700 8,704,600 | 10.7 0 | 18.5 0 | 12.9 0 | | | |
| 2044 2045 | Rice milling Prepared flour mixes and doughs | C 2,499 | (D) 554,763 | (D) 937,758 | 4,300 12,000 | 592,500 1,496,700 | 1,771,700 3,155,500 | (^D) 20.8 | (^D) 37.1 | (^D) 29.7 | | | |
| 2046 | Wet corn milling | H | (D) | (D) | 9,300 | 2,867,700 | 6.696.400 | (D) (D) | (D) | (D) (D) | | | |
| 2047 2048 | Dog and cat food Prepared feeds, nec | G 5,123 | 475,527 | 2,159,666 | 12,900 35,800 | 3,842,200 2,919,000 | 7,015,000 13,570,200 | 14.3 | 16.3 | 15.9 | | | |
| 205 2051 | Bakery products | 26,951 14,359 | 2,769,836 1,074,725 | 4,310,139 1,683,037 | 207,900 149,000 | 15,971,100 10,475,500 | 26,121,300 17,019,200 | 13.0 9.6 | 17.3 10.3 | 16.5 9.9 | | | |
| 2052 2053 | Cookies and crackersFrozen bakery products, except bread | 12,276 316 | 1,676,510 18,601 | 2,592,481 34,621 | 48,700 10,200 | 4,823,100 672,400 | 7,803,500 1,298,600 | 25.2 3.1 | 34.8 2.8 | 33.2 2.7 | | | |
| 206 | Sugar and confectionery products | 14,715 | 1,527,756 | 3,862,402 | 92,300 | 9,474,600 | 21,044,500 | 15.9 (^D) | 16.1 | 18.4 | | | |
| 2061 2062 | Raw cane sugar Cane sugar refining | Ğ | (D) | | 6,100 4,900 | 502,000 659,700 | 1,295,600 3,075,300 | \D(| (D) | (D) (D) (D) | | | |
| 2063 2064 | Beet sugar Candy and other confectionery products | G 7,746 | (Þ) 621,196 | (D) 1,231,407 | 7,600 49,200 | 828,800 4,354,900 | 2,133,900 7,991,800 | (^D) 15.7 | (^D) 14.3 | 15.4 | | | |
| 2066 2067 | Chocolate and cocoa products | G | (D) | (D) | 11,300 4,400 | 1,418,100 725,200 | 3,061,300 1,113,700 | (D) | (D) | (D) (D) (D) | | | |
| 2068 | Salted and roasted nuts and seeds | C 6,163 | (D) | (D) | 8,900 | 985,900 | 2,373,000 19,499,200 | (D) 21.0 | (D) (D) 23.6 | (D) 22.8 | | | |
| 207 2074 | Fats and oils Cottonseed oil mills | 6,163 E | 973,226 (D) | 4,445,591 (^D) | 29,300 2,800 | 4,118,200 185,000 | 850,500 | (D) | (D) | (D) | | | |
| 2075 2076 | Soybean oil mills Vegetable oil mills, nec | G 184 | (D) 27,225 | (D) 179,793 | 6,900 700 | 1,519,000 98,600 | 10,966,300 490,400 | (^D) 26.3 | (^D) 27.6 | (^D) 36.7 | | | |
| 2077 2079 | Animal and marine fats and oils Edible fats and oils, nec | C 3,706 | (D) 565,481 | 1,739,181 | 8,600 10,300 | 715,400 1,600,300 | 1,776,200 5,415,800 | (^D) 36.0 | (^D) 35.3 | (^D) 32.1 | | | |
| 208 2082 | Beverages | 14,504 G | 2,561,436 | 5,052,651 | 146,200 | 25,033,900 | 52,198,000 | 9.9 (D) | 10.2 | 9.7 | | | |
| 2083 | Malt beverages Malt | É | (D) | (D) | 32,600 1,400 | 8,192,800 170,800 | 15,186,200 700,400 | (D) | (D) (D) | (D) (D) | | | |
| 2084 2085 | Wines, brandy, and brandy spirits Distilled and blended liquors | 2,496 3,357 | 397,667 924,787 | 722,462 1,625,637 | 14,400 7,400 | 1,810,100 1,888,300 | 3,657,800 3,473,500 | 17.3 45.4 | 22.0 49.0 | `19.8 46.8 | | | |
| 2086 2087 | Bottled and canned soft drinks | 5,151 764 | 511,608 263,015 | 1,345,438 371,437 | 82,400 8,100 | 9,075,100 3,896,900 | 23,847,500 5,332,500 | 6.3 9.4 | 5.6 6.7 | 5.6 7.0 | | | |
| 209 | Miscellaneous food and kindred products | 20,232 | 2,664,815 | 5,700,203 | 157,300 | 14,993,300 | 32,374,500 | 12.9 | 17.8 | 17.6 | | | |
| 2091 2092 | Canned and cured fish and seafoods Fresh or frozen prepared fish | 1,192 6,764 | 63,249 353,240 | 267,432 1,443,721 | 7,100 40,500 | 303,200 1,776,900 | 998,200 6,087,700 | 16.8 16.7 | 20.9 19.9 | 26.8 23.7 | | | |
| 2095 2096 | Roasted coffee Potato chips and similar snacks | 2,322 2,139 | 592,348 320,787 | 1,200,431 518,688 | 11,200 32,300 | 3,581,800 2,906,300 | 6,622,700 6,062,100 | 20.7 6.6 | 16.5 11.0 | 18.1 8.6 | | | |
| 2097 2098 | Manufactured ice Macaroni and spaghetti | B | (D) | (D) | 4,400 6,200 | 238,000 728,700 | 326,700 1,229,600 | (D) | (D) | (D) (D) | | | |
| 2099 | Food preparations, nec | 7,574 | 1,307,414 | 2,219,343 | 55,700 | 5,458,300 | 11,047,600 | 13.6 | 24.0 | 20.1 | | | |
| 21 211 | Tobacco products Cigarettes | H G | (D) (D) | (D) | 40,900 27,800 | 22,561,300 20,628,300 | 29,922,400 25,522,400 | (D) | (D) (D) | (D) | | | |
| 2111 | Cigarettes | G | (D) | (D) (D) | 27,800 | 20,628,300 | 25,522,400 | (D) | (D) | (P) (P) 0 | | | |
| 212 2121 | Cigars | 0 | Ĭ | Ĭ | 2,300 2,300 | 137,000 137,000 | 229,800 229,800 | 0 | Ó | 0 | | | |
| 213 2131 | Chewing and smoking tobacco | C | (D) (D) (D) | (D) (D) (D) | 3,200 3,200 | 1,105,900 1,105,900 | 1,473,800 1,473,800 | (D) | (D) (D) (D) | (D) (D) (D) | | | |
| 214 2141 | Tobacco stemming and redrying | F F | (D) (D) | (D) | 7,600 7,600 | 690,000 690,000 | 2,696,500 2,696,500 | (D) (D) | (D) (D) | (D) (D) | | | |
| 22 | Textile mill products | 47,363 | 2,283,123 | 5,693,627 | 632,500 | 26,541,600 | 65,951,400 | 7.5 | 8.6 | 86 | | | |
| 221 2211 | Broadwoven fabric mills, cotton | G | (D) | (D) | 62,500 62,500 | 2,457,000 2,457,000 | 5,324,500 5,324,500 | (D) (D) | (D) | (P) (P) 12.5 | | | |
| 222 | Broadwoven fabric mills, manmade fiber and silk | 10,405 | 538,937 | 1,076,324 | 85,300 l | 3,619,300 | 8,577,900 | 12.2 | 14.9 | 12.5 | | | |

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| by Detailed Industry, 1990—Continued | | | | | | | | | | |
|--------------------------------------|----------------------------------------------------------------------------|-------------------------|----------------------------|-------------------------------|----------------------------------|-------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------------|--------------------------|
| | | For | eign-owned establis | hments | | Foreign-owned establishments as a percentage of all U.S. establishments | | | | |
| SIC | la di cata i | | Thousands | of dollars | | Thousands | of dollars | percentage | | ablishments |
| code | Industry | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | Value added by manufac- ture | Value of shipments |
| 2221 223 | Broadwoven fabric mills, manmade fiber and silk | 10,405 | 538,937 | 1,076,324 | 85,300 45,700 | 3,619,300 674,600 | 8,577,900 | 12.2 | 14.9 | 12.5 |
| 2231 | Broadwoven fabric mills, wool | 357 357 | 23,336 23,336 | 41,728 41,728 | 15,700 15,700 | 674,600 | 1,798,300 1,798,300 | 2.3 2.3 | 3.5 3.5 | 2.3 2.3 |
| 224 2241 | Narrow fabric mills | 983 983 | 77,334 77,334 | 107,476 107,476 | 17,000 17,000 | 671,400 671,400 | 1,259,700 1,259,700 | 5.8 5.8 | 11.5 11.5 | 8.5 8.5 |
| 225 2251 | Knitting mills | 8,331 E | 290,206 | 701,556 (D) | 197,900 23,400 | 6,791,100 911,200 | 14,596,500 1,620,700 | 4.2 (D) | 4.3 | 4.8 (D) |
| 2252 2253 | Hosiery, nec | G 1,378 | (D) 35,918 | (D) 67,356 | 38,600 63,600 | 1,062,000 1,783,200 | 2,277,900 3,456,400 | (D) (D) (D) 2.2 | (D) 2.0 | (Þ) 1.9 |
| 2254 | Knit underwear mills | G | (D) | (D) | 15,400 | 596,500 | 1,105,000 | (D) 2.7 | (D) | (D) |
| 2257 2258 | Weft knit fabric mills Lace and warp knit fabric mills | 842 G | 32,153 (D) | 102,668 (^D) | 30,700 22,300 | 1,370,000 931,600 | 3,588,700 2,298,300 | (D) 0 | 2.3 (^D) | (D) |
| 2259 226 | Knitting mills, nec | 0 H | (D) |) Ó (^D) | 3,900 49,400 | 136,500 2,365,700 | 249,300 6,303,800 | (D) | ` Ó (^D) | (P) |
| 2261 2262 | Finishing plants, cotton | 1,341 E | 59,665 | 113,369 (D) | 14,900 22,300 | 812,300 1,109,700 | 1,594,800 3,400,900 | 9.0 (D) | 7.3 | (₽) |
| 2269 227 | Finishing plants, nec Carpets and rugs | 1,489 3,310 | 74,144 179,830 | 189,153 661,636 | 12,200 51,800 | 443,600 2,917,300 | 1,308,100 10,038,400 | 12.2 6.4 | 16.7 6.2 | 14.5 6.6 |
| 2273 | Carpets and rugs | 3,310 | 179,830 | 661,636 | 51,800 | 2,917,300 | 10,038,400 | 6.4 | 6.2 | 6.6 |
| 228 2281 | Yarn and thread mills Yarn spinning mills | 10,800 6,69 <u>3</u> | 394,793 246,816 | 996,732 619,148 | 100,700 75,000 | 3,753,100 2,654,500 | 10,574,600 7,259,200 | 10.7 8.9 | 10.5 9.3 | 9.4 8.5 |
| 2282 2284 | Throwing and winding mills Thread mills | F H | (D) | (D) (D) | 18,500 7,100 | 769,300 329,300 | 2,521,000 794,500 | (D) (D) | (D) | (D) (D) |
| 229 2295 | Miscellaneous textile goods | 7,828 E | 520,049 (D) | 1,524,095 (^D) | 52,200 8,900 | 3,292,000 578,600 | 7,477,800 1,361,800 | 15.0 (^D) | 15.8 (^D) | 2ó.4 (^D) |
| 2296 2297 | Tire cord and fabrics | 2,849 2,329 | 94,050 214,792 | 443,174 669,364 | 5,100 16,900 | 334,300 1,306,900 | 981,600 2,851,000 | 55.9 13.8 | `28.1 16.4 | 45.1 23.5 |
| 2298 2299 | Cordage and twine Textile goods, nec | G 1,199 | (D) 118,688 | (D) 203,167 | 7,000 14,400 | 248,800 823,400 | 636,900 1,646,500 | (D) 8.3 | (^D) 14.4 | (P) 12.3 |
| 23 | Apparel and other textile products | 23,085 | 850,240 | 1,727,481 | 992,900 | 33,034,000 | 64,413,600 | 2.3 | 2.6 | 2.7 |
| 231 2311 | Men's and boys' suits and coats Men's and boys' suits and coats | 4,262 4,262 | 148,603 148,603 | 234,577 234,577 | 48,400 48,400 | 1,500,800 1,500,800 | 2,622,400 2,622,400 | 8.8 8.8 | 9.9 9.9 | 8.9 8.9 |
| 232 | Men's and boys' furnishings | 7,982 | 264,990 | 548,727 | 258,800 | 8,051,400 | 14,872,900 | 2.1 | 3.3 | 3.7 |
| 2321 2322 | Men's and boys' shirts Men's and boys' underwear and nightwear | H G | (D) | (D) | 69,700 15,300 | 2,197,700 381,700 | 4,242,600 724,900 | (D) | (D) | (P) |
| 2323 2325 | Men's and boys' neckwear | B 1,813 | (P) 67,229 | (^D) 163,467 | 7,400 81,700 | 268,500 3,016,700 | 499,900 5,657,300 | (D) (D) (D) (D) 2.2 | (^D) 2.2 | (Þ) 2.9 |
| 2326 2329 | Men's and boys' work clothing | C F | (D) | (D) (D) | 31,500 53,300 | 846,300 1,340,600 | 1,461,700 2,286,600 | (D) (D) | (D) | (D) (D) |
| 233 2331 | Women's and misses' outerwear | 1,950 C | 60,636 | 111,089 (D) | 318,200 64,400 | 10,192,400 1,954,900 | 19,338,700 3,733,000 | .6 | (P) | (D).6 |
| 2335 2337 | Women's, junior's, and misses' dresses Women's and misses' suits and coats | F 1,004 | (D) 36,450 | (D) 77,062 | 106,400 45,900 | 3,346,800 1,979,000 | 5,914,500 4,162,800 | (D) (D) 2.2 | (D) 1.8 | (Þ) 1.9 |
| 2339 234 | Women's and misses' outerwear, nec Women's and children's undergarments | C G | (D) | (D) (D) | 101,500 60,300 | 2,911,700 1,859,000 | 5,528,400 3,424,300 | (D) | (D) (D) | (D) |
| 2341 | Women's and children's underwear | G | (D) (D) | (D) (D) | 48,700 | 1,298,400 | 2,337,400 | (D) (D) (D) (D) | (D) (D) | (D) |
| 2342 235 | Bras, girdles, and allied garments | E 0 | \ | ` ó | 11,600 16,500 | 560,600 424,300 | 1,086,900 736,600 | `ó | ` ó | `ó |
| 2353 236 | Hats, caps, and millinery | 0 F | 0 (D) | 0 (^D) | 16,500 60,800 | 424,300 2,045,700 | 736,600 3,697,800 | 0 (^D) | 0 (^D) | (D) (D) |
| 2361 2369 | Girls' and children's dresses and blouses | E C | (D) (D) (D) | (D) (D) | 29,000 31,900 | 903,800 1,141,900 | 1,724,500 1,973,200 | (D) (D) (D) | (D) (D) | (D) |
| 237 2371 | Fur goods | 0 0 | 0 | 0 | 2,200 2,200 | 103,600 103,600 | 378,700 378,700 |) Ó 0 | ` Ó 0 | 0 |
| 238 2381 | Miscellaneous apparel and accessories | C | (D) (D) | (D) (D) | 38,300 5,200 | 1,237,900 212,400 | 2,256,400 340,800 | (D) | (D) | (D) (D) |
| 2384 2385 | Robes and dressing gowns Waterproof outerwear | 0 |) Ó | ` Ó | 3,900 4,500 | 119,700 113,000 | 306,300 219,300 | ` ó | ` ó |) Ó 0 |
| 2386 2387 | Leather and sheep-lined clothing | 0 | 0 | 0 | 2,200 11,100 | 73,000 386,100 | 166,600 673,400 | 0 | 0 | 0 |
| 2389 | Apparel belts Apparel and accessories, nec | 0 | 0 | 0 | 11,500 | 333,800 | 550,100 | 0 | 0 | 0 |
| 239 2391 | Miscellaneous fabricated textile products Curtains and draperies | 6,515 F | 273,047 (D) | 620,649 (D) | 189,300 23,400 | 7,618,800 685,400 | 17,085,900 1,499,200 | 3.4 (D) | 3.6 (^D) | 3.6 (^D) |
| 2392 2393 | Housefurnishings, nec Textile bags | 2,638 360 | 86,198 12,369 | 214,278 29,131 | 44,800 5,700 | 1,967,300 230,000 | 4,871,900 513,000 | 5.9 6.3 | 4.4 5.4 | 4.4 5.7 |
| 2394 2395 | Canvas and related products | C 0 | (D) | (^D) | 17,300 14,200 | 531,100 388,100 | 1,134,900 742,700 | (D) 0 | (D) 0 | (D) 0 |
| 2396 2397 | Automotive and apparel trimmings | F C | (D) (D) | (D) (D) | 47,100 5,900 | 2,267,400 172,900 | 5,104,800 309,200 | (D) (D) | (D) (D) | (D) (D) |
| 2399 | Fabricated textile products, nec | 1,586 | 110,416 | 206,322 | 31,100 | 1,376,600 | 2,910,300 | ` 5.1 | 8.0 | ` 7 .1 |
| 24 241 | Lumber and wood products | 17,043 721 | 842,486 119,353 | 2,304,003 382,586 | 682,900 83,400 | 28,597,200 4,313,200 | 74,287,200 12,229,000 | 2.5 .9 | 2.9 2.8 | 3.1 3.1 |
| 2411 242 | LoggingSawmills and planing mills | 721 2,706 | 119,353 143,504 | 382,586 431,743 | 83,400 170,800 | 4,313,200 7.174.500 | 12,229,000 19,934,900 | .9 1.6 | 2.8 2.0 | 3.1 2.2 |
| 2421 2426 | Sawmills and planing mills, general | 2,071 F | 122,196 | 378,485 | 138,900 29,300 | 6,184,300 908,800 | 17,923,000 1,800,500 | 1.5 (^D) | 2.0 (^D) | 2.1 (D) |
| 2429 243 | Special product sawmills, nec Millwork, plywood and structural members | 7,930 | (D) 339,789 | (Þ) 777,564 | 2,500 229,400 | 81,500 9,577,600 | 211,300 23,245,200 | (D) (D) (D) 3.5 | (D) 3.5 | (D) 3.3 |
| 2431 | Millwork | 3,909 | 168,644 | 375,646 | 90,500 | 3,851,600 | 9,524,700 | | 4.4 (D) | 3.9 |
| 2434 2435 | Wood kitchen cabinets Hardwood veneer and plywood | 1,328 | 59,420 | 135,003 | 62,800 18,700 | 2,540,100 706,600 | 4,610,000 2,051,700 | (P) 7.1 | 8.4 (P) | (P) 6.6 |
| 2436 2439 | Softwood veneer and plywood | C F | (D) | (D) | 35,600 21,800 | 1,669,200 810,100 | 5,030,400 2,028,400 | (D) (D) (D) 0 | (D) | (D) |
| 244 2441 | Wood containers | C 0 | (D) 0 | (P) 0 | 41,500 6,000 | 1,189,200 191,600 | 2,850,000 431,300 | (1) | (Þ) 0 | (Þ) 0 |
| 2448 2449 | Wood pallets and skids | C 0 | (^D) | (D) | 28,300 7,200 | 802,000 195,600 | 1,948,600 470,200 | (D) 0 | (D) 0 | (P) 0 |
| 245 2451 | Wood buildings and mobile homes | G B | (D) (D) | (D) (D) | 61,400 38,800 | 2,364,800 1,501,600 | 6,471,000 4,202,500 | (D) (D) | (D) (D) | (D) (D) |
| 2452 249 | Prefabricated wood buildings Miscellaneous wood products | 1,359 4,118 | 48,762 178,693 | 116,306 570,338 | 22,600 96,400 | 863,200 3,977,800 | 2,268,500 9,557,000 | 6.0 4.3 | 5.6 4.5 | 5.1 6.0 |
| 2491 2493 | Wood preserving Reconstituted wood products | 1,598 | (D) 95,998 | (D) 247,272 | 13,000 22,300 | 696,500 1,285,000 | 2,642,700 3,042,600 | (^D) 7.2 | (^D) 7.5 | (P) 8.1 |
| 2499 | Wood products, nec | 1,596 G | 95,996 (D) | (D) | 61,100 | 1,996,300 | 3,871,800 | (D) | (D) | (D) |
| 25 | Furniture and fixtures | J | (D) | (D) | 499,200 | 21,644,700 | 41,682,000 | (D) | (D) | (D) |

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| by Detailed Industry, 1990—Continued | | | | | | | | | | | |
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| ' | | Foreign-owned establishments Thousands of dollars | | hments | | All U.S. establishmen | nts | | ned establishm of all U.S. esta | | |
| SIC | Industry | | Thousands | of dollars | | Thousands | of dollars | percentage | Value | abilariinenta | |
| code | inducty | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | added by manufac- ture | Value of shipments | |
| 251 2511 2512 2514 2515 2517 2519 252 2521 2531 2541 2542 2591 2599 | Household furniture Wood household furniture Upholstered household furniture Metal household furniture Mattersses and bedsprings Wood television and radio cabinets Household furniture, nec Office furniture Wood office furniture Office furniture, except wood Public building and related furniture Public building and related furniture Partitions and fixtures Partitions and fixtures Partitions and fixtures, except wood Miscellaneous furniture and fixtures Drapery hardware and blinds and shades Furniture and fixtures Drapery hardware and blinds and shades Furniture and fixtures Paren and blind partitute | 9,065 2,183 2,183 3,183 9,0 1,577 3,761 F H G G G F C F G G C C | 276,284 85,549 (P) (D) (D) 33,088 277,062 (P) (D) (D) (D) (D) (D) | 692,827 192,599 (P) 0 (P) 148,970 481,778 (P) (P) (P) (P) (P) (P) (P) (P) | 274,800 130,900 83,800 24,700 3,300 5,700 74,900 26,000 26,000 72,600 40,100 32,500 19,000 31,900 | 9,878,100 4,399,000 2,809,100 1,032,400 1,331,400 173,700 4,719,500 1,100,800 3,618,700 1,147,100 3,409,300 1,788,500 1,620,800 1,005,100 1,485,600 | 19,912,900 8,302,900 5,815,500 2,184,100 2,904,900 458,700 8,030,100 1,998,800 6,031,400 3,112,400 3,112,400 3,147,200 3,045,800 1,886,300 1,886,300 2,547,300 | 3.3 1.7 (P) 0 0 (P) 27.7 5.0 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 2.8 1.9 (P) (P) (P) 19.0 5.9 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 3.5 2.3 (P) (P) (P) (P) 32.5 6.0 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | |
| 26 2611 2621 2621 2631 2631 2652 2653 2655 2657 2677 2671 2674 2675 2676 2677 2677 2678 | Paper and allied products Pulp mills Pulp mills Paper mills Paperboard mills Paperboard mills Paperboard boxes Setup paperboard boxes Setup paperboard boxes Fiber cans, drums and similar products Sanitary food containers Folding paperboard boxes Miscellaneous converted paper products Paper coated and laminated, packaging Paper coated and laminated, nec Bags; plastics, laminated, and coated Bags: uncoated paper and multiwall Die-cut paper and board Sanitary paper products Envelopes Stationery products Converted paper products, nec | 48,644 E E 10,612 7,562 17,531 344 9,976 G C 5,477 J 1,404 4,579 1,101 723 G B C C B B | 4,709,223 (P) (1,458,591 1,458,591 1,119,742 1997,570 22,552 538,037 (D) (347,908 (P) 80,606 443,059 84,592 34,172 (P) (P) (C) (D) (251,711 | 11,395,189 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 628,100 16,100 16,100 130,100 53,100 200,300 8,800 110,100 55,700 228,500 35,000 37,400 16,800 39,000 26,100 30,700 27,500 39,000 37,400 38,000 39,000 39,000 30,700 | 59,823,300 3,416,400 16,599,800 16,599,800 8,123,000 11,082,100 312,900 750,600 1,074,400 20,602,000 1,133,400 3,321,000 8777,100 1,045,700 7,896,200 1,194,900 1,194,900 1,194,900 1,194,900 1,194,900 1,194,900 1,194,900 1,194,900 1,194,900 | 131,444,600 6.239,100 35,321,800 15,919,300 30,510,400 16,551,000 18,572,200 1,884,900 2,518,700 6,989,400 2,750,100 2,750,100 2,119,000 2,119,000 2,119,000 2,119,000 2,119,000 2,119,000 2,119,000 4,179,200 2,119,000 1,332,100 4,127,900 | (P) (P) (P) 8.2 14.2 14.2 14.2 8.8 3.9 (P) (P) 10.8 (P) (P) 4.3 (P) (P) (P) (P) 10.9 | 7.9 (P) 8.8 8.8 13.8 13.8 9.0 7.2 9.1 (P) (P) (11.4 (P) 7.1 13.3 3.9 (P) (P) (P) (P) (P) (P) 13.0 | (P) (P) 10.1 13.5 13.5 13.5 13.5 10.2 (P) (P) (P) 12.5 (P) (P) 12.5 (P) (P) (P) (P) (P) (P) 16.8 3.2 3.5 (P) (P) (P) (P) (P) 16.1 16.1 16.1 16.1 16.1 16.2 16.2 16.2 | |
| 27 271 2711 2712 2721 273 2731 2732 2744 2752 2754 2752 2764 2761 277 2771 278 2782 2789 2791 2796 | Printing and publishing Newspapers Newspapers Periodicals Periodicals Books Book publishing Book printing Miscellaneous publishing Miscellaneous publishing Commercial printing, lithographic Commercial printing, gravure Commercial printing, nec Manifold business forms Manifold business forms Greeting cards Greeting cards Greeting cards Blankbooks and bookbinding Blankbooks and looseleaf binders Bookbinding and related work Printing trade services Typessetting Platemaking services | 103,983 19,774 19,774 14,122 21,423 17,407 4,016 4,732 4,732 4,732 4,732 15,041 10,041 10,041 10,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 11,041 | 10,408,807 798,449 798,449 1,957,867 3,365,885 3,167,853 198,032 551,139 531,137 2,322,445 1,274,879 732,128 315,438 (P) (D) (D) (P) (P) (P) (P) (P) | 16,499,934 1,055,891 3,124,876 3,124,876 4,660,080 4,305,984 354,096 650,747 4,549,246 2,547,334 1,473,185 528,727 (P) 0 0 0 (P) (P) (P) | 1,538,100 443,400 115,200 115,200 115,200 73,500 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 65,200 24,600 70,200 38,500 31,700 66,500 33,600 32,900 | 103,179,000 26,559,600 26,559,600 13,847,700 13,847,700 13,320,400 10,919,500 6,656,200 6,656,200 29,001,300 21,230,300 1,742,000 6,029,100 4,038,100 4,038,100 2,827,500 3,218,700 2,182,900 1,038,800 3,709,400 1,038,700 2,103,700 2,103,700 | 157,059,500 34,641,700 34,641,700 20,396,700 19,449,900 15,317,900 8,874,700 8,874,700 38,877,400 7,807,500 7,807,500 3,720,700 4,549,400 3,186,100 1,383,400 4,715,200 1,987,400 2,757,800 | 6.8 4.5 4.5 12.3 12.3 17.5 23.7 7.3 4.9 3.6 37.1 3.4 (P) (P) (P) (P) (P) (P) (P) | 10.1 3.0 14.1 14.1 25.3 29.0 8.3 8.3 8.0 6.0 42.0 9.0 (P) (P) (P) (P) (P) | 10.5 3.0 15.3 15.3 24.0 28.1 8.6 7.3 7.3 8.6 6.6 40.5 5.1 (P) (P) (P) (P) (P) (P) | |
| 28 2811 2812 2813 2816 2819 2819 2819 2829 2821 2822 2823 2834 2835 2844 2844 2855 2866 2846 2866 2867 2867 2873 2874 | Chemicals and allied products Industrial inorganic chemicals Alkalies and chlorine Industrial gases Inorganic pigments Industrial inorganic chemicals, nec Plastics materials and synthetics Plastics materials and resins Synthetic rubber Cellulosic manmade fibers Organic fibers, noncellulosic Drugs Medicinals and botanicals Pharmaceutical preparations Diagnostic substances Biological products except diagnostic Soap, cleaners, and toilet goods Soap and other detergents Polishes and sanitation goods Surface active agents Toilet preparations Paints and allied products Paints and allied products Industrial organic chemicals Gum and wood chemicals Cyclic crudes and intermediates Industrial organic chemicals Informations Industrial organic chemicals Informations | 242,392 22,882 E H 4,343 13,469 54,991 14,365 I H 29,307 65,378 2,063 51,180 3,865 8,270 22,075 5,439 H H 10,436 10,833 10,833 10,833 38,025 F I 27,762 10,186 F 1,752 | 48,835,701 4,576,277 (P) 1,369,809 2,153,141 8,854,655 3,446,830 (P) (P) 4,002,359 14,234,655 259,825 12,591,173 476,620 907,037 5,537,023 1,389,093 (P) (E) (C) 2,681,808 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 1,635,949 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(P) (P) 7,215,738 19,489,079 602,462 16,760,810 655,862 1,469,945 9,216,467 2,657,805 (P) (D) 3,719,110 3,528,421 19,192,018 (P) 15,432,739 4,815,384 (P) 701,957 | 853,300 100,900 6,800 9,000 8,5000 131,600 62,400 9,700 10,900 143,800 143,800 143,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 15,900 10,900 10,900 10,900 | 153,032,400 16,099,700 1,449,900 1,919,200 1,930,800 10,799,800 20,511,200 12,195,300 1,706,700 679,000 38,244,500 2,392,200 32,744,700 1,790,100 7,971,200 3,691,400 1,241,000 6,765,700 6,765,700 6,765,700 6,765,700 3,881,100 340,500 3,980,100 24,492,400 8,060,000 1,213,300 1,151,100 | 288,183,700 26,690,800 2,709,800 3,058,100 3,203,900 17,719,000 48,419,800 31,325,800 4,210,300 1,456,700 4,919,400 44,182,300 2,462,200 15,373,400 5,847,900 3,168,300 17,048,400 14,238,700 65,695,500 642,900 10,892,600 54,160,000 18,307,400 3,113,400 4,636,200 | 28.4 22.7 (P) 51.1 17.6 41.8 23.0 (P) 60.9 35.7 18.9 35.6 25.9 26.2 17.5 15.0 (P) (P) (P) (P) (P) 17.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 20.1 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Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| | | by I | Detailed Indu | ıstry, 1990— | -Continued | | | | | |
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------------------------------------------------------------------------------------------------------|
| | | For | eign-owned establis | hments | | All U.S. establishmer | nts | | ned establishm of all U.S. esta | |
| SIC | Industry | Niverbanas | Thousands | of dollars | North an of | Thousands | of dollars | porcomago | Value | |
| code | , | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | added by manufac- ture | Value of shipments |
| 2875 2879 289 2891 2892 2893 2895 2899 | Fertilizers, mixing only Agricultural chemicals, nec Miscellaneous chemical products Adhesives and sealants Explosives Printing ink Carbon black Chemical preparations, nec | B 7,778 18,022 5,339 G 3,622 E 6,810 | (P) 2,331,159 2,112,109 600,694 (P) 408,164 (P) 863,758 | 3,836,117 4,794,884 1,352,921 (P) 1,291,774 (P) 1,786,912 | 7,100 17,700 89,200 21,400 13,800 11,400 1,800 40,900 | 552,900 5,142,700 9,530,600 2,333,200 874,400 1,035,700 380,000 4,907,200 | 2,018,800 8,538,900 19,674,000 5,485,100 1,324,600 2,754,400 691,900 9,418,000 | (P) 43.9 20.2 24.9 (P) 31.8 (P) 16.7 | (D) 45.3 22.2 25.7 (D) 39.4 (D) 17.6 | (D) 44.9 24.4 24.7 (D) 46.9 (P) 19.0 |
| 29 291 2911 295 2951 2952 299 2992 2999 | Petroleum and coal products Petroleum refining Petroleum refining Asphalt paving and roofing materials Asphalt paving mixtures and blocks Asphalt letts and coatings Miscellaneous petroleum and coal products Lubricating oils and greases Petroleum and coal products, nec | 25,638 19,702 19,702 3,469 H F 2,467 G C | 4,106,797 3,418,395 3,418,395 413,016 (P) (P) 275,386 (P) | 46,372,551 44,134,647 44,134,647 1,073,158 (P) (P) 1,164,746 (P) | 111,900 71,900 71,900 26,700 14,300 12,400 13,200 11,200 2,000 | 27,214,100 22,822,000 22,822,000 2,734,700 1,449,800 1,284,900 1,280,300 377,100 | 172,588,600 159,411,100 159,411,100 7,798,700 4,213,800 3,554,900 5,378,700 4,398,500 980,200 | 22.9 27.4 27.4 13.0 (D) (D) 18.7 (D) | 15.1 15.0 15.0 15.1 (D) (D) 16.6 (D) | 26.9 27.7 27.7 13.8 (D) (P) 21.7 (D) |
| 30 301 3011 3021 305 3052 3053 306 3061 3083 3084 3085 3084 3085 3086 3087 3088 | Rubber and miscellaneous plastics products Tires and inner tubes Tires and inner tubes Rubber and plastics footwear Rubber and plastics footwear Rubber and plastics footwear Hose and belting and gaskets and packing Rubber and plastics footwear Gaskets, packing and sealing devices Fabricated rubber products, nec Mechanical rubber goods Fabricated rubber products, nec Miscellaneous plastics profulcts, nec Unsupported plastics film and sheet Unsupported plastics film and sheet Unsupported plastics profile shapes Laminated plastics pose Plastics bottles Plastics bottles Plastics foam products Custom compound purchased resins Plastics plumbing fixtures Plastics products, nec | 120,951 35,511 789 789 10,126 2,588 7,538 15,317 4,617 10,700 59,208 9,582 3,434 3,238 2,432 1,466 6,382 2,927 1,588 28,159 | 8,757,926 3,237,878 3,237,878 37,710 37,710 450,334 154,716 295,618 970,180 273,121 697,059 4,061,824 885,377 171,737 240,299 199,298 106,544 413,715 233,343 205,501 1,606,010 | 17,790,551 5,805,548 60,556 66,656 66,656 6632,230 323,324 470,427 1,677,995 8,906,695 1,948,224 377,308 448,093 588,688 200,942 1,027,385 720,485 301,540 3,284,030 | 870,100 67,700 10,500 10,500 23,100 33,200 103,000 46,300 56,600 632,600 11,400 26,700 12,900 28,800 63,700 18,200 9,100 | 49,889,000 6,488,600 338,700 338,700 3,143,300 1,380,100 1,763,300 5,225,400 3,139,100 34,692,900 4,294,900 1,285,700 1,526,400 3,783,300 1,297,800 1,297,800 1,297,800 | 101,398,200 11,860,800 650,000 650,000 5,570,200 2,574,800 10,559,200 3,30,200 6,629,000 72,758,000 2,888,800 2,924,700 2,6688,800 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 3,728,900 | 13.9 52.5 52.5 7.5 7.5 7.5 18.0 11.2 22.7 14.9 10.0 18.9 9.4 18.6 12.9 18.4 18.9 5.1 10.0 16.1 17.5 7.0 | 17.6 49.9 49.9 11.1 11.1 14.3 11.2 16.8 18.6 13.1 22.2 11.7 20.6 13.4 20.7 24.7 6.6 10.9 18.0 35.6 8.1 | 17.5 48.9 10.3 10.3 15.5 12.6 18.0 20.3 12.0 25.3 12.2 21.0 14.0 19.5 22.9 5.4 11.4 22.2 31.2 8.4 |
| 31 311 3131 3131 3142 3142 3143 3144 315 315 315 3161 317 3171 3172 3199 | Leather and leather products Leather tanning and finishing Leather tanning and finishing Footwear cut stock Footwear cut stock Footwear, except rubber House slippers Men's footwear, except athletic Women's footwear, except athletic Footwear, except rubber, nec Leather gloves and mittens Leather gloves and mittens Luggage Luggage Handbags and personal leather goods Women's handbags and purses Personal leather goods, nec Leather goods, nec Leather goods, nec | 6,362 G G G E E E 3,191 O H O F O O B B B S 905 O C C C | 287,251 (P) (P) (P) (P) (P) 98,155 0 (P) 0 (P) 37,599 37,599 0 (P) (P) | 608,138 (P) | 117,400 12,100 5,200 5,200 62,000 4,300 28,500 2,800 2,800 14,000 14,000 14,000 14,000 6,500 8,600 8,600 | 4,586,600 779,900 779,900 196,400 196,400 1,058,600 682,700 218,200 59,200 618,000 618,000 509,600 319,700 189,900 303,200 | 9,887,300 2,410,900 2,410,900 413,300 413,300 276,000 2,148,800 1,393,200 414,100 154,800 1,169,400 912,200 546,900 365,200 594,700 594,700 | 5.4 (D) (D) (D) (D) (D) (D) (D) (D) | 6.3 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 6.2 (D) (D) (D) (D) (D) (D) (D) (D) |
| 32 3211 3211 3212 3221 3221 3221 3221 3 | Stone, clay, and glass products Flat glass Flat glass Glass and glassware, pressed or blown Glass containers Pressed and blown glass, nec Products of purchased glass Products of purchased glass Cement, hydraulic Cement, hydraulic Structural clay products Brick and structural clay tile Clay refractories Structural clay products, nec Pottery and related products Vitreous plumbing fixtures Vitreous plumbing fixtures Semivitreous table and kitchenware Semivitreous table and kitchenware Semivitreous table and kitchenware Porcelain electrical supplies Pottery products, nec Concrete, gypsum, and plaster products Concrete block and brick Concrete block and brick Concrete block and brick Cut stone and stone products Cut stone and stone products Miscellaneous nometallic mineral products Abrasive products Minerals, ground or treated Mineral wool Nonclay refractories Nonmetallic mineral products, nec | 105,578 21,522 16,391 5,131 6,953 6,953 10,501 10,501 10,501 10,501 10,501 2,033 10,816 15,646 1,259 3,359 C C C 18,413 7,997 C 2,974 3,516 3,404 E | 8,450,211 (P) 1,645,014 1,266,761 378,253 427,734 427,734 1,353,752 1,353,752 1,353,752 (P) (B) (C) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D | 16,407,454 (P) 2,887,318 2,250,907 636,411 907,180 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,702,922 2,802,902 (P) (P) 4,875,489 285,310 1,162,562 2,467,829 2,467,829 (P) (P) 3,298,011 1,711,414 (P) 467,005 557,928 465,817 (P) | 509,100 14,600 14,600 14,600 14,600 36,600 53,900 17,600 17,600 17,600 17,600 17,600 18,500 2,200 9,800 6,500 2,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 1,200 19,000 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 11,500 | 34,140,200 1,394,800 1,394,800 5,342,800 2,751,400 3,341,500 2,196,800 2,196,800 1,852,900 753,500 556,600 451,400 91,300 1,838,800 578,000 278,100 34,200 539,400 409,100 11,661,600 1,134,300 5,633,500 422,500 967,000 5,633,500 422,500 967,000 5,633,500 1,887,700 1,887,700 1,887,700 1,887,700 1,887,700 1,887,700 1,887,700 1,887,700 1,887,700 | 63,468,000 2,279,000 2,279,000 8,918,000 4,946,100 3,971,900 6,141,300 4,250,700 4,250,700 4,250,700 1,168,700 22,900 149,800 2,613,400 825,100 810,000 591,700 24,595,000 12,829,600 12,829,600 12,829,600 12,829,600 13,988,800 988,800 988,800 988,800 10,595,300 10,595,300 11,499,800 1,499,800 1,077,600 667,200 | 20.7 (P) (P) (P) (29.9 44.8 14.5 512.9 12.9 59.7 59.7 52.8 (P) | 24.8 (P) (P) (30.8 46.0 14.6 12.8 61.6 61.6 62.4 29.7 (P) 19.8 (P) (P) (P) (P) 19.1 12.4 17.9 18.6 25.2 31.4 (P) (P) (P) 29.5 43.3 (P) 24.1 16.8 48.0 (P) | 25.9 (P) |

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| | I | istry, 1990— | Continued | | T | | | | | | |
|--------------|------------------------------------------------------------------------|------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------------------|----------------------------------|-------------------------------------------------------------------------|------------------------------|--------------------------|--|
| | | For | eign-owned establis | | | All U.S. establishmer | | Foreign-owned establishments as a percentage of all U.S. establishments | | | |
| SIC | Industry | Number of | Thousands | of dollars | Number of | Thousands | of dollars | | Value | | |
| code | | employees | Value added by manufacture | Value of shipments | employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | added by manufac- ture | Value of shipments | |
| 33 | Primary metal industries | 119,087 | 10,297,630 | 31,902,909 | 711,900 | 53,366,600 | 146,052,000 | 16.7 | 19.3 | 21.8 | |
| 331 3312 | Blast furnace and basic steel products Blast furnaces and steel mills | 60,902 45,361 | 5,487,240 4,215,490 | 14,963,600 11,073,717 | 258,800 188,500 | 23,766,000 18,283,000 | 62,121,100 45,950,400 | 23.5 24.1 | 23.1 23.1 | 24.1 24.1 | |
| 3313 | Electrometallurgical products | 2,502 | 225,270 | 540,250 | 5,200 | 431,200 | 1,180,400 | 48.1 | 52.2 | 45.8 | |
| 3315 3316 | Steel wire and related products | 5,762 3,210 | 338,443 343,536 | 833,015 1,387,426 | 26,700 16,300 | 1,723,400 1,620,800 | 4,179,700 5,842,200 | 21.6 19.7 | 19.6 21.2 | 19.9 23.7 | |
| 3317 | Steel pipe and tubes | 4,067 | 364,501 | 1,129,192 | 22,100 | 1,707,700 | 4,968,500 | 18.4 | 21.3 | 22.7 | |
| 332 3321 | Iron and steel foundries | 10,651 3,204 | 650,840 160,093 | 1,172,560 366,026 | 132,500 81,000 | 6,691,500 4,111,200 | 12,064,500 7,825,300 | 8.0 4.0 | 9.7 3.9 | 9.7 4.7 | |
| 3322 3324 | Malleable iron foundries | 0 | 0 (D) | (D) | 4,900 19,800 | 196,800 1,033,500 | 320,600 1,592,100 | (D) | (D) | 0 (D) | |
| 3325 | Steel foundries, nec | Ġ | (D) | (D) | 26,700 | 1,350,000 | 2,326,500 | (D) | (D) | (D) | |
| 333 3331 | Primary nonferrous metals | 9,006 G | 1,096,651 | 5,122,942 (D) | 34,700 4,600 | 4,265,800 918,000 | 15,507,100 4,201,200 | 26.0 | 25.7 (D) | 33.0 (^D) | |
| 3334 | Primary aluminum | H | (D) | (D) | 19,500 | 2,205,600 | 7,033,900 | (D) | (D) | (D) | |
| 3339 334 | Primary nonferrous metals, nec | 3,956 1,369 | 500,755 127,534 | 2,615,331 580,769 | 10,600 14,700 | 1,142,200 1,107,500 | 4,272,000 6,130,200 | 37.3 9.3 | `43.8 11.5 | 61.2 9.5 | |
| 3341 335 | Secondary nonferrous metals | 1,369 30,029 | 127,534 2,367,427 | 580,769 8,977,349 | 14,700 157,100 | 1,107,500 11,832,500 | 6,130,200 39,330,900 | 9.3 19.1 | 11.5 20.0 | 9.5 22.8 | |
| 3351 | Copper rolling and drawing | 2,948 | 227,006 | 982,802 | 21,400 | 1,679,300 | 6,880,200 | 13.8 | 13.5 | 14.3 | |
| 3353 3354 | Aluminum sheet, plate, and foil | 7,405 H | 609,787 | 3,765,865 | 25,100 30,900 | 2,508,500 1,466,900 | 11,121,500 4,850,300 | 29.5 (D) | 24.3 (^D) | 33.9 (^D) | |
| 3355 | Aluminum rolling and drawing, nec | В | (D) | (D) | 800 | 54,600 | 388,300 | (D) | (D) | (D) | |
| 3356 3357 | Nonferrous rolling and drawing, nec | 5,354 10,026 | 450,339 910,548 | 1,140,812 2,472,542 | 18,600 60,200 | 1,502,500 4,620,700 | 3,481,200 12,609,400 | 28.8 16.7 | 30.0 19.7 | 32.8 19.6 | |
| 336 3363 | Nonferrous foundries (castings) | 4,125 1,051 | 215,566 60,815 | 412,845 109,066 | 79,800 28,800 | 3,548,000 1,326,600 | 7,159,300 2,779,500 | 5.2 3.6 | 6.1 4.6 | 5.8 3.9 | |
| 3364 | Aluminum die-castings | 1,378 | 76,771 | 137,898 | 13,200 | 598,200 | 1,317,900 | 10.4 | 12.8 | 10.5 | |
| 3365 3366 | Aluminum foundries | 879 440 | 35,879 23,689 | 84,672 44,381 | 23,600 9,000 | 980,700 353,100 | 1,919,100 677,800 | 3.7 4.9 | 3.7 6.7 | 4.4 6.5 | |
| 3369 | Nonferrous foundries, nec | 377 | 18,412 | 36,828 | 5,200 | 289,500 | 465,000 | 7.3 | 6.4 | 7.9 | |
| 339 3398 | Miscellaneous primary metal products | 3,005 619 | 352,372 54,553 | 672,844 70,710 | 34,200 20,500 | 2,155,300 1,274,000 | 3,738,800 1,871,700 | 8.8 3.0 | 16.3 4.3 | 18.0 3.8 | |
| 3399 | Primary metal products, nec | 2,386 | 297,819 | 602,134 | 13,700 | 881,300 | 1,867,100 | 17.4 | 33.8 | 32.3 | |
| 34 341 | Fabricated metal products | 93,300 | 6,350,246 | 13,973,579 | 1,438,700 43,100 | 79,951,900 4,090,500 | 163,052,800 13,555,700 | 6.5 | 7.9 | 8.6 | |
| 3411 | Metal cans | į | (D) | (D) | 35,900 | 3,668,400 | 12,342,400 | (D) | (D) | (D) | |
| 3412 342 | Metal barrels, drums, and pails Cutlery, handtools, and hardware | 7,490 | 520,445 | 880,277 | 7,200 139,000 | 422,100 8,504,200 | 1,213,300 14,666,300 | 5.4 | 6.1 | 6.0 | |
| 3421 3423 | Cutlery Hand and edge tools, nec | E G | (D) | (D) | 10,900 40,600 | 977,800 2,392,800 | 1,320,500 3,966,700 | (D) | (D) | (D) (D) | |
| 3425 | Saw blades and handsaws | 199 | 11,253 | 19,052 | 8,700 | 540,300 | 916,800 | (D) 2.3 | ` ź.1 | 2.1 | |
| 3429 343 | Hardware, nec | 5,804 893 | 370,289 43,752 | 646,714 91,560 | 78,800 43,400 | 4,593,300 3,079,500 | 8,462,300 5,897,200 | 7.4 2.1 | 8.1 1.4 | 7.6 1.6 | |
| 3431 3432 | Metal sanitary ware | C | (D) | (D) | 7,700 17,300 | 524,800 | 980,000 2,749,900 | (D) | (D) (D) | (D) (D) | |
| 3433 | Plumbing fixture fittings and trim | 617 | 34,384 | 71,294 | 18,400 | 1,400,100 1,154,600 | 2,167,400 | (D) 3.4 | ` 3.0 | 3.3 | |
| 344 3441 | Fabricated structural metal products | 29,974 3,542 | 1,759,842 196,117 | 3,963,428 456,577 | 405,900 82,700 | 19,934,500 4,035,400 | 44,936,100 9,788,100 | 7.4 4.3 | 8.8 4.9 | 8.8 4.7 | |
| 3442 | Metal doors, sash, and trim | 5,478 | 279,379 | 648,667 | 72,200 | 3,053,500 | 6,981,500 | 7.6 | 9.1 | 9.3 | |
| 3443 3444 | Fabricated plate work (boiler shops) | 9,865 3,743 | 623,795 255,366 | 1,146,070 718,505 | 76,100 99,100 | 4,198,500 4,867,400 | 8,653,700 10,249,100 | 13.0 3.8 | 14.9 5.2 | 13.2 7.0 | |
| 3446 3448 | Architectural metal work | 1,796 4,682 | 80,549 264,414 | 142,548 683,464 | 30,000 22,800 | 1,350,800 1,183,000 | 2,492,900 2,984,100 | 6.0 20.5 | 6.0 22.4 | 5.7 22.9 | |
| 3449 345 | Miscellaneous metal work | 868 | 60,222 | 167,597 | 23,000 | 1,245,900 | 3,786,800 | 3.8 | 4.8 | 4.4 (D) | |
| 3451 | Screw machine products, bolts, etc | H F | | (D) | 95,200 42,400 | 5,150,400 1,956,000 | 8,723,000 3,034,400 | (D) | (D) | (D) | |
| 3452 346 | Bolts, nuts, rivets, and washers | H 12,364 | (^D) 779,611 | (Þ) 1.671.569 | 52,800 249,000 | 3,194,400 13.665.600 | 5,688,600 29,662,800 | (D) 5.0 | (^D) 5.7 | (^D) 5.6 | |
| 3462 | Iron and steel forgings | 1,026 | 66,069 | 141,519 | 28,400 | 1,764,900 | 3,858,800 | 3.6 | 27 | 3.7 | |
| 3463 3465 | Nonferrous forgings | 7,486 | 499,953 | 998,998 | 7,200 110,600 | 495,200 6,300,200 | 1,159,100 14,544,500 | 6.8 | (P) 7.9 | (^D) 6.9 | |
| 3466 3469 | Crowns and closures | F 2.645 | (D) 140,343 | (D) 345,992 | 4,400 98.400 | 358,200 4,747,300 | 720,200 9,380,200 | (D) 2.7 | (^D) 3.0 | (D) 3.7 | |
| 347 | Metal services, nec | 2,818 | 139,431 | 300,355 | 117,400 | 5,410,300 | 9,441,900 | 2.4 | 2.6 | 3.2 | |
| 3471 3479 | Plating and polishing Metal coating and allied services | 1,766 1,052 | 80,996 58,435 | 150,156 150,199 | 73,200 44,300 | 2,981,000 2,429,300 | 4,513,300 4,928,700 | 2.4 2.4 | 2.7 2.4 | 3.3 3.0 | |
| 348 3482 | Ordnance and accessories, nec | 8,880 F | 627,458 | 875,955 | 70,500 8,500 | 4,741,100 535,900 | 6,725,100 844,100 | 12.6 (^D) | 13.2 (^D) | 13.0 (^D) | |
| 3483 3484 | Ammunition, except for small arms, nec | 3,229 4,152 | 224,824 | 332,965 | 27,100 12,500 | 1,908,900 | 3,128,600 | 11.9 33.2 | 11.8 | 10.6 | |
| 3489 | Small arms Ordnance and accessories, nec | F | 311,061 (^D) | 376,861 (^D) | 22,400 | 859,900 1,436,400 | 1,108,800 1,643,600 | (D) 7.1 | (D) 8.9 | 34.0 (^D) | |
| 349 3491 | Miscellaneous fabricated metal products | 19,488 3,772 | 1,365,184 308,526 | 2,903,330 516,548 | 275,100 46,400 | 15,375,700 3,385,500 | 29,444,700 5,745,400 | 7.1 8.1 | 8.9 9.1 | 9.9 9.0 | |
| 3492 | Fluid power valves and hose fittings | 2,773 | 163.642 | 291,756 | 30,900 | 1,913,600 | 3,322,800 | 9.0 | 8.6 | 8.8 | |
| 3493 3494 | Steel springs, except wire | 658 1,961 | 41,082 138,061 | 91,764 218,489 | 6,100 26,000 | 286,400 1,535,800 | 524,700 2,924,000 | 10.8 7.5 | 14.3 9.0 | 17.5 7.5 | |
| 3495 3496 | Wire springs | 752 1,127 | 47,549 76,025 | 94,747 177,381 | 20,100 33,200 | 974,700 1,552,100 | 1,843,900 2,999,700 | 3.7 3.4 | 4.9 4.9 | 5.1 5.9 | |
| 3497 | Metal foil and leaf | 2,971 | 233,451 | 773,891 | 10,600 | 938,400 | 2,845,800 | 28.0 | 24.9 | 27.2 | |
| 3498 3499 | Fabricated pipe and fittings | 1,318 4,156 | 82,758 274,090 | 173,957 564,797 | 21,900 80,000 | 1,027,000 3,762,300 | 2,333,800 6,904,600 | 6.0 5.2 | 8.1 7.3 | 7.5 8.2 | |
| 35 | Industrial machinery and equipment | 191,440 | 13,561,697 | 31,010,583 | 1,876,700 | 132,165,800 | 256,344,700 | 10.2 | 10.3 | 12.1 | |
| 351 | Engines and turbines | 16,390 | 1,112,504 | 3,116,038 | 83,200 | 7,159,000 | 16,580,900 | 19.7 | 15.5 (^D) | 18.8 | |
| 3511 3519 | Turbines and turbine generator sets | G J | (D) | (D) | 21,900 61,300 | 2,259,200 4,899,800 | 4,356,700 12,224,200 | (D) | (D) | (D) (D) | |
| 352 3523 | Farm and garden machinery Farm machinery and equipment | 12,375 3,120 | 835,435 203,438 | 2,111,956 402,467 | 94,100 69,600 | 7,985,000 5,978,500 | 16,456,200 11,546,200 | 13.2 4.5 | 10.5 3.4 | 12.8 3.5 | |
| 3524 | Lawn and garden equipment | 9,255 | 631,997 | 1,709,489 | 24,500 | 2,006,500 | 4,910,000 | 37.8 | 31.5 | 34.8 | |
| 353 3531 | Construction and related machinery | 27,880 11,704 | 1,598,623 732,113 | 4,021,136 1,908,758 | 202,700 89,900 | 13,928,000 6,797,300 | 30,696,600 16,069,600 | 13.8 13.0 | 11.5 10.8 | 13.1 11.9 | |
| 3532 3533 | Mining machinery Oil and gas field machinery | 3,171 3,705 | 192,219 201,485 | 461,029 467,686 | 15,500 27,200 | 912,800 2,040,900 | 1,865,500 3,634,700 | 20.5 13.6 | 21.1 9.9 | 24.7 12.9 | |
| 3534 3535 | Elevators and moving stairways | 5,025 | (P) 276,854 | (P) 605,623 | 9,200 | 556,500 | 1,343,100 | (^D) | (^D) 13.4 | (^D) | |
| 3535 | Conveyors and conveying equipment | 5,025 F | (D) | (D) | 32,900 7,900 | 2,066,300 517,500 | 4,089,900 966,400 | (D) | (D) | (D) | |

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| by Detailed Industry, 1990—Continued | | | | | | | | | | |
|--------------------------------------|------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------|-------------------------------|----------------------------------|-----------------------------------------|------------------------------------|--------------------------|---------------------------------------|--------------------------|
| | | For | preign-owned establishments All U.S. establishments | | ts | | ned establishm of all U.S. esta | | | |
| SIC | la divete. | | Thousands | of dollars | | Thousands | of dollars | percentage | | ablishments |
| code | Industry | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | Value added by manufac- ture | Value of shipments |
| 3537 | Industrial trucks and tractors | 2,383 | 115,580 | 291,798 | 20,100 | 1,036,700 | 2,727,500 | 11.9 | 11.1 | 10.7 |
| 354 3541 | Metalworking machinery | 19,092 2,062 | 1,394,423 171,141 | 2,725,415 443,218 | 280,800 30,300 | 16,515,600 1,890,300 | 27,035,200 3,606,800 | 6.8 6.8 | 8.4 9.1 | 10.1 12.3 |
| 3542 3543 | Machine tools, metal forming types | 1,883 F | 96,304 (D) | 256,698 (D) | 14,600 8,100 | 853,800 396,600 | 1,652,700 534,300 | 12.9 (D) | 11.3 | 15.5 (D) |
| 3544 | Special dies, tools, jigs and fixtures | 2,608 | 184,990 | 362,528 | 119,800 | 6,525,400 | 9,487,200 | (D) 2.2 | (D) 2.8 | (D) 3.8 |
| 3545 3546 | Machine tool accessories | 4,849 3,110 | 344,150 230,447 | 518,199 573,896 | 55,200 18,300 | 3,072,400 1,471,800 | 4,550,400 2,805,800 | 17.0 | 15.7 | 20.5 |
| 3547 3548 | Rolling mill machinery | A 2,678 | (D) 267,392 | (D) 407,136 | 3,800 19,200 | 173,300 1,457,000 | 483,400 2,683,600 | (^D) 13.9 | (^D) 18.4 | (^D) 15.2 |
| 3549 | Metalworking machinery, nec | F | (D) | (D) | 11,700 | 675,100 | 1,231,100 | (D) | (D) | (D) |
| 355 3552 | Special industry machinery Textile machinery | 24,212 G | 1,734,560 | 3,800,482 (D) | 172,300 16,000 | 11,002,600 814,900 | 21,258,400 1,505,100 | 14.1 (^D) | 15.8 (^D) | 17.9 (D) |
| 3553 3554 | Woodworking machinery | B 7,475 | (D) 434,247 | (Þ) 1,362,140 | 7,800 20,300 | 477,400 1,118,700 | 936,600 | (D) (D) 36.8 | (D) 38.8 | (Þ) 49.2 |
| 3555 | Paper industries machinery Printing trades machinery | 4,104 | 452,470 | 794,591 | 25,000 | 1,808,200 | 2,770,400 3,538,200 | 16.4 | 25.0 | 22.5 |
| 3556 3559 | Food products machinery | 4,258 6,885 | 297,397 454,441 | 525,508 921,544 | 19,000 84,200 | 1,266,300 5,517,000 | 2,260,900 10,247,100 | 22.4 8.2 | 23.5 8.2 | 23.2 9.0 |
| 356 | General industrial machinery | 31,198 4,196 | 2,208,830 | 4,090,152 | 260,100 37,400 | 16,811,000 | 30,338,800 | 12.0 11.2 | 13.1 8.1 | 13.5 9.5 |
| 3561 3562 | Pumps and pumping equipment | 10,717 | 206,436 719,562 | 459,482 1,254,013 | 39,000 | 2,552,800 2,481,700 | 4,830,300 4,306,300 | 27.5 | 29.0 | 29.1 |
| 3563 3564 | Air and gas compressors | 1,174 3,980 | 119,325 257,166 | 377,131 508,765 | 24,500 27,700 | 1,769,900 1,519,600 | 3,806,900 2,850,100 | 4.8 14.4 | 6.7 16.9 | 9.9 17.9 |
| 3565 | Packaging machinery | 2,931 | 231,718 | 339,278 | 23,500 | 1.735.400 | 2,762,200 | 12.5 | 13.4 | 12.3 |
| 3566 3567 | Speed changers, drives, and gears | 1,165 905 | 84,437 66,086 | 134,194 125,897 | 18,400 18,900 | 1,353,000 902,500 | 2,055,700 1,766,100 | 6.3 4.8 | 6.2 7.3 | 6.5 7.1 |
| 3568 3569 | Power transmission equipment, nec | 1,225 4,905 | 103,237 420,863 | 153,139 738,253 | 23,700 47,000 | 1,503,300 2,992,800 | 2,596,500 5,364,700 | 5.2 10.4 | 6.9 14.1 | 5.9 13.8 |
| 357 | Computer and office equipment | 30,831 | 2,913,058 | 7,115,958 | 287,700 | 31,283,300 | 64,073,300 | 10.7 | 9.3 | 11.1 |
| 3571 3572 | Electronic computers Computer storage devices | 16,459 2,357 | 1,834,287 203,435 | 4,529,638 496,052 | 134,100 42,600 | 19,666,300 4,359,000 | 39,293,600 8,751,100 | 12.3 5.5 | 9.3 4.7 | 11.5 5.7 |
| 3575 3577 | Computer terminals Computer peripheral equipment, nec | G 5,873 | (D) 416,633 | (^D) | 12,100 59,100 | 728,500 3,923,000 | 1,790,000 9,146,300 | (^D) 9.9 | (^D) 10.6 | (^D) 12.8 |
| 3578 | Calculating and accounting equipment | F | (D) | (D) | 7,400 | 620,400 | 1,170,200 | (D) | (D) | (D) |
| 3579 358 | Office machines, nec | 4,507 18,237 | 323,078 1,042,239 | 568,349 2,753,038 | 32,500 186,000 | 1,986,200 12,158,500 | 3,922,100 26,218,200 | 13.9 9.8 | 16.3 8.6 | 14.5 10.5 |
| 3581 3582 | Automatic vending machines | F | (D) | (D) | 7,400 5,200 | 338,100 240,400 | 741,700 526,600 | (D) (D) | (D) (D) | (D) (D) |
| 3585 | Commercial laundry equipment | 12,482 | 643,108 | 1,969,831 | 126,900 | 8,339,500 | 19,043,200 | 9.8 | ` 7 7 | 10.3 |
| 3586 3589 | Measuring and dispensing pumps | G 2,542 | 208,850 | (^D) 390,279 | 8,000 38,600 | 519,100 2,721,400 | 1,029,500 4,877,200 | (D) 6.6 | (D) 7.7 | (^D) 8.0 |
| 359 3592 | Industrial machinery, nec | 11,225 | 722,025 | 1,276,408 | 309,600 | 15,322,800 | 23,687,100 | 3.6 | 4.7 | 5.4 14.2 |
| 3593 | Carburetors, pistons, rings, valvesFluid power cylinders and actuators | 3,372 1,344 | 142,034 90,006 | 289,111 160,152 | 20,600 20,700 | 1,045,800 1,195,300 | 2,042,400 1,981,900 | 16.4 6.5 | 13.6 7.5 | 8.1 |
| 3594 3596 | Fluid power pumps and motors | 2,171 1,782 | 196,397 136,089 | 320,944 257,590 | 14,900 6,300 | 1,004,100 336,400 | 1,798,600 680,000 | 14.6 28.3 | 19.6 40.5 | 17.8 37.9 |
| 3599 | Industrial machinery, nec | 2,556 | 157,499 | 248,611 | 247,200 | 11,741,200 | 17,184,100 | 1.0 | 1.3 | 1.4 |
| 36 | Electronic and other electric equipment | 228,237 | 16,703,246 | 34,601,773 | 1,497,400 | 106,983,900 | 194,847,900 | 15.2 | 15.6 | 17.8 |
| 361 3612 | Electric distribution equipment Transformers, except electronic | 15,390 | 1,075,338 | 2,305,772 (D) | 75,100 32,800 | 5,206,700 1,892,300 | 9,728,600 4,177,800 | 20.5 (D) | 20.7 (D) | 23.7 (^D) |
| 3613 362 | Switchgear and switchboard apparatus | 22.242 | (D) 1,426,822 | (D) | 42,300 | 3,314,400 | 5,550,800 | (D) (D) 13.8 | (D) | (Þ) 14.3 |
| 3621 | Electrical industrial apparatus | 22,343 11,175 | 592,403 | 2,588,408 1,158,605 | 161,900 72,600 | 10,126,800 4,005,300 | 18,158,700 7,672,200 | 15.4 | 14.1 14.8 | 15.1 |
| 3624 3625 | Carbon and graphite products | 2,338 6,485 | 133,675 500,490 | 256,027 832,448 | 8,600 66,000 | 586,800 4,688,400 | 1,166,900 7,854,200 | 27.2 9.8 | 22.8 10.7 | 21.9 10.6 |
| 3629 | Electrical industrial apparatus, nec | 2.345 | 200,254 | 341,328 | 14,600 | 846,300 | 1,465,400 | 16.1 | 23.7 | 23.3 |
| 363 3631 | Household appliances | 19,287 H | 1,131,593 (^D) | 2,666,319 (^D) | 110,500 19,200 | 7,835,900 1,138,900 | 18,069,000 2,994,000 | 17.5 (D) (D) | 14.4 (^D) | 14.8 (^D) |
| 3632 3633 | Household refrigerators and freezers | H G | (D) | (D) | 23,600 16,100 | 1,464,300 1,543,100 | 3,799,800 3,234,400 | (D) | (D) (D) | (D) (D) |
| 3634 | Electric housewares and fans | H | (D) | (D) | 24,900 | 1,425,000 | 3,055,900 | (D) | (D) | (D) |
| 3635 3639 | Household vacuum cleaners | 4,270 H | 272,025 (D) | 483,156 (^D) | 12,400 14,200 | 997,800 1,266,900 | 1,860,100 3,124,900 | 34.4 (^D) | 27.3 (^D) | 26.0 (P) |
| 364 3641 | Electric lighting and wiring equipment Electric lamps | 15,332 H | 983,402 (D) | 1,817,322 (D) | 156,600 19,800 | 10,768,500 1,862,500 | 19,322,300 2,830,900 | 9.8 (^D) | 9.1 (^D) | 9.4 (P) |
| 3643 | Current-carrying wiring devices | 2,898 | 129,383 | 231,081 | 44,100 | 2,642,100 | 4,404,000 | 6.6 | ` 4.9 | ` 5.2 |
| 3644 3645 | Noncurrent-carrying wiring devices | 793 1,939 | 73,858 95,361 | 126,128 180,434 | 22,600 17,800 | 1,919,500 826,000 | 3,346,100 1,561,300 | 3.5 10.9 | 3.8 11.5 | 3.8 11.6 |
| 3646 3647 | Commercial lighting fixtures | G 1,611 | (D) 106,561 | (D) 201,219 | 23,000 14,900 | 1,609,800 1,025,100 | 3,208,900 2,121,700 | (^D) 10.8 | (^D) 10.4 | (^D) 9.5 |
| 3648 | Lighting equipment, nec | 1,697 | 89,390 | 194,671 | 14.500 | 883,600 | 1,849,500 | 11.7 | 10.1 | 10.5 |
| 365 3651 | Household audio and video equipment | 19,299 13,038 | 1,664,553 923,399 | 5,924,331 4,924,250 | 44,700 30,800 | 3,150,000 1,892,000 | 9,376,700 7,520,500 | 43.2 42.3 | 52.8 48.8 | 63.2 65.5 |
| 3652 366 | Prerecorded records and tapes | 6,261 36,028 | 741,154 3,279,104 | 1,000,081 6,524,868 | 13,900 250,400 | 1,257,900 22,349,700 | 1,856,100 38,451,700 | 45.0 14.4 | 58.9 14.7 | 53.9 17.0 |
| 3661 | Telephone and telegraph apparatus | 17,726 | 1,991,593 | 3,778,517 | 92,700 | 9,619,400 | 17,297,300 | 19.1 | 20.7 | 21.8 |
| 3663 3669 | Radio and television communications equipment | 13,338 4,964 | 953,866 333,645 | 2,140,417 605,934 | 135,400 22,400 | 11,278,000 1,452,300 | 18,759,300 2,395,100 | 9.9 22.2 | 8.5 23.0 | 11.4 25.3 |
| 367 3671 | Electronic components and accessories | 74,588 7,508 | 5,484,636 500,498 | 8,944,169 1,096,153 | 535,900 23,400 | 37,270,000 1,317,800 | 60,844,000 2,570,400 | 13.9 32.1 | 14.7 38.0 | 14.7 42.6 |
| 3672 | Printed circuit boards | 3,325 | 173,596 | 316,281 | 76,700 | 4,997,200 | 7,844,100 | 4.3 | 3.5 | 4.0 |
| 3674 3675 | Semiconductors and related devices | 34,660 6,098 | 3,340,139 293,898 | 4,927,774 535,530 | 181,800 19,500 | 17,855,500 848,500 | 25,977,300 1,471,600 | 19.1 31.3 | 18.7 34.6 | 19.0 36.4 |
| 3676 | Electronic resistors | 4,549 550 | 173,124 | 317,477 | 14,400 | 535,400 | 862,700 | 31.6 2.4 | 32.3 4.9 | 36.8 |
| 3677 3678 | Electronic coils and transformers Electronic connectors | 3,736 | 29,169 311,131 | 41,819 446,049 | 22,800 37,400 | 599,100 2,389,300 | 1,074,600 3,820,900 | 10.0 | 13.0 | 3.9 11.7 |
| 3679 369 | Electronic components, nec | 14,162 25,970 | 663,081 1,657,798 | 1,263,086 3,830,584 | 159,900 162,200 | 8,727,100 10,276,300 | 17,222,400 20,897,000 | 8.9 16.0 | 7.6 16.1 | 7.3 18.3 |
| 3691 | Storage batteries | 3,671 | 268,456 | 649,835 | 23,100 | 1,718,800 | 3,625,800 | 15.9 | 15.6 | 17.9 |
| 3692 3694 | Primary batteries, dry and wet Engine electrical equipment | 1,690 1,606 | 64,619 86,517 | 161,492 239,178 | 10,600 46,100 | 761,900 2,846,700 | 1,580,300 5,810,500 | 15.9 3.5 | 8.5 3.0 | 10.2 4.1 |
| 3695 3699 | Magnetic and optical recording media Electrical equipment and supplies, nec | 7,779 11,224 | 534,811 703,395 | 1,726,704 1,053,375 | 24,000 58,400 | 1,675,600 3,273,300 | 4,032,100 5,848,300 | 32.4 19.2 | 31.9 21.5 | 42.8 18.0 |
| | | | · . | 28,834,909 | 1,773,700 | 146,916,300 | 367,926,700 | | 4.9 | |
| 37 371 | Transportation equipment | 104,147 73,413 | 7,170,588 5,436,606 | 25,011,828 | 704,400 | 69,648,700 | 214,963,800 | 5.9 10.4 | 7.8 | 7.8 11.6 |
| 3711 | Motor vehicles and car bodies | 32,296 | 3,183,878 | 18,123,409 | 239,500 | 39,504,400 l | 140,417,000 | l 13.5 | 8.1 | 12.9 |

Table 14.—Employment, Value Added by Manufacture, and Value of Shipments of Foreign-Owned and All U.S. Establishments, by Detailed Industry, 1990—Continued

| | | Foreign-owned establishments | | | Foreign-owned establishments as a percentage of all U.S. establishments | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SIC | | | Thousands | of dollars | | Thousands | of dollars | percentage | | ablishments |
| code | Industry | Number of employees | Value added by manufacture | Value of shipments | Number of employees ¹ | Value added by manufacture ¹ | Value of shipments ² | Employ- ment | Value added by manufac- ture | Value of shipments |
| 3713 3714 3715 3716 372 3721 3724 3728 | Truck and bus bodies Motor vehicle parts and accessories Truck trailers Motor homes Aircraft and parts Aircraft Aircraft engines and engine parts Aircraft parts and equipment, nec | G 39,230 C 0 18,928 4,945 3,013 10,970 | (P) 2,123,952 (P) 0 985,449 243,878 186,076 555,495 | (P) 6,563,321 (P) 0 2,223,467 746,741 397,010 1,079,716 | 37,200 388,700 24,800 14,100 615,700 289,300 129,000 197,500 | 1,809,300 26,871,400 869,000 594,500 44,903,200 20,235,400 12,059,100 12,608,700 | 4,382,200 64,875,400 3,122,000 2,167,200 94,640,200 51,369,600 22,812,800 20,457,900 | (D) 10.1 (D) 0 3.1 1.7 2.3 5.6 | (D) 7.9 (D) 0 2.2 1.2 1.5 4.4 | (D) 10.1 (D) 0 2.3 1.5 1.7 5.3 |
| 373 3731 3732 374 3743 375 3751 376 3761 3764 3769 3792 3795 3799 | Ship and boat building and repairing Ship building and repairing Boat building and repairing Railroad equipment Railroad equipment Motorcycles, bicycles, and parts Motorcycles, bicycles, and parts Guided missiles and space vehicles Space propulsion units and parts Space vehicle equipment, nec Miscellaneous transportation equipment Travel trailers and campers Tanks and tank components Transportation equipment, nec | 5,993 GH 2,312 2,312 FF G 0 0 G G G | 292,752 (P) 225,809 225,809 (P) (P) (P) (P) (P) (P) | 590,271 (P) (P) (2) 339,421 339,421 (P) (P) (P) 0 (P) 0 (P) | 175,200 121,200 54,100 29,500 9,400 9,400 20,300 156,200 29,700 14,400 39,100 13,800 9,300 16,000 | 8,554,700 6,362,800 2,191,800 1,839,200 570,800 19,224,300 2,412,000 1,089,700 622,800 694,500 798,300 | 15,853,700 10,855,700 4,998,000 4,693,600 4,693,600 1,475,800 30,554,100 25,082,600 3,755,800 1,7715,600 1,657,500 1,867,500 2,241,500 | 3.4 (P) (P) 7.8 7.8 (P) | 3.4 (P) (P) 12.3 12.3 (P) (P) (P) (P) (P) (P) | 3.7 (P) |
| 38 381 3812 3822 3823 3824 3825 3826 3827 3829 384 3841 3843 3843 385 385 385 3861 3873 | Instruments and related products Search and navigation equipment Search and navigation equipment Measuring and controlling devices Laboratory apparatus and furniture Environmental controls Process control instruments Fluid meters and counting devices Instruments to measure electricity Analytical instruments Optical instruments and lenses Measuring and controlling devices, nec Medical instruments and supplies Surgical and medical instruments Surgical and medical instruments Surgical appliances and supplies Dental equipment and supplies Dental equipment and supplies X-ray apparatus and tubes Electromedical equipment Ophthalmic goods Ophthalmic goods Photographic equipment and supplies Watches, clocks, watchcases, and parts Watches, clocks, watchcases, and parts | 121,520 19,160 19,160 3,290 7,702 13,410 3,130 10,806 5,648 3,027 6,487 29,530 11,597 7,931 1,078 2,895 6,029 7,861 7,861 7,861 7,861 7,861 7,861 7,861 7,861 7,861 7,861 7,861 | 9,722,110 1,433,915 1,433,915 3,679,493 333,003 404,098 791,866 260,544 744,956 491,886 160,220 492,920 2,573,803 1,027,510 697,422 77,419 202,729 568,703 480,831 480,831 480,831 1,360,864 1,360,864 1,360,864 | 15,840,686 2,094,047 2,094,047 6,037,558 506,393 669,225 1,379,551 440,090 1,125,640 822,932 299,938 793,789 4,262,668 1,554,613 1,174,739 145,358 902,952 633,762 633,762 633,762 2,400,481 2,400,481 4,21,170 | 948,600 313,600 313,600 283,600 17,800 26,100 54,700 10,400 78,400 37,800 22,000 36,300 234,700 88,900 86,600 12,900 23,300 24,700 28,000 28,000 29,300 29,300 29,300 29,300 29,300 29,300 29,400 | 81,665,600 24,931,900 24,931,900 19,629,200 1,209,700 1,461,600 3,764,700 97,6700 5,352,400 3,018,700 2,518,700 20,286,300 7,077,500 7,163,100 1,495,800 1,625,600 1,625,600 1,625,600 14,527,200 665,400 665,400 | 123,776,700 36,733,500 36,733,500 31,455,800 1,916,700 2,396,000 5,924,000 1,665,900 4,906,100 2,217,700 4,039,700 10,261,600 11,127,600 2,576,500 2,274,700 2,274,700 2,274,700 2,274,700 2,1018,200 21,018,200 1,360,200 | 12.8 6.1 18.9 18.5 29.5 24.5 30.1 13.8 14.9 12.6 13.0 9.2 28.1 28.1 28.1 11.9 11.9 21.4 | 11.9 5.8 5.8 18.7 27.5 27.6 21.0 26.7 13.9 16.3 12.1 19.6 12.7 14.5 9.7 13.6 29.6 29.6 29.6 29.0 | 12.8 5.7 5.7 19.2 26.4 27.9 23.3 26.4 13.4 16.8 13.5 19.7 13.8 15.2 10.6 9.9 19.2 27.9 27.9 27.9 11.4 11.4 30.3 30.3 |
| 39 391 3911 3914 3915 393 3931 394 3949 395 3951 3952 3953 3965 3961 3993 3995 3993 | Miscellaneous manufacturing industries Jewelry, silverware, and plated ware Jewelry, precious metal Silverware and plated ware Jewelers' materials and lapidary work Musical instruments Musical instruments Toys and sporting goods Dolls and stuffed toys Games, toys, and children's vehicles Sporting and athletic goods, nec Pens, pencils, office, and art supplies Pens and mechanical pencils Lead pencils and art goods Marking devices Carbon paper and inked ribbons Costume jewelry and notions Costume jewelry and notions Costume jewelry Fasteners, buttons, needles, and pins Miscellaneous manufactures Brooms and brushes Signs and advertising specialties Burial caskets Hard surface floor coverings, nec Manufacturing industries, nec | 26,087 1,138 E F F,1545 10,644 E H H 5,842 3,397 1,584 G O E 2,636 6,727 E G G G 4,248 | 1,929,276 54,025 (P) (P) (P) (P) 79,949 899,270 (P) (P) 465,662 219,327 98,523 (P) 0 144,693 532,012 (P) | 3,553,235 109,874 (P) (P) (P) 130,485 130,485 1,659,072 (P) 883,445 484,349 239,000 (P) 251,301 918,154 (P) (P) (P) (P) (P) (P) (P) (P) | 386,300 49,100 35,600 7,300 6,200 11,700 93,600 27,900 27,900 9,600 9,600 7,700 19,200 19,200 18,200 19,200 168,800 7,710 68,000 68,500 | 20,095,600 2,590,700 1,869,400 462,300 259,000 547,700 5,919,600 244,100 1,911,800,000 682,400 407,200 295,200 1,363,500 471,100 7,894,100 7,31,000 2,613,800 7,793,200 3,176,200 | 37,205,200 5,754,200 4,180,100 751,900 822,200 872,900 11,043,600 380,400 3,622,900 1,205,800 745,900 485,600 872,700 2,222,900 1,415,770 807,200 14,001,600 1,221,800 4,826,500 1,033,500 1,377,300 5,482,400 | 6.8 2.3 (P) (P) (P) (P) (P) 13.2 13.2 10.8 (P) (P) 0 (P) 9.3 29.3 4.0 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) | 9.6 2.1 (P) (P) (P) (P) 14.6 15.2 (P) (P) (P) 12.4 12.3 14.4 (P) (P) 10.6 0 30.7 6.7 (P) (P) (P) | 9.6 1.9 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P) |
| | Administrative and auxiliary | 200,064 | n.a. | n.a. | 1,260,900 | n.a. | n.a. | 15.9 | n.a. | n.a. |

^D Suppressed to avoid disclosure of data of individual companies.

na. Not available.

1. The data shown in this column are rounded to the nearest 100 employees because they are rounded in this manner in the Census Bureau's 1990 Annual Survey of Manufactures: Statistics for Industry Groups and Industries, from which they were taken.

2. The data shown in this column are rounded to the nearest \$100,000 because they are rounded in this manner in the Census Bureau's 1990 Annual Survey of Manufactures: Statistics for Industry Groups and Industries, from

which they were taken.

A. On this line, the columns for number of employees cover both operating establishments and administrative and auxiliary establishments; the other columns cover operating establishments only.

NOTE.—Size ranges are given in employment cells that are suppressed. The size ranges are: A—0 to 19; B—20 to 99; C—100 to 249; E—250 to 499; F—500 to 999; G—1,000 to 24,99; H—2,500 to 4,999; I—5,000 to 9,999; J—10,000 to 24,999; H—25,000 to 49,999; L—50,000 to 99,999; M—100,000 or more.

SIC Standard Industrial Classification

1994 Release Dates for BEA Estimates

| Subject | Relea Date | | Subject | Relea Date | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|
| State Personal Income, 3d quarter 1993 | Jan. | 20 | Composite Indexes of Leading, Coincident, and Lagging | July | 1 |
| Gross Domestic Product, 4th quarter 1993 (advance) Personal Income and Outlays, December 1993 | Jan. Jan. | 28 31 | Indicators, May 1994. U.S. International Trade in Goods and Services, | † July | 19 |
| Composite Indexes of Leading, Coincident, and Lagging Indicators, December 1993. | Feb. | 2 | May 1994. State Personal Income, 1st quarter 1994 Gross Domestic Product, 2d quarter 1994 (advance) | | 20 29 |
| Gross Domestic Product, 4th quarter 1993 (preliminary) . Personal Income and Outlays, January 1994 Merchandise Trade (balance of payments basis), | Mar. Mar. Mar. | 1 2 2 | Personal Income and Outlays, June 1994 | Aug. Aug. | 1 3 |
| 4th quarter 1993. Composite Indexes of Leading, Coincident, and Lagging Indicators, January 1994. | Mar. | 4 | Gross State Product by Industry, 1991 | Aug. † Aug. | 4 18 |
| Summary of International Transactions, 4th quarter 1993. U.S. International Trade in Goods and Services, January 1994. Gross Domestic Product, 4th quarter 1993 (final) | † Mar. | 15 22 31 | State Per Capita Personal Income, 1993 (revised) | Aug. Aug. | 23 26 26 29 |
| Corporate Profits, 4th quarter 1993 (preliminary) | | 31 | Composite Indexes of Leading, Coincident, and Lagging Indicators, July 1994. | Aug. | 31 |
| Personal Income and Outlays, February 1994 | Apr. Apr. | 1 5 | Summary of International Transactions, 2d quarter 1994 . U.S. International Trade in Goods and Services, July 1994. | Sept. † Sept. | 13 20 |
| U.S. International Trade in Goods and Services, February 1994. | † Apr. | 19 | Gross Domestic Product, 2d quarter 1994 (final) | | 29 29 |
| State Personal Income, 4th quarter 1993 and Per Capita Personal Income, 1993 (preliminary) | Apr. | 27 | Personal Income and Outlays, August 1994 | Sept. | 30 |
| Gross Domestic Product, 1st quarter 1994 (advance) Corporate Profits, 4th quarter 1993 (revised) | | 28 28 | Composite Indexes of Leading, Coincident, and Lagging Indicators, August 1994. | Oct. | 4 |
| Personal Income and Outlays, March 1994 | Apr. | 29 | U.S. International Trade in Goods and Services, August 1994. | † Oct. | 19 |
| Composite Indexes of Leading, Coincident, and Lagging Indicators, March 1994. | May | 3 | State Personal Income, 2d quarter 1994 | Oct. | 20 28 31 |
| Metropolitan Area Personal Income, 1992 | May † May | 5 19 | Personal Income and Outlays, September 1994 Composite Indexes of Leading, Coincident, and Lagging | Nov. | 2 |
| March 1994. Gross Domestic Product, 1st quarter 1994 (preliminary) | | 27 | Indicators, September 1994 | | |
| Corporate Profits, 1st quarter 1994 (preliminary) | May | 27 31 | U.S. International Trade in Goods and Services, September 1994. | † Nov. | |
| Personal Income and Outlays, April 1994 | | | Gross Domestic Product, 3d quarter 1994 (preliminary) Corporate Profits, 3d quarter 1994 (preliminary) | | 30 30 |
| Composite Indexes of Leading, Coincident, and Lagging Indicators, April 1994. | June | 2 | Personal Income and Outlays, October 1994 Composite Indexes of Leading, Coincident, and Lagging | Dec. Dec. | 1 2 |
| Summary of International Transactions, 1st quarter 1994. U.S. International Trade in Goods and Services, April 1994. | † June | 15 21 | Indicators, October 1994. Summary of International Transactions, 3d quarter 1994. | | 14 |
| Gross Domestic Product, 1st quarter 1994 (final) Corporate Profits, 1st quarter 1994 (revised) | | 29 29 | U.S. International Trade in Goods and Services, October 1994. | † Dec. | 20 |
| Personal Income and Outlays, May 1994 | | 30 | Gross Domestic Product, 3d quarter 1994 (final) | Dec. | 22 22 23 29 |

* These are target dates and are subject to revision.

For further information, call (202) 606-9900, or write to Public Information Office (BE-53), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230.

BUSINESS CYCLE INDICATORS

| Data tables | C-1 |
|-------------------------------------|-----|
| Footnotes for pages C-1 through C-5 | C-6 |
| Charts | C-7 |

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Current and historical data for the series shown in the C-pages are available on diskettes, printouts, and the Commerce Department's Economic Bulletin Board. For more information, contact the Business Cycle Indicators Branch, Business Outlook Division (BE-52), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. (Telephone: (202) 606-5366; fax: (202) 606-5313.)

Note.—This section of the Survey is prepared by the Business Cycle Indicators Branch.

| Series | Coring title and timing elegations | Year | 19 | 92 | | | | | | 199 |)3 | | | | | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|------------------------------|--------------------------------------------|----------------------------------------|-----------------------------------------------------|
| no. | Series title and timing classification | 1993 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | | | | 1. COM | POSITE | INDEXE | S | | | | | | | | |
| | The Leading Index | | | | | | | | | | | | | | | |
| 910 ♦ | Composite index of leading indicators, 1987=100 (L,L,L) Percent change from previous month Percent change over 3-month span, AR | 98.7 .1 | 98.2 .2 5.9 | 99.2 1.0 3.7 | 98.9 3 3.7 | 99.1 .2 -3.2 | 98.4 7 -2.0 | 98.4 0 -4.0 | 98.1 3 -1.2 | 98.1 0 -2.0 | 97.9 2 ^r .8 | r 98.3 r .4 2.1 | 98.6 7.3 5.0 | 99.1 .5 *5.4 | 99.6 .5 P7.1 | ^P 100.3 ^P .7 |
| 1 ♦ 5 ♦ | Leading index components: Average weekly hours, mfg. (L,L,L) Average weekly initial claims for unemployment insurance, thous. (L,C,L) 1 ± | 41.4 366 | 41.2 373 | 41.2 333 | 41.4 364 | 41.4 343 | 41.2 376 | 41.5 374 | 41.4 390 | 41.2 386 | 41.4 399 | 41.4 378 | 41.5 381 | 41.6 356 | 41.7 334 | [₽] 41.7 311 |
| 8 ♦ | Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L.L.L). | 1,304.00 | 105.60 | 110.03 | 109.30 | 109.79 | 107.23 | 106.72 | 105.54 | 106.58 | 105.35 | 106.54 | ^r 109.00 | 111.39 | ^r 112.51 | ^p 114.05 |
| 32 ♦ | Vendor performance, slower deliveries diffusion index, percent (L.L.L) * §. | 51.6 | ^r 51.2 | 51.7 | ^r 52.8 | ^r 53.0 | ^r 52.5 | [,] 53.1 | 51.7 | ^r 50.2 | ^r 50.0 | ⁷ 51.3 | 50.9 | ^r 50.7 | ^r 50.7 | 51.7 |
| 20 ♦ | Contracts and orders for plant and equipment, bil. 1987\$ (L,L,L). | 434.13 | 31.99 | ^r 36.87 | 32.95 | 35.87 | 33.61 | 33.68 | 33.89 | 37.90 | ^r 34.73 | ^r 36.35 | ^r 35.83 | ^r 37.72 | ^r 40.94 | P 40.66 |
| 29 ♦ | Index of new private housing units authorized by local building permits, 1967=100 (L,L,L). | 96.4 | 90.6 | 95.4 | 92.3 | 91.0 | 82.5 | 87.8 | 89.4 | 88.9 | 92.7 | 99.0 | 101.4 | 104.0 | 109.6 | 117.7 |
| 92 ♦ | Change in mfrs.' unfilled orders, durable goods, bil. 1987\$, smoothed (L,L,L) †. | -2.86 | -3.82 | -3.37 | -2.70 | -2.03 | -2.17 | -2.53 | -3.04 | -3.48 | -3.40 | -3.18 | -3.21 | -3.06 | ^r -2.85 | P −2.69 |
| 99 ♦ | Change in sensitive materials prices, percent, smoothed (L.L.L.) †. | 25 | 10 | 21 | 17 | 12 | 14 | 29 | 39 | 42 | 42 | r47 | r46 | 28 | 07 | .27 |
| 19 ♦ | (L,L,L) T. Index of stock prices, 500 common stocks, 1941-43=10, NSA (L,L,L)*. | 451.41 | 422.84 | 435.64 | 435.23 | 441.70 | 450.16 | 443.08 | 445.25 | 448.06 | 447.29 | 454.13 | 459.24 | 463.90 | 462.89 | 465.95 |
| 106 ♦ 83 ♦ | Money supply M2, bil. 1987\$ (L,L,L) Index of consumer expectations, U. of Michigan, 1966:I=100, NSA (L,L,L) © ². | 2,760.8 72.8 | 2,799.2 78.2 | 2,795.8 89.5 | 2,773.0 83.4 | 2,755.0 80.6 | ^r 2,748.7 75.8 | ^r 2,739.6 76.4 | ^r 2,758.3 68.5 | ^r 2,763.5 70.4 | ^r 2,766.1 64.7 | r 2,762.1 65.8 | ^r 2,771.6 66.8 | ^r 2,762.5 72.5 | ^r 2,765.2 70.3 | ^p 2,764.0 78.8 |
| 950 • | Diffusion index of 11 leading indicator components: Percent rising over 1-month span Percent rising over 6-month span | 55.7 | 54.5 81.8 | 77.3 72.7 | 36.4 72.7 | 59.1 45.5 | 9.1 22.7 | 54.5 31.8 | 36.4 40.9 | 54.5 54.5 | 40.9 72.7 | ^r 77.3 90.9 | r 63.6 P 95.5 | 81.8 | ⁷ 77.3 | p 77.3 |
| | The Coincident Index | | | | | | | | | | | | | | | |
| 920 ♦ | Composite index of coincident indicators, 1987=100 (C,C,C) Percent change from previous month Percent change over 3-month span, AR | 109.1 .1 | 107.4 .3 11.8 | 109.5 2.0 1.9 | 107.6 -1.7 1.9 | 107.9 .3 -5.0 | 108.1 .2 3.8 | 108.6 .5 3.4 | 108.8 .2 3.0 | 108.9 .1 *.1 | *108.8 *1 *2.2 | ′ 109.4 .6 ′ 2.6 | 7109.6 .2 4.5 | ″110.0 .4 ″4.5 | ″ 110.6 .5 ³ 5.2 | ³ 111.0 ³ .4 |
| 41 ♦ 51 ♦ | Coincident index components: Employees on nonagricultural payrolls, thous. (C,C,C) Personal income less transfer payments, bil. 1987\$, AR (C,C,C). | 110,171 3,519.6 | 108,921 3,484.5 | 109,079 3,689.9 | 109,235 3,441.9 | 109,539 3,449.3 | 109,565 3,471.1 | 109,820 3,517.7 | 110,058 3,524.3 | 110,101 3,511.7 | 110,338 3,499.1 | 110,305 3,542.3 | 110,502 3,544.2 | 7110,664 73,560.3 | r110,866 r3,577.7 | ^p 111,049 ^p 3,595.2 |
| 47 ♦ 57 ♦ | Index of industrial production, 1987=100 (C,C,C) Manufacturing and trade sales, mil. 1987\$ (C,C,C) | 111.0 | 108.4 * 499,767 | 108.9 *509,563 | 109.3 509,095 | 109.9 510,542 | 110.1 509,156 | 110.4 507,532 | 110.2 510,649 | 110.5 514,996 | 110.8 *511,070 | 111.0 *518,303 | 111.4 *521,028 | ⁷ 112.1 ⁷ 523,486 | 113.2 ^p 529,079 | P 114.0 |
| 951 | Diffusion index of 4 coincident indicator components: Percent rising over 1-month span Percent rising over 6-month span | 80.2 | 87.5 87.5 | 100.0 100.0 | 50.0 100.0 | 100.0 100.0 | 62.5 75.0 | 75.0 * 100.0 | 75.0 100.0 | ^r 62.5 100.0 | 50.0 100.0 | r 87.5 100.0 | 100.0 3 100.0 | 100.0 | 100.0 | ³ 100.0 |
| | The Lagging Index | | | | | | | | | | | | | | | |
| 930 ♦ | Composite index of lagging indicators, 1987=100 (Lg,Lg,Lg) Percent change from previous month Percent change over 3-month span, AR | 96.5 .1 | 96.7 .2 –4.9 | 95.6 -1.1 .4 | 96.6 1.0 4 | 96.6 0 3.4 | 96.4 2 8 | 96.4 0 -1.2 | 96.3 1 4 | 96.3 0 1.3 | r 96.7 r .4 r .4 | r 96.4 r – .3 .8 | 96.5 7.1 7–1.2 | 96.4 1 1 | 96.2 2 41.2 | ⁴ 96.8 ⁴ .6 |
| 91 ♦ 77 ♦ | Lagging index components: Average duration of unemployment, weeks (Lg,Lg,Lg) ‡ § Ratio, mfg. and trade inventories to sales in 1987\$ | 18.1 | * 18.1 1.59 | ^r 19.0 1.56 | ⁷ 18.5 1.57 | ^r 18.2 1.57 | [*] 17.7 1.57 | * 17.7 1.58 | ^r 17.8 1.58 | ^r 17.8 1.56 | 17.9 ^r 1.58 | 18.3 *1.56 | r 18.4 r 1.55 | r 18.4 r 1.55 | ^r 18.9 ^p 1.54 | 18.2 |
| 62 ♦ | (Lg,Lg,Lg). Change in labor cost per unit of output, mfg., percent, | -2.7 | -1.4 | 2 | -2.2 | -3.7 | -4.3 | -4.3 | -3.7 | -3.1 | -2.4 | -1.8 | r9 | r−1.2 | r−2.1 | <i>P</i> −2.5 |
| 109 ♦ | AR, smoothed (Lg,Lg,Lg) † 5. Average prime rate charged by banks, percent, NSA | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 101 ♦ | (Lg,Lg,Lg)*. Commercial and industrial loans outstanding, mil. 1987\$ | 369,762 | 374,896 | 375,465 | 369,012 | 369,503 | 363,038 | 364,190 | 365,859 | 366,923 | 372,898 | ^r 372,677 | ^r 371,937 | ^r 370,713 | ^r 370,872 | ^p 379,516 |
| 95 ♦ | (Lg,Lg,Lg). Ratio, consumer installment credit outstanding to | | 14.05 | 13.46 | 14.23 | 14.24 | 14.18 | 14.02 | 13.94 | 14.00 | 14.12 | 14.04 | 14.13 | 14.17 | P 14.22 | |
| 120 ◆ | personal income, percent (Lg,Lg,Lg). Change in Consumer Price Index for services, percent, AR, smoothed (Lg,Lg,Lg) †. | 3.8 | 3.7 | 3.9 | 4.1 | 4.2 | 4.2 | 4.3 | 4.3 | 4.2 | 3.8 | 3.7 | 3.5 | 3.3 | 3.2 | 3.3 |
| 952 | Diffusion index of 7 lagging indicator components: Percent rising over 1-month span Percent rising over 6-month span | | 64.3 42.9 | 50.0 50.0 | 64.3 50.0 | 71.4 35.7 | 35.7 57.1 | 71.4 50.0 | 50.0 735.7 | 57.1 ² 35.7 | 64.3 50.0 | 21.4 50.0 | 35.7 4 50.0 | ^r 35.7 | ^r 35.7 | 470.0 |
| 940 ♦ | Ratio, coincident index to lagging index, 1987=100 (L,L,L) . | 113.1 | 111.1 | 114.5 | 111.4 | 111.7 | 112.1 | 112.7 | 113.0 | 113.1 | ^r 112.5 | ^r 113.5 | ^r 113.6 | ^r 114.1 | ^r 115.0 | P 114.7 |

NOTE.—The following current high values were reached before November 1992: June 1991—BCI-106 (2,856.4); August 1991—BCI-92 smoothed (-0.90); December 1991—BCI-62 smoothed (3.1) and BCI-77 (1.65); and June 1992—BCI-99 smoothed (0.79).

See page C-6 for other footnotes.

SURVEY OF CURRENT BUSINESS

| | Year 1992 1993 | | | | | | | | | | | | | | | |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------------|--------------------------------------------------|------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|
| Series no. | Series title and timing classification | Year 1993 | 19 Nov. | 92 Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | A., | Sept. | Oct. | Nov. | Dec. |
| | | 1993 | | | | | | · | - | | July | Aug. | Бер т. | Oct. | NOV. | Dec. |
| | | | 2. LAB | OR FOR | CE, EMP | LOYMEN | IT, AND | UNEMP | LOYMEN | IT . | | | | | | |
| 441 442 451 452 453 | Labor force: Civilian labor force, thous. § Civilian employment, thous. § Civilian labor force participation rates (percent): Males 20 years and over § Females 20 years and over § Both sexes 16-19 years of age § | 128,040 119,306 76.9 58.4 51.5 | 7127,287 7117,974 77.1 758.3 51.4 | r127,469 r118,155 r77.0 r58.4 r51.7 | 7127,224 7118,178 76.8 758.3 751.4 | r127,400 r118,442 r76.9 58.2 r51.9 | 7127,440 7118,562 76.9 58.2 751.5 | r127,539 r118,585 r76.9 r58.2 r51.8 | 7128,075 7119,180 77.1 58.4 752.5 | 7128,056 7119,187 77.0 58.5 751.5 | r 128,102 r 119,370 r 77.0 r 58.4 r 51.8 | r 128,334 r 119,692 r 77.0 58.5 51.6 | 7128,108 7119,568 76.7 758.4 751.2 | r 128,580 r 119,941 r 77.0 58.6 r 51.1 | r 128,662 r 120,332 r 76.8 58.7 51.2 | 128,898 120,661 76.8 58.9 50.9 |
| 1 ♦ 21 ♦ 5 ♦ | Marginal employment adjustments: Average weekly hours, mfg. (L_LL) Average weekly initial claims for unemployment insurance, thous. (L,C,L) 1 | 41.4 4.1 366 | 41.2 3.9 373 | 41.2 3.9 333 | 41.4 4.0 364 | 41.4 4.2 343 | 41.2 4.0 376 | 41.5 4.2 374 | 41.4 4.1 390 | 41.2 4.0 386 | 41.4 4.0 399 | 41.4 4.1 378 | 41.5 4.1 381 | 41.6 4.3 356 | 41.7 4.4 334 | ^P 41.7 ^P 4.4 311 |
| 46 ♦ 60 | Job vacancies: Index of help-wanted advertising, 1967=100 (L,Lg,U) Ratio, help-wanted advertising to unemployed (L,Lg,U) § | 101 .343 | 95 .304 | 95 *.303 | 92 *.303 | 97 7.322 | 96 .322 | 96 7.319 | 100 7.334 | 97 *.325 | 101 *.344 | 103 7.355 | 101 *.352 | 106 *.365 | ^r 107 .382 | ^p 110 ^p .397 |
| 48 ♦ 42 | Employment: Employee hours in nonagricultural establishments, bil. hours, AR (U,C,C). Persons engaged in nonagricultural activities, thous. | 203.96 116,232 | 202.01 *114,804 | 201.86 *114,933 | 201.98 *114,996 | 202.47 *115,326 | 202.33 *115,463 | 202.78 *115,514 | 205.28 *116,106 | 203.57 *116,156 | 204.05 * 116,327 | 204.76 *116,687 | 204.06 * 116,475 | r 205.26 | ^r 205.19 ^r 117,218 | ^p 205.77 |
| 41 ♦ 963 | (U,C,C) §. Employees on nonagricultural payrolls, thous. (C,C,C) Diffusion index of employees on private nonagricultural payrolls, 356 industries: | 110,171 | 108,921 | 109,079 | 109,235 | 109,539 | 109,565 | 109,820 | 110,058 | 110,101 | 110,338 | 110,305 | 110,502 | ^r 110,664 | r 110,866 | ^p 111,049 |
| 40 ♦ 90 ♦ | Percent rising over 1-month span Percent rising over 6-month span Employees in goods-producing industries, thous. (L.C.U) Ratio, civilian employment to population of working age, percent (U.Lg.U) §. Unemployment: | 54.7 22,974 61.6 | 52.0 57.7 22,995 ^r 61.3 | 54.8 56.6 22,985 ^r 61.4 | 58.1 59.7 23,001 61.3 | 59.7 58.3 23,069 61.4 | 51.0 58.3 23,016 61.4 | 53.8 57.7 22,980 761.4 | 56.9 49.7 23,006 61.7 | 46.5 51.1 22,941 61.6 | 57.9 *52.9 22,948 61.6 | 44.4 * P 56.0 22,903 61.8 | 57.2 ^p 57.9 22,886 61.6 | r 53.9 r 22,934 61.8 | ^{rp} 60.1 | ^P 56.9 P 23,002 62.0 |
| 37 43 ◆ 45 | Number of persons unemployed, thous. (L,Lg,U) ‡ § Civilian unemployment rate, percent (L,Lg,U) ‡ § Average weekly insured unemployment rate, percent (L,Lg,U) ² ±. | 8,734 6.8 2.6 | ^r 9,313 7.3 2.8 | ⁷ 9,314 7.3 2.6 | r 9,046 7.1 2.6 | * 8,958 7.0 2.5 | * 8,878 7.0 2.5 | * 8,954 7.0 2.6 | * 8,895 6.9 2.6 | * 8,869 * 6.9 2.6 | ^r 8,732 6.8 2.6 | ^r 8,642 6.7 2.6 | ^r 8,540 6.7 2.6 | *8,639 *6.7 2.6 | 78,330 76.5 2.6 | 8,237 6.4 2.5 |
| 91 ♦ 44 | Average duration of unemployment, weeks (Lg,Lg,Lg) ‡ § Unemployment rate, 15 weeks and over, percent (Lg,Lg,Lg) ‡ §. | 18.1 2.4 | ″18.1 ″2.6 | ^r 19.0 2.8 | ⁷ 18.5 2.6 | ^r 18.2 2.5 | ^r 17.7 2.4 | " 17.7 2.3 | r 17.8 r 2.4 | r 17.8 r 2.4 | 17.9 *2.3 | 18.3 *2.3 | ^r 18.4 2.4 | ^r 18.4 2.4 | ⁷ 18.9 2.3 | 18.2 2.2 |
| 3. OUTPUT, PRODUCTION, AND CAPACITY UTILIZATION | | | | | | | | | | | | | | | | |
| 55 ♦ 50 49 | Output: Gross domestic product, bil. 1987\$, AR (C,C,C) | 5,132.7 2.9 2,081.3 | 5,068.3 5.7 5,068.4 2,057.7 | | | 5,078.2 .8 5,080.7 2,060.2 | | | 5,102.1 1.9 5,104.1 2,069.1 | | | 5,138.3 2.9 5,145.8 2,074.9 | | | ^P 5,212.1 ^P 5.9 | |
| 47 ♦ 73 ♦ 74 ♦ 75 ♦ | Industrial production indexes, 1987=100: Total (C,C,C) Durable manufactures (C,C,C) Nondurable manufactures (C,L,L) Consumer goods (C,L,C) | 111.0 115.9 106.8 108.1 | 108.4 110.9 106.4 107.1 | 108.9 111.8 106.0 107.5 | 109.3 112.9 106.4 107.6 | 109.9 113.8 106.4 108.5 | 110.1 114.1 106.6 108.6 | 110.4 115.0 106.9 108.1 | 110.2 114.9 106.9 107.3 | 110.5 114.6 107.2 107.3 | 110.8 115.4 107.0 107.7 | 111.0 115.7 107.3 107.8 | 111.4 *117.0 *106.5 *107.4 | r112.1 r118.3 r107.0 r108.6 | 113.2 * 120.1 * 107.6 * 109.6 | P 114.0 P 121.7 P 107.4 P 109.8 |
| 124 82 ◆ | Capacity utilization rates (percent): Total industry (L,C,U) Manufacturing (L,C,U) | 81.9 81.1 | 80.8 79.7 | 81.0 79.8 | 81.2 80.3 | 81.5 80.5 | 81.6 80.6 | 81.7 80.9 | 81.5 80.7 | 81.5 80.6 | 81.7 80.7 | 81.7 80.8 | 81.9 * 81.0 | ⁷ 82.3 81.5 | 83.0 r 82.3 | ^p 83.5 ^p 82.7 |
| | | | | 4. SA | LES, OR | DERS, A | ND DEL | IVERIES | | | | | | | | |
| 57 ♦ 59 ♦ | Sales: Manufacturing and trade sales, mil. 1987\$ (C,C,C) Sales of retail stores, mil. 1987\$ (U,L,U) | 1,759,475 | r 499,767 r 142,358 | ^r 509,563 ^r 144,019 | 509,095 143,782 | 510,542 143,076 | 509,156 141,496 | 507,532 143,793 | 510,649 145,047 | 514,996 146,144 | ^r 511,070 146,713 | ⁷ 518,303 147,577 | ⁷ 521,028 148,185 | r 523,486 r 150,294 | ^p 529,079 ^r 150,922 | |
| 7 ♦ 8 ♦ | Orders and deliveries: Mfrs.' new orders, durable goods, bil. 1987\$ (L,L,L) Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L). | 1,304.00 | 105.60 | 110.03 | 114.64 109.30 | 116.99 109.79 | 107.23 | 106.72 | 109.67 105.54 | 114.50 106.58 | 111.08 105.35 | 106.54 | ^r 109.00 | 111.39 | ^r 112.51 | ^p 114.05 |
| 92 ♦ | Mfrs.' unfilled orders, durable goods, mil. 1987\$ ↓ | 363,694 -2.85 -2.86 | 397,769 -5.30 -3.82 | 397,874 .10 -3.37 | 397,580 29 -2.70 | 396,886 69 -2.03 | 390,926 -5.96 -2.17 | 386,683 -4.24 -2.53 | 381,879 -4.80 -3.04 | 377,810 -4.07 -3.48 | 376,846 96 -3.40 | 374,775 -2.07 -3.18 | 370,372 -4.40 -3.21 | 7368,404 7-1.97 -3.06 | r 366,238 r –2.17 r –2.85 | ^p 363,694 ^p -2.54 ^p -2.69 |
| 32 ♦ | Vendor performance, slower deliveries diffusion index, percent (L,L,L) § *. | 51.6 | ^r 51.2 | 51.7 | ^r 52.8 | ^r 53.0 | ^r 52.5 | ^r 53.1 | 51.7 | ^r 50.2 | ^r 50.0 | ^r 51.3 | 50.9 | ^r 50.7 | ^r 50.7 | 51.7 |
| | | | | 5. | FIXED C | APITAL | INVEST | MENT | | | | | | | | |
| 12 ♦ 13 ♦ | Formation of business enterprises: Index of net business formation, 1967=100 (L,L,L) Number of new business incorporations (L,L,L) | 120.8 | 115.3 55,392 | 119.0 61,695 | 119.3 55,689 | 121.1 59,691 | 121.8 61,002 | 120.8 59,648 | 117.5 51,765 | 120.6 60,422 | ^r 121.0 58,341 | ^r 121.2 ^p 57,909 | r 119.0 | r 119.5 | r 122.0 | P 125.2 |
| 10 20 ♦ | Business investment commitments: Contracts and orders for plant and equipment, bil.\$ (L,L,L). Contracts and orders for plant and equipment, bil. 1987\$ | 426.43 434.13 | 31.86 31.99 | r37.52 | 32.84 32.95 | 35.91 35.87 | 33.13 33.61 | 33.35 33.68 | 33.17 33.89 | 38.19 37.90 | 33.84 - 34.73 | 35.60 r 36.35 | 34.92 - 35.83 | r36.55 | r 39.36 | P 39.57 |
| 27 ♦ | (L,L,L). Mfrs.' new orders, nondefense capital goods, bil. 1987\$ | 394.93 | 27.52 | 32.26 | 29.26 | 33.09 | 30.13 | 31.18 | 31.08 | 34.11 | 31.47 | r 33.24 | 32.44 | 34.52 | r 37.13 | p 37.28 |
| 9 ♦ 11 97 | (L,L,L). Construction contracts awarded for commercial and industrial buildings, mil. sq.ft.(L,C,U) © ³ . New capital appropriations, mfg., bil.\$ (U,Lg,U) | 537.37 | 42.49 | 42.61 | 36.89 | 39.88 | 43.63 | 45.63 | 40.75 | 43.32 | 48.88 | 44.52 | 43.48 | 47.29 | 47.39 | 55.71 |
| 61 100 • | Business investment expenditures: New plant and equipment expenditures by business, bil.\$, AR (C.Lg.Lg)*. New plant and equipment expenditures by business, | 584.64 554.84 | 559.24 524.62 | | | 564.13 533.70 | | | 579.79 546.97 | | | 594.11 565.28 | | | ^a 600.53 ^a 573.42 | |
| | bil. 1987\$, AR (C,Lg,Lg) *. ' | | ı | | I | | | | ١ | | ı | | | | | |

NOTE.—The following current high values were reached before November 1992: July 1991—BCI-92 change (6.71); See page C-6 for other footnotes. August 1991—BCI-92 smoothed (-0.90); and 3d Q 1991—BCI-11 (33.83).

| Series | Out to the and the second second | 1993 | | | | | | | | | | | | | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|---------------------------|--------------------------|-------------------------|--------------------------|---------------------------|----------------------------|---------------------------|------------------------------|----------------------------------------------------------------|-------------------------|-------------------------|----------------------------------------------------------------|-----------------------------|
| no. | Series title and timing classification | 1993 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | | ţ | . FIXED | CAPITAI | L INVES | ГМЕНТ- | -Continu | ıed | | | | | | | |
| 69 ♦ 76 ♦ | Business investment expenditures—Continued: Mfrs.' machinery and equipment sales and business construction expenditures, bil.\$, AR (C,Lg,Lg). Index of industrial production, business equipment, 1987=100 (C,Lg,U). Gross private nonresidential fixed investment, bil. 1987\$, AR: | 464.51 137.0 | 443.25 129.0 | 459.12 129.6 | 442.82 131.2 | 447.24 131.7 | 465.62 133.4 | 448.70 134.8 | 454.96 135.4 | 462.72 136.1 | ⁷ 442.00 137.1 | r 468.37 137.6 | r 464.07 r 139.4 | r 470.16 | 492.10 * 142.9 | P 515.32 |
| 86 ♦ 87 ♦ 88 ♦ | Total (C,Lg,C) Structures (Lg,Lg,Lg) Producers' durable equipment (C,Lg,C) | 591.3 151.4 439.9 | 543.7 148.0 395.7 | | | 562.3 148.2 414.1 | | | 584.3 151.1 433.2 | | | 594.8 151.2 443.6 | | | ^P 623.8 ^P 155.1 ^P 468.7 | |
| 28 ◆ 29 ◆ | Residential construction and investment: New private housing units started, thous, AR (L,L,L) Index of new private housing units authorized by local building permits, 1967–100 (L,L,L). Gross private residential fixed investment, bil. 1987\$, AR | 1,285 96.4 214.2 | 1,226 90.6 210.6 | 1,286 95.4 | 1,171 92.3 | 1,180 91.0 211.4 | 1,124 82.5 | 1,206 87.8 | 1,248 89.4 206.2 | 1,248 88.9 | 1,232 92.7 | 1,328 99.0 212.1 | 1,371 101.4 | ′ 1,390 104.0 | ^r 1,450 109.6 ^p 227.2 | ^P 1,540 117.7 |
| | (L,L,L). | | | | | | | | | | | | | | | |
| | | | 6. | INVENTO | ORIES AN | ND INVE | NTORY | INVESTN | MENT | | | | | | | |
| 70 77 ♦ | Inventories on hand: Mfg. and trade inventories, bil. 1987\$ (Lg,Lg,Lg) ◊ Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg). | | 794.37 1.59 | 796.10 1.56 | 796.82 1.57 | 799.49 1.57 | 801.86 1.57 | 803.31 1.58 | 804.68 1.58 | 805.35 1.56 | 806.10 *1.58 | 806.64 *1.56 | 809.45 *1.55 | r 809.90 r 1.55 | P 812.90 P 1.54 | |
| 30 ♦ 31 ♦ | Inventory investment: Change in business inventories, bil. 1987\$, AR (L,L,L) Change in mfg. and trade inventories, bil.\$, AR (L,L,L) | 15.4 | 8.7 *20.6 | r26.5 | 24.9 | 29.3 42.3 | 52.5 | 40.6 | 13.0 20.6 | | _7.4 | 6.5 27.9 | 17.5 | r27.8 | ^p 12.7 ^p 65.0 | |
| 7. PRICES | | | | | | | | | | | | | | | | |
| | Sensitive commodity prices: | 00.67 | 400.04 | 100.05 | 101.40 | 404.47 | 100.01 | 00.00 | 00.27 | 00.22 | 00.04 | r 00 40 | 00.00 | 00.75 | 00.25 | 400.74 |
| 99 ♦ | Index of sensitive materials prices, 1987=100 Percent change from previous month Percent change from previous month, smoothed (L,L,L)†. Index of producer prices for sensitive crude and | 99.67 01 25 | 100.24 -1.24 10 | 100.85 .61 21 | 101.40 .55 17 | 101.47 .07 12 | 100.91 55 14 | 99.80 -1.10 29 | 99.37 43 39 | 99.22 15 42 | 98.94 28 42 | r 98.10 r85 r47 | 98.00 10 46 | 98.75 .77 28 | 99.35 .61 07 | 100.74 1.40 .27 |
| 98 | intermediate materials, 1987=100 (L,L,L). Cattle hides | 161.77 180.4 | 144.17 177.4 | 148.80 180.3 | 154.09 187.7 | 159.15 177.5 | 162.94 177.3 | 161.85 170.9 | 160.98 174.3 | 160.05 175.6 | 159.70 179.3 | 7158.56 177.9 | 159.89 189.0 | 163.53 185.0 | 168.28 187.0 | 172.17 183.8 |
| | Lumber and wood products | 174.1 100.7 93.6 | 151.9 100.6 86.7 | 157.1 100.4 87.0 | 162.0 103.2 84.5 | 169.8 110.8 86.5 | 177.3 112.2 97.5 | 178.5 113.2 101.5 | 177.0 103.4 107.5 | 172.4 104.9 107.4 | 169.5 96.4 102.8 | 7170.6 793.6 780.8 | 172.8 92.5 98.3 | 174.8 92.9 97.6 | 180.1 94.9 79.0 | 184.0 90.2 79.2 |
| | Wastepaper, corrugated | 141.8 172.7 | 145.4 135.8 | 145.5 142.8 | 147.1 152.1 | 143.7 160.3 | 149.7 159.3 | 148.3 155.5 | 144.7 158.8 | 141.0 171.8 | 140.8 179.3 | ^r 137.9 ^r 169.0 | 135.5 169.0 | 137.9 188.6 | 138.4 201.6 | 137.0 207.1 |
| | Copper base scrap | 135.8 129.2 114.2 | 155.9 129.4 123.4 | 155.3 136.3 124.6 | 164.9 141.4 129.8 | 163.1 137.5 128.6 | 151.7 130.9 125.0 | 139.6 123.2 118.4 | 130.6 124.7 113.3 | 135.7 127.2 113.3 | 135.8 133.2 115.0 | ^r 131.9 ^r 129.3 ^r 113.5 | 125.1 124.4 109.0 | 115.6 125.6 101.7 | 113.9 124.1 99.3 | 122.1 128.6 103.7 |
| | Sand, gravel, and crushed stone | 134.0 92.2 | 131.5 89.3 | 132.1 92.8 | 133.2 96.9 | 132.5 94.0 | 132.5 95.8 | 133.1 88.7 | 132.7 88.3 | 133.2 84.3 | 133.7 85.4 | ^r 133.8 85.3 | 134.4 90.9 | 136.2 96.1 | 136.0 95.9 | 136.3 104.7 |
| 23 ♦ | Domestic apparel woolIndex of spot market prices, raw industrial materials, 1967=100, NSA (U,L,L) © 1*. | 56.5 260.4 | 73.7 267.7 | 74.0 266.4 | 66.6 268.7 | 63.1 270.0 | 55.3 266.9 | 52.3 261.5 | 53.0 257.8 | 56.0 257.1 | 54.0 257.2 | 56.8 255.5 | 52.3 253.1 | 53.0 255.6 | 56.8 258.1 | 58.5 263.7 |
| | Copper scrap, \$ per lb. © | .703 .139 115.537 | .793 .150 92.262 | .834 .146 96.118 | .906 .150 97.361 | .888 .159 109.091 | .811 .162 109.347 | .717 .149 105.380 | .684 .148 105.030 | .696 .145 112.411 | .694 .139 118.687 | .660 .132 112.130 | .600 .118 109.756 | .567 .116 127.731 | .578 .123 138.657 | .640 .125 140.863 |
| | Tin, \$ per lb., NSA © Zinc, \$ per lb., NSA © | 3.494 .484 | 3.802 .520 | 3.803 .530 | 3.901 .524 | 3.835 .535 | 3.779 .496 | 3.738 .504 | 3.703 .494 | 3.482 .467 | 3.395 .470 | 3.294 .451 | 3.095 .445 | 3.189 .459 | 3.225 .466 | 3.286 .492 |
| | Burlap, \$ per yd., NSA © | .247 .556 .677 | .245 .525 .675 | .245 .552 .660 | .245 .577 .650 | .245 .580 .640 | .245 .569 .652 | .245 .540 .650 | .245 .533 .655 | .245 .497 .644 | .245 .509 .640 | .240 .509 .688 | .241 .547 .700 | .247 .563 .700 | .256 .599 .750 | .265 .645 .750 |
| | Wool tops, \$ per lb., NSA © Hides, \$ per lb., NSA © | 3.339 .799 | 3.625 .795 | 3.520 .812 | 3.400 .801 | 3.312 .800 | 3.160 .816 | 3.000 .814 | 3.050 .805 | 3.400 .774 | 3.400 .762 | 3.400 .792 | 3.400 .805 | 3.450 .815 | 3.600 .808 | 3.500 .798 |
| | Rosin, \$ per 100 lb. © | 59.248 .450 .147 | 60.423 .494 .160 | 59.880 .494 .149 | 59.642 .489 .147 | 59.524 .475 .146 | 59.642 .453 .152 | 59.761 .437 .158 | 60.060 .437 .152 | 60.120 .438 .147 | 60.120 .435 .149 | 60.181 .440 .150 | 60.060 .451 .144 | 59.356 .445 .140 | 56.338 .451 .137 | 56.169 .451 .144 |
| 336 | Producer Price Indexes: Finished goods, 1982=100 Percent change over 1-month span | 124.7 0 | 123.8 2 | 123.8 | 124.2 | 124.7 | 125.1 .3 | 125.8 .6 | 125.8 | 125.1 6 | 125.1 | 124.3 6 | 124.5 | 124.2 2 | 124.2 | 124.1 1 |
| 337 | Percent change over 6-month span, AR | 135.8 | 1.8 134.8 .2 | 1.9 135.0 | .3 2.9 135.6 4 | 3.3 135.9 | 2.1 136.2 .2 | 1.5 136.7 .4 | 6 136.8 .1 | -1.0 136.3 4 | -2.5 136.6 .2 | -2.5 *135.2 -1.0 | -1.6 135.3 *.1 | 134.6 5 | 135.1 | 135.4 |
| 334 | Percent change over 6-month span, AR Finished consumer goods, 1982=100 | 123.0 | 2.2 122.3 | 2.4 122.3 | 3.3 122.6 | 3.0 123.1 | 1.9 123.6 | 1.5 124.4 | r_1.0 124.4 | -1.3 123.6 | -3.0 123.5 | -2.5 * 122.3 | -1.3 122.6 | 122.4 | 122.3 | 122.0 |
| 333 | Percent change over 1-month span Percent change over 6-month span, AR Capital equipment, 1982=100 | 131.4 | 2 1.6 129.5 | 0 1.8 129.7 | 3.0 130.4 | 3.5 130.8 | .4 2.1 131.1 | .6 1.5 131.3 | 0 '-1.3 131.4 | 6 -1.6 131.2 | 1 -3.2 131.7 | ^r -1.0 -3.3 131.9 | .2 –2.6 131.9 | 2 131.4 | 1 131.7 | 2 132.1 |
| 332 | Percent change over 1-month span | .2 116.2 | .2 2.0 114.9 | .2 2.5 114.9 | .5 3.1 115.3 | .3 3.0 115.9 | .2 2.3 116.3 | .2 2.0 116.6 | .1 1.7 116.3 | 2 1.2 116.5 | .4 .2 116.4 | .2 .5 116.4 | 0 1.4 116.5 | 4 116.4 | 116.2 | .3 116.0 |
| 331 | Percent change over 1-month span AR Percent change over 6-month span, AR Crude materials for further processing, 1982=100 Percent change over 1-month span | .1 1 102.4 0 | 3 1.0 102.6 1 | 0 1.4 101.5 –1.1 | .3 2.4 101.8 .3 | .5 2.5 101.6 2 | .3 2.8 101.8 .2 | .3 1.9 103.3 1.5 | 3 .9 105.4 2.0 | .2 .3 103.7 -1.6 | 1 3 101.4 -2.2 | 0 2 *101.0 *4 | .1 9 101.6 *.6 | 1 103.0 1.4 | 2 103.4 .4 | 2 101.1 -2.2 |
| ♦ 311 | Percent change over 6-month span, AR | 124.6 | 1.4 122.4 | -2.3 | .3 1.2 | 5.5 123.5 | 4.4 | 8 | r_1.2 124.4 | 4 | 6 | -3.8 125.0 | -5.0 | | <i>p</i> 125.6 | |
| • | product, 1987=100. Percent change from previous quarter, AR | 3.0 | 3.2 | | | 3.7 | | | 2.9 | | | 1.9 | | | ^p 2.1 | |
| 320 | Consumer Price Indexes for all urban consumers: All items, 1982-84=100, NSA Percent change over 1-month span Percent change over 6-month span, AR | 144.5 .2 | 142.0 .2 3.6 | 141.9 .1 3.6 | 142.6 .5 3.6 | 143.1 .3 3.4 | 143.6 .1 3.1 | 144.0 .4 2.3 | 144.2 .1 2.1 | 144.4 0 1.8 | 144.4 .1 1.8 | 144.8 .3 1.9 | 145.1 0 2.4 | 145.7 | 145.8 | 145.8 |
| 323 | All items less food and energy, 1982-84=100 Percent change over 1-month span Percent change over 6-month span, AR | 152.2 .3 | 149.3 .3 4.0 | 149.6 .2 4.1 | 150.3 .5 3.9 | 151.0 .5 3.8 | 151.2 .1 3.6 | 151.8 .4 2.9 | 152.1 .2 2.5 | 152.3 .1 2.4 | 152.5 .1 2.1 | 152.9 .3 2.4 | 153.0 .1 2.6 | 153.4 .3 | 153.9 .3 | 154.3 .3 |
| 120 ♦ | Percent change over 8-month span, Ar. Services, 1982-84-100 Percent change from previous month, AR. Percent change from previous month, AR, smoothed (Lg,Lg,Lg) †. | 157.9 3.7 3.8 | 154.2 4.0 3.7 | 154.7 4.0 3.9 | 155.3 4.8 4.1 | 155.8 3.9 4.2 | 156.2 3.1 4.2 | 156.9 5.5 4.3 | 157.4 3.9 4.3 | 157.8 3.1 4.2 | 158.1 2.3 3.8 | 158.7 4.7 3.7 | 159.0 2.3 3.5 | 159.4 3.1 3.3 | 159.8 3.1 3.2 | 160.4 4.6 3.3 |

SURVEY OF CURRENT BUSINESS

| Year 1992 1993 | | | | | | | | | | | | | | | | |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------|------------------------|-------------------------------|--------------------|--------------------------------|------------------------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Series no. | Series title and timing classification | Year 1993 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | 93 July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | 1000 | | | . PROFIT | | | • | may | vane | July | Aug. | oop. | J UL. | 1101. | |
| | Profits and profit margins: | | | | | | | | | | | | | | | |
| 16 ♦ | Corporate profits after tax, bil.\$, AR (L,L,L) | | 254.9 | | | 258.9 | | | 272.3 | | | 274.3 | | | | |
| 18 ♦ 22 ♦ | Corporate profits after tax, bil. 1987\$, AR (L,L,L) | | 216.3 6.9 | | | 219.2 6.9 | | | 230.7 7.2 | | | 232.7 7.0 | | | | |
| 81 ♦ | domestic income, percent (L,L,L). Ratio, corporate domestic profits after tax with IVA and | | 7.9 | | | 7.3 | | | 7.6 | | | 7.9 | | | | |
| 26 ♦ | CCAdj to corporate domestic income, percent(U,L,L). Ratio, implicit price deflator to unit labor cost, all | | 104.4 | | | 103.9 | | | 103.8 | | | 104.3 | | | | |
| 35 | persons, nonfarm business sector,1982=100 (L,L,L). Corporate net cash flow, bil. 1987\$, AR (L,L,L) | | 470.4 | | | 477.0 | | | 490.2 | | | 498.2 | | | | |
| 30 | Corporate net cash flow, bil. 1967\$, AR (L,L,L) | | 472.4 | | | 477.8 | | | 490.2 | | | 490.2 | | | | |
| | 9. WAGES, LABOR COSTS, AND PRODUCTIVITY Wages and compensation: | | | | | | | | | | | | | | | |
| 345 | Wages and compensation: Index of average hourly compensation, all employees, nonfarm business sector, 1982=100. | | 156.1 | | | 157.2 | | | 157.9 | | | 159.4 | | | | |
| 346 | Percent change from previous quarter, AR | | 4.5 106.1 | | | 2.9 105.9 | | | 1.7 105.5 | | | 3.9 106.2 | | | | |
| 340 | employees, nonfarm business sector, 1982=100. Percent change from previous quarter, AR | | 1.3 | | | 100.0 | | | -1.2 | | | 2.7 | | | | |
| 53 ♦ | Wages and salaries in mining, mfg., and construction, bil. 1987\$, AR (C,C,C). | 592.4 | 596.9 | 660.2 | 579.6 | 580.8 | 578.4 | 595.3 | 595.5 | 592.8 | 595.2 | 595.7 | 597.8 | ^r 597.3 | ^r 599.6 | P 601.2 |
| 63 | Unit labor costs: Index of unit labor cost, all persons, business sector, | | 134.8 | | | 136.4 | | | 137.3 | | | 137.4 | | | | |
| | 1982=100 (Lg,Lg,Lg). Index of labor cost per unit of output, mfg., 1987=100 ¹ | 108.9 | 110.6 | 112.0 | 109.9 | 109.5 | 109.3 | 109.2 | 109.2 | 109.0 | 109.0 | 108.9 | *109.1 | r 108.4 | 107.8 | P 107.7 P −1.1 |
| 62 ♦ | Percent change from previous month, AR ¹ Percent change from previous month, AR, smoothed (Lg,Lg,Lg) ¹ †. | −3.7 −2.7 | -13.1 -1.4 | 16.3 2 | -20.3 -2.2 | -4.3 -3.7 | -2.2 -4.3 | -1.1 -4.3 | -3.7 | -2.2 -3.1 | -2.4 | -1.1 -1.8 | r 2.2 r – .9 | -7.4 r-1.2 | r-6.4 r-2.1 | P-1.1 P-2.5 |
| 370 | Productivity: Index of output per hour, all persons, business sector, | | 117.1 | | | 116.6 | | | 116.6 | | | 117.6 | | | | |
| • | 1982=100. Percent change over 1-quarter span, AR | | 3.8 | | | -1.6 | | | 0 | | | 3.6 | | | | |
| 358 ◆ | Percent change over 4-quarter span, AR Index of output per hour, all persons, nonfarm business | | 1.6 115.3 | | | 1.4 114.8 | | | 114.7 | | | 115.9 | | | | |
| | sector, 1982=100. | | | | | | | | | | | | | | | |
| 10. PERSONAL INCOME AND CONSUMER ATTITUDES | | | | | | | | | | | | | | | | |
| 52 51 ◆ | Personal income: Personal income, bil. 1987\$, AR (C.C.C) Personal income less transfer payments, bil. 1987\$, AR (C.C.C.) | 4,236.4 3,519.6 | 4,180.8 3,484.5 | 4,391.8 3,689.9 | 4,150.7 3,441.9 | 4,156.1 3,449.3 | 4,181.2 3,471.1 | 4,228.2 3,517.7 | 4,236.5 3,524.3 | 4,227.9 3,511.7 | 4,217.8 3,499.1 | 4,264.0 3,542.3 | 4,267.1 3,544.2 | ^r 4,283.7 ^r 3,560.3 | ^r 4,300.5 ^r 3,577.7 | ^p 4,322.7 ^p 3,595.2 |
| 58 | Indexes of consumer attitudes: Consumer sentiment, U. of Michigan, 1966:I=100, NSA ((, , ,) © ². | 82.8 | 85.3 | 91.0 | 89.3 | 86.6 | 85.9 | 85.6 | 80.3 | 81.5 | 77.0 | 77.3 | 77.9 | 82.7 | 81.2 | 88.2 |
| 83 ♦ | Consumer expectations, U. of Michigan, 1966:I=100, | 72.8 | 78.2 | 89.5 | 83.4 | 80.6 | 75.8 | 76.4 | 68.5 | 70.4 | 64.7 | 65.8 | 66.8 | 72.5 | 70.3 | 78.8 |
| 122 | NSA (L,L,L) © ² . Consumer confidence, The Conference Board, 1985=100 | 65.9 | 65.6 | 78.1 | 76.7 | 68.5 | 63.2 | 67.6 | 61.9 | 58.6 | 59.2 | 59.3 | 63.8 | 60.5 | 71.9 | 79.8 |
| 123 ♦ | (L,L,L)*. Consumer expectations, The Conference Board, 1985=100 (L,L,L)*. | 77.4 | 85.7 | 103.9 | 98.0 | 84.7 | 77.3 | 81.1 | 73.1 | 69.6 | 66.8 | 66.8 | 72.8 | 66.7 | 80.3 | 91.8 |
| | 1965=100 (L,L,L) . | | | | | IA CAVII | NC | | | | | | | | | |
| | | l | | | | I1. SAVI | NG | | | | | | | | | |
| 290 295 | Gross saving, bil.\$, AR | | 718.8 769.7 | | | 762.0 766.9 | | | 766.7 779.6 | | | 774.3 809.0 | | | | |
| 292 298 ◆ | Personal saving, bil.\$, AR | 190.3 | 279.7 -250.6 | | | 177.9 -262.8 | | | 208.7 -221.5 | | | 179.7 -214.4 | | | ^p 195.2 | |
| 293 ♦ | Personal saving rate, percent | 4.0 | 6.0 | | | 3.9 | | | 4.4 | | | 3.8 | | | P 4.1 | |
| | | 1: | 2. MON | EY, CRE | DIT, INTE | REST R | ATES, A | ND STO | CK PRIC | CES | | | | | | |
| 85 ♦ | Money: Percent change in money supply M1 (L.L.L)* | .81 | 1.30 | .74 | 64 | 02 | .21 | 75 | ^r 2.29 | .60 | r1.12 | .84 | 1.13 | .87 | r .85 | 47 |
| 102 ◆ 105 106 ◆ | Percent change in money supply M1 (L.L.L)* Percent change in money supply M2 (L.C,C,U) Money supply M1, bil. 1987\$ (L.L.L) Money supply M2, bil. 1987\$ (L.L.L) | .81 .13 848.5 2,760.8 | r.13 815.9 | 04 821.3 2,795.8 | .64 26 822.0 2.773.0 | 33 819.2 | .21 07 819.6 *2,748.7 | .75 * .06 822.6 * 2 739.6 | r. 84 r840.1 | r.19 r845.1 | r.17 r853.9 | r.09 r859.0 | .34 * 868.8 | .87 .06 *872.9 *2,762.5 | r.33 878.2 | .47 P.19 P.880.3 |
| IUb ♦ | Velocity of money: | 2,760.8 | 2,799.2 | 2,795.8 | 2,773.0 | 2,755.0 | · 2,148.1 | ^r 2,739.6 | ^r 2,758.3 | ^r 2,763.5 | ^r 2,766.1 | ^r 2,762.1 | ^r 2,771.6 | · ∠,/b∠.5 | ^r 2,765.2 | ^p 2,764.0 |
| 107 | Ratio, gross domestic product to money suppy M1 (C,C,C). | 5.912 | 6.090 | | | 6.057 | | | r5.963 | | | r 5.838 | | | ^p 5.790 | |
| 108 | Ratio, personal income to money supply M2 (C,Lg,C) | 1.535 | 1.498 | 1.576 | 1.499 | 1.511 | 1.524 | 1.545 | 1.536 | 1.531 | 1.526 | ^r 1.544 | r1.541 | r1.551 | 1.554 | ^p 1.560 |
| 93 94 | Bank reserves: Free reserves, mil.\$, NSA (L,U,U) ‡ Member bank borrowings from the Federal Reserve, mil.\$, NSA (L,Lq,U). | 901 180 | 939 104 | 1,032 124 | 1,096 165 | 1,059 45 | 1,122 91 | 1,023 73 | 875 121 | 730 181 | 845 244 | 600 352 | 662 428 | 804 285 | *1,012 89 | ^p 988 ^p 82 |
| 112 ♦ | Credit flows: Net change in business loans, bil.\$, AR (L,L,L) | 7.67 | 58.43 | -1.19 | -70.87 | 24.49 | -76.30 | 37.81 | 40.80 | 6.05 | 69.90 | -20.96 | r−10.26 | r-3.61 | r-2.24 | p 97.24 |
| 113 ♦ | Net change in consumer installment credit, bil.\$, AR (L,L,L). | | 21.94 | 60.84 | 29.88 | 43.74 | 34.84 | 24.74 | -22.80 | 25.62 | 60.44 | 60.47 | ^r 72.84 | ⁷ 91.92 | ^p 82.57 | |
| 111 | Percent change in business and consumer credit outstanding, AR (L,L,L). | | P 2.2 | | | | | | | | | | | | | |
| 110 ♦ | Funds raised by private nonfinancial borrowers in credit markets, mil.\$, AR (L,L,L). | | 288,400 | | | 219,992 | | | 346,024 | | | P 481,036 | | | | |
| 14 | Credit difficulties: Current liabilities of business failures, mil.\$, NSA | 48,914.2 | 3,984.1 | r 8,450.5 | ^p 6,174.9 | P 2,406.7 | p 4,343.0 | P 2,973.4 | p 6,634.4 | P 2,675.4 | p 5,496.4 | P 7,382.0 | p 3,062.6 | P 2,222.1 | ^p 2,991.0 | P 2,552.3 |
| 39 | (L,L,L) ‡. Percent of consumer installment loans delinquent 30 | .5,017.2 | 2.53 | 2.43 | 2.44 | 2.39 | 2.31 | 2.01 | 2.16 | 2.06 | 2.08 | 2.03 | 1.95 | _,1 | _,001.0 | _,002.0 |
| 50 | days and over (L,L,L) © 3 \$\day{2}\$. | l | 2.00 | 2.70 | 2.74 | 2.03 | 2.01 | 2.01 | 2.10 | 2.00 | 2.00 | 2.03 | 1.55 | | | |
| | | | | | | | | | | | | | | | | |

NOTE.—The following current high values were reached before November 1992: June 1991—BCI-106 (2,856.4); July 1991—BCI-93 (345); August 1991—BCI-94 (764); December 1991—BCI-62 index (113.1) and BCI-62 smoothed (3.1); and October 1992—BCI-111 (3.0). See page C-6 for other footnotes.

| Series | Series title and timing classification | Year | 19 | 92 | | 1993 | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| no. | Control title und untilling statementalism | 1993 | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| | | 12. MON | NEY, CR | EDIT, IN | TEREST | RATES, | AND ST | OCK PR | RICES—(| Continue | d | | | | | |
| 66 | Outstanding debt: Consumer installment credit outstanding, mil.\$ | | 736,023 | 741,093 | 743,583 | 747,228 | 750,131 | 752,193 | 750,293 | 752,428 | 757,465 | 762,503 | ^r 768,573 | ^r 776,234 | ^p 783,115 | |
| 72 | (Lg,Lg,Lg) ◊. Commercial and industrial loans outstanding, mil.\$, | 427,591 | 429,631 | 429,532 | 423,626 | 425,667 | 419,309 | 422,460 | 425,860 | 426,364 | 432,189 | 430,442 | r 429,587 | 429,286 | | ^p 437,202 |
| 101 ♦ | (Lg,Lg,Lg). Commercial and industrial loans outstanding, mil. 1987\$ | 369,762 | 374,896 | 375,465 | 369,012 | 369,503 | 363,038 | 364,190 | 365,859 | 366,923 | 372,898 | ^r 372,677 | ^r 371,937 | ^r 370,713 | ^r 370,872 | ^p 379,516 |
| 95 ♦ | (Lg,Lg,Lg). Ratio, consumer installment credit outstanding to personal income, percent (Lg,Lg,Lg). | | 14.05 | 13.46 | 14.23 | 14.24 | 14.18 | 14.02 | 13.94 | 14.00 | 14.12 | 14.04 | 14.13 | 14.17 | ^p 14.22 | |
| 119 • 114 • 116 • 115 • 117 118 109 • | Interest rates (percent, NSA): Federal funds rate (L_Lg, Lg)* Discount rate on new 91-day Treasury bills (C,Lg,Lg)* Yield on new high-grade corporate bonds (Lg,Lg,Lg)* Yield on long-term Treasury bonds (C,Lg,Lg)* Yield on municipal bonds, 20-bond average (U,Lg,Lg)* Secondary market yields on FHA mortgages (Lg,Lg,Lg)* Average prime rate charged by banks (Lg,Lg,Lg)* Index of stock prices, 500 common stocks, 1941-43=10, | 3.02 3.02 7.35 6.45 5.59 7.46 6.00 451.41 | 3.09 3.14 8.25 7.43 6.36 8.54 6.00 422.84 | 2.92 3.25 8.12 7.30 6.22 8.12 6.00 435.64 | 3.02 3.06 7.91 7.17 6.16 8.04 6.00 435.23 | 3.03 2.95 7.73 6.89 5.87 7.55 6.00 441.70 | 3.07 2.97 7.39 6.65 5.64 7.57 6.00 450.16 | 2.96 2.89 7.48 6.64 5.76 7.56 6.00 | 3.00 2.96 7.52 6.68 5.73 7.59 6.00 445.25 | 3.04 3.10 7.48 6.55 5.63 7.52 6.00 448.06 | 3.06 3.05 7.35 6.34 5.57 7.51 6.00 447.29 | 3.03 3.05 7.04 6.18 5.45 7.02 6.00 454.13 | 3.09 2.96 6.88 5.94 5.29 7.03 6.00 459.24 | 2.99 3.04 6.88 5.90 5.25 7.08 6.00 463.90 | 3.02 3.12 7.22 6.25 5.47 7.51 6.00 462.89 | 2.96 3.08 7.28 6.27 5.35 7.52 6.00 465.95 |
| | NSA (L,L,L)*. | | | | 40.3145 | | .===\\ | | | | | | | | | |
| 13. NATIONAL DEFENSE 525 Defense Department prime contract awards, mil.\$ 11,358 9,579 11,628 10,231 9,317 10,169 9,656 11,785 "11,359 | | | | | | | | | | | | | | | | |
| 525 548 557 | Defense Department prime contract awards, mil.\$ | 77,460 78.7 | 6,620 83.2 | 7,592 82.5 | 11,358 8,812 82.0 | 9,579 6,361 81.5 | 11,628 7,411 80.7 | 10,231 6,853 80.5 | 9,317 5,434 79.5 | 10,169 5,788 78.6 | 9,656 7,231 78.6 | 11,785 6,598 78.0 | ^p 11,359 6,446 77.5 | 75,304 76.9 | 75,278 76.6 | P 5,944 |
| 570 564 ◆ | Employment, defense products industries, thous. Federal Government purchases, national defense, bil.\$, AR | 303.6 | 1,019 315.7 | 1,010 | 998 | 992 304.8 | 983 | 976 | 963 307.6 | 952 | 941 | 933 301.9 | 929 | [,] 922 | ^P 912 ^P 300.0 | |
| 14. EXPORTS AND IMPORTS | | | | | | | | | | | | | | | | |
| 602 604 606 612 614 616 618 • 620 • | Exports, excluding military aid shipments, mil.\$ Exports of domestic agricultural products, mil.\$ Exports of nonelectrical machinery, mil.\$ General imports, mil.\$ Imports of petroleum and petroleum products, mil.\$ Imports of automobiles and parts, mil.\$ Merchandise exports, adjusted, excluding military, mil.\$ Merchandise imports, adjusted, excluding military, mil.\$ Merchandise imports, adjusted, excluding military, mil.\$ 1 | | 37,796 73,451 8,026 45,633 3,923 6,163 113,992 139,954 -25,962 | 39,178 3,518 8,438 46,143 4,204 6,441 | 37,504 3,358 7,817 45,176 4,059 6,147 | 36,928 3,484 8,090 44,832 4,146 6,833 111,530 140,839 -29,309 | 38,894 3,223 8,402 49,347 4,675 7,265 | 38,479 3,543 8,030 48,660 5,277 7,046 | 38,930 3,388 8,263 47,306 4,300 6,431 113,118 147,502 -34,384 | 37,639 3,570 8,017 49,698 5,077 6,819 | 37,109 3,424 8,152 47,534 4,405 5,947 | 38,050 3,319 8,559 48,097 3,689 6,691 ^P ,111,912 ^P ,148,191 ^P ,-36,279 | 38,885 3,629 8,364 49,506 3,717 7,074 | 740,092 3,696 8,218 750,990 3,960 6,852 | 40,066 3,415 8,807 50,235 3,432 6,760 | |
| 15. INTERNATIONAL COMPARISONS | | | | | | | | | | | | | | | | |
| Industrial production indexes (1987=100): | | | | | | | | | | | | | | | | |
| 47 • 721 • 728 • 725 • 726 • 727 • 723 • | United States OECD, European countries ² Japan Federal Republic of Germany France United Kingdom Italy Canada | | 108.4 107 113.1 110 107 7103 107.3 100.0 | 108.9 105 112.6 107 106 7103 100.7 100.5 | 109.3 7106 112.2 107 105 7103 106.2 100.7 | 109.9 7107 113.5 106 107 7104 106.8 101.6 | 110.1 110.5 108 107 104 105.2 103.1 | 110.4 105 113.4 106 106 7104 100.7 102.2 | 110.2 7 107 110.6 107 106 7 106 105.1 7 101.9 | 110.5 7106 112.5 107 106 7105 102.7 103.7 | 110.8 107 111.9 106 106 106 105.1 102.9 | 111.0 7108 110.9 108 106 106 103.3 7103.5 | 111.4 *107 113.3 *108 106 106 103.1 *104.4 | r 112.1 r 107.4 107 p 105 p 107 | P 109.5 P 106 | P 114.0 |
| 320 738 735 736 732 737 733 | Consumer price indexes (1982-84=100): United States, NSA Percent change over 6-month span, AR Japan, NSA Percent change over 6-month span, AR Federal Republic of Germany, NSA Percent change over 6-month span, AR France, NSA Percent change over 6-month span, AR United Kingdom, NSA Percent change over 6-month span, AR Italy, NSA Percent change over 6-month span, AR Landa, NSA Percent change over 6-month span, AR Roanda, NSA Percent change over 6-month span, AR | 118.5 | 142.0 3.6 117.4 1.0 122.3 5.0 141.4 3.0 164.1 1.1 182.0 3.6 146.4 2.2 | 141.9 3.6 117.4 1.4 122.4 5.3 141.4 3.6 163.6 1.1 182.3 3.5 146.4 1.5 | 142.6 3.6 117.3 1.9 123.8 5.2 141.9 3.1 162.0 .1 182.9 3.8 147.0 2.2 | 143.1 3.4 117.4 1.0 124.3 4.5 142.4 3.1 163.1 .9 183.6 3.6 147.4 | 143.6 3.1 117.7 1.0 124.7 4.6 143.1 2.8 163.7 .5 184.0 4.1 147.3 | 144.0 2.3 118.5 2.7 125.1 3.8 143.2 2.1 165.2 2.7 184.7 4.9 147.3 | 144.2 2.1 118.6 2.9 125.5 3.2 143.5 1.4 165.8 2.3 185.4 5.2 147.6 | 144.4 1.8 118.5 1.7 125.7 2.9 143.4 1.1 165.7 2.4 186.4 5.2 147.6 2.3 | 144.4 1.8 118.8 126.0 2.4 143.5 1.3 165.3 2.6 187.1 4.9 148.0 1.8 | 144.8 1.9 119.2 .7 126.0 °2.9 143.5 1.1 166.0 2.0 187.2 4.7 148.1 2.6 | 145.1 2.4 119.3 1.0 126.1 2.6 144.0 | 145.7 119.2 126.4 144.3 166.6 188.6 | 145.8 118.5 7126.7 144.4 166.4 189.5 149.1 | 145.8 118.6 126.8 166.7 189.5 |
| 19 • 748 • 745 • 746 • 742 • 747 • 743 • | Stock price indexes (1967=100, NSA): United States* Japan* Federal Republic of Germany* France* United Kingdom* Italy* § Canada* | 491.0 1,368.4 312.5 968.0 1,370.4 567.5 441.1 | 460.0 1,151.6 269.8 861.7 1,240.2 475.2 370.8 | 473.9 1,197.7 269.1 866.9 1,281.8 453.4 378.6 | 473.4 1,157.0 277.9 868.7 1,302.2 r 497.5 373.5 | 480.5 1,171.5 291.9 908.6 1,324.5 528.2 390.0 | 489.7 1,233.8 296.8 945.8 1,351.0 *534.4 407.1 | 482.0 1,409.7 293.6 938.8 1,324.5 544.0 428.2 | 484.3 1,471.1 286.1 902.3 1,324.5 *575.4 437.4 | 487.4 1,462.1 293.3 907.8 1,339.0 559.7 448.2 | 486.6 1,468.4 311.6 954.3 1,323.9 579.9 448.3 | 494.0 1,509.9 325.3 1,021.0 1,404.6 **P 616.1 467.5 | 499.6 1,504.5 322.8 1,006.6 1,412.4 ************************************ | 504.6 P 1,466.1 337.9 1,047.2 P 1,421.5 PP 599.0 480.9 | 503.5 P 1,308.8 345.9 1,033.6 P 1,418.1 P 558.5 472.3 | 506.9 P 1,257.5 P 366.4 P 1,080.9 P 1,499.1 P 603.1 488.3 |
| 750 ♦ | Exchange rates: Exchange value of U.S. dollar, index: March 1973=100, NSA 3*. | 93.18 | 90.04 | 90.50 | 92.36 | 93.82 | 93.65 | 90.62 | 90.24 | 91.81 | 94.59 | 94.32 | 92.07 | 93.29 | 95.47 | 95.73 |
| 758 • 755 • 756 • 752 • 757 • 753 • | NSA* Foreign currency per U.S. dollar (NSA): Japan (yen)* Federal Republic of Germany (d. mark)* France (franc)* United Kingdom (pound)* Italy (lira)* Canada (dollar)* | 111.08 1.6545 5.6669 .6662 1,573.41 1.2902 | 123.88 1.5875 5.3706 .6550 1,364.45 1.2674 | 124.04 1.5822 5.3974 .6447 1,412.38 1.2725 | 124.99 1.6144 5.4751 .6525 1,491.07 1.2779 | 120.76 1.6414 5.5594 .6947 1,550.43 1.2602 | 117.02 1.6466 5.5944 .6841 1,591.35 1.2471 | 112.41 1.5964 5.3984 .6474 1,536.14 1.2621 | 110.34 1.6071 5.4180 .6461 1,475.66 1.2698 | 107.41 1.6547 5.5700 .6630 1,505.05 1.2789 | 107.69 1.7157 5.8464 .6687 1,586.02 1.2820 | 103.77 1.6944 5.9298 .6705 1,603.75 1.3080 | 105.57 1.6219 5.6724 .6558 1,569.10 1.3215 | 107.02 1.6405 5.7541 .6656 1,600.93 1.3263 | 107.88 1.7005 5.9069 .6753 1,666.31 1.3174 | 109.91 1.7105 5.8477 .6706 1,687.17 1.3308 |
| | | | | 16. ALT | ERNATI | VE COM | POSITE | INDEXE | s | | | | | | | |
| 990 • 991 • | CIBCR long-leading composite index, 1967=100 ⁴ | 259.1 223.9 | 250.1 r 216.8 | 236.8 221.8 | 254.7 220.4 | 256.3 222.9 | ⁷ 258.6 222.2 | 254.8 221.7 | ⁷ 256.2 219.3 | 258.0 223.1 | 258.8 r 222.2 | ⁷ 259.0 ⁷ 223.6 | r 259.6 r 225.4 | r 261.6 r 227.2 | 264.6 , 229.7 | ^p 266.4 ^p 228.8 |

See footnotes on page C-6.

FOOTNOTES FOR PAGES C-1 THROUGH C-5

a Anticipated. NSA Not seasonally adjusted.
AR Annual rate. p Preliminary.

Annual rate. p Preliminary. Corrected. r Revised.

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Graph included for this series.

Major revision—see notes.

Later data listed in notes. ♦ End of period.

L,C,Lg,U Cyclical indicator series are classified as L (leading), C (coincident), Lg (lagging), or U (unclassified) at reference cycle peaks, troughs, and overall. Series classifications are shown in parentheses following the series titles.

- ‡ Cyclical indicator series denoted by ‡ are inverted (i.e., the sign is reversed) for cyclical analysis calculations, including classifications, contributions to composite indexes, and current high values.
- † Cyclical indicator series denoted by † are smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

For information on composite indexes and other concepts used in this section, see "Business Cycle Indicators: Upcoming Revision of the Composite Indexes" in the October 1993 Survey of Current Business and "The Composite Index of Coincident Indicators and Alternative Coincident Indexes" in the June 1992 Survey.

References to series in this section use the prefix "BCI-" followed by the series number. Unless otherwise noted, series are seasonally adjusted.

Percent change data are centered within the spans: 1-month changes are placed in the ending month, 3-month changes are placed in the 3d month, 6-month changes are placed in the 4th month, 1-quarter changes are placed in the ending quarter, and 4-quarter changes are placed in the 3d quarter.

Diffusion indexes are defined as the percent of components rising plus one-half of the percent of components unchanged. Diffusion index data are centered within the spans: 1-month indexes are placed in the ending month and 6-month indexes are placed in the 4th month.

High values reached by cyclical indicators in the expansion following the last reference cycle trough (March 1991) are shown in boldface type; high values reached prior to the period shown in the table are listed at the bottom of each page. For inverted series, low values are indicated as highs.

Sources for series in this section are shown on pages C-50 and C-51 in the November 1993 SURVEY.

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С

Note.-Major data revisions:

Vendor performance (BCI-32) has been revised by the source from 1991 forward to incorporate updated seasonal adjustment factors. For further information, contact the National Association of Purchasing Management, 2055 East Centennial Circle, Tempe, AZ 85285-2160.

Average duration of unemployment (BCI-91)—see note for page C-2.

- * Preliminary January 1994 values: BCI-32 = 55.0, BCI-19 = 472.99, and BCI-109 = 6.00.
- Data include initial claims made under the July 1992 Emergency Unemployment Compensation amendments. Data exclude Puerto Rico, which is included in figures published by the source agency.
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 - 3. Excludes BCI-57, for which data are not available.
 - 4. Excludes BCI-77 and BCI-95, for which data are not available.
- 5. The wages and salaries portion of this series has been adjusted to smooth yearend 1992 bonus payments that are in the revised national income and product accounts data. The bonus payments were too large to be adequately dealt with by the autoregressive-moving-average filter used to smooth this page.

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Note.—Major data revisions:

Series on employment and unemployment in the civilian labor force (BCl-37, -42, -43, -44, -90, -91, -441, -442, -451, -452, and -453) have been revised by the source from 1989 forward to incorporate updated seasonal adjustment factors. For further information, contact the U.S. Department of Labor, Bureau of Labor Statistics, Division of Employment and Unemployment Analysis, Washington, DC 20210.

The ratio of help-wanted advertising in newspapers to number of persons unemployed (BCI-60) has been revised from 1989 forward to incorporate revised unemployment data. For further information, contact the U.S. Department of Commerce, Bureau of Economic Analysis, Business Outlook Division, Washington, DC 20230.

Vendor performance (BCI-32)—see note for page C-1.

- * Preliminary January 1994 value: BCI-32 = 55.0; Anticipated 1st quarter 1994 values: BCI-61 = 616.38 and BCI-100 = 590.64; anticipated 2d quarter 1994 values: BCI-61 = 624.33 and BCI-100 = 600.38.
- 1. Data include initial claims made under the July 1992 Emergency Unemployment Compensation amendments. Data exclude Puerto Rico, which is included in figures published by the source agency.
 - 2. Data exclude Puerto Rico, which is included in figures published by the source agency.

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- * Preliminary January 1994 value: BCI-23 = 268.7.
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- * Preliminary January 1994 values: BCI-122 = 83.2, BCI-123 = 93.4, and BCI-85 = 0.32.
- 1. See footnote 5 for page C-1.
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Note.—Major data revision: The stock price index for Italy (BCI-747) has been revised to incorporate new source data. For further information, contact the International Monetary Fund, Statistics Department, Financial Institutions, Division 1, 700 19th Street NW, Washington, DC 20431.

- * Preliminary January 1994 values: BCI-119 = 3.02, BCI-114 = 3.02, BCI-116 = 7.16, BCI-115 = 6.24, BCI-117 = 5.30, BCI-109 = 6.00, BCI-19 (1941-43=10) = 472.99, BCI-19 (1967=100) = 514.5, BCI-748 = 1,356.2, BCI-745 = 366.4, BCI-746 = 1,111.9, BCI-742 = 1,573.3, BCI-743 = 513.5, BCI-750 = 96.57, BCI-758 = 111.58, BCI-755 = 1.7427, BCI-756 = 5.9214, BCI-752 = 0.6703, BCI-757 = 1,699.66, and BCI-753 = 1.3167.
- Balance of payments basis: Excludes transfers under military grants and Department of Defense sales contracts (exports) and Department of Defense purchases (imports).
 - 2. Organisation for Economic Co-operation and Development.
- 3. This index is the weighted-average exchange value of the U.S. dollar against the currencies of the other G-10 countries plus Switzerland. Each country is weighted by its 1972–76 global trade. For a description of this index, see the August 1978 Federal Reserve Bulletin (p. 700).
- 4. This index is compiled by the Center for International Business Cycle Research (CIBCR), Graduate School of Business, Columbia University, New York, NY 10027.