

SURVEY *of* CURRENT BUSINESS





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Gross Domestic Product (May 27),

Personal Income and Outlays (May 31), and

Composite Indexes of Leading, Coincident, and Lagging Indicators (June 2).

T A B L E O F C O N T E N T S

Regular features

1 Business Situation

Real GDP increased 3.0 percent in the first quarter of 1994, down from a 7.0-percent increase in the fourth quarter of 1993. Corporate profits decreased \$33.5 billion after increasing \$39.4 billion; the downturn was partly attributable to the effects of the Northridge earthquake. The Federal deficit decreased \$42.3 billion, to \$164.7 billion; the State and local government position deteriorated \$9.0 billion, to a deficit of \$1.8 billion.

36 Pollution Abatement and Control Expenditures, 1972–92: Estimates for 1992 and Revised Estimates for 1972–91

Real spending for pollution abatement and control (PAC) increased 5.1 percent in 1992, in contrast to a 0.7-percent decrease in 1991. Spending increased for all three major types of pollution abatement—air, water, and solid waste—but the increase for solid waste was the largest. During 1972–92, PAC spending increased at a 3.3-percent average annual rate.

50 U.S. Business Enterprises Acquired or Established by Foreign Direct Investors in 1993

In 1993, after declining for 4 years, outlays by foreign investors for acquiring and establishing U.S. businesses increased sharply. The turnaround partly reflected the continued U.S. economic expansion, improved borrowing conditions in the United States, and improved business conditions in the United Kingdom and Canada—traditionally two of the largest investor countries.

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LOOKING AHEAD

- ✿ ***Annual Revision of the International Transactions Accounts.*** An article presenting revised estimates of U.S. international transactions and discussing major sources of the revisions will appear in the June SURVEY. The revisions will extend as far back as 1984 for some series. Selected data will be available as of June 21.
 - ✿ ***Annual Revision of the National Income and Product Accounts.*** An article presenting revised NIPA estimates and discussing major sources of the revisions will appear in the July SURVEY. The revisions will cover the 3-year period beginning with the first quarter of 1991. Selected data will be available as of July 29.
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THE BUSINESS SITUATION

This article was prepared by Daniel Larkins, Larry R. Moran, Ralph W. Morris, Deborah Y. Sieff, and Michael W. Webb.

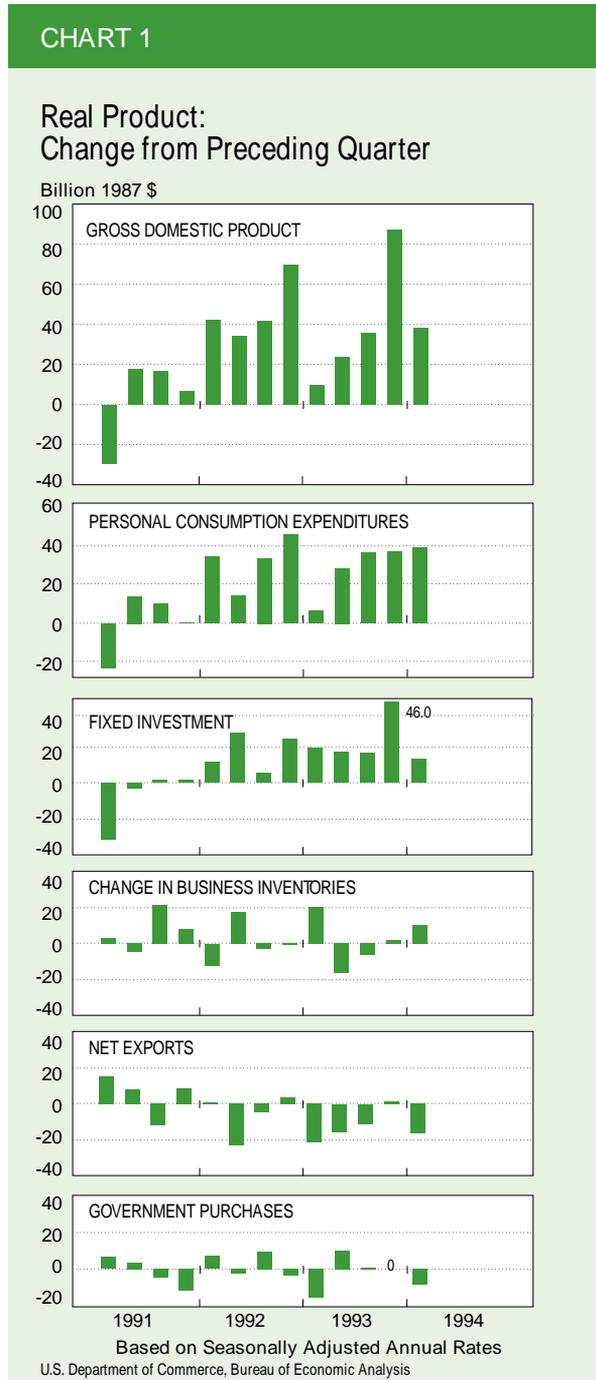
REAL GROSS domestic product (GDP), a measure of goods and services produced in the United States, increased 3.0 percent in the first quarter of 1994, according to the "preliminary" estimate of the national income and product accounts (NIPA's). The "advance" estimate of the NIPA's, reported in the April "Business Situation," showed a 2.6-percent increase.¹ Real gross domestic purchases, a measure of goods and services purchased by U.S. residents, increased 4.2 percent, 0.1 percentage point more than the advance estimate. The fixed-weighted price index for gross domestic purchases increased 2.6 percent, 0.3 percentage point more than the advance estimate. (The sources of these revisions are discussed in "Revisions" later in this article.)

The 3.0-percent increase in real GDP in the first quarter followed a 7.0-percent increase in the fourth (chart 1). The deceleration was accounted for by sharply slower growth in the production of goods other than motor vehicles and by a downturn in the production of structures; the production of motor vehicles surged again in the first quarter, and the production of services picked up after a modest increase (table 1).

The 4.2-percent increase in real gross domestic purchases followed an increase of 6.7 percent (table 2). The slowdown was more than accounted for by final sales to domestic purchasers; inventory investment accelerated. Within final sales, residential and nonresidential fixed investment increased much less in the first quarter than in the fourth, and government purchases dropped after no change. Personal consumption expenditures, in contrast, increased a little more than in the fourth quarter.

Exports and imports are the link between the goods and services produced in the United States (or GDP) and the goods and services purchased by U.S. residents (or gross domestic purchases). Exports decreased slightly in the first quarter after a

strong fourth-quarter increase; imports increased about half as much in the first quarter as in the fourth.



1. 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 and are based on 1987 weights. Alternatively weighted measures of real GDP and prices are discussed on page 8 of this article.

Northridge earthquake.—The Northridge earthquake struck southern California on the morning of January 17. The destruction it caused—and the reconstruction and relief efforts that it gave rise to—affected the components of first-quarter GDP and gross domestic purchases, but most of these effects are embedded in the source data that are used to estimate the components. Thus, the effects of the earthquake and reconstruction cannot be disentangled from the effects of unseasonably cold weather in much of the Nation or, indeed, from the effects of any other factor.

However, the Bureau of Economic Analysis did estimate the extent of the earthquake's damage to fixed capital and the resulting effects on various components of personal income and on corporate profits. Those estimates were presented in the April "Business Situation."

Personal consumption expenditures

Real personal consumption expenditures (PCE) increased 4.6 percent in the first quarter after increasing 4.4 percent in the two preceding quarters (table 3). All major components contributed to the first-quarter increase.

Among the factors usually associated with changes in consumer spending, the strongest improvement in the first quarter was posted by the Index of Consumer Sentiment (prepared by the University of Michigan's Survey Research Center), which jumped to its highest level in 5 years (chart 2). The unemployment rate, in contrast, changed little. Real disposable personal income increased 2.6 percent in the first quarter after increasing 5.4 percent in the fourth.

Expenditures for durable goods increased 10.2 percent after increasing 15.2 percent. Nearly all of the first-quarter increase was accounted for by

Table 1.—Real Gross Domestic Product, by Major Type of Product

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I				
Gross domestic product	5,264.1	23.9	36.2	87.3	38.5	1.9	2.9	7.0	3.0
Goods	2,163.8	8.9	5.8	56.0	32.9	1.7	1.1	11.2	6.3
Motor vehicles	238.7	-2.6	-10.2	21.7	23.6	-4.9	-18.6	53.0	51.7
Other	1,925.1	11.5	16.0	34.3	9.3	2.5	3.5	7.5	2.0
Services	2,623.6	12.2	19.2	9.3	17.6	1.9	3.0	1.4	2.7
Structures	476.7	2.8	11.1	22.1	-12.0	2.5	10.1	20.3	-9.5

NOTE.—Most series are found in table 1.4 of the "Selected NIPA Tables." Output of motor vehicles is the sum of auto output and truck output (from tables 8.4 and 8.6).

Table 2.—Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I				
Gross domestic product	5,264.1	23.9	36.2	87.3	38.5	1.9	2.9	7.0	3.0
Less: Exports of goods and services	618.4	5.2	-1.3	28.1	-1.6	3.6	-9	20.4	-1.0
Plus: Imports of goods and services	719.2	20.5	9.8	26.3	14.7	13.3	6.0	16.4	8.6
Equals: Gross domestic purchases	5,364.9	39.3	47.2	85.4	54.9	3.1	3.7	6.7	4.2
Less: Change in business inventories	19.1	-16.3	-6.5	2.0	10.6	.....	.....	.....	.....
Equals: Final sales to domestic purchasers	5,345.8	55.5	53.8	83.5	44.2	4.4	4.2	6.6	3.4
Personal consumption expenditures	3,546.3	28.9	36.9	37.3	39.4	3.4	4.4	4.4	4.6
Nonresidential fixed investment	635.0	22.0	10.5	30.9	9.3	16.6	7.4	22.5	6.1
Residential investment	231.4	-5.2	5.9	15.1	4.2	-9.5	11.9	31.7	7.6
Government purchases	933.1	9.8	.6	0	-8.6	4.3	.3	0	-3.6

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.

motor vehicles and parts, which jumped sharply for the second consecutive quarter. Net purchases of used autos increased sharply; purchases of new foreign autos and of trucks also increased, while purchases of new domestic autos decreased.

Expenditures for nondurable goods increased 4.2 percent after increasing 2.7 percent. Food and "other" nondurable goods accounted for most of the first-quarter increase. Clothing and shoes and fuel oil and coal also increased, while gasoline and oil decreased.

Expenditures for services increased 3.3 percent after increasing 2.6 percent. "Other" services accounted for more than half of the first-quarter increase. Among "other" services, brokerage charges increased the most.

Nonresidential fixed investment

Real nonresidential fixed investment increased 6.1 percent in the first quarter after jumping 22.5 percent in the fourth (table 4). Structures turned down sharply after four consecutive increases; producers' durable equipment increased strongly, though less than in the fourth quarter.

Factors that affect investment spending were mixed in the first quarter. The yield on new high-grade corporate bonds increased 23 basis points but remained low. The capacity utilization rate in manufacturing continued its uptrend with a 1.0-percentage-point increase. Real final

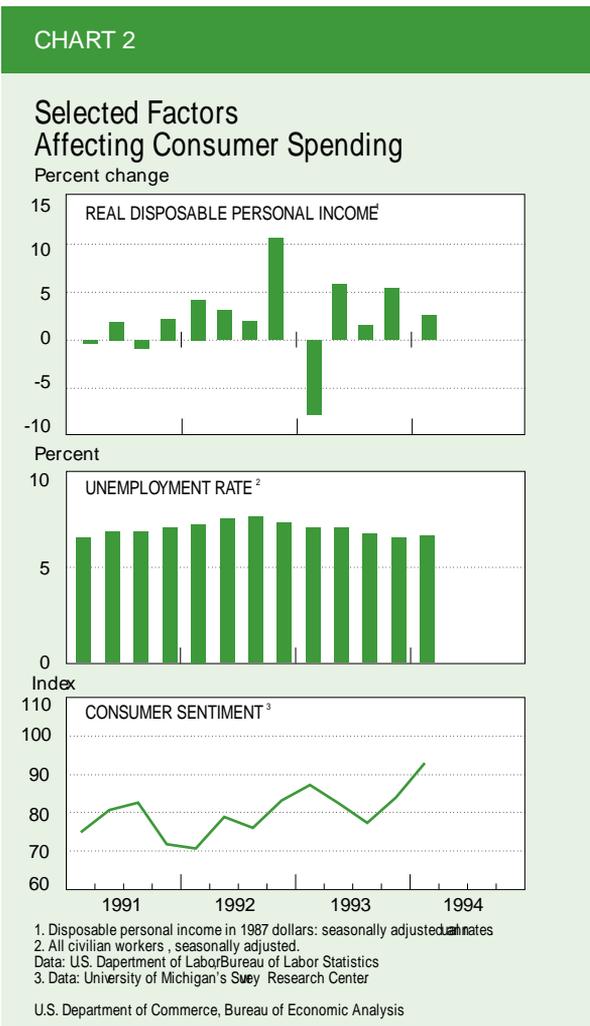


Table 3.—Real Personal Consumption Expenditures

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I				
Personal consumption expenditures	3,546.3	28.9	36.9	37.3	39.4	3.4	4.4	4.4	4.6
Durable goods	523.4	12.3	8.9	17.8	12.5	10.8	7.6	15.2	10.2
Motor vehicles and parts	211.3	5.6	-1.4	9.8	11.6	12.6	-2.9	22.3	25.3
New autos	86.3	2.4	-7	6.2	1.9	13.2	-3.5	35.7	9.3
New trucks	48.0	1.3	-2.4	6.0	1.1	13.0	-20.4	72.9	9.7
Other	77.0	1.9	1.7	-2.4	8.6	11.8	10.2	-12.9	60.6
Furniture and household equipment	227.9	5.9	7.0	7.7	.8	11.9	13.8	14.8	1.4
Other	84.3	.9	3.1	.4	.2	4.6	16.3	1.9	1.0
Nondurable goods	1,111.5	7.1	9.9	7.2	11.3	2.7	3.7	2.7	4.2
Food	541.1	1.9	4.0	3.4	5.1	1.5	3.1	2.6	3.9
Clothing and shoes	205.6	3.0	2.8	4.0	1.0	6.3	5.8	8.2	2.0
Energy ¹	99.3	-1	2.7	-9	.8	-4	11.6	-3.6	3.3
Other	265.4	2.2	.5	.7	4.3	3.5	.8	1.1	6.8
Services	1,911.4	9.5	18.1	12.3	15.6	2.1	3.9	2.6	3.3
Housing	497.5	1.9	2.6	2.0	2.2	1.6	2.1	1.6	1.8
Household operation	222.1	-2.3	5.2	.5	.8	-4.2	10.0	.9	1.5
Energy ²	101.0	-2.9	4.4	-3	.7	-11.2	19.6	-1.2	2.8
Other household operation	121.1	.6	.8	.9	0	2.0	2.7	3.0	0
Transportation	129.1	1.6	.4	1.5	1.1	5.2	1.3	4.8	3.5
Medical care	472.8	3.1	4.0	4.2	3.5	2.7	3.5	3.7	3.0
Other	590.0	5.0	6.1	4.0	8.1	3.6	4.3	2.8	5.7

1. Gasoline and oil, and fuel oil and coal.
 2. Electricity and gas.

NOTE.—Dollar levels are found in table 2.3 of the "Selected NIPA Tables." New auto and truck purchases are found in tables 8.4 and 8.6. Percent changes in major aggregates are found in table 8.1.

sales of domestic product slowed to a 2.2-percent increase, its smallest increase in four quarters. Corporate profits turned down sharply, and cash flow turned down moderately. Nevertheless, a recent Census Bureau survey found that businesses have revised up their current-dollar plant and equipment spending plans for 1994; the implied growth of real spending for 1994 rose as a result, to 9.8 percent from 7.0 percent.

Structures fell 20.1 percent after posting the largest increase in more than 6 years. All four of the major components of structures contributed to the downturn. In buildings, which contributed the most to the downturn, both industrial and commercial structures decreased after increasing.

Producers' durable equipment (PDE) slowed to a 16.1-percent increase from a 26.0-percent increase. About two-thirds of the slowdown was accounted for by information processing and related equipment, mainly computers. Industrial equipment and "other" PDE also contributed to the slowdown. Transportation equipment stepped up slightly: Purchases of autos turned up sharply, purchases of trucks jumped (though less than in the fourth quarter), and purchases of aircraft dropped less than in the fourth quarter.

Residential investment

Real residential investment increased 7.6 percent in the first quarter after jumping 31.7 percent

in the fourth. The deceleration reflected a slowdown in single-family construction and a downturn in "other" residential investment.²

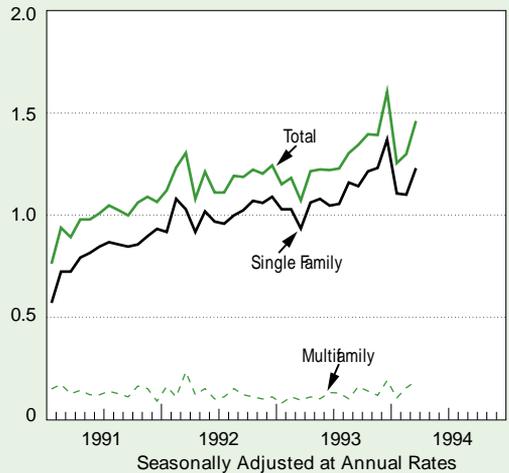
Single-family construction increased 19.7 percent after increasing 39.8 percent. Single-family

2. "Other" residential investment includes improvements (major replacements and additions and alterations), sales of new mobile homes, brokers' commissions on house sales, and residential equipment.

CHART 3

Housing Starts

Millions of units



Data: Bureau of the Census
U.S. Department of Commerce, Bureau of Economic Analysis

Table 4.—Real Gross Private Domestic Fixed Investment

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I	II	III	IV	I
Gross private domestic fixed investment	866.4	16.9	16.3	46.0	13.5	9.0	8.5	24.8	6.5
Nonresidential	635.0	22.0	10.5	30.9	9.3	16.6	7.4	22.5	6.1
Structures	147.1	2.9	.1	4.4	-8.5	8.1	.3	12.2	-20.1
Nonresidential buildings, including farm	100.5	1.2	1.0	4.5	-5.5	4.9	4.0	18.9	-19.2
Utilities	29.4	.7	-1.1	.7	-1.8	9.7	-1.3	9.5	-21.2
Mining exploration, shafts, and wells	10.5	1.0	.3	-8	-4	44.4	10.9	-24.7	-13.9
Other	6.7	.1	-1.2	0	-8	4.7	-44.8	0	-36.3
Producers' durable equipment	487.9	19.1	10.4	26.4	17.9	19.8	10.0	26.0	16.1
Information processing and related equipment	222.2	8.2	14.1	13.7	7.6	19.7	33.8	30.2	14.9
Computers and peripheral equipment	117.2	5.0	10.6	7.3	4.8	24.3	53.0	30.8	18.2
Other	105.0	3.3	3.6	6.3	2.8	15.7	16.5	29.0	11.4
Industrial equipment	87.1	2.1	1.7	4.2	2.4	11.4	8.9	22.6	11.8
Transportation and related equipment	97.0	7.1	-7.1	5.3	6.0	37.5	-27.3	27.1	29.1
Motor vehicles	86.5	6.9	-3.0	4.7	7.7	45.5	-14.7	27.9	45.2
Other	10.5	.2	-4.1	.6	-1.7	5.3	-70.2	22.4	-45.1
Other	81.5	1.7	1.6	3.2	1.8	9.6	8.8	17.8	9.3
Residential	231.4	-5.2	5.9	15.1	4.2	-9.5	11.9	31.7	7.6
Single-family structures	125.1	-5.2	1.3	9.6	5.5	-17.0	4.9	39.8	19.7
Multifamily structures	9.4	-1	.8	-4	0	-4.3	40.6	-15.4	0
Other	96.9	.2	3.8	5.9	-1.3	.9	18.3	28.1	-5.2

NOTE.—Dollar levels are found in table 5.5 of the "Selected NIPA Tables." Motor vehicles are found in tables 8.4 (autos) and 8.6 (trucks). Percent changes in major aggregates are found in table 8.1.

construction in a quarter is largely determined by the housing starts in that quarter and in the preceding quarter. Therefore, construction in the first quarter of 1994 reflected housing starts in that quarter and in the fourth quarter of 1993. In these two quarters, housing starts averaged 1.23 million units (annual rate), up from an average of 1.21 million units in the third and fourth quarters; the average for the second and third quarters had been 1.11 million (chart 3).

Multifamily construction, which currently accounts for less than 5 percent of residential investment, was unchanged after decreasing 15.4 percent. The rental vacancy rate increased to 7.5 percent from 6.9 percent.

“Other” residential investment decreased 5.2 percent after increasing 28.1 percent. The decrease was mainly accounted for by brokers’ commissions, which reflected a decrease in house sales; sales of new single-family homes decreased 88,000 units, and sales of existing homes decreased 117,000 units (seasonally adjusted annual rates). In part, the decrease in sales may have reflected an upturn in mortgage rates: After hitting a 30-year low of 6.83 percent in October 1993, mortgage rates increased steadily, to 7.68 percent in March 1994 (chart 4).

Inventory investment

Real inventory investment—that is, the change in business inventories—increased \$10.6 billion in the first quarter after increasing \$2.0 billion in the fourth. The first-quarter increase mainly reflected a step-up in nonfarm inventory accumulation (table 5).

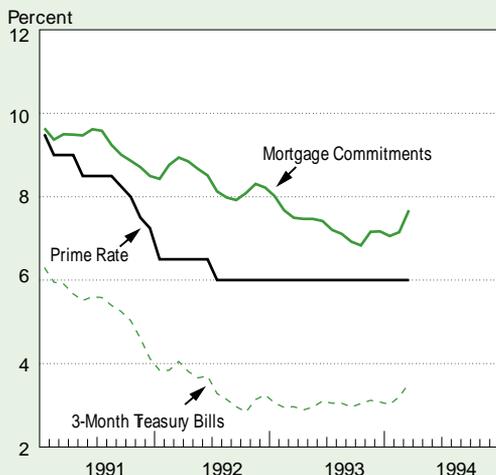
Nonfarm inventories increased \$21.1 billion after increasing \$12.9 billion. The step-up was attributable to an upturn in manufacturing inventories and to faster accumulation of retail automotive inventories.

Manufacturing inventories of both durable goods and nondurable goods increased in the first quarter after decreasing in the fourth. The increase in inventories of durable goods was more than accounted for by electronic and industrial equipment; the fourth-quarter decrease was more than accounted for by (ongoing) reductions in inventories of transportation equipment other than motor vehicles. The increase in inventories of nondurable goods was accounted for by food and petroleum.

Wholesale trade inventories decreased in the first quarter after increasing in the fourth. In-

CHART 4

Selected Interest Rates



Data: Federal Reserve Board

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

Table 5.—Change in Real Business Inventories

[Billions of 1987 dollars; seasonally adjusted at annual rates]

	Level					Change from preceding quarter			
	1993				1994	1993			1994
	I	II	III	IV	I	II	III	IV	I
Change in business inventories	29.3	13.0	6.5	8.5	19.1	-16.3	-6.5	2.0	10.6
Farm	0	-4.1	-12.9	-4.4	-1.9	-4.1	-8.8	8.5	2.5
Nonfarm	29.3	17.1	19.4	12.9	21.1	-12.2	2.3	-6.5	8.2
Manufacturing	-8	5.0	3.1	-5.3	6.0	5.8	-1.9	-8.4	11.3
Wholesale trade .....	.7	6.6	6.4	1.2	-2.2	5.9	-2	-5.2	-3.4
Retail trade	24.0	3.0	4.8	11.1	10.5	-21.0	1.8	6.3	-6
Auto dealers	16.6	-5	-7.1	2.4	10.4	-17.1	-6.6	9.5	8.0
Other retail trade	7.4	3.5	11.9	8.7	.1	-3.9	8.4	-3.2	-8.6
Other	5.4	2.4	5.0	5.9	6.8	-3.0	2.6	.9	.9
Addenda: Motor vehicles	14.8	-1.9	-4.4	3.5	4.2	-16.7	-2.5	7.9	.7
Nonfarm less motor vehicles	14.5	19.0	23.8	9.4	16.9	4.5	4.8	-14.4	7.5

NOTE.—Dollar levels for change in real business inventories are found in table 5.11 of the “Selected NIPA Tables.” Motor vehicles are found in tables 8.4 (autos) and 8.6 (trucks).

ventories of both durable and nondurable goods decreased after increasing. The decrease in inventories of durable goods was more than accounted for by motor vehicles and parts.

Retail trade inventories other than those of autos changed little in the first quarter after increasing in the fourth.

Farm inventories decreased \$1.9 billion after decreasing \$4.4 billion. Inventories of livestock decreased after increasing slightly; the decrease reflected weakness in livestock output. Inventories of crops decreased less than in the fourth quarter. The first-quarter decrease reflected a pickup in open-market sales; decreases in the preceding two quarters reflected the effects of floods in the Midwest and drought in the Southeast in the summer of 1993.

The constant-dollar ratio of nonfarm inventories to all final sales of domestic businesses was unchanged at 2.45. A different ratio, in which final sales are limited to goods and structures, edged up to 4.22 from 4.21 in the fourth. (The advance estimates had shown first-quarter increases

in these ratios of 0.02 and 0.04, respectively.) In the fourth quarter, each ratio was at its lowest level in 20 years.

Net exports of goods and services

Real exports slipped 1.0 percent in the first quarter after jumping 20.4 percent in the fourth. Real imports slowed to an 8.6-percent increase from a 16.4-percent increase (table 6).

Exports of goods decreased 3.4 percent after jumping 29.4 percent. Following sharp fourth-quarter increases, exports of agricultural products dropped, and exports of nonagricultural products decreased slightly. Most of the downturn in nonagricultural exports was accounted for by autos and by nonautomotive capital goods, but other major end-use categories also showed weakness. Exports of services increased after a modest decrease.

Imports of goods increased 9.8 percent, about half as much as in the fourth quarter. Imports of petroleum and petroleum products turned

Table 6.—Real Net Exports of Goods and Services

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I				
Net exports of goods and services	-100.8	-15.3	-11.1	1.8	-16.3				
Exports of goods and services	618.4	5.2	-1.3	28.1	-1.6	3.6	-9	20.4	-1.0
Goods	459.0	4.3	-4	28.9	-4.0	4.1	-4	29.4	-3.4
Agricultural products	36.5	.1	-1.5	1.8	-2.6	1.0	-14.6	20.7	-24.1
Nonagricultural products	422.5	4.2	1.1	27.1	-1.4	4.4	1.1	30.2	-1.3
Services	159.4	.8	-.8	-.8	2.4	2.0	-2.0	-2.0	6.3
Imports of goods and services	719.2	20.5	9.8	26.3	14.7	13.3	6.0	16.4	8.6
Goods	613.0	19.8	9.2	24.0	14.1	15.3	6.7	17.8	9.8
Petroleum and products	56.7	4.4	-1.1	1.4	-1.4	37.3	-7.4	10.2	-9.3
Nonpetroleum products	556.2	15.4	10.3	22.5	15.5	13.1	8.4	18.5	12.0
Services	106.2	.7	.6	2.3	.6	2.8	2.4	9.2	2.3

NOTE.—Dollar levels are found in tables 4.2 and 4.4 of the "Selected NIPA Tables," and percent changes in major aggregates are found in table 8.1.

Table 7.—Real Government Purchases

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars					Percent change from preceding quarter			
	Level	Change from preceding quarter				1993			1994
		1993			1994	II	III	IV	I
	1994:I	II	III	IV	I				
Government purchases	933.1	9.8	0.6	0	-8.6	4.3	0.3	0	-3.6
Federal	344.6	1.8	-5.7	-4.7	-4.4	2.0	-6.2	-5.2	-4.9
National defense	228.0	.4	-6.3	-3.0	-9.1	.7	-9.8	-4.9	-14.5
Nondefense	116.6	1.5	.7	-1.9	4.8	5.5	2.5	-6.5	18.3
State and local	588.4	7.9	6.4	4.8	-4.4	5.6	4.5	3.3	-2.9
Structures	92.3	5.5	4.1	2.8	-7.0	27.8	19.0	12.1	-25.4
Other	496.1	2.4	2.3	2.0	2.6	2.0	1.9	1.6	2.1

NOTE.—Dollar levels are found in table 3.8B of the "Selected NIPA Tables," and percent changes in major aggregates are found in table 8.1.

down, and imports of nonpetroleum products slowed. The slowdown in nonpetroleum imports was more than accounted for by autos and by nonautomotive capital goods; imports of foods, feeds, and beverages and of industrial supplies and materials increased more than in the fourth quarter. Imports of services increased modestly after a larger increase.

Government purchases

Real government purchases decreased 3.6 percent in the first quarter after no change in the fourth (table 7). Both Federal Government purchases and State and local government purchases contributed to the decrease.

Federal defense purchases decreased 14.5 percent after decreasing 4.9 percent. The first-quarter decrease was spread across all types of purchases, but more than half of it was in services. Within services, the largest decreases were in contractual research and development and in travel of persons. Compensation of employees declined for the 12th consecutive quarter.

Federal nondefense purchases increased 18.3 percent after decreasing 6.5 percent. The increase was accounted for by purchases of nondurable goods and of services excluding compensation of employees.

State and local government purchases decreased 2.9 percent after increasing 3.3 percent. The decrease was more than accounted for by structures, which decreased after increases in the preceding three quarters; most types of structures contributed to the decrease.

Revisions

The preliminary first-quarter estimate of a 3.0-percent increase in real GDP is 0.4 percentage point higher than the advance estimate (table 8). The preliminary estimate of gross domestic purchases was revised from a 4.1-percent increase to a 4.2-percent increase.

The revision to GDP reflected revised estimates for exports and imports; the revision to gross domestic purchases did not. Exports were revised up \$13.4 billion, and imports were revised up \$9.9 billion; the net effect from these components was an upward revision in GDP of \$3.5 billion. The revisions in both exports and imports primarily reflected the incorporation of newly available source data that showed unexpectedly large increases in exports and imports in March.

A \$1.6 billion revision in gross domestic purchases reflected sizable, but largely offsetting,

revisions in its components. Personal consumption expenditures was revised up \$6.5 billion as a result of the incorporation of revised source data on retail sales for March; much of the revision reflected purchases at eating and drinking places. Federal Government purchases was revised up \$6.6 billion as a result of the incorporation of data on total outlays and on outlays by program for March from the *Monthly Treasury Statement*. The upward revisions in personal consumption expenditures and in Federal government purchases were largely offset by an \$11.4 billion downward revision in inventory investment. Most of the revision was in nonfarm inventories and reflected the incorporation of newly available source data on non-motor vehicle manufacturing and trade inventories for March.

Table 8.—Revisions in Real Gross Domestic Product and Prices, First Quarter 1994

[Seasonally adjusted at annual rates]

	Billions of 1987 dollars	Percent change from preceding quarter	
		Advance estimate	Preliminary estimate
	Preliminary estimate minus advance estimate		
Gross domestic product	5.1	2.6	3.0
Less: Exports of goods and services	13.4	-9.3	-1.0
Plus: Imports of goods and services	9.9	2.8	8.6
Equals: Gross domestic purchases	1.6	4.1	4.2
Personal consumption expenditures	6.5	3.8	4.6
Durables .....	.5	9.7	10.2
Nondurables	4.8	2.4	4.2
Services	1.2	3.1	3.3
Fixed investment .....	.2	6.4	6.5
Nonresidential .....	.9	5.5	6.1
Structures	-1.8	-16.1	-20.1
Producers' durable equipment	2.8	13.5	16.1
Residential	-2.8	9.1	7.6
Change in business inventories	-11.4	.....	.....
Nonfarm	-9.6	.....	.....
Farm	-1.7	.....	.....
Government purchases	6.3	-6.2	-3.6
Federal	6.6	-12.0	-4.9
National defense	-4	-13.9	-14.5
Nondefense	7.0	-7.6	18.3
State and local	-5	-2.6	-2.9
Gross domestic purchases price index (fixed weights) ¹ .....	.....	2.3	2.6
GDP price index (fixed weights) ¹ .....	.....	2.9	3.1

1. Based on 1987 weights.

NOTE.—Preliminary estimates for the first quarter of 1994 incorporate the following revised or additional major source data that were not available when the advance estimates were prepared a month ago.

Personal consumption expenditures: Revised retail sales for February and March, and consumers' share of new car and truck purchases for February.

Nonresidential fixed investment: Construction put in place for January and February (revised) and March, manufacturers' shipments of machinery and equipment for February (revised) and March, and business' share of new car and truck purchases for February.

Residential investment: Construction put in place for January and February (revised) and March.

Change in business inventories: Manufacturing and trade inventories for February (revised) and March, and revised unit inventories of motor vehicles for March.

Net exports of goods and services: Exports and imports of goods for February (revised) and March.

Government purchases: Federal outlays for March, State and local construction put in place for February (revised) and March, and Employment Cost Index for State and local government wages and salaries for the quarter.

Wages and salaries: Revised employment, average hourly earnings, and average weekly hours for February and March.

GDP prices: Detailed price indexes for exports and imports of goods for January through March, values and quantities of petroleum imports for March, and housing prices for the quarter.

The first-quarter increase in the fixed-weighted price index for gross domestic purchases was revised up 0.3 percentage point, and the increase in the index for GDP was revised up 0.2 percentage point. The revisions mainly reflected the incorporation of newly available price data for single-family houses for the first quarter.

Alternative measures

Currently, both of BEA's alternative measures of real GDP and GDP prices—the chain-type annual-weighted and benchmark-years-weighted measures—have 1992 weights for quarters beginning with the third quarter of 1992.³ Consequently, the alternative measures provide an estimate of the effect of shifting the price and quantity weights used in BEA's featured fixed-weighted measures from 1987 to 1992.

3. For a discussion of the weights used in calculating the alternative measures, see Allan H. Young, "Alternative Measures of Change in Real Output and Prices, Quarterly Estimates For 1959-92," SURVEY 73 (March 1993): 31-41.

In the first quarter, the alternative measures of real GDP increased 2.8 percent, 0.2 percentage point less than the 1987-weighted measure; in the fourth quarter, the alternative measures had increased 0.8 percentage point less than the 1987-weighted measure. About two-thirds of this narrowing was accounted for by computers, which increased much less in the first quarter than in the fourth.

In the first quarter, as well as in the fourth, the difference between the GDP growth rates reflected offsetting differences between the growth rates for the major components. Positive contributions came from personal consumption expenditures, gross private domestic investment, and exports; negative contributions came from government purchases and imports (which is subtracted in deriving GDP).

For prices, the difference between the growth rates of the featured and alternative measures has been small. In the first quarter, all of the measures of price change for gross domestic purchases increased 2.6 percent; for GDP, they all increased 3.1 percent.

Table 9.—Corporate Profits
[Seasonally adjusted at annual rates]

	Level	Change from preceding quarter	
	1994:I	1993:IV	1994:I
Billions of dollars			
Profits from current production	474.4	39.4	-33.5
Domestic	420.9	47.0	-31.9
Financial	77.9	8.5	-18.2
Nonfinancial	343.0	38.5	-13.7
Rest of the world	53.5	-7.6	-1.6
IVA	-16.0	-5.3	-11.7
CCAdj	20.1	.1	-3.8
Profits before tax	470.3	44.6	-18.1
Profits tax liability	185.3	23.0	-7.2
Profits after tax	284.9	21.6	-11.0
Cash flow from current production	550.6	15.7	-8.4
Profits by industry:			
Profits before tax with IVA	454.3	39.2	-29.7
Domestic	400.8	46.8	-28.1
Financial	90.9	8.8	-17.2
Nonfinancial	309.9	38.0	-10.9
Manufacturing		22.2	
Trade		6.3	
Transportation and public utilities		5.9	
Other		3.7	
Rest of the world	53.5	-7.6	-1.6
Receipts (inflows)	75.4	-8	2.2
Payments (outflows)	21.8	6.8	3.7
Dollars			
Unit prices, costs, and profits of domestic nonfinancial corporations:			
Unit price	1,172	0.001	0.007
Unit labor cost	.769	-.007	.007
Unit nonlabor cost	.289	-.003	.005
Unit profits from current production	.113	.010	-.005

NOTE.—Levels of these and other profits series are found in tables 1.14, 1.16, 6.16C, and 7.15 of the "Selected NIPA Tables."
IVA Inventory valuation adjustment
CCAdj Capital consumption adjustment

Corporate Profits

Profits from current production—profits before tax (PBT) plus inventory valuation adjustment (IVA) and capital consumption adjustment (CCAdj)—decreased \$33.5 billion in the first quarter after increasing \$39.4 billion in the fourth (table 9).⁴

Profits from the domestic operations of financial corporations accounted for more than half of the decrease in profits from current production. The decrease in financial profits largely reflected claims paid by insurance carriers as a result of the Northridge earthquake.

Profits from the domestic operations of nonfinancial corporations accounted for most of the rest of the decrease in profits from current production. The decrease in nonfinancial profits reflected a decrease in unit profits, as increases in unit labor and nonlabor costs more than offset an increase in unit prices. The rise in nonlabor costs largely reflected uninsured losses of fixed capital in the earthquake.

Profits from the rest of the world decreased moderately.

4. It is estimated that the Northridge earthquake reduced corporate profits in the first quarter by about \$29 billion: Of this reduction, about \$20 billion was accounted for by benefits paid by insurance companies, and about \$9 billion was accounted for by damage to corporate equipment and structures that was not offset by insurance benefits.

Cash flow from current production, a profits-related measure of internally generated funds available to corporations for investment, decreased \$8.4 billion after increasing \$15.7 billion. The decrease in cash flow, together with an increase in nonresidential fixed investment, reduced cash flow as a percentage of nonresidential investment to 82.6 percent from 85.2 percent. The ratio has been drifting down from its peak of 93.8 percent in the first quarter of 1992, but is still higher than it had been in the 1980's.

Related measures.—Industry profits are measured by PBT with IVA because estimates of the CCADj by industry do not exist. Like profits from current production, this measure of profits dropped sharply in the first quarter after a sharp increase in the fourth. Like the drop in profits from current production, more than half of the drop in PBT with IVA was accounted for by financial corporations, mainly reflecting property and casualty insurance carriers. Substantial decreases in the profits of nonfinancial corporations appear to have been in retail trade and in "other" durable and "other" nondurable manufacturing.

In profits from the rest of the world, receipts of profits from foreign affiliates of U.S. corporations increased \$2.2 billion, and payments of profits by U.S. affiliates of foreign corporations increased \$3.7 billion.

PBT decreased \$18.1 billion. The difference between this decrease and the \$33.5 billion decrease in profits from current production mainly reflected a decrease in the IVA.

The IVA, an estimate of inventory profits with the sign reversed, decreased \$11.7 billion. The increase in inventory profits reflected an increase in prices of inventoried goods.

Government Sector

The fiscal position of the government sector improved in the first quarter of 1994, as the combined deficit of the Federal Government and of State and local governments decreased \$33.2 billion, to \$166.5 billion (table 10). The improvement was more than accounted for by the Federal Government deficit, which decreased from \$207.0 billion to \$164.7 billion. The State and local government position deteriorated from a surplus of \$7.2 billion to a deficit of \$1.8 billion.

Federal

The Federal Government deficit decreased \$42.3 billion in the first quarter, as receipts increased

and expenditures decreased. The Federal deficit has decreased for six consecutive quarters after reaching a record high of \$290.7 billion in the third quarter of 1992.

Receipts.—Receipts increased \$24.2 billion in the first quarter after increasing \$39.8 billion in the fourth. Increases in personal tax receipts and in contributions for social insurance were offset by a decrease in corporate profits tax accruals.

Personal tax and nontax receipts increased \$14.0 billion after increasing \$8.0 billion. In the first quarter, growth in wages and salaries resulted in an \$8.4 billion increase (in withheld

Table 10.—Government Sector Receipts and Expenditures

(Billions of dollars, seasonally adjusted at annual rates)

	Level	Change from preceding quarter				
		1993				1994
		I	II	III	IV	I
	1994:I					
Government sector						
Receipts	2066.9	-3.5	63.8	15.1	53.8	31.7
Expenditures	2,233.4	8.7	22.6	7.9	39.2	-1.6
Surplus or deficit (-)	-166.5	-12.2	41.3	7.1	14.7	33.2
Federal Government						
Receipts	1,339.9	-2.7	49.6	7.9	39.8	24.2
Personal tax and nontax receipts	549.1	-9.7	18.6	6.4	8.0	14.0
Corporate profits tax accruals	152.3	5.3	10.0	-3.1	18.8	-5.8
Indirect business tax and nontax accruals	93.6	-2.0	4.7	.5	8.3	-1.4
Contributions for social insurance	544.9	3.6	16.4	4.1	4.7	17.4
Expenditures	1,504.6	-3.4	8.7	-2.1	34.1	-18.0
Purchases	441.8	-9.7	4.8	-3.9	-3.6	1.8
National defense	292.6	-10.9	2.8	-5.7	-2.7	-6.6
Nondefense	149.1	1.2	2.1	1.7	-1.0	8.4
Transfer payments (net)	664.6	.3	3.6	7.2	14.4	-2.6
To persons	652.0	11.8	3.8	6.4	4.6	8.3
To rest of the world	12.6	-11.5	-2	.8	9.8	-10.9
Grants-in-aid to State and local governments	188.4	-6	6.7	5.8	8.8	-9.0
Net interest paid	175.7	-3.0	4.2	-3	-1.8	-4.7
Subsidies less current surplus of government enterprises	34.1	9.7	-10.6	-10.9	16.3	-3.6
Subsidies	36.7	7.6	-7.8	-11.1	15.7	-3.8
Of which: Agricultural subsidies	12.3	7.5	-7.9	-11.6	15.4	-5.3
Less: Current surplus of government enterprises	2.5	-2.1	2.8	-2	-6	-3
Less: Wage accruals less disbursements	0	0	0	0	0	0
Surplus or deficit (-)	-164.7	.7	40.9	9.9	5.7	42.3
State and local governments						
Receipts	915.4	-1.4	20.8	13.2	22.8	-1.6
Personal tax and nontax receipts	166.7	-3.8	5.3	1.7	2.1	2.6
Corporate profits tax accruals	33.0	.6	2.3	-7	4.3	-1.4
Indirect business tax and nontax accruals	458.2	1.9	5.9	5.7	7.0	5.5
Contributions for social insurance	69.1	.6	.7	.5	.6	.8
Federal grants-in-aid	188.4	-6	6.7	5.8	8.8	-9.0
Expenditures	917.2	11.4	20.6	15.9	13.8	7.5
Purchases	730.8	5.6	14.1	10.1	8.0	1.6
Of which: Structures	106.2	-1.9	7.4	4.9	4.2	-7.4
Transfer payments to persons	270.3	5.7	6.9	6.2	6.7	6.4
Net interest paid	-44.9	.2	.2	.1	.2	.1
Less: Dividends received by government	11.1	0	.2	.1	.1	.2
Subsidies less current surplus of government enterprises	-27.9	-3	-4	-5	-7	-5
Subsidies .....	.5	0	.1	0	0	0
Less: Current surplus of government enterprises	28.4	.3	.4	.5	.8	.5
Less: Wage accruals less disbursements	0	0	0	0	0	0
Surplus or deficit (-)	-1.8	-12.7	.3	-2.8	8.9	-9.0
Social insurance funds	57.2	2.5	-1	-4	-6	-7
Other	-59.0	-15.3	.4	-2.4	9.5	-8.3

NOTE.—Dollar levels are found in tables 3.2 and 3.3 of the "Selected NIPA Tables."

personal income taxes); in addition, provisions of the Omnibus Budget Reconciliation Act of 1993, largely retroactively increased tax rates, resulted in a \$7.0 billion increase. These increases were partly offset by a decrease resulting from the annual indexation of withholding tables for inflation.

Contributions for social insurance increased \$17.4 billion after increasing \$4.7 billion. In the first quarter, the growth in wages and salaries resulted in a \$7.4 billion increase in contributions. In addition, contributions were boosted \$10.0 billion (annual rate) by an increase in the social security taxable wage base, an increase in the monthly premium for supplementary medical insurance, and the removal of the \$135,000 cap on the medicare taxable wage base.

Corporate profits tax accruals decreased \$5.8 billion after increasing \$18.8 billion. The decrease reflected the downturn in corporate profits.

Indirect business tax and nontax accruals decreased \$1.4 billion after increasing \$8.3 billion. The decrease reflected the absence of a one-time tax on commercial inventories of gasoline, diesel fuel, and aviation fuel that had been collected in the fourth quarter as part of an increase of 4.3 cents per gallon in the motor fuels tax.

Expenditures.—Expenditures decreased \$18.0 billion in the first quarter after increasing \$34.1 billion in the fourth. All the major components of expenditures except purchases contributed to the decrease.

Grants-in-aid to State and local governments decreased \$9.0 billion after increasing \$8.8 billion. The decrease was mainly attributable to payments for medicaid, which decreased \$6.8 billion after increasing \$4.7 billion.

Net interest paid decreased \$4.7 billion after decreasing \$1.8 billion. The first-quarter decrease continues a downtrend following the record high in the fourth quarter of 1991.

Subsidies less the current surplus of government enterprises decreased \$3.6 billion after increasing \$16.3 billion. The decrease was more than accounted for by agricultural subsidies, which decreased \$5.3 billion after increasing \$15.4 billion. Among agricultural subsidies, Conservation Reserve Program payments decreased \$6.9 billion after increasing \$6.9 billion; the decrease was partly offset by increases in flood- and drought-related payments and in deficiency payments, which make up the difference between support prices and market prices for farm commodities.

Transfer payments decreased \$2.6 billion after increasing \$14.4 billion. The decrease was more than accounted for by a \$10.9 billion decrease in transfer payments to the rest of the world; these transfers had increased \$9.8 billion in the fourth quarter, primarily because of \$12.0 billion (annual rate) in economic support payments and other payments to Israel in October. Transfer payments to persons increased \$8.3 billion after increasing \$4.6 billion. The first-quarter increase was mainly attributable to a \$7.7 billion cost-of-living increase in social security benefits (old-age, survivors, and disability insurance) and to increases in medicare payments (hospital and supplementary medical insurance). These increases were partly offset by a decrease in payments under the program for emergency unemployment compensation; this program stopped accepting new applicants on February 5, 1994, and payments will end in May 1994.

Purchases increased \$1.8 billion after decreasing \$3.6 billion. Nondefense purchases increased \$8.4 billion after decreasing \$1.0 billion. The first-quarter increase was primarily in the medical care programs of the Department of Veterans Affairs and in the National Institutes of Health and the Internal Revenue Service. Defense purchases decreased \$6.6 billion after decreasing \$2.7 billion; purchases of military durables, nondurables, and services contributed to the first-quarter decrease. The civilian buyout program begun last year at the Department of Defense boosted compensation of defense employees by \$0.4 billion in the first quarter and by \$0.9 billion in the fourth.

State and local

The State and local government fiscal position deteriorated \$9.0 billion in the first quarter, as receipts decreased and expenditures increased.

Receipts decreased \$1.6 billion in the first quarter after increasing \$22.8 billion in the fourth. The decrease was more than accounted for by Federal grants-in-aid, which decreased \$9.0 billion—mainly reflecting medicaid—after increasing \$8.8 billion. Reflecting the downturn in corporate profits, corporate profits tax accruals decreased \$1.4 billion after increasing \$4.3 billion. Indirect business tax and nontax accruals increased \$5.5 billion after increasing \$7.0 billion; the deceleration was attributable mainly to sales tax collections, which reflected a slowdown in retail sales.

Expenditures increased \$7.5 billion in the first quarter after increasing \$13.8 billion in the

fourth. Purchases increased \$1.6 billion after increasing \$8.0 billion. Purchases other than structures increased more in the first quarter than in the fourth—\$9.0 billion, compared with \$3.8 billion—but structures decreased \$7.4 billion after increasing \$4.2 billion. The earthquake that struck Northridge, California, on January 17 increased purchases by about

\$2 billion, primarily for employee compensation. The impact of the earthquake on purchases of structures cannot be separated from other factors that affected construction, such as the unseasonably cold weather in much of the Nation. Transfer payments to persons increased \$6.4 billion after increasing \$6.7 billion. 

NATIONAL INCOME AND PRODUCT ACCOUNTS

Selected NIPA Tables

New estimates in this issue: "Preliminary" estimates for the first quarter of 1994.

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 1929-87 are available in the two-volume set *National Income and Product Accounts of the United States*; see [inside back cover](#) for order information. For 1988-92, the complete official time series of NIPA estimates can be found as follows:

	1988	1989	1990-92
Most tables	NIPA'S, vol. 2	July 1992 SURVEY	Aug. 1993 SURVEY
Tables 1.15, 1.16, and 7.15	"	"	Sept. 1993 SURVEY
Tables 3.15-3.20 and 9.1-9.6	"	Sept. 1992 SURVEY	"
Tables 7.1, 7.2, and 8.1	Sept. 1993 SURVEY	Sept. 1993 SURVEY	"
Tables 7.3-7.12	Apr. 1993 SURVEY	Apr. 1993 SURVEY	"

Summary NIPA series back to 1929 are in the September 1993 SURVEY. Errata to published NIPA tables appear in the September 1992, April 1993, October 1993, and March 1994 issues. 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 1994 SURVEY.

NOTE.—This section of the SURVEY is prepared by the National Income and Wealth Division and the Government Division.

1. National Product and Income

Table 1.1.—Gross Domestic Product

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,617.6
Personal consumption expenditures	4,139.9	4,391.8	4,256.2	4,296.2	4,359.9	4,419.1	4,492.0	4,558.0
Durable goods	497.3	537.9	516.6	515.3	531.6	541.9	562.8	578.0
Nondurable goods	1,300.9	1,350.0	1,331.7	1,335.3	1,344.8	1,352.4	1,367.5	1,382.1
Services	2,341.6	2,503.9	2,407.9	2,445.5	2,483.4	2,524.8	2,561.8	2,597.9
Gross private domestic investment	796.5	891.7	833.3	874.1	874.1	884.0	934.5	966.7
Fixed investment	789.1	876.1	821.3	839.5	861.0	876.3	927.6	946.6
Nonresidential	565.5	623.7	579.5	594.7	619.1	624.9	656.0	666.6
Structures	172.6	178.7	171.1	172.4	177.6	179.1	185.8	176.9
Producers' durable equipment	392.9	445.0	408.3	422.2	441.6	445.8	470.2	489.7
Residential	223.6	252.4	241.8	244.9	241.9	251.3	271.6	280.0
Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	20.1
Nonfarm	2.3	21.1	9.5	33.0	16.8	22.6	12.0	21.7
Farm	5.0	-5.5	2.4	1.5	-3.7	-14.9	-5.0	-1.6
Net exports of goods and services	-29.6	-63.6	-38.8	-48.3	-65.1	-71.9	-69.1	-79.7
Exports	640.5	661.7	654.7	651.3	660.0	653.2	682.4	681.6
Imports	670.1	725.3	693.5	699.6	725.0	725.1	751.5	761.3
Government purchases	1,131.8	1,158.1	1,143.8	1,139.7	1,158.6	1,164.8	1,169.1	1,172.6
Federal	448.8	443.4	452.4	442.7	447.5	443.6	440.0	441.8
National defense	313.8	303.4	315.7	304.8	307.6	301.9	299.2	292.6
Nondefense	135.0	140.1	136.7	137.9	140.0	141.7	140.7	149.1
State and local	683.0	714.6	691.4	697.0	711.1	721.2	729.2	730.8

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]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Personal consumption expenditures	3,341.8	3,453.2	3,397.2	3,403.8	3,432.7	3,469.6	3,506.9	3,546.3
Durable goods	456.6	490.0	473.4	471.9	484.2	493.1	510.9	523.4
Nondurable goods	1,062.9	1,088.1	1,081.8	1,076.0	1,083.1	1,093.0	1,100.2	1,111.5
Services	1,822.3	1,875.2	1,842.0	1,855.9	1,865.4	1,883.5	1,895.8	1,911.4
Gross private domestic investment	732.9	820.3	763.0	803.0	803.6	813.4	861.4	885.5
Fixed investment	726.4	806.0	754.3	773.7	790.6	806.9	852.9	866.4
Nonresidential	529.2	591.8	543.7	562.3	584.3	594.8	625.7	635.0
Structures	150.6	151.5	148.0	148.2	151.1	151.2	155.6	147.1
Producers' durable equipment	378.6	440.2	395.7	414.1	433.2	443.6	470.0	487.9
Residential	197.1	214.2	210.6	211.4	206.2	212.1	227.2	231.4
Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	19.1
Nonfarm	2.7	19.7	7.5	29.3	17.1	19.4	12.9	21.1
Farm	3.8	-5.3	1.2	0	-4.1	-12.9	-4.4	-1.9
Net exports of goods and services	-33.6	-76.5	-38.8	-59.9	-75.2	-86.3	-84.5	-100.8
Exports	578.0	598.3	591.6	588.0	593.2	591.9	620.0	618.4
Imports	611.6	674.8	630.3	647.9	668.4	678.2	704.5	719.2
Government purchases	945.2	938.9	946.9	931.3	941.1	941.7	941.7	933.1
Federal	373.0	354.9	373.7	357.6	359.4	353.7	349.0	344.6
National defense	261.2	242.4	261.3	246.0	246.4	240.1	237.1	228.0
Nondefense	111.8	112.5	112.4	111.5	113.0	113.7	111.8	116.6
State and local	572.2	584.0	573.2	573.7	581.6	588.0	592.8	588.4

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

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,617.6
Final sales of domestic product	6,031.2	6,362.3	6,182.5	6,227.1	6,314.5	6,388.2	6,519.6	6,597.5
Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	20.1
Goods ¹	2,312.8	2,421.9	2,377.6	2,397.4	2,408.1	2,409.4	2,472.7	2,521.7
Final sales	2,305.5	2,406.3	2,365.6	2,362.9	2,395.0	2,401.7	2,465.8	2,501.6
Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	20.1
Durable goods	977.9	1,047.9	1,007.1	1,018.6	1,040.5	1,047.7	1,084.7	1,119.1
Final sales	975.8	1,037.0	1,008.3	1,003.5	1,037.8	1,032.9	1,073.7	1,097.4
Change in business inventories	2.0	10.9	-1.2	15.0	2.7	14.8	11.0	21.7
Nondurable goods	1,334.9	1,374.0	1,370.5	1,378.9	1,367.5	1,361.6	1,388.0	1,402.6
Final sales	1,329.6	1,369.3	1,357.3	1,359.3	1,357.1	1,368.8	1,392.1	1,404.2
Change in business inventories	5.3	4.7	13.2	19.5	10.4	-7.2	-4.1	-1.6
Services ¹	3,221.1	3,410.5	3,296.1	3,341.8	3,388.1	3,437.8	3,474.3	3,524.7
Structures	504.6	545.5	520.8	522.4	531.5	548.7	579.5	571.2

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

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

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

[Billions of 1987 dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Final sales of domestic product	4,979.8	5,121.7	5,059.6	5,048.9	5,089.1	5,131.8	5,217.1	5,245.0
Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	19.1
Goods ¹	2,005.7	2,083.8	2,057.7	2,060.2	2,069.1	2,074.9	2,130.9	2,163.8
Final sales	1,999.2	2,069.5	2,049.0	2,030.9	2,056.1	2,068.5	2,122.5	2,144.6
Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	19.1
Durable goods	914.0	981.2	941.8	951.2	968.9	982.5	1,022.2	1,049.7
Final sales	911.7	970.6	942.6	938.2	964.9	968.7	1,010.5	1,029.6
Change in business inventories	2.4	10.6	-8	13.0	3.9	13.9	11.7	20.1
Nondurable goods	1,091.7	1,102.6	1,116.0	1,109.0	1,100.2	1,092.4	1,108.7	1,114.0
Final sales	1,087.6	1,098.9	1,106.4	1,092.7	1,091.1	1,099.8	1,111.9	1,115.0
Change in business inventories	4.1	3.7	9.6	16.3	9.1	-7.4	-3.2	-1.0
Services ¹	2,534.7	2,586.4	2,556.5	2,565.3	2,577.5	2,596.7	2,606.0	2,623.6
Structures	445.8	465.9	454.2	452.7	455.5	466.6	488.7	476.7

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

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

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

[Billions of dollars]

Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,617.6
Less: Exports of goods and services	640.5	661.7	654.7	651.3	660.0	653.2	682.4	681.6
Plus: Imports of goods and services	670.1	725.3	693.5	699.6	725.0	725.1	751.5	761.3
Equals: Gross domestic purchases ¹	6,068.2	6,441.5	6,233.2	6,309.9	6,392.7	6,467.8	6,595.6	6,697.3
Less: Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	20.1
Equals: Final sales to domestic purchasers ²	6,060.8	6,425.9	6,221.2	6,275.4	6,379.5	6,460.1	6,588.7	6,677.2

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.

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

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

[Billions of 1987 dollars]

Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Less: Exports of goods and services	578.0	598.3	591.6	588.0	593.2	591.9	620.0	618.4
Plus: Imports of goods and services	611.6	674.8	630.3	647.9	668.4	678.2	704.5	719.2
Equals: Gross domestic purchases ¹	5,019.9	5,212.5	5,107.1	5,138.1	5,177.4	5,224.6	5,310.0	5,364.9
Less: Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	19.1
Equals: Final sales to domestic purchasers ²	5,013.4	5,198.2	5,098.4	5,108.8	5,164.3	5,218.1	5,301.6	5,345.8

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.

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

Table 1.7.—Gross Domestic Product by Sector

[Billions of dollars]

Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,617.6
Business	5,114.4	5,404.5	5,254.4	5,303.0	5,359.0	5,416.6	5,539.5	5,614.9
Nonfarm	5,006.4	5,306.9	5,138.7	5,184.7	5,263.7	5,330.1	5,449.1	5,523.5
Nonfarm less housing	4,505.4	4,791.0	4,639.6	4,674.0	4,751.0	4,812.8	4,926.4	4,982.6
Housing	501.0	515.9	499.1	510.8	512.7	517.4	522.8	541.0
Farm	84.4	82.4	83.6	83.8	83.3	73.2	89.2	96.1
Statistical discrepancy	23.6	15.2	32.1	34.4	12.0	13.3	1.2	-4.7
Households and institutions	267.0	286.3	275.7	280.3	284.7	288.1	292.3	297.9
Private households	10.1	11.1	10.6	10.8	11.0	11.3	11.5	11.7
Nonprofit institutions	256.9	275.2	265.2	269.5	273.7	276.8	280.8	286.3
General government	657.1	687.1	664.3	678.4	683.9	691.2	694.7	704.7
Federal	199.8	207.0	198.7	206.2	206.2	208.3	207.1	210.8
State and local	457.3	480.1	465.6	472.1	477.7	483.0	487.6	493.9
Addendum:								
Gross domestic business product less housing	4,608.9							

Table 1.8.—Gross Domestic Product by Sector in Constant Dollars

[Billions of 1987 dollars]

Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Business	4,267.6	4,408.0	4,346.2	4,353.9	4,374.1	4,408.4	4,495.4	4,531.2
Nonfarm	4,168.4	4,321.1	4,240.0	4,247.4	4,288.1	4,330.1	4,418.7	4,457.1
Nonfarm less housing	3,769.3	3,915.8	3,839.3	3,844.8	3,883.7	3,924.0	4,010.6	4,047.1
Housing	399.1	405.3	400.7	402.6	404.4	406.1	408.1	410.0
Farm	79.6	74.4	79.7	78.2	76.2	67.5	75.7	77.9
Statistical discrepancy	19.7	12.5	26.5	28.3	9.8	10.8	1.0	-3.8
Households and institutions	209.1	217.0	212.4	213.5	216.8	218.4	219.4	221.3
Private households	8.8	9.3	9.0	9.2	9.3	9.4	9.5	9.6
Nonprofit institutions	200.4	207.7	203.4	204.3	207.5	209.0	209.9	211.7
General government	509.5	511.1	509.8	510.8	511.3	511.5	510.8	511.6
Federal	150.5	147.2	148.8	148.8	147.8	146.9	145.1	144.5
State and local	359.0	363.9	361.0	362.0	363.4	364.5	365.7	367.0
Addendum:								
Gross domestic business product less housing	3,864.9							

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

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,617.6
Plus: Receipts of factor income from the rest of the world ¹	129.2	131.7	122.3	122.8	131.9	135.1	137.2	143.6
Less: Payments of factor income to the rest of the world ²	121.9	131.6	124.8	122.4	132.3	128.7	142.8	146.5
Equals: Gross national product	6,045.8	6,378.1	6,191.9	6,262.1	6,327.1	6,402.3	6,520.9	6,614.6
Less: Consumption of fixed capital	657.9	671.3	648.0	663.2	663.3	679.7	679.0	735.8
Capital consumption allowances	605.7	630.0	612.1	622.3	624.8	636.3	636.4	664.9
Less: Capital consumption adjustment	-52.1	-41.3	-36.0	-40.9	-38.4	-43.4	-42.6	-70.9
Equals: Net national product	5,387.9	5,706.8	5,543.9	5,598.8	5,663.9	5,722.6	5,841.9	5,878.8
Less: Indirect business tax and nontax liability	502.8	530.5	515.7	515.6	526.2	532.4	547.7	551.8
Business transfer payments	27.6	27.9	28.1	27.0	27.8	28.4	28.3	28.2
Statistical discrepancy	23.6	15.2	32.1	34.4	12.0	13.3	1.2	-4.7
Plus: Subsidies less current surplus of government enterprises	2.7	7.0	7.7	17.1	6.1	-5.3	10.3	6.2
Equals: National income	4,836.6	5,140.3	4,975.8	5,038.9	5,104.0	5,143.2	5,275.0	5,309.8
Less: Corporate profits with inventory valuation and capital consumption adjustments	407.2	466.6	439.5	432.1	458.1	468.5	507.9	474.4
Net interest	442.0	445.6	447.7	450.1	443.2	444.6	444.5	449.7
Contributions for social insurance	555.6	585.3	564.6	568.9	585.9	590.5	595.9	614.0
Wage accruals less disbursements	-20.0	20.0	-80.0	80.0	0	0	0	0
Plus: Personal interest income	694.3	695.2	694.5	695.4	693.1	695.7	696.7	700.2
Personal dividend income	140.4	158.3	152.3	157.0	157.8	159.0	159.4	160.7
Government transfer payments to persons	836.8	890.2	855.4	873.0	883.7	896.4	907.5	922.3
Business transfer payments to persons	21.6	21.9	22.0	21.4	21.8	22.1	22.3	22.0
Equals: Personal income	5,144.9	5,388.3	5,328.3	5,254.7	5,373.2	5,412.7	5,512.7	5,576.8
Addenda:								
Net domestic product	5,380.7	5,706.6	5,546.4	5,598.4	5,664.3	5,716.2	5,847.5	5,881.7
Domestic income	4,829.4	5,140.1	4,978.3	5,038.4	5,104.5	5,136.8	5,280.6	5,312.7
Gross national income	6,022.2	6,362.9	6,159.9	6,227.6	6,315.2	6,389.0	6,519.7	6,619.3

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

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

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Plus: Receipts of factor income from the rest of the world ¹	105.5	104.7	98.9	98.3	105.0	107.1	108.5	112.7
Less: Payments of factor income to the rest of the world ²	97.7	102.2	98.8	95.8	103.0	99.6	110.4	112.4
Equals: Gross national product	4,994.0	5,138.6	5,068.4	5,080.7	5,104.1	5,145.8	5,223.7	5,264.4
Less: Consumption of fixed capital	595.0	598.6	584.0	595.0	592.5	604.4	602.4	648.9
Equals: Net national product	4,399.0	4,540.0	4,484.4	4,485.8	4,511.6	4,541.4	4,621.3	4,615.4
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises	402.0	417.5	409.3	411.6	414.9	419.1	424.4	428.6
Statistical discrepancy	19.7	12.5	26.5	28.3	9.8	10.8	1.0	-3.8
Equals: National income	3,977.3	4,110.1	4,048.6	4,045.9	4,087.0	4,111.4	4,196.0	4,190.6
Addenda:								
Net domestic product	4,391.2	4,537.5	4,484.4	4,483.3	4,509.6	4,533.8	4,623.2	4,615.2
Domestic income	3,969.5	4,107.5	4,048.5	4,043.4	4,085.0	4,103.9	4,197.8	4,190.4
Gross national income	4,974.3	5,126.1	5,041.9	5,052.5	5,094.3	5,135.0	5,222.7	5,268.2

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

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

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

[Billions of 1987 dollars]

	1992	1993	1994	1995	1996	1997	1998	1999
Gross national product	4,994.0	5,138.6	5,068.4	5,080.7	5,104.1	5,145.8	5,223.7	5,264.4
Less: Exports of goods and services and receipts of factor income from the rest of the world	683.5	703.0	690.4	686.4	698.1	699.0	728.5	731.0
Plus: Command-basis exports of goods and services and receipts of factor income ¹	689.3	719.5	692.4	700.4	712.5	718.1	746.8	755.9
Equals: Command-basis gross national product	4,999.8	5,155.0	5,070.3	5,094.8	5,118.4	5,164.9	5,241.9	5,289.2
Addendum:								
Terms of trade ²	100.9	102.3	100.3	102.0	102.1	102.7	102.5	103.4

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

Table 1.14.—National Income by Type of Income

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
National income	4,836.6	5,140.3	4,975.8	5,038.9	5,104.0	5,143.2	5,275.0	5,309.8
Compensation of employees	3,582.0	3,772.2	3,658.6	3,705.1	3,750.6	3,793.9	3,839.2	3,908.5
Wages and salaries	2,953.1	3,100.5	3,015.8	3,054.3	3,082.7	3,115.4	3,149.6	3,201.9
Government	567.5	589.7	574.2	584.1	586.3	592.8	595.4	603.0
Other	2,385.6	2,510.8	2,441.6	2,470.2	2,496.3	2,522.6	2,554.2	2,598.9
Supplements to wages and salaries	629.0	671.7	642.8	650.7	668.0	678.5	689.6	706.6
Employer contributions for social insurance ..	306.3	321.0	311.3	312.2	321.4	323.8	326.7	334.7
Other labor income	322.7	350.7	331.5	338.5	346.6	354.7	362.9	371.9
Proprietors' income with IVA and CCAdj	414.3	443.2	431.2	444.1	439.4	422.5	467.0	474.6
Farm	43.7	46.0	47.6	55.7	47.0	24.8	56.4	57.9
Proprietors' income with IVA	51.2	53.1	54.8	62.8	54.1	32.1	63.5	65.0
CCAdj	-7.5	-7.1	-7.2	-7.1	-7.1	-7.3	-7.0	-7.0
Nonfarm	370.6	397.3	383.6	388.4	392.4	397.6	410.6	416.6
Proprietors' income	358.0	385.3	362.2	376.4	380.3	385.4	399.2	406.2
IVA	-5	-1.0	7.8	-1.6	-1.2	-4	-9	-1.0
CCAdj	13.1	13.0	13.7	13.7	13.3	12.7	12.3	11.4
Rental income of persons with CCAAdj	-8.9	12.6	-1.2	7.5	12.7	13.7	16.4	2.5
Rental income of persons ..	57.4	75.2	57.4	71.3	73.2	77.2	79.0	88.7
CCAAdj	-66.3	-62.6	-58.6	-63.8	-60.4	-63.5	-62.6	-86.2
Corporate profits with IVA and CCAAdj	407.2	466.6	439.5	432.1	458.1	468.5	507.9	474.4
Corporate profits with IVA ..	390.1	442.3	414.8	407.0	433.4	444.8	484.0	454.3
Profits before tax	395.4	449.4	409.9	419.8	445.6	443.8	488.4	470.3
Profits tax liability	146.3	174.0	155.0	160.9	173.3	169.5	185.3	185.3
Profits after tax	249.1	275.4	254.9	258.9	272.3	274.3	295.9	284.9
Dividends	150.5	169.0	162.9	167.5	168.5	169.7	170.3	171.8
Undistributed profits	98.6	106.4	92.0	91.4	103.9	104.6	125.6	113.2
IVA	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
CCAAdj	17.1	24.3	24.7	25.1	24.7	23.8	23.9	20.1
Net interest	442.0	445.6	447.7	450.1	443.2	444.6	444.5	449.7
Addenda:								
Corporate profits after tax with IVA and CCAAdj	260.9	292.6	284.5	271.2	284.8	299.1	315.4	289.1
Net cash flow with IVA and CAdj	507.0	532.4	518.2	505.9	521.5	543.3	559.0	550.6
Undistributed profits with IVA and CCAAdj ..	110.4	123.6	121.7	103.7	116.3	129.3	145.1	117.3
Consumption of fixed capital	396.6	408.8	396.5	402.2	405.2	414.0	413.9	433.3
Less: IVA	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
Equals: Net cash flow	512.3	539.5	513.2	518.7	533.7	542.3	563.3	566.6

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

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross domestic product of corporate business	3,571.7	3,784.1	3,668.8	3,678.4	3,759.2	3,803.8	3,895.2	3,935.1
Consumption of fixed capital ..	396.6	408.8	396.5	402.2	405.2	414.0	413.9	433.3
Net domestic product	3,175.1	3,375.3	3,272.3	3,276.2	3,354.0	3,389.8	3,481.3	3,501.8
Indirect business tax and nontax liability plus business transfer payments less subsidies ..	359.6	378.4	368.3	365.1	377.2	380.4	391.2	395.3
Domestic income	2,815.5	2,996.9	2,904.0	2,911.1	2,976.8	3,009.4	3,090.1	3,106.6
Compensation of employees	2,337.4	2,460.2	2,390.3	2,408.2	2,448.7	2,475.7	2,508.3	2,556.4
Wages and salaries ..	1,940.9	2,038.4	1,983.9	2,002.8	2,029.0	2,048.7	2,073.3	2,109.7
Supplements to wages and salaries	396.5	421.8	406.3	405.3	419.7	427.0	435.0	446.7
Corporate profits with IVA and CCAAdj	344.9	407.9	384.8	373.0	400.0	405.8	452.8	420.9
Profits before tax	332.2	390.7	355.2	360.7	387.5	381.1	433.3	416.7
Profits tax liability ..	146.3	174.0	155.0	160.9	173.3	169.5	192.5	185.3
Profits after tax	186.9	216.6	200.2	199.8	214.3	211.6	240.8	231.4
Dividends	127.3	155.0	147.4	156.7	152.9	152.5	157.9	156.3
Undistributed profits	59.6	61.6	52.8	43.2	61.4	59.1	82.9	75.1
IVA	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
CCAAdj	17.1	24.3	24.7	25.1	24.7	23.8	23.9	20.1
Net interest	133.2	128.7	128.9	129.9	128.1	127.9	129.0	129.3
Gross domestic product of financial corporate business ..	328.3	366.8	337.2	346.7	363.3	371.6	385.8	376.1
Gross domestic product of nonfinancial corporate business ..	3,243.4	3,417.3	3,331.6	3,331.7	3,395.9	3,432.2	3,509.4	3,559.1
Consumption of fixed capital ..	352.7	362.2	351.7	356.8	359.0	367.0	366.0	384.2
Net domestic product	2,890.7	3,055.1	2,979.9	2,975.0	3,036.8	3,065.1	3,143.3	3,174.9
Indirect business tax and nontax liability plus business transfer payments less subsidies ..	327.7	345.2	336.0	333.0	344.0	347.0	356.9	360.8
Domestic income	2,563.1	2,709.8	2,643.9	2,642.0	2,692.8	2,718.1	2,786.4	2,814.0
Compensation of employees	2,149.5	2,255.6	2,195.9	2,215.0	2,244.7	2,267.1	2,295.7	2,336.9
Wages and salaries ..	1,782.4	1,866.4	1,820.0	1,840.3	1,857.3	1,873.3	1,894.8	1,925.6
Supplements to wages and salaries	367.0	389.2	375.9	374.7	387.4	393.8	400.9	411.2
Corporate profits with IVA and CCAAdj	278.3	320.5	314.1	292.1	315.0	318.2	356.7	343.0
Profits before tax	255.1	291.6	273.2	268.4	291.2	281.8	325.2	325.9
Profits tax liability ..	98.2	117.0	105.8	106.4	117.6	112.5	131.4	130.7
Profits after tax	156.9	174.7	167.4	162.0	173.6	169.3	193.7	195.2
Dividends	105.2	126.3	120.7	127.4	125.4	124.0	128.4	127.9
Undistributed profits	51.7	48.4	46.7	34.6	48.2	45.3	65.3	67.3
IVA	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
CCAAdj	28.5	35.9	36.0	36.4	36.0	35.4	35.9	33.1
Net interest	135.3	133.7	133.9	134.9	133.1	132.8	134.0	134.2
	Billions of 1987 dollars							
Gross domestic product of nonfinancial corporate business ..	2,822.3	2,936.3	2,887.4	2,867.5	2,916.6	2,948.9	3,012.1	3,038.1
Consumption of fixed capital ..	318.4	324.2	317.2	321.0	321.4	327.9	326.5	342.3
Net domestic product	2,503.9	2,612.1	2,570.1	2,546.5	2,595.2	2,620.9	2,685.6	2,695.7
Indirect business tax and nontax liability plus business transfer payments less subsidies ..	258.7	270.2	264.5	265.7	268.4	271.6	275.1	278.5
Domestic income	2,245.2	2,341.9	2,305.7	2,280.8	2,326.8	2,349.3	2,410.5	2,417.2

2. Personal Income and Outlays

Table 2.1.—Personal Income and Its Disposition

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Personal income	5,144.9	5,388.3	5,328.3	5,254.7	5,373.2	5,412.7	5,512.7	5,576.8
Wage and salary disbursements	2,973.1	3,080.5	3,095.8	2,974.3	3,082.7	3,115.4	3,149.6	3,201.9
Commodity-producing industries	756.5	763.6	783.3	740.7	765.1	769.4	779.3	789.6
Manufacturing	577.6	577.3	602.0	559.7	580.3	581.5	587.8	595.6
Distributive industries	682.0	706.6	709.9	682.9	709.1	714.4	720.1	733.4
Service industries	967.0	1,020.6	1,028.4	966.6	1,022.2	1,038.8	1,054.7	1,075.9
Government	567.5	589.7	574.2	584.1	586.3	592.8	595.4	603.0
Other labor income	322.7	350.7	331.5	338.5	346.6	354.7	362.9	371.9
Proprietors' income with inventory valuation and capital consumption adjustments	414.3	443.2	431.2	444.1	439.4	422.5	467.0	474.6
Farm	43.7	46.0	47.6	55.7	47.0	24.8	56.4	57.9
Nonfarm	370.6	397.3	383.6	388.4	392.4	397.6	410.6	416.6
Rental income of persons with capital consumption adjustment	-8.9	12.6	-1.2	7.5	12.7	13.7	16.4	2.5
Personal dividend income	140.4	158.3	152.3	157.0	157.8	159.0	159.4	160.7
Personal interest income	694.3	695.2	694.5	695.4	693.1	695.7	696.7	700.2
Transfer payments to persons	858.4	912.1	877.4	894.4	905.5	918.5	929.8	944.3
Old-age, survivors, disability, and health insurance benefits	413.9	438.4	420.8	433.1	435.0	439.4	446.1	457.8
Government unemployment insurance benefits	39.2	34.1	37.8	34.5	34.4	35.1	32.3	27.0
Veterans benefits	19.3	20.0	19.0	20.0	20.2	20.1	19.6	19.9
Government employees retirement benefits	108.3	115.5	110.2	112.8	114.6	116.4	118.3	118.8
Other transfer payments	277.7	304.1	289.7	294.0	301.3	307.5	313.5	320.8
Aid to families with dependent children	23.3	23.9	23.5	23.6	24.1	24.0	24.1	23.9
Other	254.4	280.2	266.2	270.4	277.2	283.5	289.4	296.8
Less: Personal contributions for social insurance	249.3	264.3	253.3	256.6	264.5	266.8	269.2	279.3
Less: Personal tax and nontax payments	644.8	681.6	670.7	657.1	681.0	689.0	699.2	715.8
Equals: Disposable personal income	4,500.2	4,706.7	4,657.6	4,597.5	4,692.2	4,723.7	4,813.5	4,860.9
Less: Personal outlays	4,261.5	4,516.8	4,377.9	4,419.7	4,483.6	4,544.0	4,620.1	4,689.2
Personal consumption expenditures	4,139.9	4,391.8	4,256.2	4,296.2	4,359.9	4,419.1	4,492.0	4,558.0
Interest paid by persons	111.1	114.0	111.3	112.5	112.7	114.1	116.8	119.6
Personal transfer payments to rest of the world (net)	10.4	11.0	10.5	11.0	11.0	10.8	11.2	11.6
Equals: Personal saving	238.7	189.9	279.7	177.9	208.7	179.7	193.4	171.8
Addenda:								
Disposable personal income:								
Total, billions of 1987 dollars	3,632.5	3,700.9	3,717.6	3,642.6	3,694.4	3,708.7	3,757.9	3,782.1
Per capita:								
Current dollars	17,615	18,225	18,153	17,876	18,196	18,265	18,561	18,699
1987 dollars	14,219	14,330	14,490	14,163	14,326	14,341	14,491	14,549
Population (mid-period, millions)	255.5	258.3	256.6	257.2	257.9	258.6	259.3	260.0
Personal saving as percentage of disposable personal income	5.3	4.0	6.0	3.9	4.4	3.8	4.0	3.5

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

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Personal consumption expenditures	4,139.9	4,391.8	4,256.2	4,296.2	4,359.9	4,419.1	4,492.0	4,558.0
Durable goods	497.3	537.9	516.6	515.3	531.6	541.9	562.8	578.0
Motor vehicles and parts	204.3	222.3	213.7	211.7	220.8	221.7	235.1	249.5
Furniture and household equipment	194.5	211.7	202.7	203.3	208.6	214.0	220.8	220.6
Other	98.5	103.9	100.2	100.3	102.2	106.2	106.9	107.9
Nondurable goods	1,300.9	1,350.0	1,331.7	1,335.3	1,344.8	1,352.4	1,367.5	1,382.1
Food	633.7	657.8	647.6	648.2	654.1	660.0	669.1	677.8
Clothing and shoes	228.2	237.3	236.1	233.1	235.2	238.2	242.7	243.4
Gasoline and oil	103.4	103.7	105.2	106.0	103.6	102.4	102.9	101.5
Fuel oil and coal	13.8	15.1	13.9	15.1	14.9	15.4	15.0	17.0
Other	321.8	336.0	328.9	332.9	337.2	336.4	337.7	342.5
Services	2,341.6	2,503.9	2,407.9	2,445.5	2,483.4	2,524.8	2,561.8	2,597.9
Housing	600.0	627.9	609.2	617.6	625.1	631.1	637.8	647.1
Household operation	234.4	251.2	245.0	245.7	246.7	255.2	257.3	255.8
Electricity and gas	105.8	113.4	111.0	111.1	109.8	116.4	116.2	116.6
Other household operation	128.7	137.8	134.0	134.5	136.9	138.7	141.1	139.2
Transportation	155.4	170.0	162.4	166.3	169.1	170.9	173.8	177.3
Medical care	628.4	680.9	646.9	662.2	675.4	686.9	699.2	710.3
Other	723.5	773.8	744.3	753.8	767.1	780.7	793.7	807.4

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

[Billions of 1987 dollars]

	1992	1993	1994	1995	1996	1997	1998	1999
Personal consumption expenditures	3,341.8	3,453.2	3,397.2	3,403.8	3,432.7	3,469.6	3,506.9	3,546.3
Durable goods	456.6	490.0	473.4	471.9	484.2	493.1	510.9	523.4
Motor vehicles and parts	182.3	191.7	188.6	185.7	191.3	189.9	199.7	211.3
Furniture and household equipment	194.8	216.3	204.2	206.5	212.4	219.4	227.1	227.9
Other	79.5	82.0	80.6	79.7	80.6	83.7	84.1	84.3
Nondurable goods	1,062.9	1,088.1	1,081.8	1,076.0	1,083.1	1,093.0	1,100.2	1,111.5
Food	520.5	531.0	529.3	526.7	528.6	532.6	536.0	541.1
Clothing and shoes	193.7	199.5	200.0	194.8	197.8	200.6	204.6	205.6
Gasoline and oil	83.9	84.9	84.4	83.9	84.1	86.2	85.4	84.7
Fuel oil and coal	11.9	13.0	11.9	12.9	12.6	13.2	13.1	14.6
Other	252.9	259.8	256.2	257.7	259.9	260.4	261.1	265.4
Services	1,822.3	1,875.2	1,842.0	1,855.9	1,865.4	1,883.5	1,895.8	1,911.4
Housing	484.2	492.0	486.7	488.8	490.7	493.3	495.3	497.5
Household operation	211.7	218.9	216.6	217.9	215.6	220.8	221.3	222.1
Electricity and gas	95.3	99.0	98.5	99.1	96.2	100.6	100.3	101.0
Other household operation	116.4	119.9	118.1	118.8	119.4	120.2	121.1	121.1
Transportation	122.7	126.3	123.7	124.5	126.1	126.5	128.0	129.1
Medical care	449.2	463.4	453.2	458.0	461.1	465.1	469.3	472.8
Other	554.4	574.6	561.7	566.8	571.8	577.9	581.9	590.0

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

3. Government Receipts and Expenditures

Table 3.2.—Federal Government Receipts and Expenditures

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Receipts	1,183.0	1,269.5	1,221.1	1,218.4	1,268.0	1,275.9	1,315.7	1,339.9
Personal tax and nontax receipts	490.8	521.3	511.8	502.1	520.7	527.1	535.1	549.1
Income taxes	478.0	506.7	498.3	489.1	506.0	512.7	519.0	532.6
Estate and gift taxes	11.3	13.0	12.1	11.6	13.2	12.8	14.4	14.6
Nontaxes	1.4	1.6	1.4	1.5	1.5	1.5	1.7	1.9
Corporate profits tax accruals	120.2	143.1	127.1	132.4	142.4	139.3	158.1	152.3
Federal Reserve banks	16.8	15.3	15.8	15.7	15.3	15.1	15.3	15.5
Other	103.5	127.7	111.3	116.7	127.2	124.2	142.8	136.8
Indirect business tax and nontax accruals	81.3	87.3	83.5	81.5	86.2	86.7	95.0	93.6
Excise taxes	46.8	50.3	46.5	47.4	48.5	48.8	56.6	54.4
Customs duties	18.3	19.8	19.1	18.8	20.4	20.0	20.1	20.3
Nontaxes	16.2	17.2	18.0	15.3	17.3	17.8	18.3	18.9
Contributions for social insurance	490.7	517.8	498.7	502.3	518.7	522.8	527.5	544.9
Expenditures	1,459.3	1,495.9	1,485.3	1,481.9	1,490.6	1,488.5	1,522.6	1,504.6
Purchases	448.8	443.4	452.4	442.7	447.5	443.6	440.0	441.8
National defense	313.8	303.4	315.7	304.8	307.6	301.9	299.2	292.6
Nondefense	135.0	140.1	136.7	137.9	140.0	141.7	140.7	149.1
Transfer payments (net)	624.5	651.9	641.7	642.0	645.6	652.8	667.2	664.6
To persons	608.2	636.1	617.1	628.9	632.7	639.1	643.7	652.0
To rest of the world (net) ...	16.3	15.8	24.6	13.1	12.9	13.7	23.5	12.6
Grants-in-aid to State and local governments	171.4	186.2	176.7	176.1	182.8	188.6	197.4	188.4
Net interest paid	187.1	180.8	181.3	178.3	182.5	182.2	180.4	175.7
Interest paid	219.9	217.5	216.4	214.1	219.0	219.9	217.2	212.4
To persons and business	178.7	175.0	175.0	172.4	176.9	176.7	174.0	167.5
To rest of the world (net)	41.2	42.5	41.4	41.6	42.1	43.2	43.2	44.8
Less: Interest received by government	32.8	36.7	35.1	35.7	36.5	37.7	36.7	36.7
Subsidies less current surplus of government enterprises ..	27.5	33.6	33.2	42.9	32.3	21.4	37.7	34.1
Subsidies	31.7	36.2	36.1	43.7	35.9	24.8	40.5	36.7
Less: Current surplus of government enterprises ..	4.1	2.7	2.9	.8	3.6	3.4	2.8	2.5
Less: Wage accruals less disbursements	0	0	0	0	0	0	0	0
Surplus or deficit (-), national income and product accounts	-276.3	-226.4	-264.2	-263.5	-222.6	-212.7	-207.0	-164.7
Social insurance funds	32.2	41.3	36.4	30.2	45.2	44.7	45.3	57.4
Other	-308.5	-267.8	-300.6	-293.7	-267.8	-257.4	-252.3	-222.1

Table 3.3.—State and Local Government Receipts and Expenditures

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Receipts	837.8	888.1	861.6	860.2	881.0	894.2	917.0	915.4
Personal tax and nontax receipts	154.0	160.3	158.8	155.0	160.3	162.0	164.1	166.7
Income taxes	116.7	120.8	120.8	116.4	121.0	122.1	123.6	125.5
Nontaxes	18.3	19.7	18.8	19.2	19.5	19.8	20.2	20.5
Other	19.0	19.9	19.2	19.5	19.8	20.0	20.3	20.6
Corporate profits tax accruals	26.0	31.0	27.9	28.5	30.8	30.1	34.4	33.0
Indirect business tax and nontax accruals	421.5	443.1	432.2	434.1	440.0	445.7	452.7	458.2
Sales taxes	200.8	211.7	205.7	206.5	209.3	212.8	218.2	221.1
Property taxes	177.7	186.9	181.4	183.9	186.5	187.9	189.3	190.8
Other	43.0	44.5	45.1	43.6	44.3	45.0	45.2	46.3
Contributions for social insurance	64.9	67.4	65.9	66.5	67.2	67.7	68.3	69.1
Federal grants-in-aid	171.4	186.2	176.7	176.1	182.8	188.6	197.4	188.4
Expenditures	830.6	886.2	848.0	859.4	880.0	895.9	909.7	917.2
Purchases	683.0	714.6	691.4	697.0	711.1	721.2	729.2	730.8
Compensation of employees	457.3	480.1	465.6	472.1	477.7	483.0	487.6	493.9
Other	225.7	234.5	225.7	224.9	233.4	238.3	241.6	237.0
Transfer payments to persons	228.6	254.1	238.4	244.1	251.0	257.2	263.9	270.3
Net interest paid	-46.0	-45.3	-45.7	-45.5	-45.3	-45.2	-45.0	-44.9
Interest paid	66.1	68.7	67.1	67.7	68.4	69.0	69.6	70.2
Less: Interest received by government	112.1	113.9	112.8	113.2	113.7	114.2	114.6	115.1
Less: Dividends received by government	10.2	10.7	10.5	10.5	10.7	10.8	10.9	11.1
Subsidies less current surplus of government enterprises ..	-24.8	-26.5	-25.5	-25.8	-26.2	-26.7	-27.4	-27.9
Subsidies .....	.4	.5	.4	.4	.5	.5	.5	.5
Less: Current surplus of government enterprises ..	25.2	27.0	25.9	26.2	26.6	27.1	27.9	28.4
Less: Wage accruals less disbursements	0	0	0	0	0	0	0	0
Surplus or deficit (-), national income and product accounts	7.2	1.8	13.5	.8	1.1	-1.7	7.2	-1.8
Social insurance funds	59.4	58.6	59.6	59.0	58.9	58.5	57.9	57.2
Other	-52.2	-56.7	-46.0	-58.2	-57.8	-60.2	-50.7	-59.0

Table 3.7B.—Government Purchases by Type

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Government purchases	1,131.8	1,158.1	1,143.8	1,139.7	1,158.6	1,164.8	1,169.1	1,172.6
Federal	448.8	443.4	452.4	442.7	447.5	443.6	440.0	441.8
National defense	313.8	303.4	315.7	304.8	307.6	301.9	299.2	292.6
Durable goods	79.0	70.6	78.9	74.4	75.3	67.4	65.1	62.4
Nondurable goods	10.3	9.4	9.8	9.0	10.2	9.3	9.1	8.5
Services	218.9	218.1	221.0	216.4	217.0	219.4	219.8	216.5
Compensation of employees	135.7	137.0	133.7	137.2	136.4	137.9	136.3	138.3
Military	90.7	91.0	89.2	91.5	91.2	90.7	90.5	91.7
Civilian	45.0	46.0	44.5	45.7	45.2	47.2	45.8	46.6
Other services	83.2	81.2	87.3	79.1	80.6	81.5	83.5	78.2
Structures	5.6	5.3	6.0	5.0	5.0	5.8	5.2	5.2
Nondefense	135.0	140.1	136.7	137.9	140.0	141.7	140.7	149.1
Durable goods	7.1	7.5	7.4	7.3	7.9	7.3	7.3	8.0
Nondurable goods	8.6	7.2	9.3	7.8	7.6	7.3	6.3	7.5
Commodity Credit Corporation inventory change	-7	-3	0	-4	-3	-2	-2	-2
Other nondurables	9.2	7.5	9.3	8.1	7.9	7.5	6.5	7.7
Services	109.0	114.6	109.7	112.2	114.3	116.1	115.6	122.7
Compensation of employees	64.1	70.0	65.0	69.0	69.8	70.4	70.8	72.5
Other services	44.9	44.6	44.7	43.2	44.6	45.7	44.8	50.2
Structures	10.3	10.8	10.3	10.5	10.1	11.0	11.5	10.9
State and local	683.0	714.6	691.4	697.0	711.1	721.2	729.2	730.8
Durable goods	37.6	39.3	38.2	38.7	39.2	39.7	39.8	40.5
Nondurable goods	60.2	62.2	60.7	61.7	63.0	62.3	61.9	63.2
Services	485.3	506.9	493.5	499.6	504.4	509.9	513.9	521.0
Compensation of employees	457.3	480.1	465.6	472.1	477.7	483.0	487.6	493.9
Other services	28.0	26.8	27.9	27.5	26.6	26.9	26.3	27.1
Structures	99.8	106.2	99.0	97.1	104.5	109.4	113.6	106.2

Table 3.10.—National Defense Purchases

[Billions of dollars]

National defense purchases	313.8	303.4	315.7	304.8	307.6	301.9	299.2	292.6
Durable goods	79.0	70.6	78.9	74.4	75.3	67.4	65.1	62.4
Military equipment	73.2	66.3	72.6	70.5	70.5	63.1	60.9	58.3
Aircraft	22.7	20.9	21.9	20.8	22.5	20.1	20.1	19.6
Missiles	14.3	12.1	14.2	13.5	12.9	11.6	10.4	9.8
Ships	12.1	10.7	11.6	11.1	11.3	10.0	10.1	9.2
Vehicles	3.8	3.0	3.9	4.2	3.2	2.3	2.1	2.3
Electronic equipment	6.6	6.3	7.1	6.6	6.8	6.4	5.6	5.5
Other	13.6	13.3	14.0	14.2	13.9	12.6	12.5	12.0
Other durable goods	5.8	4.3	6.3	3.9	4.8	4.3	4.2	4.0
Nondurable goods	10.3	9.4	9.8	9.0	10.2	9.3	9.1	8.5
Petroleum products	3.5	3.2	3.0	3.0	3.4	3.3	2.9	2.5
Ammunition	3.4	3.6	3.6	3.5	4.0	3.1	3.8	3.6
Other nondurable goods	3.4	2.7	3.2	2.5	2.7	2.9	2.5	2.4
Services	218.9	218.1	221.0	216.4	217.0	219.4	219.8	216.5
Compensation of employees	135.7	137.0	133.7	137.2	136.4	137.9	136.3	138.3
Military	90.7	91.0	89.2	91.5	91.2	90.7	90.5	91.7
Civilian	45.0	46.0	44.5	45.7	45.2	47.2	45.8	46.6
Other services	83.2	81.2	87.3	79.1	80.6	81.5	83.5	78.2
Contractual research and development	26.5	26.6	27.5	27.2	26.6	25.5	27.1	24.6
Installation support ¹	23.4	23.2	24.3	22.1	21.9	24.9	24.0	23.9
Weapons support ²	10.0	9.1	10.0	9.1	9.6	9.1	8.6	8.2
Personnel support ³	13.3	12.8	13.4	11.6	12.2	13.3	14.1	13.6
Transportation of material	5.8	5.2	6.1	5.0	5.3	5.6	5.0	4.5
Travel of persons	6.2	6.3	7.2	6.3	6.4	6.5	6.0	4.8
Other	-2.0	-2.1	-1.1	-2.2	-1.5	-3.3	-1.3	-1.4
Structures	5.6	5.3	6.0	5.0	5.0	5.8	5.2	5.2
Military facilities	3.5	3.2	3.8	3.0	3.0	3.6	3.0	3.0
Other	2.1	2.1	2.2	2.0	2.1	2.2	2.2	2.2

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

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.

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

[Billions of 1987 dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Government purchases	945.2	938.9	946.9	931.3	941.1	941.7	941.7	933.1
Federal	373.0	354.9	373.7	357.6	359.4	353.7	349.0	344.6
National defense	261.2	242.4	261.3	246.0	246.4	240.1	237.1	228.0
Durable goods	73.2	63.6	72.6	67.2	67.4	60.9	58.9	56.2
Nondurable goods	9.4	8.7	8.6	8.3	9.2	8.7	8.5	8.0
Services	173.6	165.6	174.7	166.1	165.5	165.4	165.3	159.5
Compensation of employees	100.9	95.8	99.0	97.7	96.4	95.3	93.8	93.2
Military	66.4	63.4	65.4	64.4	63.8	63.1	62.2	62.0
Civilian	34.5	32.4	33.7	33.3	32.7	32.2	31.6	31.2
Other services	72.7	69.8	75.7	68.4	69.0	70.1	71.5	66.3
Structures	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.4
Nondefense	111.8	112.5	112.4	111.5	113.0	113.7	111.8	116.6
Durable goods	7.5	8.1	7.9	7.8	8.4	8.1	8.2	8.2
Nondurable goods	7.9	6.5	8.4	7.2	6.9	6.4	5.4	6.6
Commodity Credit Corporation inventory change	-4	-3	0	-2	-2	-3	-3	-2
Other nondurables	8.3	6.8	8.4	7.4	7.1	6.7	5.8	6.7
Services	87.4	88.6	87.2	87.3	88.9	89.8	88.4	92.7
Compensation of employees	49.6	51.3	49.8	51.0	51.4	51.6	51.3	51.3
Other services	37.8	37.3	37.4	36.3	37.4	38.2	37.2	41.4
Structures	9.0	9.2	8.9	9.1	8.7	9.4	9.8	9.2
State and local	572.2	584.0	573.2	573.7	581.6	588.0	592.8	588.4
Durable goods	33.3	34.1	33.6	33.8	34.0	34.3	34.5	34.8
Nondurable goods	52.1	53.5	52.7	53.0	53.4	53.8	54.0	54.5
Services	395.8	402.6	398.2	400.1	401.9	403.4	405.0	406.9
Compensation of employees	359.0	363.9	361.0	362.0	363.4	364.5	365.7	367.0
Other services	36.7	38.7	37.3	38.1	38.4	38.9	39.3	39.8
Structures	91.1	93.8	88.6	86.9	92.4	96.5	99.3	92.3

Table 3.11.—National Defense Purchases in Constant Dollars

[Billions of 1987 dollars]

National defense purchases	261.2	242.4	261.3	246.0	246.4	240.1	237.1	228.0
Durable goods	73.2	63.6	72.6	67.2	67.4	60.9	58.9	56.2
Military equipment	67.1	58.7	66.3	62.9	62.1	55.9	53.9	51.9
Aircraft	20.2	17.5	19.0	17.7	18.8	16.6	16.7	16.0
Missiles	15.3	12.7	15.7	14.1	13.2	12.4	11.2	11.3
Ships	10.3	8.9	9.8	9.3	9.5	8.3	8.4	7.5
Vehicles	3.4	2.5	3.4	3.6	2.6	2.0	1.8	1.9
Electronic equipment	6.1	5.8	6.5	6.0	6.2	5.9	5.1	5.0
Other	11.8	11.4	11.9	12.1	11.8	10.8	10.7	10.1
Other durable goods	6.1	4.9	6.4	4.4	5.3	5.0	5.0	4.3
Nondurable goods	9.4	8.7	8.6	8.3	9.2	8.7	8.5	8.0
Petroleum products	2.9	2.8	2.4	2.7	2.9	2.9	2.6	2.5
Ammunition	3.5	3.6	3.3	3.4	3.9	3.1	3.8	3.3
Other nondurable goods	3.0	2.4	2.9	2.2	2.4	2.7	2.2	2.2
Services	173.6	165.6	174.7	166.1	165.5	165.4	165.3	159.5
Compensation of employees	100.9	95.8	99.0	97.7	96.4	95.3	93.8	93.2
Military	66.4	63.4	65.4	64.4	63.8	63.1	62.2	62.0
Civilian	34.5	32.4	33.7	33.3	32.7	32.2	31.6	31.2
Other services	72.7	69.8	75.7	68.4	69.0	70.1	71.5	66.3
Contractual research and development	23.6	23.4	24.1	23.8	23.4	22.4	24.2	21.6
Installation support ¹	20.6	20.1	21.2	19.4	19.1	21.4	20.5	20.5
Weapons support ²	8.4	7.4	8.2	7.4	7.8	7.4	6.9	6.5
Personnel support ³	10.0	9.6	9.9	8.7	9.1	10.0	10.6	10.0
Transportation of material	6.1	5.4	6.6	5.3	5.4	5.8	5.3	4.6
Travel of persons	5.6	5.4	6.4	5.4	5.5	5.6	5.1	4.1
Other	-1.6	-1.6	-8	-1.6	-1.1	-2.5	-1.0	-1.0
Structures	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.4
Military facilities	3.3	2.9	3.5	2.8	2.8	3.3	2.8	2.7
Other	1.7	1.6	1.8	1.6	1.6	1.7	1.7	1.6

4. Foreign Transactions

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

(Billions of dollars)

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Receipts from rest of the world	769.7	793.4	777.0	774.1	791.8	788.3	819.6	825.2
Exports of goods and services	640.5	661.7	654.7	651.3	660.0	653.2	682.4	681.6
Merchandise ¹	448.7	461.5	462.0	453.2	458.6	452.2	482.0	477.1
Durable	300.8	314.6	311.1	306.9	314.0	307.4	330.2	330.1
Nondurable	147.9	146.9	150.9	146.3	144.6	144.8	151.8	147.0
Services ¹	191.7	200.2	192.8	198.0	201.3	200.9	200.4	204.4
Receipts of factor income ²	129.2	131.7	122.3	122.8	131.9	135.1	137.2	143.6
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Payments to rest of the world	769.7	793.4	777.0	774.1	791.8	788.3	819.6	825.2
Imports of goods and services	670.1	725.3	693.5	699.6	725.0	725.1	751.5	761.3
Merchandise ¹	544.5	592.1	564.7	569.6	592.6	591.9	614.2	623.4
Durable	346.3	385.7	359.7	368.8	379.5	384.5	409.8	419.3
Nondurable	198.2	206.4	205.1	200.7	213.1	207.3	204.4	204.1
Services ¹	125.6	133.2	128.7	130.0	132.4	133.3	137.2	137.9
Payments of factor income ³	121.9	131.6	124.8	122.4	132.3	128.7	142.8	146.5
Transfer payments (net)	32.7	32.8	41.2	29.7	29.9	30.9	40.8	30.3
From persons (net)	10.4	11.0	10.5	11.0	11.0	10.8	11.2	11.6
From government (net)	16.3	15.8	24.6	13.1	12.9	13.7	23.5	12.6
From business	6.0	6.0	6.1	5.6	6.0	6.3	6.0	6.1
Net foreign investment	-55.1	-96.2	-82.4	-77.6	-95.4	-96.4	-115.5	-113.0

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.
 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 4.2.—Exports and Imports of Goods and Services and Receipts and Payments of Factor Income in Constant Dollars

(Billions of 1987 dollars)

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Exports of goods and services	578.0	598.3	591.6	588.0	593.2	591.9	620.0	618.4
Merchandise ¹	422.7	440.5	437.3	430.2	434.5	434.1	463.0	459.0
Durable	288.0	306.5	300.0	296.5	302.4	302.2	324.9	326.8
Nondurable	134.7	134.0	137.3	133.7	132.1	131.9	138.1	132.2
Services ¹	155.4	157.8	154.3	157.8	158.6	157.8	157.0	159.4
Receipts of factor income ²	105.5	104.7	98.9	98.3	105.0	107.1	108.5	112.7
Imports of goods and services	611.6	674.8	630.3	647.9	668.4	678.2	704.5	719.2
Merchandise ¹	511.9	571.4	530.3	545.9	565.7	574.9	598.9	613.0
Durable	332.5	379.5	348.0	360.5	372.1	381.0	404.5	415.2
Nondurable	179.4	191.8	182.4	185.5	193.6	193.9	194.4	197.8
Services ¹	99.7	103.4	100.0	102.0	102.7	103.3	105.6	106.2
Payments of factor income ³	97.7	102.2	98.8	95.8	103.0	99.6	110.4	112.4

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.
 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 4.3.—Exports and Imports of Merchandise by End-Use Category

(Billions of dollars)

Exports of merchandise	448.7	461.5	462.0	453.2	458.6	452.2	482.0	477.1
Foods, feeds, and beverages	40.3	40.5	41.9	40.8	39.6	38.9	42.6	39.7
Industrial supplies and materials	105.2	103.2	104.9	103.0	103.0	102.4	104.3	104.3
Durable goods	36.9	37.6	37.2	37.2	37.6	38.1	37.6	38.0
Nondurable goods	68.4	65.5	67.7	65.8	65.4	64.2	66.7	66.4
Capital goods, except automotive	176.9	183.4	182.0	177.8	183.3	178.5	193.8	194.7
Civilian aircraft, engines, and parts	37.7	32.8	37.1	33.1	36.4	27.1	34.5	34.1
Computers, peripherals, and parts	28.8	29.3	30.0	28.8	28.0	29.6	30.7	31.6
Other	110.4	121.3	114.9	115.9	118.8	121.9	128.6	129.1
Automotive vehicles, engines, and parts	47.1	51.6	50.9	51.2	51.3	48.4	55.6	54.6
Consumer goods, except automotive	50.4	53.6	53.3	51.5	52.2	54.2	56.6	55.2
Durable goods	25.6	27.4	26.5	26.3	27.2	27.5	28.7	28.6
Nondurable goods	24.8	26.2	26.8	25.2	25.1	26.7	27.9	26.6
Other	28.9	29.3	28.9	28.8	29.3	29.9	29.1	28.6
Durable goods	14.5	14.6	14.5	14.4	14.6	14.9	14.6	14.3
Nondurable goods	14.5	14.6	14.5	14.4	14.6	14.9	14.6	14.3
Imports of merchandise	544.5	592.1	564.7	569.6	592.6	591.9	614.2	623.4
Foods, feeds, and beverages	27.9	28.1	27.6	27.4	27.5	28.3	29.0	29.5
Industrial supplies and materials, except petroleum and products	82.3	89.1	84.2	86.4	87.3	89.0	93.6	99.5
Durable goods	39.5	43.6	40.3	41.7	41.1	43.3	48.2	50.7
Nondurable goods	42.8	45.5	43.9	44.8	46.2	45.7	45.3	48.8
Petroleum and products	51.6	51.5	54.9	51.0	57.3	50.2	47.5	41.8
Capital goods, except automotive	134.2	152.3	141.8	142.6	150.7	152.6	163.1	170.3
Civilian aircraft, engines, and parts	12.6	11.3	13.0	10.5	11.8	10.5	12.4	11.2
Computers, peripherals, and parts	31.8	38.2	34.6	35.9	37.2	39.0	40.5	41.5
Other	89.8	102.8	94.2	96.2	101.7	103.1	110.2	117.6
Automotive vehicles, engines, and parts	91.8	102.4	95.1	100.5	102.1	100.1	106.9	107.6
Consumer goods, except automotive	123.0	134.3	126.5	128.9	132.9	137.6	137.3	137.3
Durable goods	63.9	70.2	65.2	67.7	68.2	71.5	73.3	72.0
Nondurable goods	59.1	64.1	61.3	61.2	64.7	66.2	64.4	65.3
Other	33.8	34.5	34.8	32.7	34.8	33.9	36.6	37.3
Durable goods	16.9	17.3	17.4	16.4	17.4	17.0	18.3	18.7
Nondurable goods	16.9	17.3	17.4	16.4	17.4	17.0	18.3	18.7
Addenda:								
Exports of agricultural products ¹	44.0	43.6	45.5	43.4	43.1	42.4	45.4	43.6
Exports of nonagricultural products	404.7	418.0	416.4	409.9	415.5	409.8	436.6	433.5
Imports of nonpetroleum products	492.9	540.6	509.9	518.5	535.3	541.7	566.8	581.5

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

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

(Billions of 1987 dollars)

Exports of merchandise	422.7	440.5	437.3	430.2	434.5	434.1	463.0	459.0
Foods, feeds, and beverages	35.7	35.4	37.7	36.4	35.2	33.7	36.4	33.0
Industrial supplies and materials	97.5	95.1	96.6	94.7	94.0	94.3	97.4	95.8
Durable goods	32.1	31.1	31.9	31.1	30.6	31.4	31.2	31.0
Nondurable goods	65.4	64.0	64.7	63.6	63.4	63.0	66.2	64.8
Capital goods, except automotive	178.4	192.7	186.8	184.3	189.5	190.5	206.5	210.3
Civilian aircraft, engines, and parts	30.9	26.1	30.0	26.6	29.0	21.6	27.2	26.8
Computers, peripherals, and parts	51.0	60.8	56.4	55.9	57.0	62.5	67.6	70.5
Other	96.6	105.8	100.5	101.8	103.4	106.3	111.7	113.0
Automotive vehicles, engines, and parts	41.9	45.6	45.1	45.3	45.3	42.8	49.1	47.9
Consumer goods, except automotive	43.5	45.9	45.5	44.1	44.9	46.5	48.2	47.1
Durable goods	22.7	24.3	23.4	23.2	24.1	24.4	25.4	25.1
Nondurable goods	20.8	21.7	22.2	21.0	20.8	22.1	22.8	21.9
Other	25.6	25.7	25.5	25.4	25.7	26.3	25.5	25.0
Durable goods	12.8	12.9	12.8	12.7	12.8	13.1	12.8	12.5
Nondurable goods	12.8	12.9	12.8	12.7	12.8	13.1	12.8	12.5
Imports of merchandise	511.9	571.4	530.3	545.9	565.7	574.9	598.9	613.0
Foods, feeds, and beverages	26.0	25.8	25.6	26.1	25.6	25.7	25.8	26.3
Industrial supplies and materials, except petroleum and products	72.0	78.0	73.3	75.3	76.0	78.8	81.9	86.7
Durable goods	34.1	37.2	34.8	35.3	34.9	37.6	41.1	42.9
Nondurable goods	37.9	40.8	38.5	40.0	41.1	41.1	40.8	43.8
Petroleum and products	51.2	56.5	52.8	53.4	57.8	56.7	58.1	56.7
Capital goods, except automotive	148.4	179.3	160.0	165.3	175.8	181.4	194.5	204.1
Civilian aircraft, engines, and parts	10.3	9.0	10.5	8.5	9.4	8.4	9.8	8.8
Computers, peripherals, and parts	59.7	82.5	68.2	73.1	79.0	85.8	92.0	95.9
Other	78.3	87.8	81.3	83.8	87.4	87.2	92.7	99.4
Automotive vehicles, engines, and parts	79.7	87.4	81.9	87.0	87.4	85.3	89.8	89.8
Consumer goods, except automotive	105.2	114.7	106.7	110.2	113.0	117.8	117.6	117.5
Durable goods	55.6	60.8	56.2	58.6	58.9	62.0	63.6	62.4
Nondurable goods	49.6	53.9	50.5	51.6	54.1	55.8	54.0	55.0
Other	29.5	29.7	30.1	28.5	30.0	29.3	31.2	31.8
Durable goods	14.7	14.9	15.0	14.2	15.0	14.6	15.6	15.9
Nondurable goods	14.7	14.9	15.0	14.2	15.0	14.6	15.6	15.9
Addenda:								
Exports of agricultural products ¹	39.7	38.5	41.1	38.7	38.8	37.3	39.1	36.5
Exports of nonagricultural products	382.9							

5. Saving and Investment

Table 5.1.—Gross Saving and Investment

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Gross saving	717.8	780.2	718.8	762.0	766.7	774.3	817.8	858.4
Gross private saving	986.9	1,004.8	969.4	1,024.8	988.3	988.7	1,017.5	1,024.9
Personal saving	238.7	189.9	279.7	177.9	208.7	179.7	193.4	171.8
Undistributed corporate profits with inventory valuation and capital consumption adjustments	110.4	123.6	121.7	103.7	116.3	129.3	145.1	117.3
Undistributed profits	98.6	106.4	92.0	91.4	103.9	104.6	125.6	113.2
Inventory valuation adjustment	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
Capital consumption adjustment	17.1	24.3	24.7	25.1	24.7	23.8	23.9	20.1
Corporate consumption of fixed capital	396.6	408.8	396.5	402.2	405.2	414.0	413.9	433.3
Noncorporate consumption of fixed capital	261.3	262.5	251.5	261.0	258.1	265.7	265.1	302.5
Wage accruals less disbursements	-20.0	20.0	-80.0	80.0	0	0	0	0
Government surplus or deficit (-), national income and product accounts	-269.1	-224.6	-250.6	-262.8	-221.5	-214.4	-199.7	-166.5
Federal	-276.3	-226.4	-264.2	-263.5	-222.6	-212.7	-207.0	-164.7
State and local	7.2	1.8	13.5	.8	1.1	-1.7	7.2	-1.8
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Gross investment	741.4	795.4	750.9	796.5	778.7	787.6	819.0	853.7
Gross private domestic investment	796.5	891.7	833.3	874.1	874.1	884.0	934.5	966.7
Net foreign investment	-55.1	-96.2	-82.4	-77.6	-95.4	-96.4	-115.5	-113.0
Statistical discrepancy	23.6	15.2	32.1	34.4	12.0	13.3	1.2	-4.7

Table 5.4.—Fixed Investment by Type

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Fixed investment	789.1	876.1	821.3	839.5	861.0	876.3	927.6	946.6
Nonresidential	565.5	623.7	579.5	594.7	619.1	624.9	656.0	666.6
Structures	172.6	178.7	171.1	172.4	177.6	179.1	185.8	176.9
Nonresidential buildings, including farm	114.6	119.4	111.9	114.8	117.1	119.6	125.9	120.2
Utilities	35.8	36.5	36.9	35.1	36.6	36.6	37.8	35.9
Mining exploration, shafts, and wells	12.4	13.7	12.6	12.8	14.0	14.4	13.5	13.1
Other structures	9.8	9.2	9.7	9.7	9.8	8.6	8.6	7.7
Producers' durable equipment	392.9	445.0	408.3	422.2	441.6	445.8	470.2	489.7
Information processing and related equipment	135.5	151.9	139.7	142.7	147.0	154.6	163.4	168.0
Computers and peripheral equipment ¹	39.8	48.1	40.7	45.8	46.1	49.5	50.9	52.4
Other	95.7	103.9	98.9	96.9	100.9	105.1	112.5	115.6
Industrial equipment	87.2	97.8	91.2	92.4	95.9	98.7	104.0	107.2
Transportation and related equipment	90.7	105.4	96.1	101.3	110.1	101.9	108.3	117.3
Other	79.5	89.9	81.3	85.8	88.5	90.6	94.5	97.2
Residential	223.6	252.4	241.8	244.9	241.9	251.3	271.6	280.0
Structures	216.3	244.6	234.3	237.3	234.2	243.4	263.5	272.0
Single family	116.5	133.8	124.3	132.4	127.5	131.1	144.0	151.8
Multifamily	13.1	10.8	11.7	10.3	10.3	11.4	11.1	11.2
Other structures	86.7	100.1	98.3	94.6	96.4	100.9	108.4	109.0
Producers' durable equipment	7.3	7.8	7.5	7.5	7.6	7.9	8.1	8.0

1. Includes new computers and peripheral equipment only.

Table 5.5.—Fixed Investment by Type in Constant Dollars

[Billions of 1987 dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Fixed investment	726.4	806.0	754.3	773.7	790.6	806.9	852.9	866.4
Nonresidential	529.2	591.8	543.7	562.3	584.3	594.8	625.7	635.0
Structures	150.6	151.5	148.0	148.2	151.1	151.2	155.6	147.1
Nonresidential buildings, including farm	100.8	101.8	97.5	99.3	100.5	101.5	106.0	100.5
Utilities	30.9	30.6	31.6	29.9	30.6	30.5	31.2	29.4
Mining exploration, shafts, and wells	10.0	11.1	10.3	10.4	11.4	11.7	10.9	10.5
Other structures	8.9	8.1	8.6	8.6	8.7	7.5	7.5	6.7
Producers' durable equipment	378.6	440.2	395.7	414.1	433.2	443.6	470.0	487.9
Information processing and related equipment	159.9	195.2	168.5	178.6	186.8	200.9	214.6	222.2
Computers and peripheral equipment ¹	71.2	100.4	77.2	89.5	94.5	105.1	112.4	117.2
Other	88.7	94.8	91.3	89.0	92.3	95.9	102.2	105.0
Industrial equipment	72.7	80.2	75.7	76.7	78.8	80.5	84.7	87.1
Transportation and related equipment	77.7	88.8	82.1	85.7	92.8	85.7	91.0	97.0
Other	68.3	76.1	69.4	73.2	74.9	76.5	79.7	81.5
Residential	197.1	214.2	210.6	211.4	206.2	212.1	227.2	231.4
Structures	190.1	206.8	203.3	204.1	198.9	204.6	219.6	223.8
Single family	102.7	113.1	107.9	113.9	108.7	110.0	119.6	125.1
Multifamily	11.8	9.3	10.4	9.1	9.0	9.8	9.4	9.4
Other structures	75.6	84.4	85.0	81.1	81.2	84.8	90.5	89.3
Producers' durable equipment	7.0	7.4	7.2	7.3	7.3	7.5	7.7	7.6

1. Includes new computers and peripheral equipment only.

Table 5.10.—Change in Business Inventories by Industry

(Billions of dollars)

	1992	1993	Seasonally adjusted at annual rates						
			1992		1993				1994
			IV	I	II	III	IV	I	
Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	20.1	
Farm	5.0	-5.5	2.4	1.5	-3.7	-14.9	-5.0	-1.6	
Nonfarm	2.3	21.1	9.5	33.0	16.8	22.6	12.0	21.7	
Change in book value	8.8	31.2	3.3	51.7	34.8	21.9	16.2	43.2	
Inventory valuation adjustment	-6.4	-10.1	6.2	-18.7	-18.0	.7	-4.3	-21.5	
Manufacturing	-6.0	-8	-14.2	-1.8	4.2	2.9	-8.7	4.0	
Durable goods	-10.6	-1.7	-17.0	-5.5	.4	2.6	-4.3	.9	
Nondurable goods	4.6	.9	2.8	3.7	3.9	.2	-4.4	3.1	
Wholesale trade	6.1	4.2	13.5	.7	6.8	7.7	1.4	-3.5	
Durable goods	3.9	1.3	3.8	-3.2	.6	7.0	1.0	-1.1	
Nondurable goods	2.2	2.8	9.7	3.9	6.3	.7	.4	-2.4	
Merchant wholesalers	6.3	3.9	15.0	-3	6.1	10.0	0	-5.5	
Durable goods	4.4	1.0	5.5	-3.7	1.8	6.2	-2	-2.7	
Nondurable goods	1.8	2.9	9.5	3.5	4.2	3.7	.2	-2.7	
Nonmerchant wholesalers	-2	.2	-1.5	.9	.8	-2.2	1.4	2.0	
Durable goods	-5	.3	-1.7	.5	-1.3	.8	1.2	1.6	
Nondurable goods .....	.3	-1	.2	.4	2.0	-3.0	.2	.4
Retail trade	6.5	12.2	10.5	27.6	3.0	5.3	12.8	12.9	
Durable goods	4.8	8.7	6.5	21.9	.4	-4	12.9	16.6	
Automotive	-7	3.2	-1.9	19.0	-6	-8.4	2.9	12.4	
Other	5.5	5.5	8.4	2.9	1.0	8.0	10.0	4.2	
Nondurable goods	1.6	3.5	4.0	5.8	2.6	5.7	-1	-3.7	
Other	-4.3	5.6	-2	6.5	2.8	6.7	6.5	8.3	
Durable goods	3.8	2.6	5.5	1.9	1.4	5.6	1.4	5.3	
Nondurable goods	-8.1	3.0	-5.8	4.6	1.4	1.1	5.1	3.0	

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

(Billions of 1987 dollars)

	1992	1993	Seasonally adjusted at annual rates						
			1992		1993				1994
			IV	I	II	III	IV	I	
Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	19.1	
Farm	3.8	-5.3	1.2	0	-4.1	-12.9	-4.4	-1.9	
Nonfarm	2.7	19.7	7.5	29.3	17.1	19.4	12.9	21.1	
Manufacturing	-4.7	5	-12.5	-8	5.0	3.1	-5.3	6.0	
Durable goods	-8.9	-5	-15.1	-4.6	1.4	2.8	-1.7	2.6	
Nondurable goods	4.2	1.0	2.6	3.8	3.6	.3	-3.6	3.5	
Wholesale trade	5.4	3.7	10.7	.7	6.6	6.4	1.2	-2.2	
Durable goods	3.6	1.3	3.4	-2.8	.6	6.3	1.1	-6.6	
Nondurable goods	1.8	2.4	7.3	3.6	6.1	.1	0	-1.5	
Merchant wholesalers	5.6	3.5	12.8	-1	5.9	8.5	-4	-4.1	
Durable goods	4.0	.9	5.0	-3.3	1.7	5.6	-3	-2.3	
Nondurable goods	1.6	2.5	7.7	3.2	4.2	2.9	-1	-1.8	
Nonmerchant wholesalers	-2	.3	-2.1	.8	.7	-2.1	1.6	1.9	
Durable goods	-4	.4	-1.6	.4	-1.2	.8	1.4	1.7	
Nondurable goods .....	.3	-1	-4	.4	1.8	-2.8	.2	.2
Retail trade	5.9	10.7	9.7	24.0	3.0	4.8	11.1	10.5	
Durable goods	4.3	7.6	5.9	18.9	.8	-1	11.0	13.8	
Automotive	-6	2.9	-1.7	16.6	-5	-7.1	2.4	10.4	
Other	4.9	4.8	7.6	2.3	1.2	7.0	8.6	3.4	
Nondurable goods	1.6	3.1	3.8	5.1	2.3	4.9	.1	-3.3	
Other	-3.9	4.7	-4	5.4	2.4	5.0	5.9	6.8	
Durable goods	3.4	2.2	4.9	1.6	1.2	4.8	1.2	4.4	
Nondurable goods	-7.3	2.5	-5.3	3.8	1.2	.2	4.7	2.4	

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

(Billions of dollars)

	Seasonally adjusted quarterly totals						
	1992	1993				1994	
	IV	I	II	III	IV	I	
Inventories¹	1,099.0	1,119.5	1,119.6	1,130.9	1,134.8	1,146.0	
Farm	95.1	99.1	95.4	95.1	92.7	94.4	
Nonfarm	1,003.9	1,020.4	1,024.2	1,035.8	1,042.1	1,051.6	
Durable goods	580.9	590.7	592.1	600.3	607.5	616.9	
Nondurable goods	423.0	429.7	432.2	435.5	434.6	434.7	
Manufacturing	400.9	402.0	402.4	407.0	405.0	407.4	
Durable goods	251.0	250.8	250.7	254.2	253.8	256.5	
Nondurable goods	149.9	151.2	151.7	152.8	151.2	150.9	
Wholesale trade	247.9	249.6	251.3	254.6	256.7	257.0	
Durable goods	155.4	155.9	156.6	159.1	160.3	161.2	
Nondurable goods	92.5	93.7	94.7	95.5	96.4	95.8	
Merchant wholesalers	221.4	222.6	224.1	227.6	229.4	228.9	
Durable goods	139.4	139.5	140.5	142.5	143.3	143.5	
Nondurable goods	82.0	83.1	83.7	85.0	86.0	85.4	
Nonmerchant wholesalers	26.5	27.0	27.2	27.0	27.3	28.1	
Durable goods	16.0	16.4	16.1	16.6	17.0	17.7	
Nondurable goods	10.4	10.6	11.1	10.4	10.4	10.4	
Retail trade	269.5	280.1	281.2	282.7	286.6	291.2	
Durable goods	129.4	137.0	138.0	138.2	143.0	147.6	
Automotive	62.5	68.2	69.3	66.9	68.5	72.0	
Other	67.0	68.7	68.7	71.3	74.5	75.6	
Nondurable goods	140.1	143.1	143.3	144.5	143.6	143.6	
Other	85.6	88.7	89.3	91.5	93.8	96.0	
Final sales of domestic business²	436.9	439.0	445.5	450.7	461.1	466.2	
Final sales of goods and structures of domestic business²	240.5	240.4	243.9	245.9	253.8	256.1	
Ratio of inventories to final sales of domestic business							
Inventories to final sales	2.52	2.55	2.51	2.51	2.46	2.46	
Nonfarm inventories to final sales	2.30	2.32	2.30	2.30	2.26	2.26	
Nonfarm inventories to final sales of goods and structures	4.17	4.24	4.20	4.21	4.11	4.11	

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

(Billions of 1987 dollars)

	Seasonally adjusted quarterly totals						
	1992	1993				1994	
	IV	I	II	III	IV	I	
Inventories¹	985.3	992.6	995.9	997.5	999.6	1,004.4	
Farm	88.1	88.1	87.1	83.9	82.8	82.3	
Nonfarm	897.2	904.5	908.8	913.6	916.8	922.1	
Durable goods	525.3	528.6	529.6	533.0	535.9	541.0	
Nondurable goods	371.8	375.9	379.2	380.6	380.9	381.1	
Manufacturing	365.9	365.7	366.9	367.7	366.4	367.9	
Durable goods	231.9	230.7	231.1	231.8	231.4	232.0	
Nondurable goods	134.0	135.0	135.8	135.9	135.0	135.9	
Wholesale trade	217.7	217.9	219.6	221.2	221.5	220.9	
Durable goods	138.5	137.8	138.0	139.5	139.8	139.7	
Nondurable goods	79.2	80.1	81.6	81.6	81.7	81.3	
Merchant wholesalers	193.8	193.8	195.3	197.4	197.3	196.3	
Durable goods	124.0	123.1	123.6	125.0	124.9	124.3	
Nondurable goods	69.8	70.6	71.7	72.4	72.4	71.9	
Nonmerchant wholesalers	23.9	24.2	24.3	23.8	24.2	24.7	
Durable goods	14.6	14.7	14.4	14.6	14.9	15.3	
Nondurable goods	9.4	9.5	9.9	9.2	9.3	9.3	
Retail trade	236.4	242.4	243.2	244.4	247.1	249.7	
Durable goods	115.2	119.9	120.1	120.1	122.9	126.3	
Automotive	56.5	60.6	60.5	58.7	59.4	62.0	
Other	58.7	59.3	59.6	61.4	63.5	64.4	
Nondurable goods	121.2	122.5	123.0	124.2	124.3	123.4	
Other	77.1	78.5	79.1	80.3	81.8	83.5	
Final sales of domestic business²	361.5	360.4	363.4	366.8	373.9	376.0	
Final sales of goods and structures of domestic business²	208.6	207.0	209.3	211.3	217.6	218.4	
Ratio of inventories to final sales of domestic business							
Inventories to final sales	2.73	2.75	2.74	2.72	2.67	2.67	
Nonfarm inventories to final sales	2.48	2.51	2.50	2.49	2.45	2.45	
Nonfarm inventories to final sales of goods and structures	4.30	4.37	4.34	4.32	4.21	4.22	

1. Inventories are as of the end of the quarter.
 2. 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 sales by farm.

1. 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.
 2. 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 sales by farm.

6. Income, Employment, and Product by Industry

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

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
National income without capital consumption adjustment	4,880.3	5,172.7	5,003.2	5,071.1	5,133.6	5,177.6	5,308.6	5,371.5
Domestic industries	4,873.0	5,172.5	5,005.7	5,070.7	5,134.1	5,171.2	5,314.2	5,374.5
Private industries	4,138.5	4,407.2	4,262.0	4,313.3	4,372.8	4,401.9	4,540.7	4,590.2
Agriculture, forestry, and fisheries	100.9	105.3	104.3	112.5	106.7	84.2	117.6	.....
Mining	38.5	40.1	40.1	40.2	39.3	39.6	41.1	.....
Construction	212.8	228.0	218.1	219.3	224.7	231.6	236.4	.....
Manufacturing	895.3	928.2	919.0	909.6	925.8	922.5	954.8	.....
Durable goods	501.7	522.6	518.8	507.6	518.0	520.8	543.9	.....
Nondurable goods	393.6	405.6	400.2	401.9	407.7	401.8	411.0	.....
Transportation and public utilities	356.1	376.1	361.4	369.0	370.7	378.4	386.1	.....
Transportation	151.0	161.8	154.4	157.4	158.9	164.4	166.7	.....
Communications	103.7	107.4	106.4	105.4	108.2	108.5	107.3	.....
Electric, gas, and sanitary services	101.5	106.9	100.6	106.2	103.6	105.6	112.1	.....
Wholesale trade	283.6	297.7	297.8	288.2	299.8	297.4	305.2	.....
Retail trade	416.7	444.9	428.7	432.2	441.1	449.1	457.3	.....
Finance, insurance, and real estate	748.9	816.0	768.3	801.2	805.9	818.2	838.8	.....
Services	1,085.8	1,171.0	1,124.4	1,141.1	1,158.9	1,180.7	1,203.4	.....
Government	734.5	765.3	743.8	757.4	761.3	769.2	773.5	784.2
Rest of the world	7.3	.2	-2.5	.4	-5	6.4	-5.6	-2.9

Table 6.16C.—Corporate Profits by Industry

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Corporate profits with inventory valuation and capital consumption adjustments	407.2	466.6	439.5	432.1	458.1	468.5	507.9	474.4
Domestic industries	344.9	407.9	384.8	373.0	400.0	405.8	452.8	420.9
Financial	66.7	87.4	70.7	81.0	85.0	87.6	96.1	77.9
Nonfinancial	278.3	320.5	314.1	292.1	315.0	318.2	356.7	343.0
Rest of the world	62.3	58.7	54.7	59.0	58.1	62.7	55.1	53.5
Receipts from the rest of the world	65.2	71.3	60.5	66.7	71.4	74.0	73.2	75.4
Less: Payments to the rest of the world	3.0	12.6	5.8	7.7	13.3	11.3	18.1	21.8
Corporate profits with inventory valuation adjustment	390.1	442.3	414.8	407.0	433.4	444.8	484.0	454.3
Domestic industries	327.8	383.6	360.1	348.0	375.3	382.1	428.9	400.8
Financial	78.1	99.0	82.0	92.3	96.4	99.3	108.1	90.9
Federal Reserve banks	17.8	16.2	16.7	16.6	16.2	16.0	16.2	16.4
Other	60.3	82.8	65.3	75.7	80.2	83.3	91.9	74.4
Nonfinancial	249.8	284.6	278.1	255.7	278.9	282.8	320.8	309.9
Manufacturing	115.5	131.7	128.0	118.9	132.5	126.7	148.9	.....
Durable goods	48.3	60.2	58.0	48.0	58.4	59.9	74.4	.....
Primary metal industries .....	.6	1.4	0	-5	2.5	1.1	2.6	.....
Fabricated metal products	7.4	6.5	6.6	5.5	6.9	6.3	7.6	.....
Industrial machinery and equipment	6.6	7.2	7.8	5.7	6.2	8.8	8.0	.....
Electronic and other electric equipment	12.1	14.6	17.6	14.9	12.1	14.4	17.2	.....
Motor vehicles and equipment	3.5	9.0	4.9	3.1	10.0	8.1	15.0	.....
Other	18.1	21.4	21.0	19.4	20.7	21.3	24.1	.....
Nondurable goods	67.2	71.6	70.0	70.9	74.2	66.8	74.5	.....
Food and kindred products	17.0	15.1	15.2	18.0	14.8	14.6	13.0	.....
Chemicals and allied products	15.7	16.8	17.7	18.4	16.3	14.6	17.9	.....
Petroleum and coal products	6.1	11.9	5.0	7.2	13.5	12.0	14.9	.....
Other	28.5	27.7	32.1	27.3	29.5	25.6	28.6	.....
Transportation and public utilities	52.0	57.8	50.4	53.3	53.9	59.0	64.9	.....
Wholesale and retail trade	46.3	54.4	57.7	46.0	55.4	55.1	61.4	.....
Other	36.0	40.6	42.0	37.5	37.2	42.1	45.8	.....
Rest of the world	62.3	58.7	54.7	59.0	58.1	62.7	55.1	53.5

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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted						
			1992	1993				1994	
				IV	I	II	III		IV	I
Government purchases:									
Current dollars	128.4	131.4	129.8	129.3	131.4	132.1	132.6	133.0	
Quantity indexes:									
Fixed 1987 weights	107.2	106.5	107.4	105.6	106.8	106.8	106.8	105.8	
Chain-type annual weights	107.0	106.4	107.2	105.6	106.6	106.6	106.6	105.9	
Benchmark-years weights	106.9	106.2	107.1	105.4	106.5	106.5	106.5	105.8	
Price indexes:									
Fixed 1987 weights	120.6	124.3	121.7	123.2	124.0	124.8	125.1	126.3	
Chain-type annual weights	120.0	123.5	121.0	122.4	123.2	123.9	124.4	125.6	
Benchmark-years weights	120.2	123.7	121.3	122.6	123.5	124.2	124.6	125.8	
Implicit price deflator	119.7	123.3	120.8	122.4	123.1	123.7	124.1	125.7	
Federal:									
Current dollars	116.6	115.2	117.5	115.0	116.3	115.2	114.3	114.8	
Quantity indexes:									
Fixed 1987 weights	96.9	92.2	97.1	92.9	93.4	91.9	90.7	89.5	
Chain-type annual weights	96.6	92.2	96.8	92.9	93.4	91.9	90.8	90.0	
Benchmark-years weights	96.3	92.0	96.5	92.7	93.2	91.6	90.5	89.8	
Price indexes:									
Fixed 1987 weights	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128.4	
Chain-type annual weights	120.7	124.8	121.5	123.6	124.3	125.4	125.9	127.3	
Benchmark-years weights	121.0	125.3	122.0	124.1	124.8	125.9	126.4	127.8	
Implicit price deflator	120.3	124.9	121.1	123.8	124.5	125.4	126.1	128.2	
National defense:									
Current dollars	107.4	103.9	108.1	104.4	105.3	103.4	102.5	100.2	
Quantity indexes:									
Fixed 1987 weights	89.4	83.0	89.5	84.2	84.4	82.2	81.2	78.1	
Chain-type annual weights	88.6	82.5	88.5	83.8	84.0	81.6	80.8	78.1	
Benchmark-years weights	88.7	82.7	88.6	83.9	84.1	81.8	80.9	78.2	
Price indexes:									
Fixed 1987 weights	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129.4	
Chain-type annual weights	121.2	125.8	122.2	124.4	125.3	126.6	126.9	128.1	
Benchmark-years weights	121.2	125.9	122.2	124.5	125.4	126.6	127.0	128.1	
Implicit price deflator	120.1	125.1	120.8	123.9	124.8	125.7	126.2	128.3	
Nondefense:									
Current dollars	145.4	150.8	147.2	148.4	150.7	152.5	151.5	160.6	
Quantity indexes:									
Fixed 1987 weights	120.4	121.1	121.1	120.1	121.7	122.4	120.4	125.5	
Chain-type annual weights	122.1	123.0	122.9	121.8	123.5	124.4	122.5	128.0	
Benchmark-years weights	120.7	121.6	121.5	120.4	122.0	122.9	121.1	126.5	
Price indexes:									
Fixed 1987 weights	120.2	123.0	120.9	122.5	122.5	123.4	123.6	125.3	
Chain-type annual weights	119.1	122.3	119.7	121.6	121.8	122.5	123.3	125.1	
Benchmark-years weights	120.5	123.8	121.2	123.0	123.3	124.0	124.8	126.7	
Implicit price deflator	120.8	124.5	121.6	123.6	123.9	124.6	125.9	127.9	
State and local:									
Current dollars	137.5	143.9	139.2	140.4	143.2	145.2	146.8	147.2	
Quantity indexes:									
Fixed 1987 weights	115.2	117.6	115.4	115.5	117.1	118.4	119.4	118.5	
Chain-type annual weights	115.0	117.3	115.3	115.4	116.8	118.0	118.9	118.2	
Benchmark-years weights	115.1	117.4	115.3	115.4	116.9	118.1	119.0	118.2	
Price indexes:									
Fixed 1987 weights	119.6	122.8	120.9	121.8	122.7	123.2	123.6	124.7	
Chain-type annual weights	119.6	122.7	120.8	121.7	122.6	123.1	123.5	124.6	
Benchmark-years weights	119.5	122.6	120.7	121.6	122.5	123.0	123.4	124.5	
Implicit price deflator	119.4	122.4	120.6	121.5	122.3	122.7	123.0	124.2	

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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted						
			1992	1993				1994	
				IV	I	II	III		IV	I
Gross domestic product:									
Current dollars	133.0	140.5	136.4	137.9	139.4	140.9	143.8	145.8	
Quantity indexes:									
Fixed 1987 weights	109.8	113.1	111.6	111.9	112.4	113.2	115.1	116.0	
Chain-type annual weights	109.5	112.5	111.3	111.4	111.9	112.5	114.2	115.0	
Benchmark-years weights	109.4	112.3	111.1	111.2	111.7	112.3	114.0	114.8	
Price indexes:									
Fixed 1987 weights	122.1	125.9	123.5	124.8	125.6	126.3	127.0	128.0	
Chain-type annual weights	121.5	125.0	122.6	123.8	124.7	125.3	126.0	127.0	
Benchmark-years weights	121.7	125.2	122.9	124.1	124.9	125.6	126.3	127.3	
Implicit price deflator	121.1	124.2	122.2	123.3	124.0	124.5	124.9	125.7	
Final sales of domestic product¹:									
Current dollars	133.6	141.0	137.0	138.0	139.9	141.5	144.4	146.2	
Quantity indexes:									
Fixed 1987 weights	110.3	113.5	112.1	111.9	112.7	113.7	115.6	116.2	
Chain-type annual weights	109.9	112.8	111.6	111.3	112.2	112.9	114.6	115.2	
Benchmark-years weights	109.9	112.7	111.5	111.2	112.1	112.8	114.5	115.1	
Price indexes:									
Fixed 1987 weights	122.2	126.0	123.6	124.9	125.7	126.4	127.1	128.1	
Chain-type annual weights	121.6	125.0	122.7	123.9	124.7	125.4	126.1	127.1	
Benchmark-years weights	121.7	125.3	122.9	124.2	125.0	125.6	126.4	127.4	
Implicit price deflator	121.1	124.2	122.2	123.3	124.1	124.5	125.0	125.8	
Gross domestic purchases²:									
Current dollars	129.6	137.6	133.1	134.7	136.5	138.1	140.8	143.0	
Quantity indexes:									
Fixed 1987 weights	107.2	111.3	109.1	109.7	110.6	111.6	113.4	114.6	
Chain-type annual weights	106.7	110.2	108.4	108.9	109.6	110.4	112.0	113.1	
Benchmark-years weights	106.7	110.3	108.5	108.9	109.7	110.5	112.1	113.2	
Price indexes:									
Fixed 1987 weights	122.0	125.6	123.4	124.4	125.3	125.9	126.6	127.4	
Chain-type annual weights	121.5	124.9	122.8	123.8	124.6	125.2	125.9	126.7	
Benchmark-years weights	121.5	124.9	122.8	123.8	124.6	125.2	125.9	126.7	
Implicit price deflator	120.9	123.6	122.1	122.8	123.5	123.8	124.2	124.8	
Final sales to domestic purchasers³:									
Current dollars	130.2	138.0	133.6	134.8	137.0	138.7	141.5	143.4	
Quantity indexes:									
Fixed 1987 weights	107.7	111.6	109.5	109.7	110.9	112.1	113.8	114.8	
Chain-type annual weights	107.1	110.5	108.7	108.8	109.9	110.8	112.4	113.3	
Benchmark-years weights	107.2	110.6	108.9	108.9	110.0	111.0	112.5	113.4	
Price indexes:									
Fixed 1987 weights	122.1	125.7	123.4	124.5	125.4	126.0	126.7	127.5	
Chain-type annual weights	121.6	124.9	122.8	123.8	124.7	125.2	126.0	126.8	
Benchmark-years weights	121.5	124.9	122.8	123.8	124.7	125.2	126.0	126.8	
Implicit price deflator	120.9	123.6	122.0	122.8	123.5	123.8	124.3	124.9	

1. Equals GDP less change in business inventories.

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

3. 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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted					
			1992		1993			1994
			IV	I	II	III	IV		I
Gross national product:								
Current dollars	133.0	140.3	136.3	137.8	139.2	140.9	143.5	145.6
Quantity indexes:								
Fixed 1987 weights	109.9	113.1	111.5	111.8	112.3	113.2	114.9	115.8
Chain-type annual weights	109.6	112.4	111.2	111.3	111.8	112.5	114.0	114.9
Benchmark-years weights	109.5	112.3	111.0	111.2	111.7	112.4	113.9	114.7
Price indexes:								
Fixed 1987 weights	122.1	125.9	123.4	124.7	125.6	126.2	126.9	127.9
Chain-type annual weights	121.4	124.9	122.5	123.8	124.6	125.2	126.0	127.0
Benchmark-years weights	121.6	125.2	122.8	124.0	124.9	125.5	126.3	127.2
Implicit price deflator	121.1	124.1	122.2	123.3	124.0	124.4	124.8	125.6
Less: Exports of goods and services and receipts of factor income:								
Current dollars	164.1	169.2	165.7	165.0	168.8	168.1	174.8	175.9
Quantity index, fixed 1987 weights ...	145.7	149.9	147.2	146.3	148.9	149.0	155.3	155.9
Plus: Command-basis exports of goods and services and receipts of factor income:								
Current dollars	176.0	181.8	179.9	178.9	181.3	179.5	187.5	187.3
Quantity index, fixed 1987 weights ...	147.0	153.4	147.6	149.3	151.9	153.1	159.2	161.2
Equals: Command-basis gross national product:								
Current dollars	133.0	140.3	136.3	137.8	139.2	140.9	143.5	145.6
Quantity index, fixed 1987 weights ...	110.0	113.4	111.6	112.1	112.6	113.7	115.3	116.4

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]

	1992	1993	1994	1995	1996	1997	1998	1999
Personal consumption expenditures	124.9	128.7	126.5	127.5	128.4	128.9	129.8	130.5
Durable goods	111.5	113.8	112.1	112.6	113.5	114.1	114.9	115.4
Motor vehicles and parts	112.2	115.8	113.3	113.9	115.3	116.6	117.5	117.9
Furniture and household equipment ..	104.0	104.3	104.2	103.9	104.2	104.3	105.0	105.3
Other	124.2	126.8	124.3	126.1	127.2	126.8	127.1	128.3
Nondurable goods	123.0	124.9	123.8	124.9	125.0	124.5	125.1	125.2
Food	122.0	124.3	122.7	123.5	124.2	124.3	125.3	125.7
Clothing and shoes	117.9	119.1	118.2	119.8	119.0	118.9	118.8	118.6
Gasoline and oil	123.3	122.2	124.7	126.3	123.1	118.8	120.4	119.8
Fuel oil and coal	116.5	116.1	117.3	116.2	117.4	116.5	114.3	115.9
Other	128.8	131.6	130.3	131.4	132.2	131.5	131.4	131.3
Services	129.5	134.7	131.6	132.8	134.2	135.2	136.3	137.4
Housing	124.1	127.8	125.4	126.5	127.6	128.1	129.0	130.3
Household operation	112.5	115.6	113.9	113.5	115.3	116.4	117.1	117.4
Electricity and gas	111.0	114.6	112.7	112.2	114.2	115.8	116.0	115.5
Other household operation	113.8	116.4	114.9	114.6	116.2	116.9	118.0	119.2
Transportation	128.3	135.5	131.9	134.4	134.9	136.0	136.7	138.5
Medical care	140.9	148.5	144.0	145.9	147.9	149.3	150.7	152.1
Other	132.2	137.2	134.4	135.4	136.6	137.6	139.1	139.9
Addenda:								
Price indexes for personal consumption expenditures:								
Chain-type annual weights	124.4	128.0	125.8	126.8	127.7	128.2	129.1	129.8
Benchmark-years weights	124.5	128.1	125.9	127.0	127.9	128.3	129.2	129.9

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]

	1992	1993	Seasonally adjusted					
			1992		1993			1994
			IV	I	II	III	IV		I
Fixed investment	112.0	114.7	112.8	113.5	114.4	115.2	115.7	116.6
Nonresidential	111.4	113.3	112.0	112.4	113.1	113.6	114.0	114.6
Structures	114.6	117.8	115.6	116.3	117.4	118.4	119.3	120.2
Nonresidential buildings, including								
farm	113.7	117.2	114.8	115.6	116.5	117.8	118.8	119.7
Utilities	115.6	119.3	116.4	117.3	119.4	119.8	120.8	122.1
Mining exploration, shafts, and wells	123.5	123.3	123.1	122.9	123.6	123.3	123.3	124.6
Other structures	110.7	113.6	112.6	112.3	113.7	113.6	114.7	115.1
Producers' durable equipment	109.7	110.9	110.1	110.4	110.9	111.2	111.2	111.7
Information processing and related equipment	93.1	92.3	92.8	92.7	92.3	92.1	91.9	91.8
Computers and peripheral equipment ¹	59.6	53.0	57.0	55.7	53.6	52.2	50.5	49.8
Other	107.9	109.6	108.5	109.0	109.5	109.7	110.2	110.5
Industrial equipment	120.2	122.5	120.9	121.1	122.3	123.2	123.4	123.4
Transportation and related equipment	116.8	119.2	117.3	118.4	119.1	119.6	119.6	121.4
Other	117.1	119.1	118.0	118.2	119.1	119.4	119.6	120.1
Residential	113.4	117.7	114.8	115.8	117.2	118.5	119.5	120.9
Structures	113.6	118.1	115.0	116.1	117.5	118.8	119.8	121.2
Single family	113.4	118.3	115.2	116.2	117.3	119.2	120.4	121.4
Multifamily	111.3	115.6	112.5	113.5	114.6	116.4	117.6	118.5
Other structures	114.7	118.6	115.7	116.7	118.7	119.1	119.7	121.9
Producers' durable equipment	104.9	105.5	104.9	104.5	105.4	105.9	106.3	106.8
Addenda:								
Price indexes for fixed investment:								
Chain-type annual weights	111.0	112.9	111.5	112.0	112.7	113.3	113.7	114.5
Benchmark-years weights	110.3	112.3	110.9	111.4	112.1	112.7	113.1	113.9

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

[Index numbers, 1987=100]

	1992	1993	1994	1995	1996	1997	1998	1999
Exports of goods and services	113.7	115.4	114.3	114.7	115.5	115.7	115.9	117.0
Merchandise ¹	109.6	110.4	109.7	110.0	110.5	110.5	110.7	111.9
Durable	109.3	110.7	109.8	110.3	111.1	110.8	110.8	111.4
Nondurable	110.2	109.8	109.5	109.4	109.3	110.0	110.4	112.9
Services ¹	123.7	127.6	125.5	126.2	127.7	128.2	128.5	129.3
Receipts of factor income ²	122.5	125.7	123.7	124.9	125.6	126.1	126.5	127.4
Imports of goods and services	115.1	115.0	115.9	114.5	115.6	114.8	115.1	114.6
Merchandise ¹	112.1	112.0	113.1	111.6	112.7	111.8	111.9	111.3
Durable	112.8	114.3	113.5	113.3	114.1	114.3	115.4	115.8
Nondurable	110.7	108.0	112.4	108.6	110.3	107.3	105.7	103.4
Services ¹	128.9	128.4	128.3	127.5	128.2	128.3	129.6	129.4
Payments of factor income ³	125.0	129.1	126.6	127.9	128.9	129.6	130.1	131.0
Addenda:								
Price indexes for exports of goods and services:								
Chain-type annual weights	112.9	113.9	113.2	113.4	114.1	114.1	114.2	115.1
Benchmark-years weights	112.3	113.4	112.6	112.9	113.5	113.5	113.6	114.5
Price indexes for imports of goods and services:								
Chain-type annual weights	113.4	112.8	114.1	112.5	113.4	112.5	112.6	112.0
Benchmark-years weights	112.3	111.7	113.0	111.5	112.4	111.5	111.5	110.9

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

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.

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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted					
			1992	1993				1994
				IV	I	II	III	
Exports of merchandise	109.6	110.4	109.7	110.0	110.5	110.5	110.7	111.9
Foods, feeds, and beverages	114.5	116.1	111.7	113.1	113.1	118.2	120.1	125.9
Industrial supplies and materials	108.3	109.2	108.8	109.1	110.4	109.1	108.3	110.5
Durable goods	116.5	125.2	118.7	122.3	127.5	126.2	124.9	127.8
Nondurable goods	104.6	101.9	104.4	103.1	102.6	101.3	100.8	102.6
Capital goods, except automotive	105.8	105.9	105.8	105.8	106.0	105.7	106.0	106.1
Civilian aircraft, engines, and parts ...	122.1	125.6	123.5	124.6	125.4	125.1	126.8	127.2
Computers, peripherals, and parts	58.9	52.1	56.3	54.9	52.7	51.2	49.7	48.9
Other	116.5	117.9	117.0	117.1	117.9	118.1	118.6	118.8
Automotive vehicles, engines, and parts	112.3	113.2	113.0	113.3	113.3	113.1	113.3	113.9
Consumer goods, except automotive	118.0	119.8	118.8	119.6	119.7	119.7	120.1	120.5
Durable goods	114.5	115.0	115.0	115.4	114.9	114.8	114.8	115.4
Nondurable goods	120.9	124.0	122.1	123.3	123.9	124.1	124.8	124.9
Other	113.0	113.9	113.4	113.4	114.1	113.8	114.1	114.7
Durable goods	113.0	113.9	113.4	113.4	114.1	113.8	114.1	114.7
Nondurable goods	113.0	113.9	113.4	113.4	114.1	113.8	114.1	114.7
Imports of merchandise	112.1	112.0	113.1	111.6	112.7	111.8	111.9	111.3
Foods, feeds, and beverages	108.1	107.9	107.2	105.7	106.6	108.8	110.7	110.9
Industrial supplies and materials, except petroleum and products	114.2	114.3	114.4	114.8	115.0	113.4	114.0	115.1
Durable goods	115.3	117.0	114.7	117.6	117.4	115.5	117.3	119.3
Nondurable goods	113.1	111.5	114.0	111.9	112.4	111.1	110.4	110.7
Petroleum and products	100.8	91.4	104.0	95.5	99.1	88.5	81.6	73.7
Capital goods, except automotive	107.3	108.0	108.0	106.9	107.7	108.6	109.0	108.7
Civilian aircraft, engines, and parts ...	122.2	125.6	123.5	124.6	125.4	125.2	126.9	127.2
Computers, peripherals, and parts	61.4	55.6	59.0	57.8	56.3	55.0	53.4	52.4
Other	116.5	118.4	117.8	116.5	117.8	119.3	120.1	119.8
Automotive vehicles, engines, and parts	114.8	116.9	115.9	115.1	116.5	117.0	118.9	119.6
Consumer goods, except automotive	118.3	119.4	119.8	118.8	119.7	119.5	119.7	119.6
Durable goods	116.9	118.4	117.9	117.9	118.7	118.4	118.6	118.9
Nondurable goods	120.1	120.7	122.3	119.8	120.9	120.8	121.1	120.6
Other	114.7	116.0	115.8	114.8	115.8	116.0	117.3	117.3
Durable goods	114.7	115.9	115.8	114.8	115.8	116.0	117.3	117.2
Nondurable goods	114.7	115.9	115.8	114.8	115.8	116.0	117.3	117.2
Addenda:								
Exports of agricultural products ¹	111.5	113.3	109.8	111.1	110.5	115.0	116.6	122.6
Exports of nonagricultural products ...	109.4	110.0	109.7	109.8	110.5	109.9	109.9	110.6
Imports of nonpetroleum products	113.4	114.3	114.2	113.4	114.3	114.4	115.3	115.6

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, 1987=100]

	1992	1993	Seasonally adjusted					
			1992	1993				1994
				IV	I	II	III		IV	I
Government purchases	120.6	124.3	121.7	123.2	124.0	124.8	125.1	126.3
Federal	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128.4
National defense	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129.4
Durable goods	113.7	117.6	115.3	117.1	117.9	117.9	117.6	117.5
Nondurable goods	115.6	113.1	117.8	113.0	115.9	112.6	110.8	106.4
Services	127.1	132.9	128.0	131.2	132.1	134.0	134.4	136.9
Compensation of employees	134.6	143.1	135.1	140.6	141.7	144.7	145.4	148.5
Military	136.6	143.8	136.6	142.3	143.3	143.9	145.7	148.0
Civilian	130.6	141.7	132.0	137.1	138.3	146.5	144.9	149.5
Other services	116.4	118.5	117.8	117.8	118.5	118.8	118.8	120.3
Structures	114.0	117.7	116.2	117.2	117.4	117.3	118.8	120.0
Nondefense	120.2	123.0	120.9	122.5	122.5	123.4	123.6	125.3
Durable goods	101.2	93.1	96.9	94.0	94.0	94.1	90.3	92.3
Nondurable goods .....	.....	.....	.....	.....	.....	.....	.....	.....
Commodity Credit Corporation inventory change .....	.....	.....	.....	.....	.....	.....	.....	.....
Other nondurables	107.9	105.9	106.0	106.0	106.3	106.0	105.2	106.6
Services	124.5	129.0	125.5	128.0	128.3	129.3	130.4	132.6
Compensation of employees	129.3	136.4	130.6	135.2	135.7	136.4	138.2	141.3
Other services	117.9	118.7	118.4	118.1	118.1	119.3	119.5	120.6
Structures	113.7	116.5	114.8	115.1	116.2	116.8	117.7	118.3
State and local	119.6	122.8	120.9	121.8	122.7	123.2	123.6	124.7
Durable goods	113.2	115.3	113.6	114.5	115.4	115.8	115.6	116.6
Nondurable goods	115.4	116.0	114.9	116.2	117.9	115.6	114.2	115.6
Services	122.6	126.1	124.0	125.0	125.7	126.6	127.2	128.3
Compensation of employees	127.5	132.1	129.2	130.6	131.6	132.7	133.5	134.7
Other services	69.3	60.5	67.0	63.9	60.3	60.1	57.8	57.5
Structures	109.5	113.1	111.6	111.5	113.0	113.3	114.4	115.1
Addenda:								
Price indexes for government purchases:								
Chain-type annual weights	120.0	123.5	121.0	122.4	123.2	123.9	124.4	125.6
Benchmark-years weights	120.2	123.7	121.3	122.6	123.5	124.2	124.6	125.8
Price indexes for Federal national defense purchases:								
Chain-type annual weights	121.2	125.8	122.2	124.4	125.3	126.6	126.9	128.1
Benchmark-years weights	121.2	125.9	122.2	124.5	125.4	126.6	127.0	128.1
Price indexes for Federal nondefense purchases:								
Chain-type annual weights	119.1	122.3	119.7	121.6	121.8	122.5	123.3	125.1
Benchmark-years weights	120.5	123.8	121.2	123.0	123.3	124.0	124.8	126.7
Price indexes for State and local purchases:								
Chain-type annual weights	119.6	122.7	120.8	121.7	122.6	123.1	123.5	124.6
Benchmark-years weights	119.5	122.6	120.7	121.6	122.5	123.0	123.4	124.5

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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted					
			1992	1993				1994
				IV	I	II	III	
National defense purchases ...	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129.4
Durable goods	113.7	117.6	115.3	117.1	117.9	117.9	117.6	117.5
Military equipment	114.4	118.8	116.2	118.2	119.1	119.0	118.8	118.6
Aircraft	118.4	125.7	121.8	124.8	125.3	127.0	125.8	127.3
Missiles	98.6	98.3	97.4	99.1	99.9	96.8	97.5	90.5
Ships	118.4	121.7	119.2	120.7	121.4	122.7	122.1	123.3
Vehicles	120.9	128.0	124.1	126.0	130.8	126.9	128.3	129.4
Electronic equipment	109.2	109.8	109.6	109.7	109.6	109.6	110.0	110.4
Other	116.6	118.2	117.9	118.2	118.2	117.9	118.3	118.6
Other durable goods	106.5	106.1	106.3	106.3	106.2	105.8	106.0	106.3
Nondurable goods	115.6	113.1	117.8	113.0	115.9	112.6	110.8	106.4
Petroleum products	119.7	112.5	124.2	111.1	119.7	110.8	108.3	94.0
Ammunition	108.5	111.4	111.5	111.3	111.1	112.6	110.5	111.8
Other nondurable goods	117.9	115.3	116.8	116.7	116.2	114.3	113.8	114.6
Services	127.1	132.9	128.0	131.2	132.1	134.0	134.4	136.9
Compensation of employees	134.6	143.1	135.1	140.6	141.7	144.7	145.4	148.5
Military	136.6	143.8	136.6	142.3	143.3	143.9	145.7	148.0
Civilian	130.6	141.7	132.0	137.1	138.3	146.5	144.9	149.5
Other services	116.4	118.5	117.8	117.8	118.5	118.8	118.8	120.3
Contractual research and development	111.9	113.1	113.5	113.8	113.6	113.2	111.7	113.8
Installation support ¹	113.5	115.7	114.5	113.8	115.4	116.8	116.9	117.3
Weapons support ²	120.5	124.4	122.1	123.1	124.0	124.4	126.1	127.6
Personnel support ³	134.7	136.0	136.8	134.9	136.4	136.0	136.9	139.6
Transportation of material	104.6	105.2	104.5	104.9	104.8	105.8	105.3	105.3
Travel of persons	110.6	116.4	111.3	115.6	115.6	116.2	118.2	119.6
Other								
Structures	114.0	117.7	116.2	117.2	117.4	117.3	118.8	120.0
Military facilities	106.1	108.3	107.5	108.1	108.0	107.7	109.4	110.7
Other	128.6	135.0	132.2	133.9	134.8	135.0	136.0	136.9
Addenda:								
Price indexes for national defense purchases:								
Chain-type annual weights	121.2	125.8	122.2	124.4	125.3	126.6	126.9	128.1
Benchmark-years weights	121.2	125.9	122.2	124.5	125.4	126.6	127.0	128.1

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

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	122.2	123.3	124.0	124.5	124.9	125.7
Plus: Receipts of factor income from the rest of the world ¹	122.5	125.8	123.7	124.9	125.6	126.1	126.5	127.4
Less: Payments of factor income to the rest of the world ²	124.8	128.7	126.3	127.7	128.4	129.2	129.4	130.3
Equals: Gross national product	121.1	124.1	122.2	123.3	124.0	124.4	124.8	125.6
Less: Consumption of fixed capital	110.6	112.2	111.0	111.5	111.9	112.5	112.7	113.4
Equals: Net national product	122.5	125.7	123.6	124.8	125.5	126.0	126.4	127.4
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises	131.3	132.1	131.0	127.7	132.1	135.1	133.3	133.9
Statistical discrepancy	119.8	122.6	120.9	121.8	122.5	122.9	123.2	123.9
Equals: National income	121.6	125.1	122.9	124.5	124.9	125.1	125.7	126.7
Addenda:								
Net domestic product	122.5	125.8	123.7	124.9	125.6	126.1	126.5	127.4
Domestic income	121.7	125.1	123.0	124.6	125.0	125.2	125.8	126.8

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

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

[Index numbers, 1987=100]

	1992	1993	Seasonally adjusted					
			1992	1993				1994
				IV	I	II	III		IV	I
Gross domestic product	121.1	124.2	122.2	123.3	124.0	124.5	124.9	125.7
Business	119.8	122.6	120.9	121.8	122.5	122.9	123.2	123.9
Nonfarm	120.1	122.8	121.2	122.1	122.8	123.1	123.3	123.9
Nonfarm less housing	119.5	122.4	120.8	121.6	122.3	122.7	122.8	123.1
Housing	125.5	127.3	124.5	126.9	126.8	127.4	128.1	131.9
Farm	106.1	110.7	104.9	107.1	109.3	108.3	117.8	123.3
Statistical discrepancy	119.8	122.6	120.9	121.8	122.5	122.9	123.2	123.9
Households and institutions	127.7	131.9	129.8	131.3	131.3	131.9	133.2	134.6
Private households	115.7	119.4	117.4	117.9	118.7	120.0	121.1	121.7
Nonprofit institutions	128.2	132.5	130.4	131.9	131.9	132.4	133.8	135.2
General government	129.0	134.4	130.3	132.8	133.8	135.1	136.0	137.8
Federal	132.8	140.6	133.5	138.6	139.5	141.8	142.8	145.9
State and local	127.4	131.9	129.0	130.4	131.4	132.5	133.3	134.6
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 product¹ ..	1.149	1.164	1.154	1.162	1.164	1.164	1.165	1.172
Consumption of fixed capital .....	.125	.123	.122	.124	.123	.124	.122	.126
Net domestic product	1.024	1.040	1.032	1.037	1.041	1.039	1.044	1.045
Indirect business tax and nontax liability plus business transfer payments less subsidies .....	.116	.118	.116	.116	.118	.118	.118	.119
Domestic income .....	.908	.923	.916	.921	.923	.922	.925	.926
Compensation of employees .....	.762	.768	.761	.772	.770	.769	.762	.769
Corporate profits with inventory valuation and capital consumption adjustments .....	.099	.109	.109	.102	.108	.108	.118	.113
Profits tax liability .....	.035	.040	.037	.037	.040	.038	.044	.043
Profits after tax with inventory valuation and capital consumption adjustments .....	.064	.069	.072	.065	.068	.070	.075	.070
Net interest .....	.048	.046	.046	.047	.046	.045	.044	.044

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

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

[Percent]

	1992	1993	Seasonally adjusted at annual rates						
			1992		1993				1994
			IV	I	II	III	IV	I	
Nondefense:									
Current dollars	9.4	3.8	1.8	3.6	6.2	4.9	-2.8	26.1	
Quantity indexes:									
Fixed 1987 weights	6.2	.6	-4	-3.2	5.5	2.5	-6.5	18.3	
Chain-type annual weights	6.2	.8	-1	-3.5	5.5	2.9	-5.9	19.1	
Benchmark-years weights	6.2	.8	-1	-3.5	5.5	2.9	-5.9	19.1	
Price indexes:									
Fixed 1987 weights	3.1	2.4	1.9	5.7	0	2.9	.6	5.5	
Chain-type annual weights	3.1	2.7	1.9	6.3	.8	2.3	2.6	6.1	
Benchmark-years weights	3.1	2.7	1.9	6.3	.8	2.3	2.6	6.1	
State and local:									
Current dollars	4.5	4.6	3.1	3.3	8.3	5.8	4.5	.9	
Quantity indexes:									
Fixed 1987 weights	2.2	2.1	0	.3	5.6	4.5	3.3	-2.9	
Chain-type annual weights	2.1	2.0	.1	.4	5.2	4.2	3.1	-2.5	
Benchmark-years weights	2.1	2.0	.1	.4	5.2	4.2	3.1	-2.5	
Price indexes:									
Fixed 1987 weights	2.5	2.6	2.9	3.0	2.9	1.8	1.5	3.5	
Chain-type annual weights	2.4	2.6	2.9	2.9	3.0	1.6	1.4	3.5	
Benchmark-years weights	2.4	2.6	2.9	2.9	3.0	1.6	1.4	3.5	
Addenda:									
Final sales of domestic product:									
Current dollars	5.2	5.5	9.1	2.9	5.7	4.8	8.5	4.9	
Quantity indexes:									
Fixed 1987 weights	2.3	2.8	5.8	-8	3.2	3.4	6.8	2.2	
Chain-type annual weights	2.0	2.6	5.6	-1.1	3.0	2.7	6.1	2.0	
Benchmark-years weights	2.1	2.5	5.5	-1.1	3.0	2.7	6.1	2.0	
Price indexes:									
Fixed 1987 weights	3.3	3.1	3.2	4.3	2.8	2.1	2.3	3.2	
Chain-type annual weights	3.1	2.9	2.7	4.1	2.7	2.1	2.4	3.1	
Benchmark-years weights	3.2	3.0	2.8	4.1	2.7	2.1	2.4	3.1	
Gross domestic purchases:									
Current dollars	5.7	6.2	9.1	5.0	5.4	4.8	8.1	6.3	
Quantity indexes:									
Fixed 1987 weights	2.9	3.8	5.4	2.5	3.1	3.7	6.7	4.2	
Chain-type annual weights	2.5	3.3	5.1	1.7	2.7	3.0	6.0	3.9	
Benchmark-years weights	2.7	3.3	5.1	1.7	2.7	3.0	6.0	3.9	
Price indexes:									
Fixed 1987 weights	3.3	2.9	2.8	3.5	2.9	1.8	2.3	2.6	
Chain-type annual weights	3.1	2.8	2.7	3.4	2.8	1.7	2.4	2.6	
Benchmark-years weights	3.2	2.8	2.7	3.4	2.8	1.7	2.4	2.6	
Final sales to domestic purchasers:									
Current dollars	5.4	6.0	9.0	3.5	6.8	5.2	8.2	5.5	
Quantity indexes:									
Fixed 1987 weights	2.5	3.7	5.5	.8	4.4	4.2	6.6	3.4	
Chain-type annual weights	2.2	3.2	5.2	.3	4.0	3.5	5.8	3.1	
Benchmark-years weights	2.4	3.2	5.2	.3	4.0	3.5	5.8	3.1	
Price indexes:									
Fixed 1987 weights	3.3	2.9	2.8	3.5	2.9	1.8	2.3	2.6	
Chain-type annual weights	3.1	2.8	2.7	3.3	2.8	1.7	2.4	2.6	
Benchmark-years weights	3.2	2.8	2.7	3.3	2.8	1.7	2.4	2.6	
Gross national product:									
Current dollars	5.4	5.5	8.5	4.6	4.2	4.8	7.6	5.9	
Quantity indexes:									
Fixed 1987 weights	2.5	2.9	5.0	1.0	1.9	3.3	6.2	3.2	
Chain-type annual weights	2.2	2.6	4.9	.6	1.7	2.7	5.4	2.9	
Benchmark-years weights	2.3	2.6	4.8	.6	1.7	2.7	5.4	2.9	
Price indexes:									
Fixed 1987 weights	3.3	3.1	3.1	4.3	2.8	2.1	2.3	3.1	
Chain-type annual weights	3.1	2.9	2.7	4.1	2.7	2.1	2.4	3.1	
Benchmark-years weights	3.2	2.9	2.8	4.1	2.7	2.1	2.4	3.1	
Command-basis gross national product:									
Quantity index, fixed 1987 weights ...	2.5	3.1	4.7	1.9	1.9	3.7	6.1	3.7	
Disposable personal income:									
Current dollars	6.4	4.6	15.1	-5.1	8.5	2.7	7.8	4.0	
1987 dollars	2.9	1.9	10.6	-7.8	5.8	1.6	5.4	2.6	

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

[Dollars]

	1992	1993	Seasonally adjusted at annual rates						
			1992		1993				1994
			IV	I	II	III	IV	I	
Current dollars:									
Gross domestic product	23,637	24,696	24,143	24,346	24,538	24,732	25,166	25,457	
Gross national product	23,665	24,697	24,134	24,347	24,536	24,756	25,145	25,446	
Personal income	20,139	20,864	20,767	20,430	20,837	20,930	21,257	21,453	
Disposable personal income	17,615	18,225	18,153	17,876	18,196	18,265	18,561	18,699	
Personal consumption expenditures ...	16,205	17,006	16,589	16,704	16,907	17,088	17,321	17,534	
Durable goods	1,947	2,083	2,013	2,004	2,062	2,095	2,170	2,223	
Nondurable goods	5,092	5,227	5,190	5,192	5,215	5,229	5,273	5,317	
Services	9,166	9,695	9,385	9,508	9,631	9,763	9,878	9,994	
Constant (1987) dollars:									
Gross domestic product	19,518	19,888	19,754	19,744	19,786	19,869	20,150	20,250	
Gross national product	19,548	19,897	19,755	19,754	19,793	19,898	20,143	20,251	
Disposable personal income	14,219	14,330	14,490	14,163	14,326	14,341	14,491	14,549	
Personal consumption expenditures ...	13,081	13,372	13,241	13,234	13,312	13,416	13,523	13,642	
Durable goods	1,787	1,897	1,845	1,835	1,878	1,907	1,970	2,014	
Nondurable goods	4,161	4,213	4,216	4,184	4,200	4,226	4,242	4,276	
Services	7,133	7,261	7,179	7,216	7,234	7,283	7,310	7,353	
Population (mid-period, thousands)	255,472	258,254	256,569	257,197	257,872	258,612	259,334	259,951	

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 8.3.—Auto Output

[Billions of dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Auto output	133.2	142.5	136.4	142.8	145.9	134.6	146.7	164.7
Final sales	133.5	137.6	137.2	131.4	140.8	137.0	141.2	160.7
Personal consumption expenditures ..	126.7	134.3	130.9	127.7	133.6	135.4	140.7	151.6
Producers' durable equipment	7.8	3.3	6.3	3.7	7.2	1.6	0.5	9.1
New autos	87.3	91.3	90.3	86.8	90.3	90.2	98.1	100.9
Net purchases of used autos	39.5	43.0	40.6	40.9	43.3	45.2	42.6	50.7
Producers' durable equipment	37.6	39.1	37.1	36.9	42.2	38.9	38.2	41.4
New autos	62.2	67.0	62.7	61.8	72.6	67.4	66.4	73.4
Net purchases of used autos	-24.6	-28.0	-25.6	-24.9	-30.4	-28.5	-28.2	-32.0
Net exports	-32.8	-37.7	-32.6	-35.3	-37.0	-39.3	-39.2	-34.3
Exports	14.3	14.5	15.9	14.5	14.9	13.2	15.4	16.8
Imports	47.0	52.2	48.4	49.8	51.8	52.5	54.7	51.0
Government purchases	2.0	1.9	1.8	2.1	2.0	2.0	1.5	2.0
Change in business inventories of new and used autos	-3	4.9	-8	11.4	5.0	-2.4	5.5	4.0
New .....	.3	3.4	-7	12.0	1.6	-3.4	3.5	6.0
Used	-6	1.4	-1	-7	3.5	1.0	2.0	-2.0
Addenda:								
Domestic output of new autos ¹	104.1	110.7	108.0	114.6	111.9	99.3	117.2	131.7
Sales of imported new autos ²	60.1	64.1	60.5	59.6	65.5	69.6	61.8	65.0

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 8.4.—Auto Output in Constant Dollars

[Billions of 1987 dollars]

	1992	1993	Seasonally adjusted at annual rates					
			1992		1993			1994
			IV	I	II	III	IV	I
Auto output	117.4	121.1	120.1	122.5	123.4	113.5	125.0	136.4
Final sales	117.8	117.7	119.6	114.0	121.2	116.3	119.2	135.6
Personal consumption expenditures ..	113.9	115.5	115.8	112.2	115.5	115.4	118.8	127.8
Producers' durable equipment	3.9	2.2	3.8	2.8	5.7	0.9	0.4	7.8
New autos	77.9	79.5	79.9	76.5	78.9	78.2	84.4	86.3
Net purchases of used autos	36.0	36.0	35.9	35.7	36.6	37.2	34.4	41.6
Producers' durable equipment	32.8	34.7	32.7	32.6	37.5	34.6	34.0	36.1
New autos	55.5	58.4	55.5	54.5	63.5	58.5	57.1	62.8
Net purchases of used autos	-22.7	-23.7	-22.8	-21.9	-26.0	-23.9	-23.2	-26.7
Net exports	-30.5	-34.1	-30.4	-32.6	-33.5	-35.4	-34.9	-29.9
Exports	12.7	12.7	14.1	12.8	13.1	11.6	13.6	14.6
Imports	43.3	46.9	44.5	45.5	46.6	47.0	48.4	44.5
Government purchases	1.7	1.6	1.5	1.8	1.7	1.7	1.2	1.6
Change in business inventories of new and used autos	-4	3.4	.5	8.5	2.2	-2.9	5.8	.8
New .....	.1	2.2	.6	9.1	-7	-3.7	4.2	2.4
Used	-6	1.2	-1	-6	3.0	.8	1.6	-1.6
Addenda:								
Domestic output of new autos ¹	92.8	96.3	96.8	99.9	96.5	85.8	102.9	110.7
Sales of imported new autos ²	53.6	55.8	53.6	52.5	57.3	60.4	53.2	55.6

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]

	1992	1993	1994	1995	1996	1997	1998	1999
Truck output ¹	83.3	101.3	93.7	100.0	97.0	98.0	110.3	127.0
Final sales	82.2	101.8	92.0	92.4	102.0	99.9	113.1	122.7
Personal consumption expenditures ..	43.3	52.3	47.8	49.7	52.0	50.0	57.7	59.4
Producers' durable equipment	37.1	49.2	41.1	45.3	48.2	48.6	54.8	62.7
Net exports	-5.1	-5.4	-4.6	-6.7	-6.4	-4.8	-3.6	-4.1
Exports	5.6	5.8	6.0	5.2	5.7	5.4	6.9	6.6
Imports	10.7	11.2	10.7	11.9	12.1	10.2	10.5	10.7
Government purchases	6.9	5.6	7.7	4.1	8.2	6.0	4.2	4.7
Change in business inventories	1.2	-5	1.7	7.7	-5.0	-1.9	-2.8	4.2

1. Includes new trucks only.

Table 8.6.—Truck Output in Constant Dollars

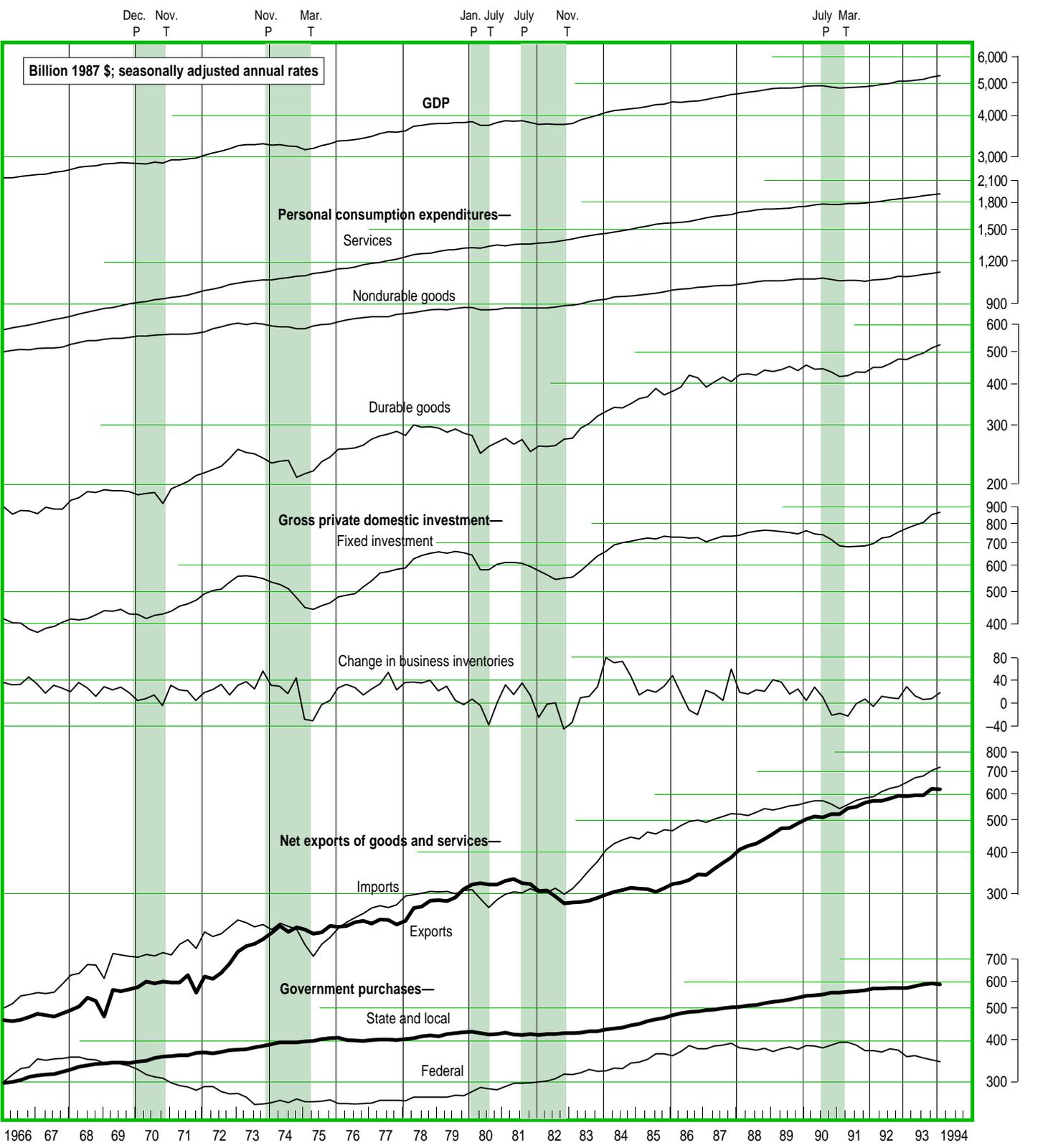
[Billions of 1987 dollars]

	1992	1993	1994	1995	1996	1997	1998	1999
Truck output ¹	71.4	83.5	79.5	83.7	80.2	79.9	90.1	102.3
Final sales	70.4	83.8	78.1	77.3	84.2	81.4	92.3	98.9
Personal consumption expenditures ..	37.1	43.3	40.7	42.0	43.3	40.9	46.9	48.0
Producers' durable equipment	31.8	40.4	34.8	37.6	39.6	39.5	44.8	50.4
Net exports	-4.4	-4.5	-3.9	-5.7	-5.4	-4.0	-2.9	-3.3
Exports	4.8	4.8	5.1	4.4	4.6	4.4	5.7	5.3
Imports	9.1	9.2	9.1	10.1	10.0	8.4	8.6	8.6
Government purchases	5.9	4.6	6.6	3.4	6.7	4.9	3.5	3.7
Change in business inventories	1.0	-4	1.4	6.3	-4.1	-1.5	-2.3	3.4

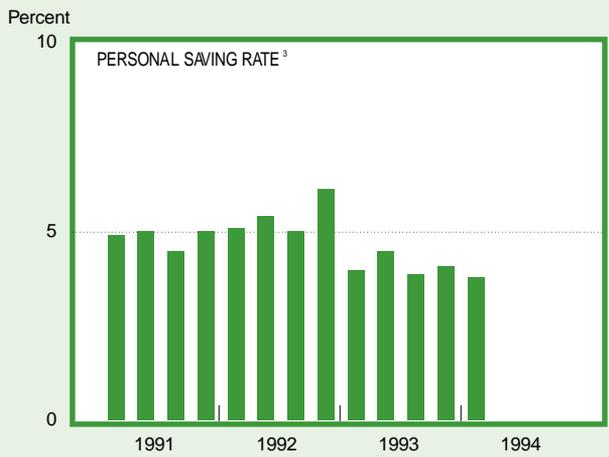
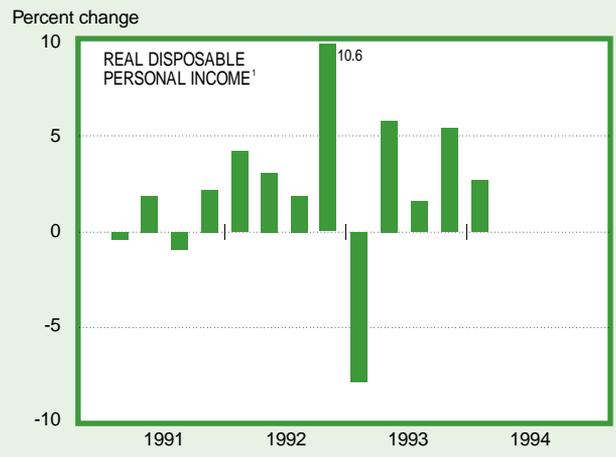
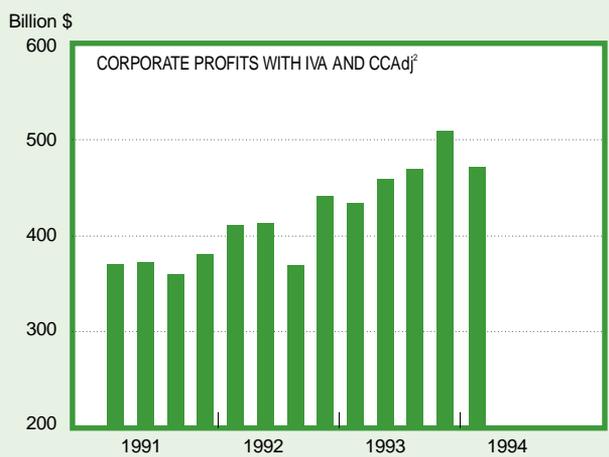
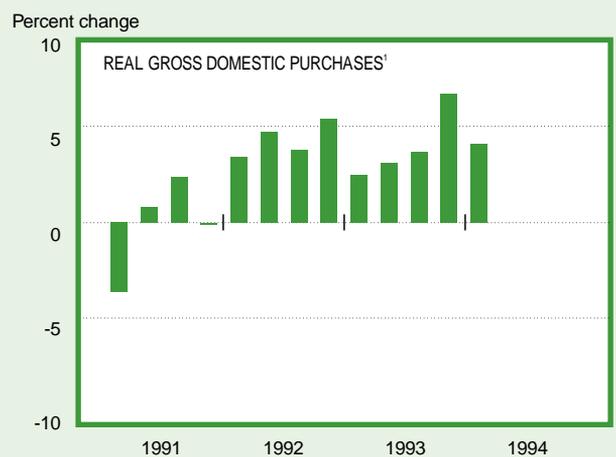
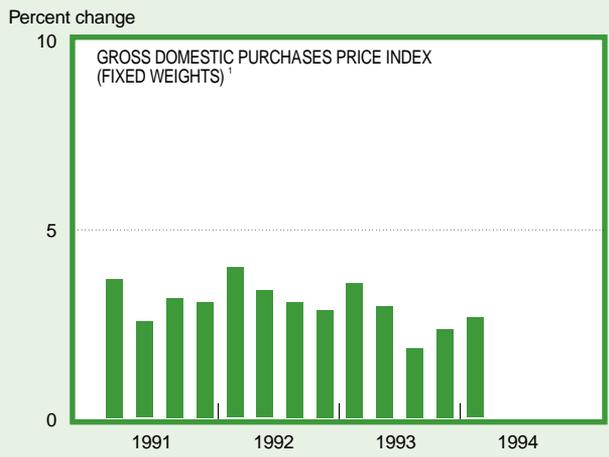
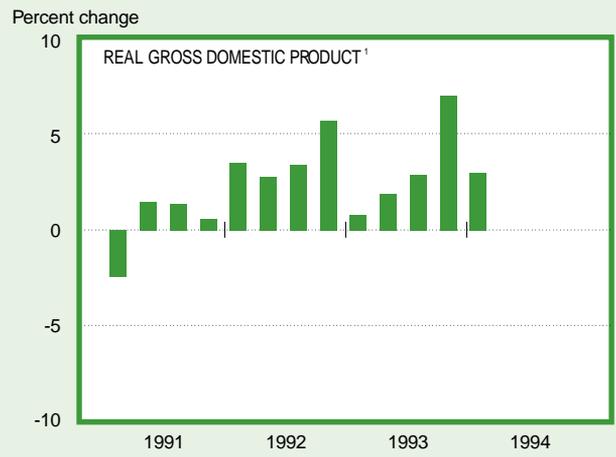
1. Includes new trucks only.

NIPA Charts

REAL GDP AND ITS COMPONENTS: TRENDS AND CYCLES



SELECTED SERIES: RECENT QUARTERS



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

Reconciliation and Other Special Tables

Table 1.—Reconciliation of Changes in BEA-Derived Compensation Per Hour with BLS Average Hourly Earnings

[Percent change from preceding period]

	1991	1992	1993	Seasonally adjusted at annual rates			
				1993			1994
				II	III	IV ^r	I ^p
BEA-derived compensation per hour of all persons in the nonfarm business sector (less housing)	5.1	5.1	3.6	1.7	3.7	2.8	5.5
<i>Less:</i> Contribution of supplements to wages and salaries per hour .....	.5	.4	.3	1.2	.6	.5	.6
<i>Plus:</i> Contribution of wages and salaries per hour of persons in housing and in nonprofit institutions	0	.1	0	-.1	0	.1	-.1
<i>Less:</i> Contribution of wages and salaries per hour of persons in government enterprises, unpaid family workers, and self-employed .....	.2	0	0	0	-.2	-.1	.4
Equals: BEA-derived wages and salaries per hour of all employees in the private nonfarm sector	4.3	4.8	3.3	.4	3.2	2.6	4.4
<i>Less:</i> Contribution of wages and salaries per hour of nonproduction workers in manufacturing	-.1	.1	-.1	-.1	-.2	-.2	-.4
<i>Less:</i> Other differences ¹	1.6	2.3	1.1	-1.4	1.7	-5	1.3
Equals: BLS average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls	2.8	2.4	2.4	1.9	1.7	3.2	3.5
Addendum:							
BLS estimates of compensation per hour in the nonfarm business sector ²	5.0	5.1	3.6	1.9	3.7	2.9	5.6

^r Revised.

^p Preliminary.

1. Includes BEA use of non-BLS data and differences in detailed weighing. Annual estimates also include differences in BEA and BLS benchmarking procedures; quarterly estimates also include differences in seasonal adjustment procedures.

2. These estimates differ from the BEA-derived estimates (first line) because the BLS estimates include compensation and hours of tenant-occupied housing. BEA estimates for the first quarter of 1994 also include statistical revisions not yet incorporated in the BLS estimates.

NOTE.—The table incorporates revised BLS estimates released in May 1994.
BLS = Bureau of Labor Statistics

Selected Monthly Estimates

Table 1.—Personal Income

[Billions of dollars; monthly estimates seasonally adjusted at annual rates]

	1992	1993	1993										1994			
			Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^r
Personal income	5,144.9	5,388.3	5,289.2	5,365.6	5,380.4	5,373.6	5,365.1	5,432.3	5,440.6	5,478.7	5,511.2	5,548.1	5,500.7	5,599.0	5,630.7	5,655.8
Wage and salary disbursements	2,973.1	3,080.5	2,975.8	3,068.3	3,093.8	3,086.0	3,101.6	3,124.3	3,120.4	3,137.7	3,147.1	3,164.0	3,192.3	3,199.4	3,213.9	3,225.7
Private industries	2,405.6	2,490.8	2,392.9	2,483.8	2,507.3	2,497.9	2,511.3	2,531.8	2,524.9	2,543.3	2,552.0	2,567.2	2,590.6	2,596.1	2,610.0	2,620.5
Commodity-producing industries	756.5	763.6	740.8	765.2	766.7	763.3	766.8	769.4	772.1	774.6	779.4	783.9	785.6	790.5	792.8	794.7
Manufacturing	577.6	577.3	559.6	582.1	580.3	578.4	579.5	581.2	583.7	584.0	587.5	591.8	592.1	597.1	597.6	596.3
Distributive industries	682.0	706.6	683.0	704.9	713.1	709.2	713.2	717.3	712.8	719.0	718.4	722.9	731.4	731.5	737.2	738.7
Service industries	967.0	1,020.6	969.0	1,013.6	1,027.5	1,025.4	1,031.3	1,045.1	1,040.0	1,049.7	1,054.1	1,060.4	1,073.6	1,074.0	1,080.0	1,087.1
Government	567.5	589.7	583.0	584.5	586.4	588.1	590.3	592.6	595.5	594.4	595.1	596.8	601.7	603.3	603.9	605.2
Other labor income	322.7	350.7	341.2	343.9	346.6	349.3	352.0	354.7	357.4	360.1	362.9	365.8	368.8	371.9	375.1	378.4
Proprietors' income with IVA and CCA ^d	414.3	443.2	470.2	449.4	437.9	430.8	403.8	430.5	433.2	449.8	470.4	480.8	464.2	476.9	482.6	485.5
Farm	43.7	46.0	82.0	59.7	45.2	36.0	10.6	31.1	32.7	43.9	60.0	65.3	52.9	59.9	61.0	61.8
Nonfarm	370.6	397.3	388.2	389.7	392.7	394.8	393.1	399.4	400.4	406.0	410.4	415.4	411.3	417.0	421.6	423.7
Rental income of persons with CCA ^d	-8.9	12.6	8.1	14.3	12.0	11.9	7.1	16.1	17.9	16.8	16.4	15.9	-44.2	23.6	28.2	26.4
Personal dividend income	140.4	158.3	157.2	157.5	157.8	158.2	158.6	159.0	159.3	159.4	159.4	159.5	159.7	160.4	162.0	164.4
Personal interest income	694.3	695.2	695.2	694.1	693.1	692.0	693.6	695.7	697.8	697.3	696.7	696.2	697.9	700.1	702.5	705.0
Transfer payments to persons	858.4	912.1	898.3	901.7	904.5	910.2	914.3	919.4	921.8	925.9	927.5	936.0	940.6	945.7	946.5	951.5
Old-age, survivors, disability, and health insurance benefits	413.9	438.4	432.5	434.7	435.1	435.3	438.9	438.4	441.0	444.1	444.3	450.0	455.0	458.4	460.0	462.6
Government unemployment insurance benefits	39.2	34.1	36.0	34.0	32.8	36.4	34.3	36.2	34.7	32.0	31.8	32.9	28.6	27.1	25.1	23.4
Other	405.2	439.6	429.7	433.0	436.7	438.4	441.1	444.7	446.2	449.8	451.4	453.2	456.9	460.2	461.4	465.5
Less: Personal contributions for social insurance	249.3	264.3	256.9	263.5	265.3	264.9	265.9	267.4	267.0	268.3	269.1	270.2	278.5	279.1	280.1	281.0
Addenda:																
Total nonfarm income	5,080.1	5,320.0	5,185.1	5,283.7	5,312.8	5,315.0	5,332.2	5,378.7	5,385.4	5,412.1	5,428.4	5,459.9	5,424.7	5,515.8	5,546.3	5,570.5
Total farm income ¹	64.8	68.3	104.0	81.9	67.6	58.6	33.0	53.6	55.3	66.6	82.8	88.3	76.0	83.1	84.4	85.3

^r Preliminary.

^r Revised.

1. Equals farm proprietors' income, farm wages, farm other labor income, and agricultural net interest.

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

 CCA^d Capital consumption adjustment

IVA Inventory valuation adjustment

Table 2.—The Disposition of Personal Income

[Monthly estimates seasonally adjusted at annual rates]

	1992	1993	1993										1994			
			Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^r
Personal income	5,144.9	5,388.3	5,289.2	5,365.6	5,380.4	5,373.6	5,365.1	5,432.3	5,440.6	5,478.7	5,511.2	5,548.1	5,500.7	5,599.0	5,630.7	5,655.8
Less: Personal tax and nontax payments	644.8	681.6	659.0	677.8	683.1	682.0	685.5	690.7	690.9	694.8	698.7	704.1	712.9	715.6	719.1	754.3
Equals: Disposable personal income	4,500.2	4,706.7	4,630.1	4,687.8	4,697.3	4,691.6	4,679.6	4,741.6	4,749.7	4,783.9	4,812.5	4,844.0	4,787.8	4,883.4	4,911.6	4,901.5
Less: Personal outlays	4,261.5	4,516.8	4,409.8	4,459.4	4,481.9	4,509.4	4,527.6	4,544.0	4,560.4	4,604.7	4,618.7	4,636.9	4,634.5	4,699.1	4,733.9	4,727.6
Personal consumption expenditures	4,139.9	4,391.8	4,286.1	4,335.8	4,358.7	4,385.3	4,403.3	4,419.2	4,434.8	4,477.9	4,490.8	4,507.4	4,503.7	4,568.1	4,602.1	4,595.3
Durable goods	497.3	537.9	506.7	526.0	532.7	535.6	540.0	544.1	541.6	559.4	562.1	566.8	567.8	577.3	588.8	581.1
Nondurable goods	1,300.9	1,350.0	1,327.2	1,342.3	1,344.1	1,348.1	1,349.6	1,350.5	1,357.1	1,366.3	1,366.0	1,370.0	1,359.7	1,387.7	1,398.9	1,395.1
Services	2,341.6	2,503.9	2,452.2	2,466.9	2,481.8	2,501.6	2,513.7	2,524.6	2,536.1	2,552.1	2,562.7	2,570.5	2,576.1	2,603.2	2,614.4	2,619.1
Interest paid by persons	111.1	114.0	112.7	112.7	112.2	113.1	113.5	114.0	114.8	115.6	116.6	118.3	119.2	119.4	120.3	120.7
Personal transfer payments to rest of world	10.4	11.0	11.0	11.0	11.0	11.0	10.8	10.8	10.8	11.2	11.2	11.2	11.6	11.6	11.6	11.6
Equals: Personal savings	238.7	189.9	220.4	228.4	215.4	182.3	152.0	197.7	189.3	179.2	193.9	207.2	153.4	184.2	177.7	173.8
Addenda:																
Disposable personal income:																
Total, billions of 1987 dollars ¹	3,632.5	3,700.9	3,660.4	3,694.2	3,697.7	3,691.2	3,678.5	3,721.3	3,726.3	3,740.2	3,755.5	3,778.1	3,740.7	3,797.2	3,808.3	3,790.6
Per capita:																
Current dollars	17,615	18,225	17,988	18,196	18,216	18,176	18,113	18,335	18,348	18,463	18,557	18,663	18,432	18,786	18,880	18,826
1987 dollars	14,219	14,330	14,220	14,339	14,339	14,301	14,238	14,389	14,395	14,435	14,481	14,556	14,401	14,607	14,639	14,559
Population (thousands)	255,472	258,254	257,403	257,631	257,870	258,115	258,356	258,612	258,969	259,106	259,336	259,556	259,757	259,949	260,146	260,356
Personal consumption expenditures:																
Total, billions of 1987 dollars	3,341.8	3,453.2	3,388.4	3,416.7	3,431.2	3,450.2	3,461.2	3,468.2	3,479.2	3,500.9	3,504.4	3,515.5	3,518.7	3,552.1	3,568.3	3,553.8
Durable goods	456.6	490.0	464.4	479.5	485.2	487.9	491.8	494.9	492.5	506.6	509.9	516.3	515.9	522.9	531.5	524.6
Nondurable goods	1,062.9	1,088.1	1,067.4	1,079.0	1,081.7	1,088.8	1,090.0	1,099.1	1,100.4	1,098.3	1,101.8	1,101.8	1,104.0	1,116.5	1,123.9	1,120.2
Services	1,822.3	1,875.2	1,856.6	1,858.3	1,864.3	1,873.6	1,879.6	1,883.3	1,887.7	1,894.0	1,896.1	1,897.3	1,904.8	1,912.7	1,912.9	1,905.0
Implicit price deflator, 1987=100	123.9	127.2	126.5	126.9	127.0	127.1	127.2	127.4	127.5	127.9	128.1	128.2	128.0	128.6	129.0	129.3
Personal saving as percentage of disposable personal income ²	5.3	4.0	4.4	4.7	4.4	3.9	3.8	3.8	4.0	3.9	4.0	3.8	3.8	3.5	3.6	-
Percent change from preceding period																
Personal income, current dollars	6.1	4.7	0.8	1.4	0.3	-0.1	-0.2	1.3	0.2	0.7	0.6	0.7	-0.9	1.8	0.6	0.4
Disposable personal income:																
Current dollars	6.4	4.6	.8	1.2	.2	-1	-3	1.3	.2	.7	.6	.7	-1.2	2.0	.6	-2
1987 dollars	2.9	1.9	.7	.9	.1	-2	-3	1.2	.1	.4	.4	.6	-1.0	1.5	.3	-5
Personal consumption expenditures:																
Current dollars	6.0	6.1	-6	1.2	.5	.6	.4	.4	.4	1.0	.3	.4	-1	1.4	.7	-1
1987 dollars	2.6	3.3	-8	.8	.4	.6	.3	.2	.3	.6	.1	.3	.1	.9	.5	-4

^r Preliminary.

^r Revised.

1. Disposable personal income in 1987 dollars equals the current-dollar figure divided by the implicit price deflator for personal consumption expenditures.

2. Monthly estimates equal the centered 3-month moving average of personal saving as a percentage of the centered 3-month moving average of disposable personal income.

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

Table 3.—U.S. International Transactions in Goods and Services
[Millions of dollars; monthly estimates seasonally adjusted]

	1992	1993	1993										1994			
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. ^r	Mar. ^p	Apr.
Exports of goods and services	619,848	643,563	54,090	53,568	53,746	52,563	52,399	52,731	53,660	54,957	54,735	57,250	54,295	53,238	58,330	.....
Goods	440,138	456,771	38,382	37,841	38,249	36,977	36,577	37,224	38,134	39,371	39,451	41,469	38,528	37,406	42,169	.....
Foods, feeds, and beverages	40,209	40,391	3,468	3,411	3,310	3,151	3,223	3,053	3,432	3,499	3,472	3,666	3,314	3,187	3,432	.....
Industrial supplies and materials	109,307	111,953	9,238	9,109	9,676	8,833	9,327	8,967	9,581	9,893	9,681	9,792	8,977	8,695	10,639	.....
Capital goods, except automotive	176,709	183,037	15,579	15,226	15,278	15,255	14,336	15,296	14,999	15,579	15,565	17,186	16,097	15,280	17,306	.....
Automotive vehicles, engines, and parts	47,080	51,691	4,307	4,424	4,298	4,115	3,792	4,170	4,125	4,521	4,740	4,635	4,425	4,515	4,709	.....
Consumer goods (nonfood), except automotive	50,382	53,413	4,351	4,242	4,501	4,291	4,442	4,491	4,597	4,559	4,791	4,666	4,515	4,447	4,845	.....
Other goods	24,476	24,288	1,951	2,067	1,866	1,994	1,989	2,073	2,151	2,041	1,987	2,288	1,979	2,020	2,038	.....
Adjustments ¹	-8,026	-8,002	-513	-638	-681	-662	-532	-826	-751	-721	-785	-765	-778	-738	-800	.....
Services	179,710	186,792	15,708	15,727	15,497	15,586	15,822	15,507	15,526	15,586	15,284	15,781	15,767	15,833	16,162	.....
Travel	53,861	56,501	4,668	4,796	4,690	4,700	4,911	4,705	4,669	4,726	4,531	4,874	4,898	4,817	4,942	.....
Passenger fares	17,353	17,849	1,491	1,522	1,491	1,517	1,542	1,475	1,459	1,476	1,416	1,507	1,539	1,503	1,535	.....
Other transportation	22,773	23,508	2,026	2,000	1,942	1,951	1,916	1,893	1,951	2,052	1,938	2,009	2,005	1,985	2,123	.....
Royalties and license fees	20,238	20,414	1,646	1,725	1,746	1,752	1,732	1,725	1,718	1,709	1,705	1,705	1,719	1,721	1,725	.....
Other private services	53,601	56,434	4,774	4,588	4,543	4,606	4,683	4,703	4,761	4,728	4,829	4,836	4,703	4,902	4,937	.....
Transfers under U.S. military agency sales contracts ²	11,015	11,259	1,039	1,002	985	963	971	947	912	832	802	787	838	835	829	.....
U.S. Government miscellaneous services	869	827	63	94	99	97	68	60	56	63	63	63	66	69	71	.....
Imports of goods and services	659,575	720,324	61,038	60,252	58,647	60,886	59,290	59,775	61,843	63,417	62,190	61,398	60,938	62,392	65,790	.....
Goods	536,276	589,210	50,168	49,331	48,059	50,076	48,334	48,871	50,702	52,015	50,802	50,217	49,877	50,922	54,208	.....
Foods, feeds, and beverages	27,857	28,050	2,389	2,240	2,304	2,341	2,316	2,331	2,437	2,563	2,348	2,343	2,457	2,356	2,561	.....
Industrial supplies and materials	138,273	145,021	12,643	12,643	12,265	12,753	12,096	11,734	12,193	12,493	12,283	11,561	11,566	12,001	12,863	.....
Capital goods, except automotive	134,193	152,788	12,379	12,426	12,302	13,094	12,822	12,456	13,004	13,653	13,283	13,966	14,181	13,951	14,498	.....
Automotive vehicles, engines, and parts	91,779	102,447	8,850	8,777	8,159	8,589	7,769	8,523	8,742	8,995	8,811	8,912	8,466	8,821	9,620	.....
Consumer goods (nonfood), except automotive	122,973	133,852	11,489	11,094	10,671	11,307	11,001	11,680	11,612	11,740	11,504	11,080	11,266	11,440	11,664	.....
Other goods	17,590	18,354	1,598	1,481	1,605	1,614	1,529	1,373	1,518	1,547	1,687	1,740	1,538	1,565	1,884	.....
Adjustments ¹	3,611	8,699	821	671	753	378	800	774	1,196	1,025	887	616	403	789	1,119	.....
Services	123,299	131,114	10,869	10,921	10,588	10,811	10,956	10,904	11,141	11,402	11,388	11,181	11,061	11,470	11,582	.....
Travel	39,872	42,329	3,494	3,521	3,366	3,376	3,503	3,457	3,634	3,715	3,698	3,613	3,555	3,622	3,707	.....
Passenger fares	10,943	11,256	933	944	894	905	911	918	960	1,008	1,004	951	948	1,000	1,028	.....
Other transportation	23,454	24,511	2,149	2,088	2,003	2,093	2,080	2,020	2,044	2,133	2,085	2,036	1,987	1,984	2,162	.....
Royalties and license fees	4,986	4,748	369	393	401	407	410	411	412	409	409	409	414	683	421	.....
Other private services	27,988	33,595	2,668	2,718	2,674	2,791	2,843	2,901	2,905	2,954	3,013	2,995	2,989	3,025	3,118	.....
Direct defense expenditures ²	13,766	12,286	1,058	1,067	1,060	1,050	1,000	983	975	984	983	983	972	961	952	.....
U.S. Government miscellaneous services	2,290	2,388	198	191	190	190	210	213	212	199	196	194	196	195	194	.....
Memoranda:																
Balance on goods	-96,138	-132,439	-11,787	-11,491	-9,810	-13,098	-11,757	-11,647	-12,568	-12,643	-11,351	-8,748	-11,349	-13,517	-12,040	.....
Balance on services	56,411	55,678	4,839	4,806	4,909	4,775	4,866	4,603	4,385	4,184	3,896	4,600	4,706	4,363	4,580	.....
Balance on goods and services	-39,727	-76,761	-6,948	-6,684	-4,901	-8,323	-6,891	-7,044	-8,183	-8,460	-7,455	-4,148	-6,643	-9,153	-7,460	.....

^p Preliminary.

^r Revised.

1. Reflects adjustments necessary to bring the Census Bureau's component data in line with the concepts and

definitions used to prepare BEA's international and national accounts.

2. Contains goods that cannot be separately identified.

Source: U.S. Department of Commerce, Bureau of Economic Analysis and Bureau of the Census

Pollution Abatement and Control Expenditures, 1972-92

- Estimates for 1992
- Revised Estimates for 1972-91

By Gary L. Rutledge and Christine R. Vogan

REAL SPENDING for pollution abatement and control (PAC) increased 5.1 percent in 1992, in contrast to a 0.7-percent decrease in 1991 (table 1). Prices of PAC goods and services, as measured by the PAC fixed-weighted price index, increased 2.0 percent after increasing 2.6 percent in 1991.

Over nine-tenths of all PAC spending is for pollution abatement (PA); the rest comprises two components—regulation and monitoring expenditures and research and development expenditures. Real PA expenditures increased 5.4 percent in 1992 after a 0.9-percent decrease in 1991. Real spending for regulation and monitoring decreased 2.1 percent, following a 1.1-percent increase. Real spending for research and development decreased 2.6 percent after an 8.5-percent increase.¹

1. The expenditures discussed in this article are for goods and services that U.S. residents use to produce cleaner air and water and to manage solid

In addition to the estimates for 1992, this article presents revised estimates of PAC expenditures for 1972-91. The revised estimates do not sub-

waste and are classified by function (for example, research and development), sector (for example, business), and type (for example, air). PA, which is the principal function, directly reduces pollutant emissions by preventing the generation of pollutants, by recycling the pollutants, or by treating the pollutants prior to discharge; regulation and monitoring is a government activity that stimulates and guides action to reduce pollutant emissions; research and development by business and government not only supports abatement but also helps increase the efficiency of regulation and monitoring.

The estimates of PAC spending cover most, but not all, PAC activities, which are defined as those resulting from rules, policies and conventions, and formal regulations restricting the release of pollutants into common-property media, primarily air and water. The estimates exclude (1) PAC activities that do not use productive resources (for example, plant closings due to PAC, delays in plant construction, curtailments in the use of chemicals in manufacturing and agriculture, and discontinuation of selected product lines) and (2) PAC activities that do use productive resources but that are nonmarket activities (for example, volunteer litter removal).

For the purpose of concise presentation, solid waste management—which includes the collection and disposal of solid waste and the alteration of production processes to generate less solid waste—is categorized as solid waste PAC in the tables in this article. These estimates mainly cover spending for collection and disposal by means acceptable to Federal, State, and local authorities; in the text, they are referred to as "solid waste disposal" spending.

Table 1.—Constant-Dollar Spending for Pollution Abatement and Control: Summary for Recent Years

	Millions of constant (1987) dollars										Percent change from preceding year					
	Level					Change from preceding year					1988	1989	1990	1991	1992 ^P	
	1987	1988	1989	1990	1991	1992 ^P	1988	1989	1990	1991						1992 ^P
Pollution abatement and control	77,649	81,465	81,664	83,901	83,348	87,594	3,816	199	2,237	-553	4,246	4.9	0.2	2.7	-0.7	5.1
Pollution abatement	74,349	78,030	78,128	80,706	80,002	84,328	3,681	98	2,578	-704	4,326	5.0	.1	3.3	-9	5.4
Personal consumption	11,075	12,067	10,438	8,657	6,755	7,019	992	-1,629	-1,781	-1,902	264	9.0	-13.5	-17.1	-22.0	3.9
Motor vehicle emission abatement devices	8,799	10,039	9,467	8,460	6,755	7,019	1,240	-572	-1,007	-1,705	264	14.1	-5.7	-10.6	-20.2	3.9
Operation of these devices	2,276	2,028	971	197	0	0	-248	-1,057	-774	-197	0	-10.9	-52.1	-79.7		
Business	45,432	47,805	48,782	51,881	52,658	55,994	2,373	977	3,099	777	3,336	5.2	2.0	6.4	1.5	6.3
On capital account	14,354	14,854	14,795	16,622	17,260	18,233	500	-59	1,827	638	973	3.5	-4	12.3	3.8	5.6
Motor vehicle emission abatement	4,926	5,791	5,226	5,276	5,268	5,244	865	-565	50	-8	-24	17.6	-9.8	1.0	-2	-5
Plant and equipment	7,312	7,285	7,866	9,742	10,708	11,572	-27	581	1,876	966	864	-4	8.0	23.9	9.9	8.1
Other	2,116	1,778	1,703	1,604	1,284	1,417	-338	-75	-99	-320	133	-16.0	-4.2	-5.8	-19.9	10.4
On current account	31,078	32,951	33,987	35,259	35,398	37,760	1,873	1,036	1,272	139	2,362	6.0	3.1	3.7	4	6.7
Motor vehicle emission abatement	1,613	1,437	737	218	0	0	-176	-700	-519	-218	0	-10.9	-48.7	-70.4		
Plant and equipment	19,861	21,321	22,251	23,282	22,350	23,710	1,460	930	1,031	-932	1,360	7.4	4.4	4.6	-4.0	6.1
Public sewer systems ¹	7,792	8,269	8,803	9,430	10,251	10,934	477	534	627	821	683	6.1	6.5	7.1	8.7	6.7
Cost recovered	-1,473	-1,778	-1,609	-1,697	-1,404	-1,531	-305	169	-88	293	-127	20.7	-9.5	5.5	-17.3	9.0
Other	3,285	3,702	3,805	4,026	4,201	4,647	417	103	221	175	446	12.7	2.8	5.8	4.3	10.6
Government	17,842	18,158	18,908	20,169	20,589	21,315	316	750	1,261	420	726	1.8	4.1	6.7	2.1	3.5
Public sewer system fixed capital ²	10,035	9,629	9,412	9,822	9,340	9,305	-406	-217	410	-482	-35	-4.0	-2.3	4.4	-4.9	-4
Other	7,807	8,529	9,496	10,347	11,249	12,010	722	967	851	902	761	9.2	11.3	9.0	8.7	6.8
Regulation and monitoring	1,519	1,643	1,657	1,636	1,654	1,619	124	14	-21	18	-35	8.2	.9	-1.3	1.1	-2.1
Research and development	1,781	1,792	1,879	1,560	1,692	1,648	11	87	-319	132	-44	.6	4.9	-17.0	8.5	-2.6

^P Preliminary.

1. Spending to operate public sewer systems is classified in the national income and product accounts as business spending.

2. Consists of government enterprise purchases of fixed capital (primarily for the construction of public sewer

systems), which is classified in the national income and product accounts as government spending.

NOTE.—The entries in this table are key components from tables 7 and 8; the "other" entries are consolidations of detail from those tables.

stantially alter the overall picture of PAC spending throughout the economy (chart 3). The revised current-dollar estimates primarily incorporate revisions in estimates of nonmanufacturing spending for solid waste disposal, of residential business spending to install septic systems and laterals (that is, connectors to public sewer systems) for water PA, of manufacturing spending to operate air PA plant and equipment, and of private spending for research and development for air PA. The revised constant-dollar estimates reflect the current-dollar revisions and, to a lesser extent, improvements in price indexes, especially those affecting septic systems cleaning for water PA and the operation of electric utility air and water PA facilities.

The first section of this article examines real PAC spending and PAC prices in 1992. The second section describes trends in the estimates of PAC expenditures. The third section discusses the sources and the size of the revisions for 1972–91, and the fourth discusses the sources used in preparing the estimates.

Recent estimates

Real PAC spending in 1992.—Real PAC spending increased \$4.2 billion, or 5.1 percent, to \$87.6 billion in 1992 after a 0.7-percent decrease in 1991 (table 1, with detail in table 7).

All major types of PAC—air, water, and solid waste—contributed to the growth in real spending. The largest increase was for solid waste disposal, which rose 9.4 percent to \$29.2 billion in 1992 after increasing 4.9 percent in 1991. The 1992 increase was attributable to growth in business spending to operate PA plant and equipment, primarily within nonmanufacturing establishments, and in State and local government spending for solid waste disposal. Air PAC rose 3.9 percent in 1992, following a 6.2-percent decrease. The increase reflected growth in business spending for PA plant and equipment, primarily by electric utilities. Water PAC increased 3.0 percent, following a decrease of 1.3 percent. The increase was mainly in business spending to operate PA plant and equipment, primarily within manufacturing establishments, and in government spending to construct public sewer systems. (See table 8 for detail on business and government spending for air and water PA.)

Within PA spending, all sectors—personal, business, and government—increased in 1992. Personal consumption increased for the first time since 1988, up 3.9 percent, or \$0.3 billion, after a decrease of 22.0 percent in 1991. Purchases of

motor vehicle emission abatement devices (for example, catalytic converters) increased in 1992, reflecting higher unit sales of vehicles.

Business PA expenditures increased 6.3 percent, or \$3.3 billion. Spending for PA capital—that is, capital-account expenditures—increased 5.6 percent, reflecting purchases of PA plant and equipment. Spending for operation of PA capital—that is, current-account expenditures—increased 6.7 percent, largely reflecting operation of PA plant and equipment within manufacturing and nonmanufacturing establishments and of public sewer systems.²

Government PA expenditures increased 3.5 percent, or \$0.7 billion. The increase was mainly for State and local government spending for solid waste disposal.

PAC prices in 1992.—The fixed-weighted price index for total PAC spending increased 2.0 percent in 1992, following a 2.6-percent increase in 1991 (table 2). Prices for air and water PAC increased less in 1992 than in 1991, and prices for solid waste disposal increased about the same in both years.

Real PAC spending in 1993.—According to the information available by May 1994, real PAC spending is expected to have increased in 1993 at the same rate as in 1992. The increase reflects growth in business spending to purchase and operate PA plant and equipment, business spending to operate public sewer systems, and

2. Operation of PA capital refers to operation, maintenance, and minor repairs of PA capital.

Table 2.—Percent Change in Spending and Prices for Pollution Abatement and Control

	1972–92 average annual growth rate	Change from preceding year				
		1988	1989	1990	1991	1992 ^P
Total:						
Current dollars	9.5	7.9	4.3	6.3	2.1	7.5
1987 dollars	3.3	4.9	.2	2.7	–.7	5.1
Fixed-weighted price index	5.8	2.9	4.0	3.7	2.6	2.0
Air:						
Current dollars	7.7	7.7	–6.7	–3.5	–3.7	5.7
1987 dollars	1.6	5.4	–9.6	–5.6	–6.2	3.9
Fixed-weighted price index	5.4	2.3	3.6	3.7	2.4	1.4
Water:						
Current dollars	8.8	2.1	7.0	10.3	.4	4.5
1987 dollars	2.8	–.6	3.2	7.5	–1.3	3.0
Fixed-weighted price index	5.8	2.7	3.7	2.5	2.1	1.5
Solid waste:						
Current dollars	12.9	18.6	15.0	12.7	8.4	13.2
1987 dollars	6.2	13.8	9.4	6.8	4.9	9.4
Fixed-weighted price index	6.3	4.2	5.1	5.6	3.4	3.5

^P Preliminary.

State and local government spending for solid waste disposal.

Trends in real PAC spending, 1972-92

Total PAC spending increased at a 3.3-percent average annual rate during 1972-92; it increased faster (4.5 percent) during 1972-80 and slower (2.4 percent) during 1980-92.³ During 1972-80, real spending for PAC as a percent of gross domestic product increased from 1.5 percent in 1972 to 1.8 percent in 1975, before slipping to 1.7 percent during 1979-80. During 1980-92, this ratio was relatively constant, averaging 1.7 percent. The 1972-92 estimates of real spending are presented by sector in table 3 and by type in table 4.

3. The first year for which estimates are available is 1972; 1980 begins a period in which PAC spending has tended to parallel changes in the economy (as measured by gross domestic product) more closely than before.

Real spending by sector.—During 1972-92, real PAC spending increased \$41.6 billion. Business spending accounted for \$25.3 billion of the increase, government spending for \$12.7 billion, and personal consumption spending for \$3.6 billion (chart 1).

Within business PAC spending, most of the dollar increase was in current-account spending, which declined only during 1980-82. Current-account spending increased at an average annual rate of 4.3 percent during 1972-80 and 3.8 percent during 1980-92 (table 3). Capital-account spending increased at an average annual rate of 1.2 percent during 1972-80 and 1.4 percent during 1980-92; significant declines during 1980-83 were followed by a limited recovery that gained momentum after 1989. The declines for business PAC in the early 1980's were due to relatively weak general business conditions. PAC spending may

Table 3.—Constant-Dollar Spending for Pollution Abatement and Control, by Sector, 1972-92

	Percent		Millions of constant (1987) dollars											
	1972-80 average annual growth rate	1980-92 average annual growth rate	1972	1973	1974	1975	1976	1977	1978	1979	1980			
Pollution abatement and control	4.5	2.4	46,032	49,683	52,098	57,246	60,139	61,703	64,680	65,878	65,590			
Personal consumption	9.8	-3	3,450	4,543	4,950	6,172	6,736	7,158	7,426	7,165	7,297			
Motor vehicle emission abatement devices ...	21.1	3.6	994	1,425	1,394	2,528	3,199	3,606	3,795	4,001	4,602			
Operation of these devices	1.2	.....	2,456	3,118	3,555	3,644	3,536	3,552	3,631	3,164	2,694		
Business	3.0	3.0	31,686	33,482	33,881	34,270	35,995	38,424	40,000	41,154	40,173			
On capital account	1.2	1.4	14,138	14,830	15,039	15,001	15,315	15,822	15,620	16,140	15,512			
Motor vehicle emission abatement	23.9	6.0	469	711	840	1,374	1,623	1,902	2,172	2,498	2,609			
Plant and equipment	0	-7	10,664	10,865	11,226	11,626	11,509	11,392	10,667	10,889	10,635			
Other	-3.5	-3.8	3,005	3,254	2,973	2,001	2,183	2,528	2,781	2,753	2,268			
On current account	4.3	3.8	17,548	18,651	18,842	19,269	20,680	22,602	24,380	25,015	24,661			
Motor vehicle emission abatement	7.3	.....	1,177	1,578	1,990	2,157	2,146	2,240	2,361	2,230	2,068		
Plant and equipment	4.8	3.6	10,641	10,832	10,644	11,112	12,382	13,661	14,763	15,353	15,469			
Public sewer systems ¹	6.0	6.6	3,197	3,510	3,614	3,722	4,032	4,399	4,763	4,997	5,100			
Other ²	-2.8	6.0	2,533	2,732	2,594	2,278	2,120	2,302	2,493	2,436	2,024			
Government	6.6	2.2	10,898	11,658	13,267	16,803	17,409	16,122	17,254	17,558	18,121			
Public sewer system fixed capital ³	9.8	-7	4,801	5,136	6,451	9,426	9,945	8,456	9,508	9,710	10,148			
Other ⁴	3.4	5.0	6,097	6,522	6,816	7,377	7,464	7,666	7,746	7,848	7,973			
			Millions of constant (1987) dollars											
			1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 ^P
Pollution abatement and control	63,613	61,714	63,836	68,913	72,813	77,487	77,649	81,465	81,664	83,901	83,348	87,594		
Personal consumption	8,472	8,494	9,990	11,040	11,935	12,831	11,075	12,067	10,438	8,657	6,755	7,019		
Motor vehicle emission abatement devices ...	5,893	5,834	7,105	8,186	8,961	9,710	8,799	10,039	9,467	8,460	6,755	7,019		
Operation of these devices	2,579	2,660	2,885	2,855	2,973	3,121	2,276	2,028	971	197	0	0		
Business	39,010	37,615	38,461	41,635	43,874	46,088	46,552	48,928	49,917	52,716	53,658	56,948		
On capital account	15,241	13,968	13,106	15,099	15,189	14,953	14,354	14,854	14,795	16,622	17,260	18,233		
Motor vehicle emission abatement	3,306	3,170	3,807	5,057	5,282	5,152	4,926	5,791	5,226	5,276	5,268	5,244		
Plant and equipment	10,209	9,397	7,309	7,852	7,711	7,475	7,312	7,285	7,866	9,742	10,708	11,572		
Other	1,726	1,401	1,990	2,190	2,196	2,326	2,116	1,778	1,703	1,604	1,284	1,417		
On current account	23,770	23,647	25,355	26,537	28,686	31,135	32,198	34,074	35,122	36,094	36,398	38,714		
Motor vehicle emission abatement	2,040	2,064	2,147	2,130	2,156	2,179	1,613	1,437	737	218	0	0		
Plant and equipment	14,839	14,069	15,369	16,289	17,482	19,098	19,861	21,321	22,251	23,282	22,350	23,710		
Public sewer systems ¹	5,297	5,616	5,959	6,149	6,550	7,285	7,792	8,269	8,803	9,430	10,251	10,934		
Other ²	1,594	1,898	1,880	1,969	2,498	2,573	2,932	3,047	3,331	3,164	3,797	4,070		
Government	16,131	15,605	15,385	16,238	17,003	18,568	20,022	20,471	21,310	22,529	22,936	23,628		
Public sewer system fixed capital ³	8,270	7,679	7,063	7,791	8,124	8,807	10,035	9,629	9,412	9,822	9,340	9,305		
Other ⁴	7,861	7,926	8,322	8,447	8,879	9,761	9,987	10,842	11,898	12,707	13,596	14,323		

^P Preliminary.
 1. Spending to operate public sewer systems is classified in the national income and product accounts as business spending.
 2. For this table, private purchases for research and development are included with business pollution abatement spending on current account.

3. Consists of government enterprise purchases of fixed capital (primarily for the construction of public sewer systems), which is classified in the national income and product accounts as government spending.
 4. For this table, government regulation and monitoring and government research and development are included with "other" government pollution abatement spending.

Table 4.—Constant-Dollar Spending for Pollution Abatement and Control, by Type, 1972–92

	Percent		Millions of constant (1987) dollars								
	1972–80 average annual growth rate	1980–92 average annual growth rate	1972	1973	1974	1975	1976	1977	1978	1979	1980
			Millions of constant (1987) dollars								
Pollution abatement and control	4.5	2.4	46,032	49,683	52,098	57,246	60,139	61,703	64,680	65,878	65,590
Pollution abatement	4.6	2.7	42,814	46,166	48,460	53,587	56,230	57,485	60,279	61,423	61,305
Air ¹	5.1	-2	16,421	18,272	19,004	21,291	21,903	22,855	23,713	24,429	24,486
Mobile sources ²	11.3	2	5,096	6,832	7,780	9,703	10,505	11,300	11,959	11,893	11,973
Emission abatement devices	22.1	4.5	1,463	2,136	2,235	3,902	4,822	5,508	5,967	6,498	7,211
Operation of these devices	3.4	.....	3,633	4,696	5,545	5,802	5,682	5,792	5,992	5,395	4,762
Stationary sources	1.3	-6	11,326	11,440	11,224	11,588	11,399	11,555	11,754	12,536	12,513
Facilities	5	-1.0	6,203	6,499	6,895	6,988	6,225	5,938	5,842	6,181	6,446
Industrial ³	0	-7	6,047	6,348	6,729	6,781	6,014	5,655	5,628	5,892	6,044
Other ⁴	12.6	-5.5	156	151	167	208	211	283	214	290	402
Operation of facilities	2.1	-2	5,123	4,941	4,329	4,600	5,174	5,617	5,912	6,355	6,068
Industrial	2.3	-2	4,819	4,673	4,069	4,318	4,849	5,320	5,646	6,063	5,782
Other ⁵	-8	-1.7	303	268	259	281	325	297	266	292	285
Water ⁶	4.5	1.8	18,739	19,732	21,012	23,923	25,907	25,483	26,744	27,255	26,622
Point sources	6.0	2.3	14,750	15,542	17,159	20,991	22,797	22,103	23,146	23,628	23,456
Facilities	5.7	-5	8,865	8,929	10,183	13,604	14,738	13,329	13,812	13,786	13,828
Industrial ³	-1.3	3	3,986	3,709	3,633	4,093	4,701	4,969	4,167	3,964	3,586
Public sewer systems	9.8	-7	4,801	5,136	6,451	9,426	9,945	8,456	9,508	9,710	10,148
Other ⁷	2.4	-7.7	78	84	99	85	92	104	138	111	95
Operation of facilities	6.3	5.2	5,886	6,613	6,976	7,387	8,060	8,774	9,334	9,842	9,628
Industrial	6.6	3.4	2,482	2,756	2,896	3,066	3,498	3,838	4,010	4,296	4,131
Public sewer systems	6.0	6.6	3,197	3,510	3,614	3,722	4,032	4,399	4,763	4,997	5,100
Other ⁵	8.5	3.2	207	347	466	599	531	537	560	549	398
Nonpoint sources	-2.8	-2.7	3,989	4,190	3,853	2,932	3,110	3,380	3,598	3,627	3,166
Solid waste	4.0	7.7	8,628	9,037	9,426	9,499	9,744	10,512	11,318	11,356	11,850
Industrial	6.5	6.7	3,971	4,211	4,543	4,481	4,831	5,471	5,979	6,026	6,562
Other ⁸	1.6	8.8	4,657	4,826	4,884	5,018	4,913	5,041	5,339	5,330	5,288
Other ⁹	6.8	-2.1	-974	-875	-981	-1,126	-1,325	-1,365	-1,496	-1,617	-1,654
Regulation and monitoring	8.7	-1.2	959	1,190	1,340	1,346	1,403	1,514	1,622	1,708	1,873
Air	2.8	-3	387	420	430	441	405	450	483	490	483
Water	9.2	-1.1	375	464	558	576	639	679	695	679	757
Solid waste	23.1	14.8	36	42	59	65	52	71	95	140	190
Other ⁹	13.5	-8.5	161	264	293	264	307	314	349	399	443
Research and development	8	-3.1	2,259	2,327	2,297	2,313	2,507	2,705	2,779	2,747	2,413
Air	-8	-2.9	1,466	1,510	1,397	1,225	1,336	1,476	1,590	1,598	1,375
Water	-2.5	-1.5	388	431	353	345	353	364	371	383	317
Solid waste	0	4.4	74	76	81	87	76	71	61	60	74
Other ⁹	8.8	-6.3	331	311	466	656	742	794	757	707	648

	Millions of constant (1987) dollars											
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 ^p
Pollution abatement and control	63,614	61,714	63,836	68,913	72,813	77,487	77,649	81,465	81,664	83,901	83,348	87,594
Pollution abatement	59,681	58,115	60,465	65,812	69,772	74,110	74,349	78,030	78,128	80,706	80,002	84,328
Air ¹	25,688	24,976	25,906	28,164	29,500	30,464	27,421	28,955	25,982	24,687	22,903	23,900
Mobile sources ²	13,818	13,728	15,943	18,228	19,373	20,162	17,614	19,295	16,402	14,150	12,024	12,264
Emission abatement devices	9,199	9,003	10,911	13,243	14,244	14,863	13,725	15,830	14,693	13,736	12,024	12,264
Operation of these devices	4,619	4,724	5,032	4,985	5,129	5,300	3,889	3,465	1,709	599	414	0
Stationary sources	11,896	11,248	9,963	9,936	9,677	10,301	9,807	9,660	9,580	10,537	10,880	11,637
Facilities	6,283	5,761	4,325	4,246	3,692	3,927	3,728	3,328	3,379	4,064	5,009	5,740
Industrial ³	5,851	5,301	3,879	3,900	3,409	3,654	3,482	3,138	3,184	3,879	4,814	5,538
Other ⁴	432	460	445	346	283	273	190	190	195	195	195	203
Operation of facilities	5,587	5,487	5,639	5,690	5,986	6,374	6,079	6,332	6,201	6,474	5,871	5,897
Industrial	5,360	5,263	5,353	5,418	5,730	6,142	5,843	6,089	5,965	6,247	5,644	5,664
Other ⁵	226	224	286	272	256	232	236	243	236	227	227	233
Water ⁶	23,892	23,227	23,328	24,900	26,017	27,717	29,420	29,226	30,164	32,509	32,050	32,993
Point sources	21,259	20,896	20,429	21,791	22,926	24,489	26,438	26,644	27,612	30,058	29,892	30,704
Facilities	11,657	10,912	9,705	10,676	10,997	11,466	12,664	12,218	12,510	13,879	13,349	13,044
Industrial ³	3,306	3,145	2,564	2,807	2,771	2,587	2,566	2,539	3,046	3,983	3,941	3,702
Public sewer systems	8,270	7,679	7,063	7,791	8,124	8,807	10,035	9,629	9,412	9,822	9,340	9,305
Other ⁷	81	88	77	78	102	73	62	50	52	73	68	36
Operation of facilities	9,602	9,984	10,724	11,115	11,929	13,023	13,773	14,426	15,102	16,179	16,544	17,661
Industrial	4,011	4,062	4,231	4,389	4,590	4,959	5,257	5,467	5,613	6,080	5,623	6,146
Public sewer systems	5,297	5,616	5,959	6,149	6,550	7,285	7,792	8,269	8,803	9,430	10,251	10,934
Other ⁵	293	306	534	577	789	780	724	690	686	668	670	581
Nonpoint sources	2,633	2,331	2,899	3,109	3,091	3,228	2,982	2,582	2,552	2,461	2,158	2,289
Solid waste	11,698	11,135	12,401	13,922	15,666	17,063	18,698	21,265	23,279	24,905	26,171	28,713
Industrial	6,521	5,694	6,651	7,628	8,694	9,231	10,024	11,374	12,309	12,835	13,035	14,232
Other ⁸	5,177	5,441	5,750	6,294	6,972	7,832	8,674	9,892	10,970	12,070	13,136	14,481
Other ⁹	-1,597	-1,222	-1,170	-1,173	-961	-1,133	-1,190	-1,416	-1,297	-1,395	-1,123	-1,279
Regulation and monitoring	1,810	1,709	1,608	1,506	1,361	1,589	1,519	1,643	1,657	1,636	1,654	1,619
Air	445	400	383	390	376	429	410	430	452	446	488	467
Water	677	606	548	525	566	606	583	617	616	597	608	660
Solid waste	286	294	186	202	277	323	300	371	369	372	363	993
Other ⁹	401	409	491	390	143	230	226	225	220	220	195	152
Research and development	2,123	1,890	1,763	1,596	1,678	1,788	1,781	1,792	1,879	1,596	1,692	1,648
Air	1,178	1,061	952	916	1,086	1,088	1,089	1,103	1,114	866	992	961
Water	292	281	273	238	242	242	253	241	262	249	263	266
Solid waste	81	80	98	91	98	119	113	119	153	150	135	124
Other ⁹	572	468	440	350	261	340	326	329	350	295	302	298

^p Preliminary.
 1. The Clean Air Act classifies sources of pollutants as either mobile, such as passenger cars, or stationary, such as factories.
 2. Cars and trucks only.
 3. Consists of new plant and equipment spending for pollution abatement from the Pollution Abatement Costs and Expenditures Survey and the Structures and Equipment Survey—Supplement for Pollution Abatement by the Bureau of Census and of indirect estimation by BEA for selected nonmanufacturing industries.
 4. Consists of spending for fixed capital of government enterprises, such as the Tennessee Valley Authority.
 5. Consists of spending to operate abatement facilities by government enterprises and spending to acquire and operate government facilities other than those covered in footnote 4; data on the acquisition costs of these facilities

are inseparable from the data on operating costs.
 6. The Federal Water Pollution Control Act defines point sources as facilities that discharge to a body of water through a pipe or ditch.
 7. Consists of spending for private connectors to public sewer systems, capital spending by owners of feedlots, and spending for fixed capital of government enterprises.
 8. Consists of Federal, State, and local government spending for the collection and disposal of solid waste and of household payments to business for the collection and disposal of solid waste.
 9. Consists of "other and unallocated" spending, for example, for abatement of multimedia pollution (see footnote 2, table 7).

also have been affected by intensified review of regulatory rules and of enforcement initiatives.

Within government PAC spending, most of the dollar increase occurred during 1972–80 in spending for public sewer system construction and during 1988–92 in “other” government spending, mostly for regulation and monitoring and for research and development. Spending for public sewer system construction, one of the most cyclically sensitive PAC components, increased at an average annual rate of 9.8 percent during 1972–80 and decreased at a 0.7-percent rate during 1980–92.

Within personal consumption PAC spending, most of the dollar increase in spending was for purchases of motor vehicle emission abatement devices, which increased at an average annual rate

of 21.1 percent during 1972–80 and 3.6 percent during 1980–92. These yearly purchases generally moved upward through 1988 and downward thereafter. Spending to operate these devices increased during 1972–80 at an average annual rate of 1.2 percent, leveled during 1980–86, and declined sharply to zero by 1991.⁴

Real spending by type.—The overall increase in real PAC spending during 1972–92 was accounted for by a \$41.5 billion increase in pollution abatement. Among the other PAC components, a \$0.7 billion increase for regulation and monitoring was mostly offset by a \$0.6 billion decline for research and development. The increase for pollution abatement included \$7.5 billion for air PA,

4. For a discussion of spending for operation of emission abatement devices on motor vehicles, see the box on page 33 of the June 1992 SURVEY OF CURRENT BUSINESS.

CHART 1

Real Expenditures for Pollution Abatement and Control by Sector, 1972–92

Billion 1987 \$

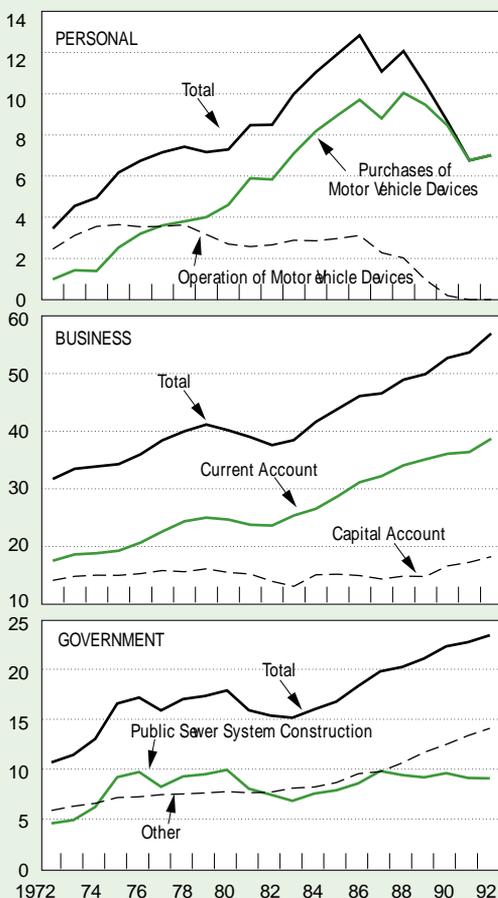
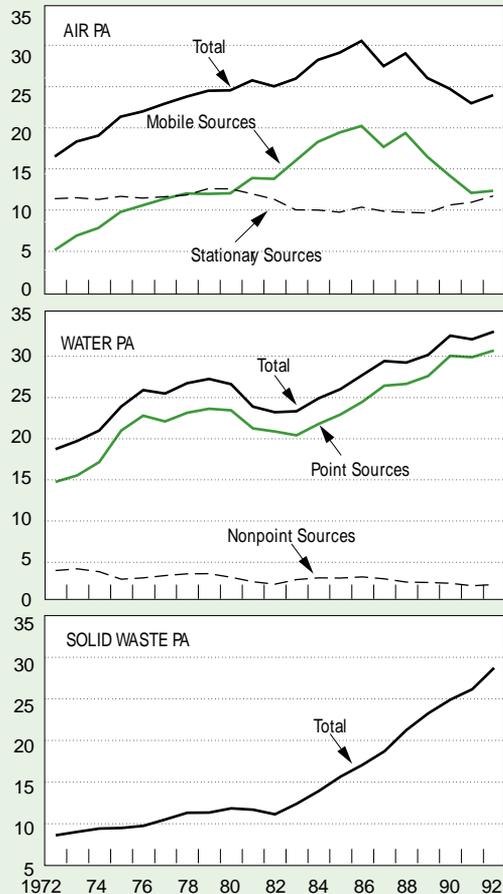


CHART 2

Real Expenditures for Pollution Abatement by Type, 1972–92

Billion 1987 \$



Note.—Expenditure categories above are the same as those shown in table 4. U.S. Department of Commerce, Bureau of Economic Analysis

\$14.3 billion for water PA, and \$20.1 billion for solid waste disposal (chart 2).⁵

Air PA spending increased at an average annual rate of 5.1 percent during 1972–80 and declined at a 0.2-percent rate during 1980–92 (table 4). Within air PA spending, most of the dollar increase was in spending to abate emissions from mobile sources (cars and trucks only). Mobile sources spending increased until 1986 and generally declined thereafter. For all years except 1973 and 1974, purchases of motor vehicle emission abatement devices contributed the most to the increases in mobile source spending. Stationary sources spending, the other component of air PA spending, was relatively level during 1972–92. This spending increased at an average annual rate of 1.3 percent during 1972–80, mainly reflecting spending to operate industrial facilities, and decreased at an average annual rate of 0.6 percent during 1980–92, mainly reflecting spending to purchase industrial facilities.

Water PA spending increased at an average annual rate of 4.5 percent during 1972–80 and 1.8 percent during 1980–92. The majority of water PA spending consists of spending to abate pollution emissions from point sources. Within point source spending, most of the increases during 1972–92 came from growth in the construction and operation of public sewer systems. Spending to abate pollution emissions from nonpoint sources declined for most years, decreasing at an

average annual rate of 2.8 percent during 1972–80 and 2.7 percent during 1980–92.

Solid waste disposal spending increased at an average annual rate of 4.0 percent during 1972–80 and 7.7 percent during 1980–92. It increased each year except for 1981 and 1982, and the increases after 1982 typically were strong. During 1972–80, increases were mainly in purchases of industrial facilities to dispose of solid waste generated from their own plant and equipment. Since 1982, “other” solid waste spending has steadily increased, contributing to the strong increases in total spending for solid waste disposal. The increases in “other” solid waste spending were mainly due to State and local government spending and to business spending. State and local government spending for solid waste disposal rose for all years except 1974, 1976, and 1979. Business spending to collect and dispose of solid waste from residential customers who subscribe to such a service increased for all years except 1976, 1980, and 1981.

Sources and size of revisions

The revisions in PAC spending for 1972–91 are statistical in origin; definitions, concepts, and coverage were not changed. Revisions in current-dollar estimates resulted from changes in estimation methodology—that is, new source data and/or estimating procedures—and the incorporation of revised data from regularly used sources. Revisions in constant-dollar estimates reflect the current-dollar revisions and improved combinations of price indexes used for deflation. Table 5 shows revisions in annual rates of change for

Table 5.—Pollution Abatement and Control and Its Major Components: Revisions in Average Annual Rates of Change for Selected Periods
[Percent]

	1972-91						1972-80						1980-91					
	Current dollars			Constant dollars			Current dollars			Constant dollars			Current dollars			Constant dollars		
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
Pollution abatement and control	9.2	9.6	0.4	3.0	3.2	0.2	14.8	14.9	0.1	4.8	4.5	-0.3	5.4	5.9	0.5	1.7	2.2	0.5
Pollution abatement	9.3	9.8	.5	3.1	3.3	.2	15.0	15.1	.1	4.9	4.6	-.3	5.4	6.1	.7	1.8	2.4	.6
Regulation and monitoring	8.8	8.9	.1	2.8	2.9	.1	17.1	17.1	0	8.7	8.7	0	3.1	3.4	.3	-1.4	-1.1	.3
Research and development	7.4	4.8	-2.6	1.0	-1.5	-2.5	9.9	9.9	0	.8	.8	0	5.7	1.3	-4.4	1.1	-3.2	-4.3
By sector:																		
Personal consumption	9.3	9.4	.1	3.5	3.6	.1	21.9	21.8	-.1	9.8	9.8	0	.9	1.1	.2	-.9	-.7	.2
Business	9.0	9.3	.3	2.7	2.8	.1	13.4	13.5	.1	3.4	3.0	-.4	5.9	6.4	.5	2.2	2.7	.5
Government	9.9	10.4	.5	3.6	4.0	.4	15.8	15.6	-.2	6.7	6.6	-.1	5.8	6.7	.9	1.3	2.2	.9
By major type:																		
Air	8.0	7.8	-.2	1.6	1.5	-.1	17.0	16.7	-.3	4.9	4.7	-.2	2.0	1.8	-.2	-.6	-.7	-.1
Water	9.1	9.0	-.1	2.9	2.8	-.1	14.2	14.2	0	4.5	4.5	0	5.5	5.4	-.1	1.8	1.6	-.2
Solid waste	11.6	12.9	1.3	4.9	6.0	1.1	13.2	12.7	-.5	5.0	4.2	-.8	10.5	13.0	2.5	4.9	7.4	2.5

5. For air PA, the Clean Air Act classifies sources of pollutants as mobile (for example, automobiles) or stationary (for example, factories). For water PA, the Federal Water Pollution Control Act classifies sources of pollutants as point (for example, factories) or nonpoint (for example, highway construction projects).

the current- and constant-dollar estimates for selected periods.

Current-dollar revisions.—Revisions were minimal for 1972–78, downward for 1979–84, and upward for 1985–91 (chart 3). For 1973–78, the current-dollar estimates were revised within a fairly small range—down at most 0.5 percent in 1974 and up at most 0.2 percent in 1978. For 1979–91, they were revised down as much as 4.0

percent in 1981 and up as much as 3.7 percent in 1991.

For 1972–80, downward revisions mainly reflected nonmanufacturing spending for solid waste disposal, and upward revisions mainly reflected spending for the installation of septic systems and laterals (that is, connectors to public sewer systems). For 1981–84, downward revisions were mainly in air PAC for manufacturing spending to operate PA plant and equipment and for private research and development. For 1985–91, upward revisions were mainly due to spending to dispose of solid waste by nonmanufacturing businesses, residential customers, and State and local governments. For 1990 and 1991, downward revisions were sizable for public sewer system construction spending.

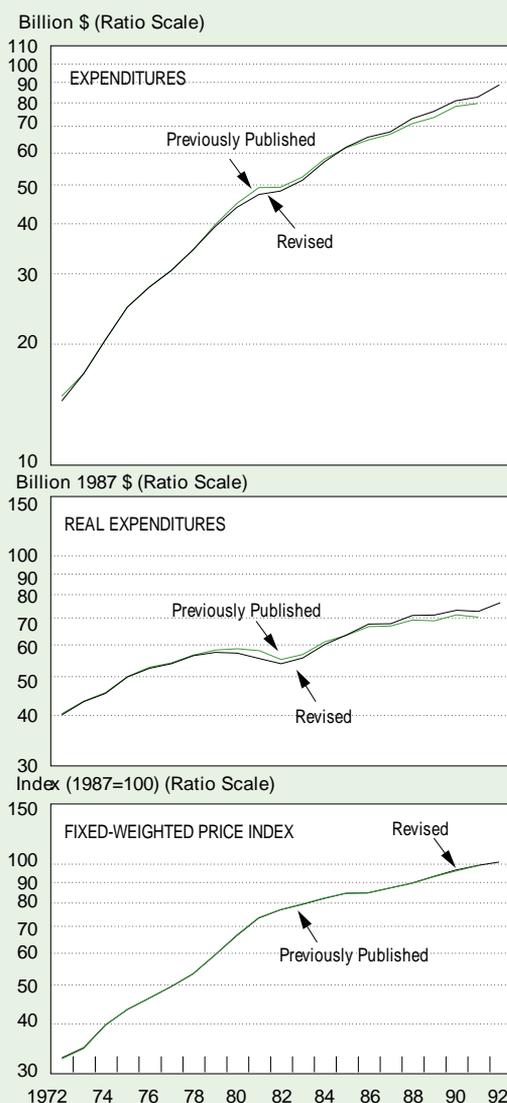
Estimates of spending for solid waste disposal were revised to reflect new source data (for example, new estimates of private contract services purchased by manufacturing establishments) from the Pollution Abatement Costs and Expenditures Survey published by the Bureau of the Census and increased use of refuse-industry payroll data published by the Bureau of Labor Statistics (BLS). The moderate to large size of revisions reflects the incorporation of these source data and related estimation improvements.

Estimates of private research and development for pollution abatement were revised to incorporate new data from the National Science Foundation (NSF) for 1984, 1989, and 1990. For this component of PAC spending, large downward revisions resulted for 1983 forward. The new data for 1984 indicated spending at a lower level and, when combined with the new data for 1989, confirmed that the sketchy information previously available had tended to overstate spending growth. The new data for 1990 indicated a decline in spending in that year, rather than an increase as previously published. Because spending for research and development is a relatively small PAC component, the sizable revision in this series had little effect on the estimates of total PAC.

Estimates of septic system and lateral purchases (and spending for cleaning of septic systems) were revised to incorporate refined estimates of average installation cost (and septic system cleaning cost) and newly available information from the 1990 *Decennial Census of Housing* by the Census Bureau. Telephone interviews with selected installers (and cleaners) updated the average cost estimates, and the decennial census data updated

CHART 3

Expenditures, Real Expenditures, and Fixed-Weighted Price Index for Pollution Abatement and Control, 1972–92



Note.—Pollution Abatement Control (PAC) expenditures consist of expenditures for the direct abatement of pollution (P) for regulation and monitoring, and for research and development.

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

the estimates of growth in housing units with septic systems and laterals.

Constant-dollar revisions.—The constant-dollar revisions mainly reflect the current-dollar revisions just discussed. Spending estimates affected by revisions in the price measures include those for septic system cleaning (included in table 8 in current-account spending for residential systems maintenance) and the operation of electric utility air and water pollution abatement facilities (included in table 8 in current-account spending for plant and equipment operation). The PAC fixed-weighted price index was revised only slightly for most years; the largest revision, 0.5 percent, was for 1990.

On the whole, the revised constant-dollar estimates do not appear to have substantially altered the view of PAC spending throughout the economy (chart 3). The revised PAC estimates show a pattern of growth similar to that shown by the previously published estimates: Paralleling the enactment of major new environmental legislation and strengthening of the Federal role in environmental protection, real PAC spending rose throughout the 1970's; it dropped with the economy in the early 1980's and generally rose thereafter. During 1972-91, PAC spending increased at an average annual rate of 3.2 percent for the revised series and 3.0 percent for the previously published series (table 5). The slightly faster rate of growth in the revised series mainly reflects the substantially higher growth in solid waste disposal spending estimates for 1980-91 (a 7.4-percent average annual rate for the revised series, compared with a 4.9-percent rate for the previously published series). Most of the growth in solid waste disposal spending was due to State and local government spending and to nonmanufacturing business spending.

Sources of the estimates

Some estimates of PAC expenditures are based directly on data from surveys or censuses; others are prepared by indirect methods. PAC estimates derived from direct sources account for about two-thirds of the revised total PAC spending; the remainder is based on other sources that provide more general survey information and on assumptions made to utilize this information. Table 6 shows the breakdown of PAC spending by type of estimate for 1992.

Surveys.—The most important direct sources are the Pollution Abatement Costs and Expenditures (PACE) Survey (for capital and operating

spending by manufacturing establishments) and surveys of government finances (for government spending to operate sewer systems and for solid waste disposal) and of new construction put in place (for government spending to construct sewer systems). These key surveys, as well as the Structures and Equipment Expenditures Survey—Supplement for Pollution Abatement (for electric utilities and, to a lesser extent, mining and petroleum enterprises), are all conducted by the Census Bureau. In addition, BEA collects data on Federal agency funding for PAC and information from the Environmental Protection Agency (EPA) regional offices on State and local government spending for regulation and monitoring. Finally, BEA relies on the Energy Information Agency of the U.S. Department of Energy to collect data on PA operating spending by electric utilities from its Steam-Electric Plant Operation and Design Report.

For 1992, the Census Bureau, in collaboration with BEA, redesigned its PACE survey. Categories of spending that previously were not distinguished from more general categories were developed, and new categories were added.

Other sources.—About two-fifths of PAC spending derived by indirect methods is for nonmanufacturing and residential customers' spending for solid waste disposal privately contracted for (or subscribed). Data sources provide only sketchy information on purchases of solid waste disposal services by customer types (for example, nonmanufacturing demand for services) and on waste flows subject to contract service by refuse companies; therefore, the relationship between

Table 6.—Pollution Abatement and Control Expenditures for 1992, by Type of Estimate

	Percent of PAC expenditures
Surveys	65
Government Finances, BOC	24
Pollution Abatement Costs and Expenditures (MA-200), BOC	22
Value of New Construction Put in Place, BOC	10
Federal Funding for Pollution Control, BEA	7
Structures and Equipment Expenditures Survey—Supplement for Pollution Abatement, BOC	2
Steam-Electric Plant Operation and Design Report, DOE	2
Other sources	35
Nonmanufacturing and residential customers' spending for solid waste disposal	15
Motor vehicle emission abatement	13
Nonmanufacturing operation and maintenance for pollution abatement	3
Residential systems water pollution abatement investment and operation	2
Nonmanufacturing plant and equipment, air and water	1
Electric utilities—extra cost of cleaner fuel	0
All other	1

BOC Bureau of Census
 BEA Bureau of Economic Analysis
 DOE Department of Energy

purchasers' and suppliers' data is difficult to determine. The indirect method used compares a variety of data sources to discern and reconcile, to the extent possible, this relationship. This process of comparison, fitting, and reconciliation is aided by taking into account information for manufacturing establishments (which also purchase services from refuse companies) as well as for nonmanufacturing and residential customers. It relies heavily on the following information: (1) Refuse-industry (that is, supplier) payroll data from BLS, (2) PACE survey data on manufacturing purchases on private contract, and (3) partial information on waste flows by type (that is, information about demand) and disposal services provided (that is, information about supply) from EPA one-time studies, refuse company annual reports, and trade association contacts and reports.

Most of the remainder of PAC spending is attributable to indirect estimation of spending for motor vehicle emission abatement devices and their operation (fuel consumption penalty, maintenance cost, and fuel price penalty). Information on unit sales of motor vehicles is from the American Automobile Manufacturers Association of the United States, Inc., and the dollar value per emission abatement device at time of purchase is derived from selected BLS information. Components of operating spending are based on information from a variety of sources, including studies by EPA (for the fuel consumption penalty and maintenance cost for pre-1975 model year vehicles), data from BLS (for the prices of unleaded and leaded gasoline and the amount of unleaded gasoline purchases to which the fuel price penalty applies), and data from R.L. Polk, Inc. (for the inventory, or stock, of motor vehicles by model year). Factors for the allocation of spending between consumers and business are developed by BEA.

Nonmanufacturing operation and maintenance spending for PA (excluding electric utilities) is estimated in relation to nonmanufacturing air and water PA plant and equipment (P&E) stocks that are being operated. The key assumption is that the ratio of operating spending to stocks for manufacturing establishments can be applied to the stocks of nonmanufacturing establishments to determine operating expenses. These nonmanufacturing PA P&E stocks (excluding electric utilities) are estimated using a perpetual inventory method. Nonmanufacturing PA P&E spending es-

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timates, the starting point for use of the perpetual inventory method, are derived using a variety of data sources, including the PA supplement to the structures and equipment survey mentioned earlier, an environmental protection expenditures survey by the American Petroleum Institute, the *Census of Mineral Industries*, and information about relationships between company-based and establishment-based data.

Estimates of residential systems water PA spending consist of purchases of septic systems and laterals and spending for cleaning septic systems. Data sources for these estimates include surveys of housing conducted by the Census Bureau; related construction activity indicators, such as housing permits and housing starts; and information from telephone contacts with technical experts about the cost of installing and cleaning PA residential systems.

The extra cost of cleaner fuel used by electric utilities that adopt a fuel-switching strategy to lessen emissions is estimated primarily from information on the cost and quality of oil and coal that utilities consume, which is reported by the Energy Information Agency of the U.S. Department of Energy in its *Electric Power Monthly*.

Notable among the remaining sources is the indirect method to estimate private purchases for research and development (R&D) PA spending. This method uses data on total R&D spending from the Industrial Research and Development Survey by the NSF to extrapolate R&D spending for PAC types. Newly available NSF data providing partial coverage of PAC for 1984, 1989, and 1990 has reduced reliance on extrapolation.

Tables 7 and 8 follow. 

Table 7.—Expenditures for Pollution Abatement and Control by Sector and Type in Current and Constant Dollars and Selected Fixed-Weighted Price Indexes, 1972–92

Line	Total ¹															
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	
	Millions of dollars															
1	16,586	19,404	23,552	28,442	31,859	35,048	39,537	45,115	50,399	54,241	55,359	58,873	65,423	71,169	75,389	
2	Pollution abatement	15,397	18,011	21,969	26,685	29,855	32,738	36,941	42,272	47,352	51,153	52,321	55,893	62,561	68,268	72,111
3	Personal consumption	1,350	1,867	2,331	3,235	3,783	4,293	4,780	5,430	6,558	8,122	8,287	9,742	10,839	11,991	12,385
4	Durable goods ³	473	679	702	1,384	1,863	2,211	2,506	2,855	3,552	4,823	4,964	6,201	7,354	8,309	9,385
5	Nondurable goods ⁴	877	1,188	1,629	1,851	1,920	2,082	2,274	2,575	3,006	3,299	3,323	3,541	3,485	3,682	3,000
6	Business	10,639	12,261	14,680	16,554	18,453	21,067	23,463	26,927	29,706	32,370	33,092	34,804	39,032	42,058	43,954
7	On capital account	5,463	6,239	7,195	8,004	8,659	9,520	10,119	11,493	12,089	13,055	12,567	12,026	14,214	14,598	14,659
8	On current account	5,176	6,022	7,485	8,551	9,794	11,547	13,343	15,434	17,617	19,315	20,525	22,779	24,818	27,460	29,295
9	Private	4,404	5,078	6,388	7,348	8,461	9,906	11,365	13,272	15,149	16,402	16,675	18,375	20,056	21,972	23,382
10	Government enterprise	1,151	1,342	1,635	1,896	2,221	2,608	3,053	3,522	4,071	5,314	5,805	6,228	6,722	7,359	
11	Costs recovered	-379	-398	-538	-693	-887	-966	-1,074	-1,360	-1,610	-1,788	-1,463	-1,402	-1,465	-1,233	-1,446
12	Government	3,409	3,883	4,958	6,896	7,619	7,378	8,698	9,915	11,088	10,660	10,942	11,346	12,690	14,220	15,772
13	Federal	139	203	294	432	469	490	472	548	506	550	795	944	1,225	1,346	
14	State and local	1,311	1,433	1,592	1,752	1,834	1,965	2,212	2,461	2,768	3,144	3,484	3,842	4,280	4,858	5,515
15	Government enterprise purchases of fixed capital	1,959	2,246	3,072	4,713	5,316	4,924	6,015	6,906	7,825	7,011	6,908	6,709	7,466	8,137	8,912
16	Regulation and monitoring	367	490	595	653	725	833	949	1,067	1,296	1,378	1,397	1,385	1,362	1,279	1,532
17	Federal	200	278	346	381	402	429	507	593	793	818	820	806	743	575	715
18	State and local	167	212	248	272	323	404	442	474	502	560	577	579	619	705	817
19	Research and development	823	903	988	1,104	1,279	1,478	1,647	1,777	1,751	1,711	1,641	1,595	1,501	1,621.1	1,746
20	Private	519	569	608	609	706	849	999	1,143	1,096	1,037	1,009	920	879	1,010	1,063
21	Federal	205	269	342	448	528	578	592	564	591	646	604	640	590	591	651
22	State and local	99	65	39	47	45	51	57	71	64	28	28	35	32	20	61
	Millions of constant (1987) dollars															
23	Pollution abatement and control	46,032	49,683	52,098	57,246	60,139	61,703	64,680	65,878	65,590	63,613	61,714	63,836	68,913	72,813	77,487
24	Pollution abatement	42,814	46,166	48,460	53,587	56,230	57,485	60,279	61,423	61,305	59,681	58,115	60,465	65,812	69,773	74,110
25	Personal consumption	3,450	4,543	4,950	6,172	6,736	7,158	7,426	7,165	7,297	8,472	8,494	9,990	11,040	11,935	12,831
26	Durable goods ³	994	1,425	1,394	2,528	3,199	3,606	3,795	4,001	4,602	5,893	5,834	7,105	8,186	8,961	9,710
27	Nondurable goods ⁴	2,456	3,118	3,555	3,644	3,536	3,552	3,631	3,164	2,694	2,579	2,660	2,885	2,855	2,973	3,121
28	Business	30,243	31,997	32,458	32,987	34,603	36,861	38,314	39,394	38,673	37,731	36,462	37,454	40,708	42,833	45,002
29	On capital account	14,138	14,830	15,039	15,001	15,315	15,822	15,620	16,140	15,512	15,241	13,988	13,106	15,099	15,189	14,953
30	On current account	16,105	17,166	17,419	17,986	19,288	21,039	22,694	23,255	23,161	22,491	22,494	24,348	25,610	27,645	30,049
31	Private	13,745	14,402	14,654	15,335	16,568	17,999	19,323	19,800	19,643	18,837	18,189	19,622	20,721	22,154	24,095
32	Government enterprise	3,344	3,658	3,760	3,833	4,167	4,526	4,902	5,160	5,285	5,453	5,769	6,119	6,310	6,707	7,447
33	Costs recovered	-985	-893	-994	-1,182	-1,447	-1,487	-1,531	-1,705	-1,766	-1,799	-1,464	-1,392	-1,421	-1,217	-1,493
34	Government	9,122	9,626	11,053	14,427	14,891	13,466	14,539	14,863	15,335	13,477	13,159	13,021	14,063	15,005	16,277
35	Federal	402	539	688	937	953	917	809	840	679	627	649	911	1,048	1,300	1,402
36	State and local	3,693	3,723	3,660	3,782	3,701	3,717	3,878	3,917	4,015	4,070	4,287	4,527	4,803	5,200	5,726
37	Government enterprise purchases of fixed capital	5,027	5,364	6,705	9,708	10,237	8,832	9,852	10,106	10,641	8,780	8,224	7,583	8,212	8,505	9,149
38	Regulation and monitoring	959	1,190	1,340	1,346	1,403	1,514	1,622	1,708	1,873	1,810	1,709	1,608	1,506	1,361	1,589
39	Federal	483	628	735	741	736	736	825	906	1,110	1,040	982	922	814	608	744
40	State and local	476	562	605	606	666	778	796	801	763	770	727	685	693	754	845
41	Research and development	2,259	2,327	2,297	2,313	2,507	2,705	2,779	2,747	2,413	2,123	1,890	1,763	1,596	1,678	1,788
42	Private	1,443	1,485	1,423	1,283	1,392	1,563	1,686	1,760	1,500	1,279	1,153	1,007	927	1,041	1,086
43	Federal	549	676	782	926	1,022	1,043	990	870	816	805	701	713	632	615	670
44	State and local	268	166	92	104	93	99	103	117	97	39	36	43	37	22	32
	Selected fixed-weighted price indexes															
45	Pollution abatement and control	37.7	40.0	45.6	49.8	53.2	56.8	61.1	68.1	76.1	84.2	88.3	91.1	94.2	97.1	97.3
46	Pollution abatement	37.7	40.0	45.7	49.9	53.3	56.9	61.2	68.3	76.4	84.5	88.5	91.2	94.3	97.2	97.3
47	Personal consumption	45.0	45.8	50.8	55.0	58.4	61.5	65.8	74.6	86.3	92.9	94.0	94.9	96.5	98.9	96.6
48	Business	35.9	38.4	44.8	49.5	52.9	56.7	60.7	67.5	75.8	84.6	89.3	92.0	95.3	97.7	97.7
49	On capital account	41.3	43.5	48.2	53.3	56.7	60.3	64.9	71.1	77.5	84.7	88.9	91.5	94.0	96.2	98.0
50	On current account	33.4	36.1	43.2	47.7	51.1	55.0	58.8	65.9	75.0	84.5	89.5	92.2	95.9	98.5	97.5
51	Government	37.7	40.6	44.8	47.8	51.1	54.6	59.4	66.1	71.8	78.9	83.1	87.1	90.2	94.8	96.9
52	Regulation and monitoring	37.9	40.6	43.7	47.7	51.1	54.6	58.1	62.0	68.4	75.4	81.2	85.7	90.0	94.0	96.4
53	Research and development	36.5	38.8	43.0	47.7	51.0	54.6	59.3	64.8	72.7	80.6	86.9	90.6	94.2	96.6	97.6
	Millions of dollars															
54	Addendum: Business capital consumption allowances: ⁵															
55	Valued at replacement cost in current dollars	1,827	2,354	3,030	3,841	4,610	5,476	6,443	7,625	8,846	10,246	11,449	12,522	13,496	14,340	14,997
56	Valued at replacement cost in constant (1987) dollars	4,825	5,568	6,364	7,257	8,124	8,969	9,754	10,530	11,272	11,953	12,700	13,434	14,027	14,539	15,030

See footnotes at end of table.

Table 7.—Expenditures for Pollution Abatement and Control by Sector and Type in Current and Constant Dollars and Selected Fixed-Weighted Price Indexes, 1972-92—Continued

Line	1987					1988					1989					
	Total ¹	Air	Water	Solid waste	Other and unallocated ²	Total ¹	Air	Water	Solid waste	Other and unallocated ²	Total ¹	Air	Water	Solid waste	Other and unallocated ²	
Millions of dollars																
1	77,649	28,921	30,255	19,111	-638	83,809	31,154	30,895	22,663	-903	87,390	29,080	33,052	26,065	-806	
2	Pollution abatement	74,349	27,421	29,420	18,698	-1,190	80,242	29,559	30,008	22,155	-1,480	83,543	27,374	32,097	25,500	-1,428
3	Personal consumption	11,075	11,075				12,284	12,284				10,944	10,944			
4	Durable goods ³	8,799	8,799				10,247	10,247				9,865	9,865			
5	Nondurable goods ⁴	2,276	2,276				2,037	2,037				1,079	1,079			
6	Business	45,432	16,005	18,168	12,731	-1,472	49,107	17,000	18,850	15,121	-1,865	52,217	16,136	20,792	17,062	-1,773
7	On capital account	14,354	8,408	4,493	1,452		15,276	9,176	4,209	1,890		15,670	8,884	4,777	2,010	
8	On current account	31,078	7,597	13,675	11,278	-1,472	33,831	7,824	14,641	13,231	-1,865	36,547	7,252	16,015	15,052	-1,773
9	Private	24,602	7,456	5,867	11,278		27,151	7,656	6,264	13,231		28,820	7,091	6,677	15,052	
10	Government enterprise	7,949	141	7,808	(*)	1	8,547	168	8,377	(*)	2	9,502	161	9,338	(*)	2
11	Costs recovered	-1,473				-1,473	-1,867				-1,867	-1,775				-1,775
12	Government	17,842	341	11,252	5,968	282	18,852	275	11,158	7,034	385	20,382	295	11,305	8,438	345
13	Federal	1,237	80	707	250	200	1,402	65	707	300	330	1,379	70	729	300	280
14	State and local	6,266	15	452	5,718	82	7,283	10	484	6,734	55	8,705	12	489	8,138	65
15	Government enterprise purchases of fixed capital	10,339	246	10,094			10,167	200	9,967			10,299	213	10,086		
16	Regulation and monitoring	1,519	410	583	300	226	1,695	440	635	385	235	1,803	490	670	400	243
17	Federal	700	110	250	120	220	850	120	300	200	230	860	130	310	180	240
18	State and local	819	300	333	180	6	845	320	335	185	5	943	360	360	220	3
19	Research and development	1,781	1,089	253	113	326	1,872	1,155	252	123	342	2,044	1,216	285	165	379
20	Private	1,120	887	113	19	101	1,179	934	119	20	106	1,241	984	125	21	112
21	Federal	630	200	120	90	220	665	220	115	100	230	770	230	140	140	260
22	State and local	31	2	20	4	5	28	2	18	3	6	33	2	20	4	7
Millions of constant (1987) dollars																
23	77,649	28,920	30,255	19,111	-638	81,465	30,488	30,084	21,755	-861	81,664	27,548	31,042	23,800	-726	
24	Pollution abatement	74,349	27,421	29,420	18,698	-1,190	78,030	28,955	29,226	21,265	-1,416	78,128	25,982	30,164	23,279	-1,297
25	Personal consumption	11,075	11,075				12,067	12,067				10,438	10,438			
26	Durable goods ³	8,799	8,799				10,039	10,039				9,467	9,467			
27	Nondurable goods ⁴	2,276	2,276				2,028	2,028				971	971			
28	Business	45,432	16,005	18,168	12,731	-1,472	47,805	16,625	18,444	14,512	-1,776	48,782	15,273	19,539	15,577	-1,607
29	On capital account	14,354	8,408	4,493	1,452		14,884	8,928	4,089	1,836		14,795	8,411	4,510	1,874	
30	On current account	31,078	7,597	13,675	11,278	-1,472	32,921	7,696	14,355	12,676	-1,776	33,987	6,862	15,029	13,703	-1,607
31	Private	24,602	7,456	5,867	11,278		26,274	7,526	6,073	12,676		26,620	6,702	6,214	13,703	
32	Government enterprise	7,949	141	7,808	(*)	1	8,455	170	8,283	(*)	2	8,977	160	8,815	(*)	2
33	Costs recovered	-1,473				-1,473	-1,778				-1,778	-1,609				-1,609
34	Government	17,842	341	11,252	5,968	282	18,158	263	10,781	6,753	361	18,908	271	10,625	7,701	311
35	Federal	1,237	80	707	250	200	1,340	64	675	292	309	1,271	66	670	283	252
36	State and local	6,266	15	452	5,718	82	6,953	10	431	6,461	52	7,982	11	495	7,418	59
37	Government enterprise purchases of fixed capital	10,339	246	10,094			9,866	190	9,676			9,655	195	9,460		
38	Regulation and monitoring	1,519	410	583	300	226	1,643	430	617	371	225	1,657	452	616	369	220
39	Federal	700	110	250	120	220	814	115	287	192	220	780	118	281	163	218
40	State and local	819	300	333	180	6	829	315	329	180	5	877	334	334	206	3
41	Research and development	1,781	1,089	253	113	326	1,792	1,103	241	119	329	1,879	1,114	262	153	350
42	Private	1,120	887	113	19	101	1,123	890	113	19	101	1,135	899	114	19	102
43	Federal	630	200	120	90	220	643	213	111	97	222	715	213	130	130	241
44	State and local	31	2	20	4	5	27	1	17	3	6	30	2	18	4	6
Selected fixed-weighted price indexes																
45	100.0	100.0	100.0	100.0	100.0	102.9	102.3	102.7	104.2	105.0	107.0	106.0	106.5	109.5	111.0	
46	Pollution abatement	100.0	100.0	100.0	100.0	100.0	102.9	102.2	102.7	104.2	104.6	106.9	105.9	106.4	109.6	110.1
47	Personal consumption	100.0	100.0				101.9	101.9				105.5	105.5			
48	Business	100.0	100.0	100.0	100.0	100.0	102.8	102.4	102.2	104.2	105.0	107.0	106.0	106.4	109.6	110.3
49	On capital account	100.0	100.0	100.0	100.0		102.9	103.0	102.9	102.9		105.9	105.9	105.6	107.2	
50	On current account	100.0	100.0	100.0	100.0		102.7	101.8	102.0	104.4	105.0	107.5	106.2	106.6	109.9	110.3
51	Government	100.0	100.0	100.0	100.0	100.0	103.8	104.4	103.5	104.1	106.7	107.6	108.8	106.4	109.5	111.0
52	Regulation and monitoring	100.0	100.0	100.0	100.0	100.0	103.1	102.4	102.9	103.6	104.4	108.8	108.5	108.8	108.3	110.2
53	Research and development	100.0	100.0	100.0	100.0	100.0	104.4	105.0	104.2	103.7	103.9	108.8	109.4	108.7	108.2	108.3
Millions of dollars																
54	Addendum: Business capital consumption allowances: ⁵															
55	Valued at replacement cost in current dollars	15,505					15,929					15,880				
56	Valued at replacement cost in constant (1987) dollars	15,285					15,276					14,708				

See footnotes at end of table.

Table 7.—Expenditures for Pollution Abatement and Control by Sector and Type in Current and Constant Dollars and Selected Fixed-Weighted Price Indexes, 1972–92—Continued

Line	1990					1991					1992 ^p					
	Total ¹	Air	Water	Solid waste	Other and unallocated ²	Total ¹	Air	Water	Solid waste	Other and unallocated ²	Total ¹	Air	Water	Solid waste	Other and unallocated ²	
Millions of dollars																
1	92,873	28,049	36,441	29,368	-987	94,799	27,019	36,585	31,837	-643	101,954	28,560	38,222	36,046	-873	
2	Pollution abatement	89,317	26,592	35,509	28,789	-1,573	90,918	25,312	35,593	31,248	-1,235	98,136	26,889	37,162	35,496	-1,411
3	Personal consumption	9,238	9,238				7,394	7,394				7,896	7,896			
4	Durable goods ³	8,943	8,943				7,394	7,394				7,896	7,896			
5	Nondurable goods ⁴	295	295				0	0				0	0			
6	Business	57,492	17,064	23,430	18,920	-1,922	59,618	17,610	23,580	19,997	-1,569	64,825	18,667	25,067	22,804	-1,712
7	On capital account	17,904	9,820	5,720	2,364		19,043	11,128	5,395	2,520		20,508	12,095	5,332	3,081	
8	On current account	39,588	7,244	17,710	16,556	-1,922	40,574	6,482	18,185	17,476	-1,569	44,318	6,571	19,735	19,723	-1,712
9	Private	31,077	7,083	7,438	16,556		30,912	6,320	7,116	17,476		34,009	6,411	7,875	19,723	
10	Government enterprise	10,435	161	10,272	(*)	2	11,233	162	11,069	(*)	2	12,022	160	11,860	(*)	2
11	Costs recovered	-1,924				-1,924	-1,571				-1,571					-1,714
12	Government	22,587	289	12,079	9,870	349	23,906	308	12,013	11,252	334	25,414	327	12,095	12,692	300
13	Federal	1,391	71	734	304	281	1,417	73	753	341	250	1,215	75	656	281	203
14	State and local	10,161	13	514	9,565	68	11,547	16	537	10,911	83	13,086	22	556	12,411	97
15	Government enterprise purchases of fixed capital	11,035	205	10,831			10,942	219	10,723			11,113	230	10,883		
16	Regulation and monitoring	1,784	476	649	408	250	1,868	533	677	427	231	1,848	526	741	401	180
17	Federal	877	133	307	191	245	900	175	301	201	223	842	185	290	191	176
18	State and local	907	343	342	217	5	968	358	376	226	8	1,006	341	451	210	5
19	Research and development	1,772	982	284	171	336	2,013	1,174	315	162	362.1	1,971	1,144	320	149	358
20	Private	945	749	95	16	85	1,176	932	118	20	106	1,131	896	114	19	102
21	Federal	777	231	151	151	244	790	240	160	139	250	803	247	178	127	252
22	State and local	51	2	38	4	7	47	2	36	3	6	37	1	28	3	4
Millions of constant (1987) dollars																
23	83,901	26,000	33,355	25,427	-880	83,348	24,384	32,921	26,669	-627	87,594	25,329	33,919	29,176	-829	
24	Pollution abatement	80,706	24,687	32,509	24,905	-1,395	80,002	22,903	32,050	26,171	-1,123	84,328	23,900	32,993	28,713	-1,279
25	Personal consumption	8,657	8,657				6,755	6,755				7,019	7,019			
26	Durable goods ³	8,460	8,460				6,755	6,755				7,019	7,019			
27	Nondurable goods ⁴	197	197				0	0				0	0			
28	Business	51,881	15,772	21,437	16,367	-1,695	52,658	15,877	21,432	16,751	-1,402	55,994	16,596	22,478	18,448	-1,529
29	On capital account	16,622	9,155	5,323	2,144		17,260	10,082	4,950	2,227		18,233	10,782	4,794	2,658	
30	On current account	35,259	6,618	16,114	14,222	-1,695	35,398	5,795	16,482	14,524	-1,402	37,760	5,814	17,685	15,790	-1,529
31	Private	27,362	6,464	6,675	14,222		26,384	5,644	6,216	14,524		28,192	5,664	6,738	15,790	
32	Government enterprise	9,594	154	9,439	(*)	2	10,418	150	10,266	(*)	2	11,099	151	10,946	(*)	2
33	Costs recovered	-1,697				-1,697	-1,404				-1,404					-1,531
34	Government	20,169	258	11,073	8,538	300	20,589	271	10,618	9,421	279	21,315	285	10,514	10,265	251
35	Federal	1,228	62	656	269	241	1,220	63	652	296	209	1,041	64	565	242	170
36	State and local	8,864	11	524	8,269	59	9,770	14	562	9,125	70	10,734	18	613	10,023	81
37	Government enterprise purchases of fixed capital	10,077	185	9,892			9,599	195	9,404			9,540	203	9,337		
38	Regulation and monitoring	1,636	446	597	372	220	1,654	488	608	363	195	1,619	467	660	339	152
39	Federal	771	117	270	168	216	761	148	255	170	188	709	156	245	161	148
40	State and local	865	330	327	204	4	893	340	354	193	6	909	311	416	179	4
41	Research and development	1,560	866	249	150	295	1,692	992	263	135	302	1,648	961	266	124	298
42	Private	835	662	84	14	75	1,000	792	101	17	90	954	756	96	16	86
43	Federal	681	203	132	133	214	654	199	133	115	207	664	204	147	105	208
44	State and local	43	1	33	3	6	39	2	29	3	5	30	1	23	3	
Selected fixed-weighted price indexes																
45	111.0	109.9	109.2	115.6	111.7	113.9	112.5	111.5	119.5	102.1	116.2	114.1	113.2	123.7	101.8	
46	Pollution abatement	111.0	109.8	109.2	115.7	112.7	113.8	112.3	111.4	119.5	110.1	116.2	114.0	113.1	123.7	110.1
47	Personal consumption	109.9	109.9				112.4	112.4				114.5	114.5			
48	Business	111.1	109.7	109.2	115.7	113.4	113.5	112.3	110.2	119.5	111.9	115.8	113.5	111.7	123.9	112.0
49	On capital account	107.5	107.4	107.0	110.3		110.1	110.4	108.4	113.1		112.0	112.2	110.5	115.9	
50	On current account	112.7	112.3	110.0	116.4		115.1	114.4	110.7	120.3	111.9	117.5	115.0	112.1	124.9	112.0
51	Government	111.5	112.1	109.1	115.6	116.2	115.5	113.8	113.3	119.4	119.6	118.2	114.5	115.4	123.5	119.9
52	Regulation and monitoring	109.0	106.7	108.5	109.5	114.0	113.4	108.8	111.7	119.1	118.5	115.1	111.9	113.2	120.1	119.0
53	Research and development	113.5	113.1	113.9	114.0	113.8	118.9	117.7	119.5	120.3	119.9	119.5	118.6	120.0	120.6	120.2
Millions of dollars																
54	Addendum: Business capital consumption allowances: ⁵															
55	Valued at replacement cost in current dollars	16,123					11,267					11,545				
56	Valued at replacement cost in constant (1987) dollars	13,701					10,064					10,173				

^p Preliminary.

1. Includes spending for air and water pollution abatement and control and expenditures for solid waste collection and disposal by means acceptable to Federal, State, and local governments. Excludes agricultural production except feedlot operations.

2. "Other" includes spending for abatement and control of noise, radiation, and pesticide pollution; "unallocated" includes business spending not assigned to media.

3. Durables consists of purchases of motor vehicle emission abatement devices.

4. Nondurables consists of spending to operate motor vehicle emission abatement devices.

5. Capital consumption allowances facilitate the conversion of expenditures to a cost basis.

NOTE.—Expenditures are attributed to the sector that performs, rather than pays for, the air or water pollution abatement or the solid waste collection and disposal.

Table 8.—Business and Government Expenditures for Air and Water Pollution Abatement in Current and Constant Dollars, 1972–92

	Total ¹														
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
	Millions of dollars														
Business (line 6)	9,020	10,399	12,548	14,391	16,100	18,231	20,184	23,418	25,735	27,904	28,479	29,075	31,973	33,227	34,199
On capital account (line 7)	5,207	5,902	6,794	7,601	8,205	8,928	9,529	10,731	11,258	12,069	11,598	11,125	13,027	12,987	13,277
Motor vehicle emission abatement	220	334	416	747	939	1,160	1,429	1,779	2,011	2,706	2,699	3,325	4,546	4,901	4,982
Plant and equipment ²	3,954	4,263	5,103	5,901	6,135	6,347	6,412	7,096	7,606	8,017	7,772	6,051	6,478	6,065	6,158
Residential systems ³	1,030	1,302	1,268	946	1,123	1,412	1,683	1,852	1,637	1,344	1,124	1,747	1,999	2,018	2,135
Agricultural business ⁴	3	3	7	7	8	8	5	4	3	3	3	2	3	3	3
On current account (line 8)	3,813	4,497	5,754	6,790	7,895	9,304	10,656	12,687	14,477	15,835	16,881	17,950	18,946	20,240	20,922
Private (line 9)	2,662	3,155	4,120	4,886	5,676	6,697	7,603	9,166	10,399	11,135	11,568	12,145	12,719	13,519	13,564
Motor vehicle emission abatement	420	603	925	1,106	1,172	1,316	1,477	1,803	2,262	2,536	2,513	2,581	2,555	2,631	2,094
Plant and equipment ²	2,034	2,327	2,955	3,533	4,228	5,081	5,800	7,008	7,749	8,185	8,612	9,090	9,642	10,321	10,909
Residential systems ³	209	225	240	256	274	296	322	351	384	408	436	468	513	559	553
Agricultural business ⁴	(*)	1	1	2	2	3	4	5	5	6	6	7	9	8	8
Government enterprise (line 10)	1,151	1,342	1,634	1,895	2,220	2,607	3,053	3,521	4,078	4,700	5,313	5,805	6,227	6,721	7,358
Publicly owned electric utilities	26	33	62	53	66	69	83	118	161	153	153	161	165	161	154
Public sewer systems ⁵	1,124	1,308	1,571	1,842	2,153	2,537	2,970	3,403	3,917	4,547	5,159	5,642	6,059	6,557	7,201
Other	(*)	1	(*)	(*)	1	(*)	1	1	(*)	1	2	2	2	3	3
Government (line 12)	2,261	2,598	3,513	5,282	5,882	5,497	6,639	7,613	8,494	7,602	7,509	7,583	8,424	9,363	10,146
Federal (line 13)	131	181	252	358	362	385	406	450	369	305	325	579	607	823	795
Federal except highways	126	176	248	353	357	379	400	442	362	293	316	572	599	816	788
Highway erosion abatement	2	5	4	5	5	6	7	9	7	12	8	8	8	7	6
State and local (line 14)	171	171	189	211	205	189	218	257	299	286	277	294	351	403	440
State and local except highways	(*)	(*)	(*)	1	1	1	(*)	(*)	(*)	(*)	(*)	4	14	12	14
Highway erosion abatement	171	171	189	210	204	188	218	257	299	286	276	290	337	391	426
Government enterprise fixed capital (line 15)	1,959	2,246	3,072	4,713	5,316	4,924	6,015	6,906	7,825	7,011	6,908	6,709	7,466	8,137	8,912
Publicly owned electric utilities	92	97	128	159	174	237	232	291	397	444	501	487	409	373	337
Public sewer systems ⁵	1,867	2,149	2,945	4,553	5,142	4,687	5,783	6,615	7,429	6,567	6,407	6,222	7,057	7,765	8,575
	Millions of constant (1987) dollars														
Business (line 28)	25,727	27,096	27,311	28,059	29,627	31,239	32,140	33,341	32,271	31,557	30,677	30,591	32,690	33,317	34,899
On capital account (line 29)	13,431	13,940	14,093	14,171	14,444	14,778	14,670	15,028	14,430	14,113	12,936	12,152	13,844	13,530	13,564
Motor vehicle emission abatement	469	711	840	1,374	1,623	1,902	2,172	2,498	2,609	3,306	3,170	3,807	5,057	5,282	5,152
Plant and equipment ²	10,033	10,057	10,362	10,874	10,715	10,424	9,795	9,856	9,630	9,157	8,446	6,444	6,706	6,180	6,241
Residential systems ³	2,923	3,166	2,881	1,914	2,097	2,442	2,698	2,670	2,189	1,648	1,318	1,900	2,078	2,065	2,168
Agricultural business ⁴	6	6	10	10	10	10	6	4	2	3	2	2	3	3	3
On current account (line 30)	12,297	13,156	13,218	13,888	15,183	16,460	17,470	18,313	17,841	17,445	17,742	18,440	18,846	19,787	21,335
Private (line 31)	8,954	9,499	9,462	10,057	11,018	11,936	12,568	13,154	12,557	11,993	11,973	12,321	12,537	13,081	13,889
Motor vehicle emission abatement	1,177	1,578	1,990	2,157	2,146	2,240	2,361	2,230	2,068	2,040	2,064	2,147	2,130	2,156	2,179
Plant and equipment ²	7,301	7,430	6,965	7,384	8,347	9,158	9,657	10,360	9,914	9,371	9,326	9,584	9,808	10,319	11,101
Residential systems ³	475	491	505	514	523	534	547	559	572	579	579	586	592	597	601
Agricultural business ⁴	(*)	1	2	2	3	4	4	5	5	5	5	5	7	8	9
Government enterprise (line 32)	3,343	3,657	3,756	3,831	4,165	4,524	4,901	5,159	5,284	5,452	5,768	6,118	6,309	6,706	7,446
Publicly owned electric utilities	145	145	139	109	132	125	137	161	184	154	151	157	158	153	159
Public sewer systems ⁵	3,197	3,510	3,614	3,722	4,032	4,399	4,763	4,997	5,100	5,297	5,616	5,959	6,149	6,550	7,285
Other	1	2	3	1	1	1	1	1	(*)	1	2	2	3	3	3
Government (line 34)	5,983	6,365	7,756	10,983	11,447	9,941	10,891	11,178	11,541	9,550	9,031	8,653	9,332	9,816	10,450
Federal (line 35)	380	480	591	780	731	717	695	686	504	377	385	661	676	875	834
Federal except highways	363	466	581	768	718	704	684	674	494	360	372	651	665	867	827
Highway erosion abatement	17	14	10	12	13	13	11	13	10	17	13	10	11	8	7
State and local (line 36)	576	521	460	496	480	393	344	386	397	394	423	409	445	436	467
State and local except highways	(*)	1	1	1	2	1	(*)	(*)	(*)	(*)	(*)	4	16	13	14
Highway erosion abatement	576	520	459	495	478	392	344	386	397	394	423	404	429	423	453
Government enterprise fixed capital (line 37)	5,027	5,364	6,705	9,708	10,237	8,832	9,852	10,106	10,641	8,780	8,224	7,583	8,212	8,505	9,149
Publicly owned electric utilities	227	228	254	282	292	376	344	396	493	510	545	520	421	381	342
Public sewer systems ⁵	4,801	5,136	6,451	9,426	9,945	8,456	9,508	9,710	10,148	8,270	7,679	7,063	7,791	8,124	8,807

See footnotes at end of table.

Table 8.—Business and Government Expenditures for Air and Water Pollution Abatement in Current and Constant Dollars, 1972–92—Continued

	1987			1988			1989			1990			1991			1992 ^a		
	Total ¹	Air	Water	Total^{1}	Air	Water	Total^{1}	Air	Water	Total^{1}	Air	Water	Total^{1}	Air	Water	Total^{1}	Air	Water
Millions of dollars																		
Business (line 6)	34,173	16,005	18,168	35,851	17,000	18,850	36,928	16,136	20,792	40,494	17,064	23,430	41,190	17,610	23,580	43,733	18,667	25,067
On capital account (line 7)	12,901	8,408	4,493	13,386	9,176	4,209	13,661	8,884	4,777	15,540	9,820	5,720	16,523	11,128	5,395	17,427	12,095	5,332
Motor vehicle emission abatement	4,926	4,926	.....	5,910	5,910	.....	5,446	5,446	.....	5,578	5,578	.....	5,766	5,766	.....	5,902	5,902	.....
Plant and equipment ²	6,049	3,482	2,566	5,901	3,267	.....	2,635	6,699	3,437	3,262	8,554	4,243	4,312	9,672	5,362	4,310	10,334	6,194
Residential systems ³	1,924	.....	1,924	1,572	.....	1,572	1,512	.....	1,512	1,405	.....	1,405	1,081	.....	1,081	1,188	.....	1,188
Agricultural business ⁴	3	.....	3	3	.....	3	4	.....	4	3	.....	3	3	.....	3	3	.....	3
On current account (line 8)	21,272	7,597	13,675	22,465	7,824	14,641	23,267	7,252	16,015	24,954	7,244	17,710	24,667	6,482	18,185	26,306	6,571	19,735
Private (line 9)	13,323	7,456	5,867	13,920	7,656	6,264	13,768	7,091	6,677	14,521	7,083	7,438	13,436	6,320	7,116	14,286	6,411	7,875
Motor vehicle emission abatement	1,613	1,613	.....	1,446	1,446	.....	817	817	.....	301	301	.....	0	0	.....	0	0	.....
Plant and equipment ²	11,101	5,843	5,257	11,824	6,210	5,614	12,260	6,273	5,985	13,497	6,783	6,714	12,678	6,320	6,358	13,488	6,411	7,077
Residential systems ³	601	.....	601	642	.....	642	682	.....	682	714	.....	714	749	.....	749	789	.....	789
Agricultural business ⁴	8	.....	8	8	.....	8	10	.....	10	9	.....	9	9	.....	9	9	.....	9
Government enterprise (line 10)	7,948	141	7,808	8,545	168	8,377	9,500	161	9,338	10,432	161	10,272	11,231	162	11,069	12,020	160	11,860
Publicly owned electric utilities	153	141	13	181	168	12	173	161	11	168	161	8	176	162	14	170	160	10
Public sewer systems ⁵	7,792	.....	7,792	8,363	.....	8,363	9,325	.....	9,325	10,262	.....	10,262	11,052	.....	11,052	11,845	.....	11,845
Other	3	.....	3	2	.....	2	3	.....	3	2	.....	2	3	.....	3	5	.....	5
Government (line 12)	11,592	341	11,252	11,433	275	11,158	11,599	295	11,305	12,368	289	12,079	12,321	308	12,013	12,421	327	12,095
Federal (line 13)	787	80	707	772	65	707	799	70	729	805	71	734	826	73	753	731	75	656
Federal except highways	780	80	700	765	65	500	795	70	725	802	71	730	822	73	749	727	75	652
Highway erosion abatement	7	.....	7	7	.....	7	4	.....	4	4	.....	4	4	.....	4	4	.....	4
State and local (line 14)	467	15	452	494	10	484	501	12	489	528	13	514	553	16	537	578	22	556
State and local except highways	15	15	.....	10	10	.....	12	12	.....	13	13	.....	16	16	.....	22	22	.....
Highway erosion abatement	452	.....	452	484	.....	484	489	.....	489	514	.....	514	537	.....	537	556	.....	556
Government enterprise fixed capital (line 15)	10,339	246	10,094	10,167	200	9,967	10,299	213	10,086	11,035	205	10,831	10,942	219	10,723	11,113	230	10,883
Publicly owned electric utilities	304	246	58	248	200	49	265	213	52	281	205	76	289	219	70	265	230	35
Public sewer systems ⁵	10,035	.....	1,035	9,918	.....	9,918	10,034	.....	10,034	10,755	.....	10,755	10,653	.....	10,653	10,848	.....	10,848
Millions of constant (1987) dollars																		
Business (line 28)	34,173	16,005	18,168	35,069	16,625	18,444	34,812	15,273	19,539	37,209	15,772	21,437	37,309	15,877	21,432	39,074	16,596	22,478
On capital account (line 29)	12,901	8,408	4,493	13,018	8,928	4,089	12,921	8,411	4,510	14,477	9,155	5,323	15,033	10,882	4,950	15,575	10,782	4,794
Motor vehicle emission abatement	4,926	4,926	.....	5,791	5,791	.....	5,226	5,226	.....	5,276	5,276	.....	5,268	5,268	.....	5,244	5,244	.....
Plant and equipment ²	6,049	3,482	2,566	5,677	3,138	2,539	6,230	3,184	3,046	7,862	3,879	3,983	8,755	4,814	3,941	9,240	5,538	3,702
Residential systems ³	1,924	.....	1,924	1,548	.....	1,548	1,461	.....	1,461	1,337	.....	1,337	1,007	.....	1,007	1,088	.....	1,088
Agricultural business ⁴	3	.....	3	3	.....	3	3	.....	3	3	.....	3	3	.....	3	3	.....	3
On current account (line 30)	21,272	7,597	13,675	22,051	7,696	14,355	21,891	6,862	15,029	22,732	6,618	16,114	22,276	5,795	16,482	23,499	5,814	17,685
Private (line 31)	13,323	7,456	5,867	13,598	7,526	6,073	12,916	6,702	6,214	13,139	6,464	6,675	11,860	5,644	6,216	12,402	5,664	6,738
Motor vehicle emission abatement	1,613	1,613	.....	1,437	1,437	.....	737	737	.....	218	218	.....	0	0	.....	0	0	.....
Plant and equipment ²	11,101	5,843	5,257	11,557	6,090	5,467	11,578	5,964	5,613	12,327	6,247	6,081	11,268	5,644	5,623	11,810	5,664	6,146
Residential systems ³	601	.....	601	598	.....	598	594	.....	594	588	.....	588	586	.....	586	584	.....	584
Agricultural business ⁴	8	.....	8	7	.....	7	8	.....	8	7	.....	7	7	.....	7	8	.....	8
Government enterprise (line 32)	7,948	141	7,808	8,453	170	8,283	8,975	160	8,815	9,592	154	9,439	10,416	150	10,266	11,097	151	10,946
Publicly owned electric utilities	153	141	13	182	170	12	170	160	10	160	154	7	162	150	12	159	151	8
Public sewer systems ⁵	7,792	.....	7,792	8,269	.....	8,269	8,803	.....	8,803	9,430	.....	9,430	10,251	.....	10,251	10,934	.....	10,934
Other	3	.....	3	2	.....	2	2	.....	2	2	.....	2	3	.....	3	4	.....	4
Government (line 34)	11,592	341	11,252	11,044	263	10,781	10,895	271	10,625	11,331	258	11,073	10,889	271	10,618	10,800	285	10,514
Federal (line 35)	787	80	707	738	64	675	736	66	670	718	62	656	715	63	652	628	64	565
Federal except highways	780	80	700	732	64	669	732	66	666	715	62	653	711	63	648	624	64	560
Highway erosion abatement	7	.....	7	6	.....	6	4	.....	4	4	.....	4	4	.....	4	4	.....	4
State and local (line 36)	467	15	452	441	10	431	505	11	495	536	11	524	575	14	562	631	18	613
State and local except highways	15	15	.....	10	10	.....	11	11	.....	11	11	.....	14	14	.....	18	18	.....
Highway erosion abatement	452	.....	452	431	.....	431	495	.....	495	524	.....	524	562	.....	562	613	.....	613
Government enterprise fixed capital (line 37)	10,339	246	10,094	9,866	190	9,676	9,655	195	9,460	10,077	185	9,892	9,599	195	9,404	9,540	203	9,337
Publicly owned electric utilities	304	246	58	248	190	47	243	195	48	254	185	70	259	195	65	235	203	32
Public sewer systems ⁵	10,035	.....	1,035	9,629	.....	9,629	9,412	.....	9,412	9,822	.....	9,822	9,340	.....	9,340	9,305	.....	9,305

^a Preliminary.
^{*} Less than \$500,000.
 1. Consists of air and water pollution abatement expenditures only.
 2. Consists of manufacturing companies and of privately and cooperatively owned electric utilities and other non-manufacturing companies.
 3. Consists of private septic systems and sewer connections linking household plumbing to street sewers.

4. Feedlot operations only; see footnote 1 to table 7.
 5. Public sewer systems consist of treatment plants, collection sewers, interceptor sewers, pumping stations, and dry-waste disposal plants. Spending to operate public sewer systems is classified in the national income and product accounts as business spending. Government enterprise purchases of fixed capital (primarily for construction of public sewer systems) is classified in the national income and product accounts as government spending.

NOTE.—Line numbers refer to those in table 7.

U.S. Business Enterprises Acquired or Established by Foreign Direct Investors in 1993

By Mahnaz Fahim-Nader

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IN 1993, after declining for 4 years, outlays by foreign investors for acquiring and establishing U.S. business enterprises increased sharply. The outlays, which consist of those made directly and those made through existing U.S. affiliates, increased 71 percent, to \$26.2 billion from \$15.3 billion in 1992 (table 1).¹

Outlays financed with funds from foreign parents, rather than from U.S. or other foreign sources, increased \$4.0 billion, contributing to the sharp overall increase in net capital inflows for foreign direct investment in the United States recorded in the U.S. balance of payments accounts.² The rate of increase in outlays was roughly in line with that in overall merger and acquisition activity in the United States.³ However, despite the increase, outlays remained well below the levels of 1987–90, when they ranged from \$40 billion to over \$70 billion.

1. These data are from BEA's annual survey of new foreign direct investments in the United States, which covers (1) existing U.S. business enterprises in which foreign investors acquired, directly or through their U.S. affiliates, at least a 10-percent voting interest, and (2) new U.S. business enterprises established by foreign investors or their U.S. affiliates. Acquisitions of additional equity or voting interests in existing U.S. affiliates are not covered.

The data are limited to U.S. business enterprises that had total assets of over \$1 million or that owned at least 200 acres of U.S. land in the year they were acquired or established. U.S. enterprises that did not meet these criteria were required to file partial reports, primarily for identification purposes, but the data from these reports are not included in the accompanying tables. For 1993, total assets of the U.S. enterprises that filed partial reports were only \$102.3 million, or about 0.1 percent of the total assets of \$97.1 billion of the U.S. enterprises that met the criteria for filing a complete report.

2. In addition to outlays from foreign parents to acquire or establish U.S. affiliates, net capital inflows for foreign direct investment in the United States reflect (and in 1993 were largely accounted for by) foreign parents' financing of their existing U.S. affiliates.

3. A Securities Data Company news release dated December 31, 1993, indicates that the "total deal value" of all U.S. companies targeted for merger and acquisition increased 80 percent in 1993.

By industry, increases in outlays were particularly large in manufacturing, services, and retail trade. Outlays decreased in real estate and "other industries."

By country of ultimate beneficial owner (UBO), increases in outlays were largest by UBO's in the United Kingdom and Canada; the United Kingdom alone accounted for over 60 percent of the total increase.⁴ Outlays for Japan declined for the third year in a row.

The 71-percent increase in outlays in 1993 followed a 40-percent decrease in 1992. The turnaround was partly attributable to a number of factors that increased foreign investors' ability and incentive to invest in the United States. First, the economic expansion in the United States that began in early 1991 continued through 1993. Second, business conditions remained poor in many foreign countries, but they improved significantly in the United Kingdom and Canada, traditionally two of the largest investor countries; as a result, the earnings of companies in these countries (and therefore the funds available to them for investing in the United States) increased. Third, borrowing conditions in the United States improved in 1993, as evidenced by

4. The transactions discussed in this article are classified by country of UBO. The UBO is the first person in the ownership chain of the acquired or established U.S. business, beginning with the foreign parent, that is not owned more than 50 percent by another person. The foreign parent is the first foreign person in the ownership chain. The country of UBO is often the same as that of the foreign parent, but it may be a different foreign country or the United States. "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).

Table 1.—Investment Outlays, Investments, and Investors, 1987–93

	Outlays (millions of dollars)							Number						
	1987	1988	1989	1990	1991	1992 ^r	1993 ^p	1987	1988	1989	1990	1991	1992 ^r	1993 ^p
Investments, total	40,310	72,692	71,163	65,932	25,538	15,333	26,182	978	1,424	1,580	1,617	1,091	941	1,009
Acquisitions	33,933	64,855	59,708	55,315	17,806	10,616	23,055	543	869	837	839	561	463	553
Establishments	6,377	7,837	11,455	10,617	7,732	4,718	3,126	435	555	743	778	530	478	456
Investors, total	40,310	72,692	71,163	65,932	25,538	15,333	26,182	1,051	1,542	1,742	1,768	1,220	1,019	1,171
Foreign direct investors	11,773	18,569	22,538	14,026	8,885	4,058	6,596	480	566	727	670	438	350	379
U.S. affiliates	28,536	54,123	48,625	51,906	16,653	11,275	19,586	571	976	1,015	1,098	782	669	792

^r Revised.
^p Preliminary.

the decline in long-term U.S. interest rates and the increase in new foreign bond issues to record levels here. In addition, foreign multinational companies' desire to expand geographically and to gain additional markets in industries that complement their core businesses led to a number of acquisitions of U.S. companies. Some of these companies were acquired when U.S. conglomerates divested themselves of companies that were unrelated to their core businesses.

As in past years, acquisitions of existing companies, rather than establishments of new companies, accounted for most of total outlays (88 percent) in 1993. Large investments did not dominate outlays to the extent that they have in some years, but they played a more prominent role in 1993 than in 1992. In 1993, 49 investments of \$100 million or more accounted for 73 percent of outlays; among these were two investments of \$1 billion or more. In contrast, in 1992, there were no investments of \$1 billion or more and only 28 investments of \$100 million or more (tables 2.1 and 2.2). The 28 investments accounted for 42 percent of outlays.

U.S. affiliates that were newly acquired or established in 1993, nearly all of which were nonbank affiliates, employed 313,000 persons. By comparison, all nonbank U.S. affiliates employed 4.8 million persons in 1991, the latest year for which such data are available; total nonbank af-

iliate employment, in turn, accounted for 5.2 percent of total employment by all nonbank U.S. businesses in 1991.⁵

Newly acquired or established affiliates had total assets of \$97.1 billion in 1993, of which \$86.2 billion was held by nonbank affiliates. By comparison, total assets of all nonbank U.S. affiliates at yearend 1991 were \$1,744 billion. In manufacturing, the only industry for which comparable all-U.S.-business data on assets are available, total assets of newly established or acquired affiliates were \$15.8 billion in 1993; by comparison, total assets of all manufacturing affiliates were \$516.7 billion in 1991, or 19.2 percent of total U.S. manufacturing assets.

The estimates for 1993 are preliminary and will be revised next year. Estimated outlays for 1992 have been revised from \$13.5 billion to \$15.3 billion (tables 1 and 2.1). The largest revisions in outlays were in services (up \$0.5 billion), banking (up \$0.5 billion), primary and fabricated metals (up \$0.4 billion), and machinery (up \$0.3 billion).⁶

The remainder of this article consists of two parts. The first part discusses investment transactions by industry, by country, and by source of funding; the second part presents selected data on the operations of the U.S. businesses acquired or established. In the discussion, information from outside sources, mainly press reports, has been used to assist in the analysis and interpretation of the survey results.

Table 2.1.—Number of Investments by Size of Outlays, 1987–93

	1987	1988	1989	1990	1991	1992 ^r	1993 ^p
Total	978	1,424	1,580	1,617	1,091	941	1,009
\$2 billion or more	1	5	4	5	1	0	1
\$1 billion–\$1.9 billion ...	5	7	6	6	1	0	1
\$100 million–\$99 million	70	98	110	74	45	28	47
\$10 million–\$9 million	291	429	483	499	273	252	281
Less than \$10 million ..	611	885	977	1,033	771	661	679

^r Revised.
^p Preliminary.

Table 2.2.—Percent Change from Preceding Year in Investment Outlays and Number of Investments, 1988–93

	1988	1989	1990	1991	1992 ^r	1993 ^p
Investment outlays	80	-2	-7	-61	-40	71
Number of investments	46	11	2	-33	-14	7
Addenda:						
Percent of total outlays accounted for by:						
Investments of \$1 billion or more	40	36	40	12	0	19
Investments of \$100 million or more	78	74	73	59	42	73

^r Revised.
^p Preliminary.

Investment Transactions

In 1993, outlays resulting from acquisitions of existing U.S. businesses were \$23.1 billion, and those resulting from the establishment of new U.S. businesses were \$3.1 billion (table 3). Most of the outlays were made by existing U.S. affiliates (\$19.6 billion) rather than by the foreign direct investors themselves (\$6.6 billion); however, some

5. The estimates for 1991 of nonbank affiliates' employment and of manufacturing affiliates' assets, as well as their shares in the comparable all-U.S.-business totals, are from "U.S. Affiliates of Foreign Companies: Operations in 1991," SURVEY OF CURRENT BUSINESS 73 (May 1993): 89–112. Preliminary estimates for 1992, which will be based on the 1992 benchmark survey of foreign direct investment in the United States, are scheduled for publication in the SURVEY this summer.

6. The revision in banking largely reflected a change in industry definition: In previous estimates, "banking" was primarily composed of commercial banks; most other depository institutions, such as savings institutions and credit unions, were included in "finance (except banking)." Beginning with the estimates for 1992 published in this article, "banking" covers all depository institutions. Thus, savings institutions and credit unions have been reclassified from "finance (except banking)" to "banking." About \$0.4 billion in outlays from finance (except banking) were reclassified to banking. Without the reclassification, estimates of outlays in banking for 1992 would have been revised up \$0.1 billion instead of \$0.5 billion, and those of outlays in finance (except banking) would have been revised up \$0.2 billion rather than revised down \$0.2 billion.

Table 3.—Investment Outlays by Type of Investment and Investor, by Industry of U.S. Business Enterprise, 1992–93

[Millions of dollars]

	1992 ^a					1993 ^a				
	Total	By type of investment		By type of investor		Total	By type of investment		By type of investor	
		Acquisitions	Establishments	Foreign direct investors	U.S. affiliates		Acquisitions	Establishments	Foreign direct investors	U.S. affiliates
All industries	15,333	10,616	4,718	4,058	11,275	26,182	23,055	3,126	6,596	19,586
Petroleum	463	433	30	9	454	774	708	65	31	743
Petroleum and coal products manufacturing	(*)	(*)	0	(*)	0	(D)	(D)	(D)	7	(D)
Other	463	432	30	8	454	(D)	(D)	(D)	24	(D)
Manufacturing	6,014	4,582	1,432	2,022	3,992	12,418	11,955	463	949	11,469
Food and kindred products	404	265	139	(D)	(D)	1,387	1,380	7	4	1,383
Beverages	13	3	10	(D)	(D)	650	650	0	4	646
Other	391	263	128	28	363	738	731	7	(*)	738
Chemicals and allied products	1,644	1,494	150	(D)	(D)	5,729	5,729	0	77	5,651
Industrial chemicals and synthetics	492	414	78	(*)	492	(D)	(D)	0	(D)	(D)
Drugs	(D)	186	(D)	0	(D)	874	874	0	62	812
Soap, cleaners, and toilet goods	(D)	(D)	0	(D)	(D)	(D)	(D)	0	0	(D)
Other	472	(D)	(D)	5	467	(D)	(D)	0	(D)	(D)
Primary and fabricated metals	1,187	793	393	646	540	1,388	1,165	223	89	1,299
Primary metal industries	840	494	347	592	249	597	(D)	(D)	(D)	(D)
Ferrous	691	344	347	592	99	(D)	(D)	(D)	0	(D)
Nonferrous	150	150	0	150	0	(D)	(D)	(D)	0	(D)
Fabricated metal products	346	300	46	54	292	791	(D)	(D)	(D)	(D)
Machinery	1,002	760	242	373	629	1,952	1,944	8	488	1,464
Machinery, except electrical	577	355	223	175	402	779	773	7	443	337
Office and computing machines	38	34	5	37	1	455	451	4	397	58
Other	539	321	218	138	401	324	321	3	46	278
Electric and electronic equipment	425	406	19	198	227	1,173	1,171	2	45	1,128
Audio, video, and communications equipment	69	58	10	(*)	68	(D)	(D)	2	3	(D)
Electronic components and accessories	167	162	6	68	99	(D)	(D)	0	43	(D)
Other	189	186	3	129	59	(D)	(D)	0	(*)	(D)
Other manufacturing	1,778	1,269	508	563	1,214	1,962	1,737	225	290	1,672
Textile products and apparel	78	76	2	37	41	406	398	8	3	404
Lumber, wood, furniture, and fixtures	(D)	(D)	2	0	(D)	(D)	(D)	0	0	(D)
Paper and allied products	(D)	(D)	(D)	0	(D)	(D)	(D)	(D)	0	(D)
Printing and publishing	(D)	(D)	2	1	(D)	256	254	2	7	250
Newspapers	3	3	0	(*)	3	(D)	(D)	0	7	(D)
Other	(D)	(D)	2	1	(D)	(D)	(D)	2	7	(D)
Rubber products	(*)	0	(*)	(*)	0	(*)	(*)	0	(*)	0
Miscellaneous plastics products	302	233	69	52	250	206	206	(*)	1	206
Stone, clay, and glass products	(D)	58	(D)	(D)	52	229	227	2	178	51
Transportation equipment	158	136	22	(D)	(D)	(D)	(D)	(D)	6	(D)
Motor vehicles and equipment	21	1	20	(D)	(D)	3	(D)	(D)	3	(D)
Other transportation equipment	137	135	2	(D)	(D)	(D)	(D)	3	3	(D)
Instruments and related products	314	291	23	120	195	262	260	2	78	184
Other	101	88	13	15	86	88	85	2	17	71
Wholesale trade	698	532	166	243	456	758	667	90	460	298
Motor vehicles and equipment	27	15	12	27	0	(D)	28	(D)	(D)	32
Professional and commercial equipment and supplies	24	12	12	7	17	3	0	3	(*)	3
Metals and minerals, except petroleum	17	9	8	4	13	0	0	0	0	0
Electrical goods	102	86	16	29	73	117	112	5	80	37
Machinery, equipment, and supplies	76	36	40	27	49	(D)	(D)	(D)	(D)	43
Other durable goods	48	45	4	4	44	82	(D)	(D)	59	24
Groceries and related products	100	70	30	31	69	40	40	0	0	40
Farm-product raw materials	1	0	1	1	0	0	0	0	0	0
Other nondurable goods	303	259	44	113	190	429	423	6	310	119
Retail trade	256	245	11	42	214	1,560	1,511	49	170	1,390
General merchandise stores	(D)	0	(D)	4	(D)	0	0	0	0	0
Food stores	44	42	3	14	30	(D)	(D)	0	(D)	(D)
Apparel and accessory stores	(D)	(D)	0	2	(D)	1	0	1	1	0
Other	183	(D)	(D)	21	162	(D)	(D)	48	(D)	(D)
Banking¹	529	529	0	24	505	1,071	1,046	25	36	1,036
Finance, except banking¹	797	258	539	287	510	1,166	709	457	692	473
Insurance	291	120	171	18	273	921	559	361	361	560
Real estate	2,161	400	1,762	761	1,401	1,610	410	1,200	629	981
Services	2,023	1,683	340	389	1,634	3,934	3,790	144	2,577	1,357
Hotels and other lodging places	606	381	225	229	377	424	385	40	268	157
Business services	437	384	53	37	400	(D)	(D)	(D)	(D)	329
Computer and data processing services	137	130	7	31	106	255	252	3	75	179
Other business services	300	254	46	5	295	(D)	(D)	(D)	(D)	149
Motion pictures, including television tape and film	(D)	7	7	3	(D)	(D)	(D)	(D)	(D)	0
Engineering, architectural, and surveying services	24	24	0	19	5	(D)	19	(D)	0	(D)
Accounting, research, management, and related services	(D)	(D)	6	6	(D)	134	121	12	(D)	(D)
Health services	134	132	2	0	134	113	109	5	57	56
Other services	207	159	48	96	111	828	767	61	54	774
Other industries	2,101	1,834	267	266	1,835	1,971	1,700	271	692	1,279
Agriculture, forestry, and fishing	58	6	52	44	14	(D)	0	(D)	6	(D)
Mining	934	898	35	5	929	(D)	(D)	32	9	(D)
Coal	(D)	7	0	0	(D)	(D)	(D)	0	0	(D)
Other	(D)	(D)	28	5	(D)	62	30	32	9	53
Construction	(D)	0	0	0	(D)	98	98	(*)	15	84
Transportation	(D)	(D)	14	(D)	(D)	(D)	(D)	(D)	(D)	2
Communication and public utilities	874	709	165	195	679	560	361	199	(D)	(D)

^a Revised.^b Preliminary.^c Suppressed to avoid disclosure of data of individual companies.

* Less than \$500,000.

1. Beginning with 1992, savings institutions and credit unions have been reclassified from "finance, except banking" to "banking." See footnote 6 in text for further explanation.

of the outlays made by existing U.S. affiliates were financed with funds provided by foreign parents or other members of the foreign parent groups.⁷ (Transactions by source of funding are discussed in more detail later in the article.)

By industry

By industry of the U.S. businesses acquired or established, outlays in manufacturing, at \$12.4 billion, were the largest (table 4). Within manufacturing, outlays were largest in chemicals and allied products, machinery, and "other manufacturing."

In chemicals, outlays were \$5.7 billion. Four investments dominated the transactions. First, a U.S. affiliate of a British company acquired an industrial-chemicals producer. Second, a U.S. affiliate of a German company acquired a drug

manufacturer. Third, a U.S. affiliate of a British company acquired the chemical-products business of a U.S. drug manufacturer that, like several other large U.S. drug companies, was divesting itself of operations outside its core health-care business. Fourth, a U.S. affiliate of a Swiss company acquired a toiletry manufacturer. In two other sizable transactions, a U.S. affiliate of a British company established a joint venture with a chemical company, and a U.S. affiliate of a French company acquired a drug manufacturer.

In machinery, outlays were \$2.0 billion. Two transactions were particularly large. One was the acquisition of an electrical-products business of a U.S. company by a U.S. affiliate of a German company; the U.S. company's divestiture of the unit reflected its strategy of concentrating more on its core telecommunications operations. In the other transaction, an Israeli company acquired a computer and office equipment company.

7. Foreign parent groups consist of the foreign parents and their foreign (non-U.S.) affiliates.

Table 4.—Investment Outlays by Industry of U.S. Business Enterprise and by Country of Ultimate Beneficial Owner, 1987–93

[Millions of dollars]

	1987	1988	1989	1990	1991	1992 ^r	1993 ^p
Total	40,310	72,692	71,163	65,932	25,538	15,333	26,182
By industry:							
Petroleum	1,107	4,740	1,189	1,141	702	463	774
Manufacturing	19,751	36,136	35,958	23,898	11,461	6,014	12,418
Food and kindred products	4,177	3,287	6,515	997	1,247	404	1,387
Chemicals and allied products	4,041	2,918	11,584	7,518	2,897	1,644	5,729
Primary and fabricated metals	1,091	3,394	3,545	2,447	797	1,187	1,388
Machinery	2,834	7,737	4,346	3,795	4,929	1,002	1,952
Other manufacturing	7,608	18,800	9,969	9,141	1,591	1,778	1,962
Wholesale trade	1,271	2,454	2,634	1,676	623	698	758
Retail trade	1,212	8,022	1,861	1,250	1,605	256	1,560
Banking ¹	924	1,800	349	897	482	529	1,071
Finance, except banking ¹	1,604	972	4,186	2,121	2,199	797	1,166
Insurance	165	5,855	1,901	2,093	2,102	291	921
Real estate	4,765	3,518	6,438	7,771	3,823	2,161	1,610
Services	7,630	5,597	10,058	19,369	2,256	2,023	3,934
Other industries	1,881	3,597	6,587	5,716	284	2,101	1,971
By country²:							
Canada	1,276	11,360	4,403	3,430	3,454	1,351	3,999
Europe	25,517	37,173	40,724	36,011	13,994	8,344	17,127
France	2,044	4,199	3,469	10,217	4,976	406	1,078
Germany ³	4,664	2,090	2,435	2,363	1,922	1,964	3,140
Netherlands	391	2,214	3,629	2,247	1,661	1,331	1,528
United Kingdom	15,142	22,559	23,047	13,096	2,169	2,255	9,031
Other Europe	3,276	6,111	8,144	8,088	3,266	2,388	2,350
Latin America and Other Western Hemisphere	1,483	(^D)	1,084	796	375	1,438	779
South and Central America	355	(^D)	650	399	108	1,152	545
Other Western Hemisphere	1,128	187	434	397	267	286	234
Africa	(^D)	296	(^D)	(^D)	(^D)	(^D)	(^D)
Middle East	925	1,613	243	472	1,006	238	1,369
Asia and Pacific	10,928	21,819	24,530	23,170	6,560	3,716	2,744
Australia	2,691	4,556	4,574	1,412	251	164	125
Japan	7,006	16,188	17,410	19,933	5,357	2,921	1,848
Other Asia and Pacific	1,231	1,075	2,546	1,825	952	631	771
United States ⁴	(^D)	(^D)	(^{D})	(^{D})	(^{D})	(^{D})	(^{D})
Addenda:							
European Communities (12) ⁵	22,895	33,737	33,869	30,741	12,007	6,862	15,999
OPEC ⁶	1,077	1,919	430	387	1,119	458	561

^r Revised.

^p Preliminary.

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

1. Prior to 1992, "banking" excludes, and "finance, except banking" includes savings institutions and credit unions. Beginning with 1992, savings institutions and credit unions have been reclassified from "finance, except banking" to "banking." See footnote 6 in text for further explanation.

2. Where more than one investor participated in a given investment, each investor and each investor's outlays are classified by country of each ultimate beneficial owner.

3. Prior to 1990, this line includes data only for the Federal Republic of Germany. Beginning

in 1990, this line also includes the former German Democratic Republic (GDR). This change has no effect on the data because, prior to 1991, there were no U.S. affiliates of the former GDR.

4. See footnote 4 in text for explanation.

5. European Communities (12) comprises Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, and the United Kingdom.

6. OPEC, the Organization of Petroleum Exporting Countries, comprises Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. Before January 1, 1993, Ecuador was also a member of OPEC; its data are included in this line through 1992.

In "other manufacturing," outlays were \$2.0 billion. The largest transaction was the acquisition of a paper-products company by a U.S. affiliate of a British company.

In the remaining manufacturing industries, outlays were \$1.4 billion in both primary and fabricated metals and food and kindred products. In metals, a U.S. affiliate of a Canadian company acquired a heating equipment manufacturer, and a U.S. affiliate of a British company acquired a hardware-products manufacturer.

In food, five transactions dominated. A U.S. affiliate of a British company acquired a beverages company, and a U.S. affiliate of a Netherlands company acquired two dairy-products companies. Two U.S. affiliates of a British company each acquired a company: One acquired a beverages company, and the other acquired a producer of grain mill products.

Outside manufacturing, outlays were largest, at \$3.9 billion, in services. Among the largest investments, a Canadian company acquired a minority interest in a company in the motion picture and television industry, a U.S. affiliate of a Japanese company acquired an educational services company, and a U.S. affiliate of a German company acquired a computer services company. Another large transaction was an Asian investor's acquisition of a hotel.

Outlays ranged from \$1.0 to \$2.0 billion in "other industries," real estate, retail trade, finance (except banking), and banking. In the largest transactions in "other industries," a U.S. affiliate of a British company acquired two mining companies, a British company acquired a minority interest in an air transportation company, and a U.S. affiliate of a British company acquired a gas company. In real estate, the largest transactions were by Japanese and Netherlands investors. In the largest transactions in retail trade, a U.S. affiliate of a Middle Eastern company acquired a retailer, and a U.S. affiliate of a Venezuelan company acquired a food store chain. In finance (except banking), the largest transaction was a Netherlands company's acquisition of a franchising company. In banking, three acquisitions dominated—one by a U.S. affiliate of a British bank and the other two by a U.S. affiliate of a Spanish bank.

By country

In 1993, ultimate beneficial owners (UBO's) in European countries accounted for \$17.1 billion, or 65 percent, of total outlays, and UBO's in Canada accounted for \$4.0 billion, or 15 percent.

Within Europe, most outlays were accounted for by British, German, and Netherlands UBO's. Outlays of Japanese UBO's, at \$1.8 billion, were the lowest since 1985. UBO's in 15 countries had at least one investment of \$100 million or more. (Most of the transactions covered in this section were mentioned in the preceding section on outlays by industry.)

Outlays of British UBO's in 1993 were \$9.0 billion—four times outlays in 1992 (tables 5.1 and 5.2). The increase probably partly reflected the economic recovery in the United Kingdom. The largest transaction by British UBO's was the acquisition of the industrial-chemicals company. In addition, all four of the largest transactions in "other industries" were by British UBO's; of these, the largest transaction was the acquisition of one of the two mining companies. Other sizable British acquisitions were in food and kindred products, banking, and "other manufacturing."

Outlays of German UBO's were \$3.1 billion, up from \$2.0 billion. The largest transaction was the acquisition of the electrical-products business. Other sizable German acquisitions were in chemicals, finance (except banking), "other manufacturing," and services.

Outlays of Netherlands UBO's were \$1.5 billion, up from \$1.3 billion. Most of the 1993 outlays reflected the purchases of the franchising company and the two dairy-products companies.

Outlays of Canadian UBO's were \$4.0 billion, up from \$1.4 billion. The largest investment was the acquisition of a minority stake in the company in the motion picture and television industry. In addition, Canadian UBO's accounted for the three largest acquisitions in primary and fabricated metals.

Outlays of Japanese UBO's were \$1.8 billion, down from \$2.9 billion. The 38-percent reduction in outlays followed even sharper reductions in 1992 and 1991 (45 percent and 73 percent, respectively) and left outlays of Japanese UBO's at only a fraction of their 1990 peak of \$19.9 billion. Among Japanese UBO transactions in 1993, the largest was the acquisition of the educational services company. Other sizable Japanese acquisitions were in finance (except banking), wholesale trade, and real estate.

The declines in the outlays of Japanese UBO's stemmed from several factors in Japan and in the United States. In Japan, the ability of investors to finance new investments was constrained by the continuing economic recession, a sluggish stock market, reduced corporate profits, and the continued reluctance among banks to finance new

Table 5.1.—Investment Outlays, Country of Ultimate Beneficial Owner by Industry of U.S. Business Enterprise, 1992

[Millions of dollars]

	All industries	Petroleum	Manufacturing						Wholesale trade	Retail trade	Banking ¹	Finance, except banking ¹	Insurance	Real estate	Services	Other industries
			Total	Food and kindred products	Chemicals and allied products	Primary and fabricated metals	Machinery	Other manufacturing								
All countries	15,333	463	6,014	404	1,644	1,187	1,002	1,778	698	256	529	797	291	2,161	2,023	2,101
Canada	1,351	99	502	32	49	30	(P)	(P)	87	41	5	(P)	(P)	256	168	(P)
Europe	8,344	115	3,577	337	1,411	421	665	743	183	160	(P)	311	244	873	1,052	(P)
Austria	6	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0
Belgium	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	(P)
Denmark	3	0	2	0	0	0	0	2	0	0	0	0	0	0	0	(*)
Finland	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0
France	406	0	333	0	1	(P)	5	(P)	(P)	0	1	0	(P)	0	(P)	11
Germany	1,964	(*)	1,223	0	781	35	370	37	(P)	4	0	87	0	318	13	(P)
Ireland	17	0	1	0	0	0	0	1	0	0	0	0	0	12	4	0
Italy	228	0	(P)	4	(*)	0	0	(P)	2	0	0	0	0	0	(P)	0
Liechtenstein	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	3	(P)
Luxembourg	5	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
Netherlands	1,331	0	456	(P)	(P)	3	(P)	(P)	(P)	(P)	(P)	2	(P)	186	76	(P)
Norway	(P)	0	4	0	4	0	0	0	0	0	0	0	0	(P)	0	0
Spain	(P)	0	0	0	0	0	0	0	0	0	0	(*)	0	0	(P)	(P)
Sweden	152	0	(P)	0	1	(P)	(P)	57	(P)	0	0	5	0	2	(P)	0
Switzerland	1,259	0	148	(P)	0	3	30	(P)	6	(P)	0	(P)	0	108	(P)	(P)
United Kingdom	2,255	115	1,150	(P)	(P)	129	210	(P)	31	83	(P)	(P)	(P)	210	211	(P)
Other	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Latin America and Other Western Hemisphere	1,438	(*)	425	(P)	(P)	0	0	(P)	(P)	6	(P)	(P)	(P)	162	209	(P)
South and Central America	1,152	(*)	(P)	(P)	(P)	0	0	(P)	3	6	(P)	4	0	108	119	(P)
Brazil	25	0	0	0	0	0	0	0	0	3	0	0	0	13	(P)	(P)
Mexico	979	0	(P)	0	0	0	0	0	2	0	5	4	0	(P)	109	(P)
Panama	73	0	(P)	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Venezuela	(P)	(*)	(P)	0	(P)	0	0	0	0	0	0	0	0	0	0	0
Other	(P)	0	(P)	(P)	0	0	0	0	1	3	(P)	0	0	3	(P)	0
Other Western Hemisphere	286	0	(P)	(*)	0	0	0	(P)	(P)	0	0	(P)	(P)	54	91	21
Bahamas	29	0	0	0	0	0	0	0	0	0	0	0	0	6	(P)	(P)
Bermuda	58	0	0	0	0	0	0	0	0	0	0	0	(P)	1	(P)	(*)
Netherlands Antilles	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom Islands, Caribbean	151	0	(P)	0	0	0	0	(P)	(P)	0	0	(P)	0	47	(P)	(*)
Other	(P)	0	(*)	(*)	0	0	0	0	0	0	0	0	0	0	0	(P)
Africa	(P)	(P)	(P)	0	(P)	0	0	0	(P)	0	0	0	0	1	0	(*)
South Africa	16	0	(P)	0	0	0	0	0	(P)	0	0	0	0	0	0	0
Other	(P)	(P)	0	0	0	0	0	0	0	0	0	0	0	1	0	(*)
Middle East	238	0	80	(P)	0	0	0	(P)	0	0	0	(P)	0	136	(P)	0
Israel	(P)	0	(P)	(P)	0	0	0	(P)	0	0	0	0	0	0	(*)	0
Kuwait	83	0	1	0	0	0	0	1	0	0	0	15	0	67	0	0
Lebanon	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Saudi Arabia	85	0	(P)	0	0	0	0	(P)	0	0	0	(P)	0	48	(P)	0
United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Asia and Pacific	3,716	(P)	1,422	(P)	123	736	(P)	249	332	48	(P)	418	(P)	734	584	80
Australia	164	0	157	0	0	(P)	(P)	(P)	2	0	0	0	0	(*)	3	2
Hong Kong	338	0	5	0	0	0	5	0	(P)	0	0	(P)	0	107	199	0
Japan	2,921	(P)	1,235	(P)	(P)	(P)	230	(P)	165	45	(P)	406	(P)	577	358	53
Korea, Republic of	20	0	0	0	0	0	0	0	8	3	0	0	0	(P)	0	(P)
Malaysia	(P)	0	(P)	0	0	0	(P)	0	0	0	0	0	0	0	0	0
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Philippines	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Singapore	120	0	7	0	0	0	7	0	(P)	0	(P)	0	0	(P)	0	(P)
Taiwan	102	0	(P)	0	(P)	0	1	0	(P)	0	0	0	0	(P)	(P)	0
Other	45	3	(*)	0	0	0	0	(*)	7	0	(P)	0	1	3	(P)	0
United States ²	(P)	0	(P)	(P)	0	0	0	0	(P)	0	0	0	0	0	(P)	0
Addenda:																
European Communities (12) ³	6,862	115	3,301	327	1,406	387	600	582	157	132	(P)	152	244	735	409	(P)
OPEC ⁴	458	(P)	89	(P)	(P)	0	0	(P)	2	3	(P)	18	0	118	4	0

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

* Less than \$500,000.

1. See footnote 1, table 3.

2. See footnote 4 in text for explanation.

3. See footnote 5, table 4.

4. See footnote 6, table 4.

NOTE.—Data for 1992 are revised. Where more than one investor participated in a given investment, each investor and each investor's outlays are classified by the country of each individual ultimate beneficial owner.

Table 5.2.—Investment Outlays, Country of Ultimate Beneficial Owner by Industry of U.S. Business Enterprise, 1993

[Millions of dollars]

	All industries	Petroleum	Manufacturing						Wholesale trade	Retail trade	Banking ¹	Finance, except banking ¹	Insurance	Real estate	Services	Other industries
			Total	Food and kindred products	Chemicals and allied products	Primary and fabricated metals	Machinery	Other manufacturing								
All countries	26,182	774	12,418	1,387	5,729	1,388	1,952	1,962	758	1,560	1,071	1,166	921	1,610	3,934	1,971
Canada	3,999	3	1,349	(P)	(P)	999	(P)	306	(P)	2	0	5	0	175	(P)	(P)
Europe	17,127	(P)	10,130	1,355	5,638	365	1,457	1,314	268	740	(P)	786	918	950	(P)	1,548
Austria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Belgium	(P)	0	0	0	0	0	0	0	0	0	0	1	0	0	(P)	0
Denmark	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0
Finland	82	0	71	0	0	0	(P)	(P)	0	0	0	0	0	0	(P)	(P)
France	1,078	4	369	3	(P)	(P)	104	(P)	18	(P)	0	38	(P)	4	6	30
Germany	3,140	(P)	2,146	0	(P)	(P)	(P)	219	(P)	168	0	(P)	0	188	(P)	108
Ireland	(P)	0	(P)	0	0	0	0	(P)	(P)	0	0	0	0	0	0	0
Italy	168	0	62	(P)	0	(P)	(P)	(P)	3	0	0	(P)	0	(P)	0	9
Liechtenstein	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Luxembourg	(P)	0	0	0	0	0	0	(P)	3	0	0	0	0	5	0	0
Netherlands	1,528	0	(P)	(P)	5	(P)	0	(P)	(P)	(P)	0	(P)	(P)	284	(P)	(P)
Norway	(P)	0	0	0	0	0	0	(P)	0	0	0	0	0	0	(P)	0
Spain	(P)	0	2	0	0	0	2	0	0	0	(P)	0	0	(P)	0	(P)
Sweden	130	0	(P)	0	0	0	(P)	0	0	0	0	3	0	(P)	3	0
Switzerland	872	0	(P)	(P)	(P)	0	(P)	8	(P)	0	0	2	(P)	18	0	13
United Kingdom	9,031	(P)	6,205	755	(P)	246	62	(P)	118	304	(P)	(P)	5	(P)	234	1,362
Other	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(P)
Latin America and Other Western Hemisphere	779	(P)	(P)	23	0	(P)	(P)	(P)	125	(P)	0	(P)	2	45	48	(P)
South and Central America	545	(P)	(P)	(P)	0	(P)	(*)	(P)	6	(P)	0	(P)	2	36	(P)	(P)
Brazil	27	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Mexico	67	0	5	(P)	0	0	(*)	(P)	6	0	0	(P)	2	(P)	2	0
Panama	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Venezuela	440	(P)	(P)	0	0	(P)	0	0	0	(P)	0	0	0	0	0	(P)
Other	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	0
Other Western Hemisphere	234	4	39	(P)	0	0	(P)	(P)	119	(P)	0	0	0	9	(P)	(P)
Bahamas	(P)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bermuda	68	(P)	0	(P)	0	0	0	0	(P)	0	0	0	0	0	(*)	0
Netherlands Antilles	54	0	(P)	0	0	0	(P)	0	2	0	0	0	0	0	(P)	(P)
United Kingdom Islands, Caribbean	39	0	(P)	0	0	0	2	0	0	(P)	0	0	0	9	0	0
Other	(P)	0	(P)	0	0	0	0	(P)	0	0	0	0	0	0	(P)	0
Africa	(P)	(P)	0	0	0	0	0	0	(P)	0	0	0	0	3	0	(P)
South Africa	(P)	0	0	0	0	0	0	0	0	0	0	0	0	(*)	0	(P)
Other	(P)	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Middle East	1,369	(P)	379	0	0	0	(P)	(P)	0	(P)	0	0	0	53	9	(P)
Israel	(P)	0	379	0	0	0	(P)	(P)	0	0	0	0	0	0	9	0
Kuwait	7	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
Lebanon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	70	0	0	0	0	0	0	0	0	0	0	0	0	(P)	0	(P)
United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	(P)	(P)	0	0	0	0	0	0	0	(P)	0	0	0	(P)	0	0
Asia and Pacific	2,744	19	492	(P)	50	(P)	94	325	290	(P)	(P)	318	0	385	1,098	93
Australia	125	0	(P)	0	0	0	0	0	0	0	0	0	0	1	(P)	0
Hong Kong	251	0	0	0	0	0	0	0	(P)	0	0	2	0	108	(P)	0
Japan	1,848	(P)	281	(P)	40	(P)	66	163	(P)	(P)	3	316	0	271	682	72
Korea, Republic of	39	0	7	(P)	0	(P)	0	0	(P)	0	0	0	0	0	(P)	0
Malaysia	46	(P)	(P)	0	0	0	(P)	0	(P)	0	0	0	0	0	(P)	0
New Zealand	(*)	0	0	0	0	0	0	0	0	0	0	0	0	0	(*)	(*)
Philippines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	114	0	96	0	0	(P)	(P)	(P)	(P)	0	0	0	0	0	4	(P)
Taiwan	26	0	(P)	0	(P)	0	7	(*)	0	0	(P)	0	0	0	0	0
Other	295	0	(P)	0	0	(P)	0	(P)	0	0	0	0	0	5	(P)	(P)
United States ²	(P)	0	(P)	0	(P)	0	0	0	3	2	0	(P)	0	0	(P)	(P)
Addenda:																
European Communities (12) ³	15,999	(P)	9,684	1,264	5,401	365	1,394	1,261	225	740	1,058	781	(P)	830	533	1,521
OPEC ⁴	561	98	(P)	0	0	(P)	0	(P)	0	(P)	0	0	0	50	(P)	(P)

P Suppressed to avoid disclosure of data of individual companies.

* Less than \$500,000.

1. See footnote 1, table 3.

2. See footnote 4 in text for explanation.

3. See footnote 5, table 4.

4. See footnote 6, table 4.

NOTE.—Data for 1993 are preliminary. Where more than one investor participated in a given investment, each investor and each investor's outlays are classified by the country of each individual ultimate beneficial owner.

investments. In the United States, disappointing results from earlier investments by Japanese UBO's may have made Japanese investors more cautious. In particular, investment in the real estate industry—the industry in which Japanese UBO's have been the largest foreign investors—has been dampened by reduced property values, depressed rental rates for commercial office space, and high office vacancy rates. Japanese UBO's accounted for less than one-fifth of total outlays in real estate in 1993, down from nearly one-third in 1991–92 and from over one-half in 1988–90.

By source of funding

Of the \$26.2 billion in total outlays in 1993, \$11.8 billion, or 45 percent, was provided by foreign parent groups. Although the level of funds provided by foreign parent groups was up substantially from the 1992 level of \$7.8 billion, these funds accounted for a smaller share of total outlays in 1993 than in 1992 (table 6). These funds were used to finance investments made both directly by foreign parents and indirectly through

U.S. affiliates. The increase in funds from foreign parent groups contributed to the sharp overall increase in net capital inflows for foreign direct investment in the United States (FDIUS) in 1993.⁸

The remaining \$14.4 billion, or 55 percent, of 1993 outlays was funded by U.S. affiliates from sources other than their foreign parent groups. For example, the U.S. affiliates may have borrowed funds from unaffiliated U.S. or foreign persons, or they may have generated the funds internally. In 1992, these other funding sources financed 49 percent of outlays.

By industry, the percentage of financing by foreign parent groups was significantly above the all-industries average in insurance, finance (except banking), and wholesale trade. It was significantly below the average in banking, retail trade, petroleum, and real estate.

8. In 1993, capital inflows for FDIUS were \$31.5 billion, up from \$2.4 billion in 1992. The preliminary estimates of capital inflows for FDIUS in 1993 were published in table 5 of "U.S. International Transactions, Fourth Quarter and Year 1993," SURVEY 74 (March 1994): 74. Revised estimates will appear in the June 1994 SURVEY.

Table 6.—Source of Funding of Investment Outlays, by Industry of U.S. Business Enterprise and by Country of Ultimate Beneficial Owner, 1992–93

	1992 ^r				1993 ^p			
	Millions of dollars			Funds from foreign parent groups as a percent of total	Millions of dollars			Funds from foreign parent groups as a percent of total
	Total outlays	Funds from foreign parent groups	Other		Total outlays	Funds from foreign parent groups	Other	
Total	15,333	7,808	7,525	51	26,182	11,818	14,364	45
By industry:								
Petroleum	463	(^D)	(^D)	(^D)	774	274	500	35
Manufacturing	6,014	3,669	2,345	61	12,418	6,016	6,402	48
Wholesale trade	698	439	259	63	758	408	350	54
Retail trade	256	155	101	61	1,560	377	1,183	24
Banking ¹	529	(^D)	(^D)	(^D)	1,071	131	940	12
Finance, except banking ¹	797	269	528	34	1,166	626	540	54
Insurance	291	64	227	22	921	781	140	85
Real estate	2,161	1,283	878	59	1,610	607	1,003	38
Services	2,023	1,132	891	56	3,934	1,666	2,268	42
Other industries	2,101	473	1,628	23	1,971	932	1,039	47
By country²:								
Canada	1,351	613	738	45	3,999	1,685	2,314	42
Europe	8,344	4,310	4,034	52	17,127	7,674	9,453	45
France	406	299	107	74	1,078	656	422	61
Germany	1,964	909	1,055	46	3,140	1,438	1,702	46
United Kingdom	2,255	1,309	946	58	9,031	3,488	5,543	39
Other	3,719	1,793	1,926	48	3,878	2,092	1,786	54
Latin America and Other Western Hemisphere	1,438	735	703	51	779	321	458	41
Africa	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)
Middle East	238	183	55	77	1,369	751	618	55
Asia and Pacific	3,716	1,947	1,769	52	2,744	1,308	1,436	48
Japan	2,921	1,557	1,364	53	1,848	813	1,035	44
Other	795	390	405	49	896	495	401	55
United States ³	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)	(^D)
Addenda:								
European Communities (12) ⁴	6,862	3,363	3,499	49	15,999	6,749	9,250	42
OPEC ⁵	458	200	258	44	561	135	426	24

^r Revised.

^p Preliminary.

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

1. See footnote 1, table 3.

2. See footnote 2, table 4.

3. See footnote 4, table 4.

4. See footnote 5, table 4.

5. See footnote 6, table 4.

By area, the percentage of financing by foreign parent groups was above the all-countries average for UBO's in the Middle East, was about in line with the average for UBO's in Europe, and was below the average for UBO's in "Latin America and Other Western Hemisphere" and Canada. Within Europe, the share of French investment financed by foreign parent groups was significantly above average, whereas the share of British investment financed by foreign parent groups was significantly below average.

Selected Operating Data

The total assets of U.S. businesses acquired or established by foreign direct investors were \$97.1 billion in 1993, up from \$35.7 billion in 1992 (tables 8.1 and 8.2). The assets of the businesses acquired in 1993, at \$88.7 billion, were substantially larger than those of the businesses established, at \$8.4 billion.

Most of the total assets of U.S. businesses acquired or established were accounted for by assets in manufacturing and services. Within manufacturing, assets in chemicals and machinery were largest. In services, assets in the motion picture and television industry were largest.

U.S. businesses acquired in 1993 employed 306,000 workers. Manufacturing accounted for the largest share of these employees (28 percent); services and "other industries" also accounted for large shares (26 percent and 22 percent, respectively). Newly established businesses employed 7,000 workers.

Table 7.—Rates of Return on Sales of Newly Acquired U.S. Businesses, 1987–93¹

Year of acquisition	Number of affiliates	Percent of affiliates with return on sales in the indicated range ²					
		–20.0 percent or less	–10.0 percent to –19.9 percent	0.0 percent to –9.9 percent	Over 0.0 percent to 9.9 percent	10.0 percent to 19.9 percent	20.0 percent or more
1987	504	8	4	25	50	8	5
1988	828	9	4	19	49	11	7
1989	782	12	4	22	42	10	10
1990	799	13	7	21	40	10	9
1991	529	11	6	23	42	10	8
1992 ^p ..	438	11	7	24	38	9	10
1993 ^p ..	377	14	6	22	41	11	6

^r Revised.

^p Preliminary.

1. The figures in this table exclude investments in real estate, in which the return to investors is often realized in a form other than current net income (for example, capital gains).

2. Rates of return are for the year prior to the year of acquisition.

Foreign investors obtained 287,000 acres of U.S. land as a result of acquisitions in 1993. Affiliates in "other industries," mainly mining, accounted for most of the acreage obtained. Foreign investors obtained 40,000 acres by establishing new businesses, including purchases of real estate.

Net income.—As in 1991–92, U.S. businesses acquired by foreign investors in 1993 had losses in the year before they were acquired.⁹ However, the rates of profitability—measured as net income per dollar of sales—varied considerably among these businesses. Throughout 1987–93, roughly 60 percent of acquired businesses were profitable, and a substantial portion—for example, 17 percent in 1993 and 19 percent in

9. This discussion is limited to the net income of newly acquired businesses because the net income figures for newly established businesses are not actual operating results but rather are projections for the first full year of operations. The projections may not be realized, and even if they are, they may reflect start-up costs and less-than-full production.

Data Availability

Only summary data are published in this article. A set of supplementary tables containing detail on the number of investments and investors for 1987–92 and on investment outlays and selected operating data for the newly acquired or established businesses for 1987–93 will be available in July for \$18.00 from the Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. Visa or MasterCard orders may be placed by telephone at (202) 606-9827. When ordering, refer to the "BE-13 Supplementary Tables for the May 1994 SURVEY Article," Accession No. 50-94-20-105, and make checks payable to the Bureau of Economic Analysis. Comparable tables for 1980–86, Accession No. 50-89-20-106, are also available for \$18.00.

In addition to the data on new foreign direct investments presented here, BEA also publishes estimates of quarterly balance of payments flows and the annual di-

rect investment position for new and existing investments combined. Summary estimates of quarterly balance of payments flows appear in the "U.S. International Transactions" article in the March, June, September, and December issues of the SURVEY. Summary position estimates appear in the June SURVEY. More detailed annual estimates of both the flows and the position usually appear in the August issue. (In 1993, the additional detail was published in July.)

Estimates covering the operations of U.S. affiliates of foreign companies are also available from BEA. The most recent estimates appeared in the May 1993 issue of the SURVEY in "U.S. Affiliates of Foreign Companies: Operations in 1991"; preliminary estimates for 1992, which will be based upon the 1992 benchmark survey of foreign direct investment in the United States, are scheduled for publication in the SURVEY this summer.

1992—had returns on sales of 10 percent or more (table 7).¹⁰ Although some large companies had sizable losses, the profitable companies tended to be among the larger affiliates that were acquired: In both 1993 and 1992, these companies accounted for a somewhat larger share of the assets of all acquired affiliates (65 percent and 62 percent, respectively) than they did of the number of acquired affiliates.

Of the roughly 40 percent of the acquired businesses that had zero or negative returns on sales, somewhat more than one-half had rates between zero and -10 percent in both years, and somewhat fewer than one-half had rates below -10

10. These figures exclude investments in real estate, in which the return to investors is often realized in a form other than current net income (for example, capital gains).

percent. Some foreign investors may have acquired unprofitable businesses in order to gain access to the large U.S. market, to obtain advanced technologies or scarce raw materials, or to realize scale economies or technological efficiencies in other parts of their worldwide operations.¹¹ Other investors may have hoped to raise the profitability of the acquired businesses above their pre-acquisition levels.¹²

Tables 8.1 and 8.2 follow. 

11. For a discussion of these and other possible reasons for low rates of return on FDIUS, see "Rates of Return on Direct Investment," SURVEY 72 (August 1992): 79-86.

12. It has been argued that ownership changes are most likely to occur when a business and its management are poorly matched; if so, a new management may eventually succeed in earning a higher return. For a summary of this argument, in a slightly different context, see Robert H. McGuckin and Sang V. Nguyen, "On Productivity and Plant Ownership Change: New Evidence from the LRD," Bureau of the Census, Center for Economic Studies Discussion Paper CES 93-15.

Table 8.1.—Total Assets, Sales, Net Income, Employment, and Acres of Land Owned by U.S. Business Enterprises Acquired or Established, by Industry of U.S. Business Enterprise, 1992

[Millions of dollars unless otherwise indicated]

	Total assets of all U.S. business enterprises acquired or established	U.S. business enterprises acquired					U.S. business enterprises established				
		Total assets	Sales ¹	Net income	Number of employees	Number of acres of land owned	Total assets	Sales ¹	Net income	Number of employees	Number of acres of land owned
All industries	35,652	24,728	21,498	-316	120,601	131,030	10,923	4,914	114	20,882	93,391
Petroleum	1,040	1,001	(P)	80	1,184	215	38	7	-5	(P)	0
Petroleum and coal products manufacturing	(P)	(P)	(P)	(*)	(P)	(P)	0	0	0	0	0
Other	(P)	(P)	(P)	80	(P)	(P)	38	7	-5	(P)	0
Manufacturing	8,201	5,894	7,509	-254	55,450	5,817	2,306	2,586	69	12,967	1,810
Food and kindred products	666	300	477	17	3,131	364	366	474	14	1,085	128
Beverages	26	6	2	(*)	(P)	(P)	20	(P)	-1	(P)	(P)
Other	639	294	475	17	(P)	(P)	346	(P)	15	(P)	(P)
Chemicals and allied products	1,896	1,793	1,820	53	7,573	1,391	104	(P)	1	98	(P)
Industrial chemicals and synthetics	501	(P)	417	-2	(P)	(P)	(P)	1	(P)	(P)	(P)
Drugs	(P)	(P)	(P)	-11	1,004	0	(P)	(P)	(P)	(P)	(P)
Soap, cleaners, and toilet goods	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Other	731	714	951	(P)	4,151	949	17	3	-4	(P)	0
Primary and fabricated metals	1,581	1,134	1,615	-40	9,624	2,367	447	(P)	-8	536	(P)
Primary metal industries	1,042	650	890	-44	5,229	2,046	392	(P)	(P)	304	(P)
Ferrous	(P)	(P)	(P)	(P)	(P)	(P)	392	(P)	(P)	304	(P)
Nonferrous	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Fabricated metal products	539	485	725	4	4,395	321	55	24	(P)	232	(P)
Machinery	1,408	787	916	-23	7,921	879	621	879	29	4,146	295
Machinery, except electrical	976	422	441	-12	3,468	(P)	554	823	28	(P)	256
Office and computing machines	57	52	77	-24	588	(P)	6	7	(*)	(P)	(P)
Other	919	371	364	12	2,880	130	548	815	28	(P)	(P)
Electric and electronic equipment	432	365	475	-11	4,453	(P)	67	56	2	(P)	39
Audio, video, and communications equipment	54	(P)	64	-4	421	0	(P)	3	(P)	(P)	0
Electronic components and accessories	178	(P)	217	-9	2,097	(P)	(P)	(P)	1	(P)	(P)
Other	201	200	194	2	1,935	(P)	1	(P)	2	(P)	(P)
Other manufacturing	2,650	1,880	2,681	-261	27,201	816	769	1,059	33	7,102	99
Textile products and apparel	588	586	(P)	(P)	(P)	291	2	(P)	(P)	(P)	0
Lumber, wood, furniture, and fixtures	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0
Paper and allied products	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0
Printing and publishing	339	336	238	1	1,894	(P)	2	(P)	-1	0	0
Newspapers	4	4	2	1	(P)	(P)	0	0	0	0	0
Other	334	332	237	1	(P)	(P)	2	(P)	-1	0	0
Rubber products	2	0	0	0	0	0	1	(P)	(P)	(P)	0
Miscellaneous plastics products	299	223	227	13	2,015	104	76	(P)	-7	(P)	(P)
Stone, clay, and glass products	(P)	84	82	-6	(P)	(P)	(P)	(P)	(P)	(P)	0
Transportation equipment	170	152	295	-13	3,124	(P)	19	37	3	158	28
Motor vehicles and equipment	22	5	2	(*)	(P)	0	17	37	3	(P)	(P)
Other transportation equipment	148	146	293	-13	(P)	0	2	(P)	0	(P)	(P)
Instruments and related products	228	(P)	206	-13	2,021	(P)	(P)	(P)	(P)	(P)	0
Other	93	(P)	146	8	1,425	29	(P)	(P)	1	(P)	(P)
Wholesale trade	1,712	962	1,816	22	6,139	223	749	1,321	46	1,556	20
Motor vehicles and equipment	48	(P)	(P)	2	(P)	0	(P)	(P)	-5	(P)	(P)
Professional and commercial equipment and supplies	(P)	12	(P)	-3	(P)	(P)	(P)	(P)	-8	(P)	0
Metals and minerals, except petroleum	(P)	(P)	87	(*)	98	(P)	19	(P)	(P)	30	(P)
Electrical goods	793	(P)	968	9	3,838	(P)	(P)	(P)	(P)	(P)	0
Machinery, equipment, and supplies	176	(P)	80	2	640	(P)	(P)	(P)	(P)	96	(P)
Other durable goods	96	90	319	-1	148	0	6	14	(P)	(P)	(P)
Groceries and related products	102	(P)	88	5	(P)	0	(P)	(P)	-7	(P)	0
Farm-product raw materials	(P)	0	0	0	0	0	(P)	(P)	(P)	(P)	0
Other nondurable goods	252	199	238	8	1,126	36	53	108	-1	119	0
Retail trade	1,003	964	2,629	-254	28,197	114	38	(P)	1	(P)	0
General merchandise stores	(P)	0	0	0	0	0	(P)	(P)	(P)	0	0
Food stores	182	(P)	(P)	(P)	(P)	(P)	(P)	(P)	1	0	0
Apparel and accessory stores	(P)	(P)	0	0	0	0	0	0	0	0	0
Other	793	787	1,549	(P)	17,851	(P)	5	(P)	(P)	(P)	0
Banking ²	7,450	7,450	(P)	69	2,999	(P)	0	0	0	0	0
Finance, except banking ²	3,725	885	145	8	517	(P)	2,840	(P)	6	118	(P)
Insurance	2,839	(P)	196	5	782	0	(P)	133	6	(P)	(P)
Real estate	2,610	(P)	77	-64	370	(P)	(P)	221	15	326	21,629
Services	2,242	1,795	1,214	-43	12,860	894	448	263	-3	3,922	707
Hotels and other lodging places	858	611	109	-9	2,576	87	247	119	1	2,219	(P)
Business services	657	570	575	-34	6,124	234	86	91	5	1,165	11
Computer and data processing services	119	101	194	-20	1,890	0	18	(P)	1	(P)	(P)
Other business services	538	470	381	-13	4,234	234	68	(P)	4	(P)	(P)
Motion pictures, including television tape and film	(P)	(P)	(P)	3	(P)	(P)	(P)	15	-1	(P)	0
Engineering, architectural, and surveying services	16	16	47	-1	365	0	0	0	0	0	0
Accounting, research, management, and related services	(P)	(P)	47	-6	(P)	0	10	9	1	140	(P)
Health services	104	(P)	160	3	1,723	(P)	(P)	15	(P)	(P)	(P)
Other services	277	196	182	2	1,251	560	81	13	-8	285	(P)
Other industries	4,831	(P)	4,306	116	12,103	(P)	(P)	142	-21	599	69,216
Agriculture, forestry, and fishing	65	(P)	1	-1	(P)	(P)	(P)	2	(P)	(P)	55,240
Mining	2,244	2,207	1,000	114	3,388	(P)	37	(P)	(P)	0	(P)
Coal	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0	(P)
Other	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0	(P)
Construction	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Transportation	(P)	(P)	(P)	(P)	(P)	0	36	(P)	(P)	(P)	(P)
Communication and public utilities	1,543	1,278	(P)	-32	1,837	(P)	266	(P)	(P)	18	(P)

(P) Suppressed to avoid disclosure of data of individual companies.

* Less than \$500,000 (±).

1. Sales, or gross operating revenue, excluding sales taxes.

2. See footnote 1, table 3.

NOTE.—Data for 1992 are revised. For acquired businesses, data are for, or as of the end of, the fiscal year preceding the year of acquisition; for newly established businesses, data are projections for, or as of the end of, the first full year of operation.

Table 8.2.—Total Assets, Sales, Net Income, Employment, and Acres of Land Owned by U.S. Business Enterprises Acquired or Established, by Industry of U.S. Business Enterprise, 1993
[Millions of dollars unless otherwise indicated]

	Total assets of all U.S. business enterprises acquired or established	U.S. business enterprises acquired					U.S. business enterprises established				
		Total assets	Sales ¹	Net income	Number of employees	Number of acres of land owned	Total assets	Sales ¹	Net income	Number of employees	Number of acres of land owned
All industries	97,051	88,701	51,635	-1,910	305,950	286,530	8,350	4,121	21	7,164	40,199
Petroleum	1,965	(P)	(P)	(P)	(P)	950	(P)	(P)	(P)	(P)	(P)
Petroleum and coal products manufacturing	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
Other	(P)	(P)	(P)	(P)	(P)	(P)	5	1	-3	(P)	(P)
Manufacturing	15,771	15,192	14,219	-26	86,817	(P)	580	481	25	2,480	638
Food and kindred products	1,244	(P)	1,406	-8	6,919	(P)	(P)	(P)	(P)	(P)	0
Beverages	723	(P)	371	23	1,389	(P)	0	0	0	0	0
Other	521	(P)	1,035	-31	5,530	230	(P)	(P)	(P)	(P)	0
Chemicals and allied products	7,109	7,109	3,043	(P)	15,687	10,154	0	0	0	0	0
Industrial chemicals and synthetics	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Drugs	246	246	139	-1	1,176	35	0	0	0	0	0
Soap, cleaners, and toilet goods	(P)	(P)	(P)	3	(P)	(P)	0	0	0	0	0
Other	1,020	1,020	592	-5	2,803	3,113	0	0	0	0	0
Primary and fabricated metals	1,359	1,133	1,088	(P)	7,415	1,907	226	26	4	(P)	174
Primary metal industries	597	(P)	144	4	737	(P)	(P)	(P)	4	0	(P)
Ferrous	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	4	0	(P)
Nonferrous	(P)	(P)	(P)	4	(P)	(P)	0	0	0	0	0
Fabricated metal products	762	(P)	944	(P)	6,678	(P)	(P)	(P)	(P)	(P)	(P)
Machinery	3,277	(P)	5,354	103	29,647	1,373	(P)	(P)	(P)	116	0
Machinery, except electrical	1,543	(P)	3,559	6	12,800	(P)	(P)	(P)	(P)	(P)	0
Office and computing machines	551	(P)	1,508	-1	3,924	(P)	(P)	(P)	(P)	(P)	0
Other	992	987	2,051	7	8,876	273	5	0	0	0	0
Electric and electronic equipment	1,734	(P)	1,795	96	16,847	(P)	(P)	1	1	(P)	0
Audio, video, and communications equipment	61	(P)	57	(P)	(P)	(P)	0	0	0	0	0
Electronic components and accessories	(P)	(P)	(P)	(P)	2,006	(P)	0	0	0	0	0
Other	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Other manufacturing	2,783	2,456	3,327	153	27,149	8,706	327	441	29	2,245	464
Textile products and apparel	402	(P)	972	(P)	9,227	107	(P)	(P)	(P)	(P)	0
Lumber, wood, furniture, and fixtures	(P)	(P)	(P)	1	(P)	(P)	0	0	0	0	0
Paper and allied products	555	(P)	7	(P)	(P)	(P)	(P)	(P)	0	0	(P)
Printing and publishing	295	293	429	-24	4,620	(P)	2	(P)	1	0	(P)
Newspapers	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Other	(P)	(P)	(P)	(P)	(P)	(P)	2	(P)	1	0	(P)
Rubber products	1	1	3	(P)	(P)	(P)	0	0	0	0	0
Miscellaneous plastics products	218	215	290	(P)	2,236	138	3	0	0	0	(P)
Stone, clay, and glass products	535	533	377	-4	3,584	7,931	2	1	0	0	0
Transportation equipment	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	1,893	157
Motor vehicles and equipment	(P)	(P)	(P)	-1	(P)	(P)	0	0	0	0	(P)
Other transportation equipment	(P)	(P)	(P)	1	(P)	(P)	5	5	(P)	(P)	(P)
Instruments and related products	427	426	405	11	3,078	128	2	0	-1	0	0
Other	78	77	106	-1	873	(P)	1	5	0	0	0
Wholesale trade	1,299	1,074	2,209	16	7,381	925	225	154	-19	735	0
Motor vehicles and equipment	41	31	(P)	-1	(P)	(P)	11	(P)	(P)	(P)	0
Professional and commercial equipment and supplies	0	0	0	0	0	0	(P)	(P)	(P)	(P)	0
Metals and minerals, except petroleum	0	0	0	0	0	0	0	0	0	0	0
Electrical goods	(P)	(P)	919	4	(P)	(P)	20	(P)	-1	112	0
Machinery, equipment, and supplies	(P)	(P)	(P)	-1	(P)	(P)	0	(P)	(P)	8	0
Other durable goods	218	(P)	130	(P)	652	(P)	(P)	(P)	(P)	(P)	0
Groceries and related products	44	44	152	3	1,044	(P)	0	0	0	0	0
Farm-product raw materials	0	0	0	0	0	0	0	0	0	0	0
Other nondurable goods	369	362	885	11	912	93	7	4	(P)	9	0
Retail trade	(P)	(P)	4,306	42	33,653	(P)	62	74	-14	316	0
General merchandise stores	0	0	0	0	0	0	0	0	0	0	0
Food stores	(P)	(P)	(P)	3	(P)	(P)	0	0	0	0	0
Apparel and accessory stores	1	0	0	0	0	0	1	(P)	0	0	0
Other	1,139	1,079	(P)	39	(P)	(P)	60	74	-14	(P)	0
Banking ²	10,941	10,595	829	-48	4,234	(P)	346	9	-2	73	0
Finance, except banking ²	7,731	4,141	660	8	(P)	(P)	3,589	(P)	(P)	464	0
Insurance	9,812	(P)	(P)	(P)	1,584	(P)	(P)	5	-4	(P)	0
Real estate	(P)	(P)	(P)	10	(P)	(P)	1,279	(P)	20	(P)	8,184
Services	(P)	(P)	14,575	46	78,475	1,385	195	237	-5	1,269	(P)
Hotels and other lodging places	499	454	170	11	2,964	19	45	13	2	406	6
Business services	566	533	455	(P)	8,393	9	33	83	1	290	0
Computer and data processing services	331	326	183	(P)	2,171	(P)	5	(P)	3	0	0
Other business services	235	207	272	2	6,222	(P)	28	(P)	-2	0	0
Motion pictures, including television tape and film	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0
Engineering, architectural, and surveying services	40	(P)	(P)	-1	(P)	(P)	(P)	(P)	-3	0	0
Accounting, research, management, and related services	125	113	(P)	-5	1,838	0	11	(P)	-3	111	0
Health services	272	(P)	281	8	5,045	(P)	4	(P)	-1	0	0
Other services	1,018	951	409	-16	8,365	1,223	67	13	-1	(P)	(P)
Other industries	11,082	10,481	9,994	(P)	68,013	(P)	601	35	-42	258	24,882
Agriculture, forestry, and fishing	22	0	0	0	0	0	22	5	0	74	22,003
Mining	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
Coal	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0	0
Other	82	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0
Construction	167	165	498	10	2,298	(P)	2	3	0	0	0
Transportation	(P)	(P)	(P)	(P)	(P)	(P)	(P)	0	0	0	0
Communication and public utilities	870	373	230	9	1,170	(P)	497	28	-42	155	(P)

P Suppressed to avoid disclosure of data of individual companies.
 * Less than \$500,000 (±).
 1. Sales, or gross operating revenue, excluding sales taxes.
 2. See footnote 1, table 3.

NOTE.—Data for 1993 are preliminary. For acquired businesses, data are for, or as of the end of, the fiscal year preceding the year of acquisition; for newly established businesses, data are projections for, or as of the end of, the first full year of operation.

Benchmark Input-Output Accounts for the U.S. Economy, 1987: Requirements Tables

THIS REPORT COMPLETES the presentation of the 1987 benchmark input-output (I-O) accounts for the U.S. economy. An article in last month's SURVEY OF CURRENT BUSINESS discussed the procedures used for the 1987 benchmark and described the concepts and methods underlying the I-O accounts; it presented, and illustrated how to use, the I-O make table (table 1) and use table (table 2).¹ This report presents, and illustrates how to use, the three remaining basic I-O tables: The commodity-by-industry direct requirements for a dollar of industry output, the commodity-by-commodity total requirements, direct and indirect, for a dollar of delivery to final use, and the industry-by-commodity total requirements, direct and indirect, for a dollar of delivery to final use.

The commodity-by-industry direct requirements table

The commodity-by-industry direct requirements for a dollar of industry output table is presented in two parts: Table 3.1 shows the input coefficients for each commodity that an industry requires to produce a dollar of output; table 3.2 shows component detail for the value added input coefficients that an industry requires to produce a dollar of output. The input coefficients in both tables are also referred to as "direct requirements coefficients." The coefficients for total intermediate inputs plus the total value added for each industry equal 1.00000.

Tables 3.1 and 3.2 are derived from tables 2.1 and 2.2, respectively, by dividing each industry's commodity or value added component by that industry's total output. However, table 3.1, unlike table 2.1, does not include the components of final uses or gross domestic product.

In table 3.1, each column shows, for the industry named at the head of the column, the input coefficients for the commodities and for the total value added that an industry directly requires to produce a dollar of output. Each row names the commodity or the total value added that the industry requires. For example, to produce a dollar of output, the radio and TV broadcasting industry (column 67) has direct requirements for 1.60 cents (calculated as 100×0.01601 from the table) of the commodity radio and TV broadcasting (row 67) and 0.28 cent of the commodity advertising (row 73D).

In table 3.2, industries are shown in the rows, and total output, total intermediate inputs, and the components of value added required to produce a dollar of output are shown in the columns.² For example, to produce a dollar of output, the radio and TV broadcasting industry (row 67) has direct requirements for 45.79 cents of value added; these requirements consist of 33.63 cents of labor compensation, 2.04 cents of indirect business tax and non-

tax liability, and 10.12 cents of other value added. The industry has direct requirements of 54.21 cents for intermediate inputs, which are shown in detail in column 67 of table 3.1.

The information in table 3.1 can be used with the make table (table 1) to trace the changes in an industry's output, as well as the changes in that industry's total requirements for other industries' output, that result from a change in final uses of a commodity. For example, tables 1 and 3.1 can be used to trace the direct effects on all industries producing household appliances of a \$1 million increase in sales of household appliances to final users.

Table 1 shows that total output of the commodity household appliances (column 54) was about \$16 billion. The household appliances industry (row 54) produced \$15 billion, or 95 percent, of this commodity; the audio, video, and communication equipment industry (row 56) produced \$0.3 billion, or 2 percent, and 21 other industries produced the rest. Based on these proportions, production in the household appliances industry would initially increase \$950,000 ($\$1,000,000 \times 0.95$) to meet the \$1 million increase in household appliances sold to final users. Production in the audio, video, and communication equipment industry would increase \$20,000 ($\$1,000,000 \times 0.02$), and production in the 21 other industries would increase \$30,000.

Table 3.1 can then be used to determine the commodities required by each industry to produce its share of the \$1 million of household appliances sold to final users. The commodities required by the household appliances industry will be traced first. Column 54 in table 3.1 shows that the household appliances industry would require, in addition to other commodity inputs, \$4,921 ($\$950,000 \times 0.00518$) of household appliances (row 54); to provide this commodity input, the industry's production would have to increase an additional \$4,675 ($\$4,921 \times 0.95$). Thus, the increase in the production of the household appliances industry would be \$954,675 ($\$950,000$ for final users plus \$4,675 for its own intermediate use). This production in turn would require \$71,085 ($\$954,675 \times 0.07446$) of primary iron and steel manufacturing (row 37), \$39,886 ($\$954,675 \times 0.04178$) of rubber and miscellaneous plastics products (row 32), and so on down column 54 in table 3.1. From table 3.2, the value added required by the household appliances industry would total \$409,823 ($\$954,675 \times 0.42928$). Of this total, \$227,489 ($\$954,675 \times 0.23829$) is compensation of employees, \$7,867 ($\$954,675 \times 0.00824$) is indirect business tax and nontax liability, and \$174,467 ($\$954,675 \times 0.18275$) is other value added.

The information in tables 1 and 3.1 now can be used to trace the continuing repercussions on the output of other industries from the \$954,675 of additional output produced by the household appliances industry. For example, to supply the primary iron and steel manufacturing required by the household appliances industry, the primary iron and steel manufactur-

1. See "Benchmark Input-Output Accounts for the U.S. Economy," SURVEY 74 (April 1994): 73-115.

2. For the caveats on using the value added estimates, see "Benchmark Input-Output Accounts, 1987," 76.

ing industry (column 37 in table 3.1) requires \$5,995 (\$39,886 × 0.15029) of its own products (row 37 in table 3.1) plus \$585 (\$45,881 × 0.01275) of general industrial machinery and equipment (row 49), \$976 (\$45,881 × 0.02128) of coal mining (row 7), and so on. Similarly, all the other industries that produce primary iron and steel manufacturing (column 37 in table 1) as secondary products—for example, primary nonferrous metals manufacturing (row 38 in table 1)—would also require commodities to produce their shares of the output of primary iron and steel manufacturing that is required by the household appliances industry.

Similarly, the continuing effects of each industry producing its share of the \$1 million of household appliances sold to final users can be traced, and the increase in production required from each industry can be derived. For each industry producing household appliances, either as a primary product or as a secondary product, the direct requirements coefficients corresponding to that same industry are used from tables 3.1 and 3.2.³ For example, for household appliances as a primary product of the household appliances industry, the direct requirements coefficients from column 54 in table 3.1 are used; for household appliances as a secondary product of the audio, video, and communication equipment industry, the coefficients from column 56 are used.

Alternatively, the total commodity and industry outputs resulting from changes in final uses can be calculated more easily from the total requirements tables. These tables—which combine the information shown in tables 1, 3.1, and 3.2—completely trace and summarize the continuing repercussions of a dollar change in final use of a specified commodity.

3. For a discussion of the “industry-based technology assumption,” which underlies this approach, see “Benchmark Input-Output Accounts, 1987,” 82.

The commodity-by-commodity total requirements table

The commodity-by-commodity total requirements table (table 4) shows the inputs for each commodity that are directly and indirectly required to deliver a dollar of the commodity to final users. The head of each column names the commodity delivered to final users, and each row shows the total production of the commodity that is required. The coefficients in this table are referred to as “commodity-by-commodity total requirements coefficients.” The table is derived from both the make and use tables.⁴

In the household appliances example, the total requirements for each commodity can be calculated from the entries in column 54. Providing consumers with \$1 million of household appliances would require \$1,005,120 (\$1,000,000 × 1.00512) of household appliances (row 54) from all industries. Similarly, it would require \$24,830 (\$1,000,000 × 0.02483) of paperboard containers and boxes (row 25), \$41,080 (\$1,000,000 × 0.04108) of plastics and synthetic materials (row 28), and so on.

The total at the bottom of each column in table 4 is the sum of all the changes in commodity outputs that are required to deliver a dollar of a commodity to final users. Because each total change is a dollar multiple of the initial dollar spent for the output of the given commodity, the total change in output is often called the total commodity output multiplier.

The total commodity output multipliers can be used to estimate the impact of changes in the final uses of commodities on total commodity output. For example, for the household appliances commodity (column 54), the total commodity out-

4. The derivation of this table and the industry-by-commodity total requirements table is available on the diskettes that are offered for sale (see the box below).

Text continues on page 86.

Data Availability

The estimates from the 1987 benchmark I-O accounts are available on diskette at two-digit (95 I-O industries) and six-digit (480 I-O industries) levels. They can be ordered for “transactions,” for “total requirements,” or for “all.” “Transactions” includes the six-digit make table, use table, direct requirements coefficients table, and estimates by commodity of transportation costs and of wholesale and retail trade margins. “Total requirements” includes six-digit industry-by-commodity or commodity-by-commodity coefficients. Products specifying “all” contain all above data, but for the two-digit I-O industry level only. Each product includes information on the mathematical derivation of the coefficients tables. The BEA accession numbers and the prices for these products are listed below.

For further information about I-O products or when ordering by MasterCard or Visa, call the Interindustry Economics Division at (202) 606-5585. To order by mail, write to the Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. Specify the item, accession number, and price of the product. For foreign shipment, add 25 percent to the total amount of the order. A check or money order payable to “Bureau of Economic Analysis” must accompany all written orders. Be sure to include a return address.

Item	BEA accession number	Price
<i>Diskettes (3 1/2 inch HD)</i>		
1987 benchmark six-digit, transactions (three diskettes)	51-94-40-001	\$40
1987 benchmark six-digit, industry-by-commodity total requirements (two diskettes)	51-94-40-002	40
1987 benchmark six-digit, commodity-by-commodity total requirements (two diskettes)	51-94-40-003	40
1987 benchmark two-digit, all	51-94-40-004	20
1987 benchmark commodity composition of NIPA final demand	51-94-40-005	20
1987 benchmark personal consumption expenditures and producers' durable equipment by NIPA category	51-94-40-006	20

BEA's 1987 benchmark I-O accounts, at both the two-digit and six-digit levels, are also available on CD-ROM through the Commerce Department's National Economic, Social, and Environmental Data Bank (NESE-DB) CD-ROM. The NESE-DB CD-ROM is produced quarterly in February, May, August, and November. Call the Office of Business Analysis at (202) 482-1986 for more information or to place an order. The NESE-DB CD-ROM is available for public use at over 900 Federal Depository Libraries.

Table 3.1.—Commodity-by-Industry

[Direct requirements per dollar]

Commodity number	For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	Construction	Ordnance and accessories	Food and kindred products
		1	2	3	4	5+6	7	8	9+10	11+12	13	14
		Industry number										
1	Livestock and livestock products	0.19224	0.01826	0.00355	0.05633							0.18658
2	Other agricultural products	27179	.04444		.09409					.00039		.06829
3	Forestry and fishery products .....			.02250	.00144							.00624
4	Agricultural, forestry, and fishery services .....	.04576	.07542	.17281	.00037	.00006	.00002	.00002	.00014	.00525	.00005	.00002
5+6	Metallic ores mining .....					.07622						
7	Coal mining .....					.00154	.10724		.00473	(*)	.00014	.00032
8	Crude petroleum and natural gas .....							.03738				
9+10	Nonmetallic minerals mining .....	.00007	.00292		.00010	.00106	.00127		.03484	.00781		.00003
11	New construction .....									.00007		
12	Maintenance and repair construction .....	.00524	.00819	.01111	.01299	.01285	.00766	.02189	.00895	.00555	.00660	.00249
13	Ordnance and accessories .....			.00394						.00002	.02860	
14	Food and kindred products .....	.13220		.04090	.00150	.00018	.00002	.00004	.00015		.00001	.16779
15	Tobacco products											
16	Broad and narrow fabrics, yarn and thread mills .....		.00051			.00009	.00070		.00027		.00013	
17	Miscellaneous textile goods and floor coverings .....	.00029	.00030	.00960	.00515					.00284	.00004	.00004
18	Apparel .....					.00006	.00031	.00005	.00027	.00019	.00039	.00003
19	Miscellaneous fabricated textile products .....		.00102	.00414	.00355			(*)		.00036	.00001	.00022
20+21	Lumber and wood products .....	.00041	.00340			.00557	.00242	(*)	.00019	.05417	.00085	.00019
22+23	Furniture and fixtures .....									.00205		
24	Paper and allied products, except containers .....	.00125	.00160	.00013	.00047	.00012	.00033	.00009	.00292	.00191	.00023	.00964
25	Paperboard containers and boxes .....	.00006	.00384	.00017	.00834	.00003		.00002	.00031	.00007	.00068	.01797
26A	Newspapers and periodicals .....	.00010	.00012	.00007	.00014	.00004	.00004	.00003	.00184	.00008	.00011	.00003
26B	Other printing and publishing .....	.00011	.00012	.00539	.00109	.00047	.00046	.00038	.00059	.00033	.00069	.00577
27A	Industrial and other chemicals .....	.00117	.00074	.00181	.00033	.02993	.00540	.00994	.01700	.00212	.00402	.00462
27B	Agricultural fertilizers and chemicals .....	.00162	.05311	.00535	.13389	.00013	.00008		.00003	.00001	.00018	.00058
28	Plastics and synthetic materials .....										.00097	.00037
29A	Drugs .....	.00227			.00005							.00273
29B	Cleaning and toilet preparations .....	.00062						.00008	.00012	.00002	.00005	.00047
30	Paints and allied products .....			.00056				.00007		.00012	.00002	.00013
31	Petroleum refining and related products .....	.00383	.01355	.03948	.00968	.01861	.01534	.00343	.01495	.01813	.00099	.00113
32	Rubber and miscellaneous plastics products .....	.00186	.00412	.00026	.00160	.01205	.00969	.00031	.00942	.01079	.00631	.01614
33+34	Footwear, leather, and leather products .....	.00029	(*)		.00011		.00001	.00001		.00005	.00002	(*)
35	Glass and glass products .....	.00007		.00024		.00045	.00021	.00001	.00010	.00031	.00161	.00008
36	Stone and clay products .....		.00115		.00055	.00339	.00316	.00315	.00014	.05018	.00160	.00006
37	Primary iron and steel manufacturing .....	.00015	.00018			.01972	.00075	.00309	.00328	.01620	.01504	.00001
38	Primary nonferrous metals manufacturing .....					.00220	.00052		.00536	.01001	.01787	
39	Metal containers .....			.00236								.02664
40	Heating, plumbing, and fabricated structural metal products .....	.00019	.00022			.00633	.00259	.00054	.00470	.05064		
41	Screw machine products and stampings .....	.00031				.00510	.00572		.00253	.00045	.00601	.00203
42	Other fabricated metal products .....	.00078	.00176	.00712	.00118	.00125	.00324	.00455	.00288	.01307	.01468	.00313
43	Engines and turbines .....			.00192	.00196	.00548	.00435	.00026	.00439		.00088	
44+45	Farm, construction, and mining machinery .....	.00285	.00764	.00276	.00352	.01892	.04259	.00283	.01954	.00229		
46	Materials handling machinery and equipment .....					.00507	.00371		.01093	.00229		(*)
47	Metalworking machinery and equipment .....	.00095	.00106	.00003	.00007	.00113	.00030	.00091	.00064	.00032	.00276	.00012
48	Special industry machinery and equipment .....											.00028
49	General industrial machinery and equipment .....	.00031	.00058	.00109	.00016	.01152	.01680	.00186	.01263	.00245	.00747	.00068
50	Miscellaneous machinery, except electrical .....	.00053	.00142	.00036	.00020	.00181	.00308	.00043	.00143	.00020	.00380	.00028
51	Computer and office equipment .....				.00007							
52	Service industry machinery .....									.01073		.00002
53	Electrical industrial equipment and apparatus .....	.00012	.00031			.00395	.00352	.00197	.00491	.00443	.00078	
54	Household appliances .....									.00243		
55	Electric lighting and wiring equipment .....	.00022	.00050	.00016	.00034	.00057	.00110	.00022	.00063	.01599	.00005	.00002
56	Audio, video, and communication equipment .....				.00001		(*)	.00001		.00325	.00280	(*)
57	Electronic components and accessories .....										.02769	
58	Miscellaneous electrical machinery and supplies .....	.00173	.00466	.00008	.00046	.00081	.00008	.00003	.00042	.00137	.00059	.00001
59A	Motor vehicles (passenger cars and trucks)											
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00103	.00251	.00067	.00179	.00185	.00034	.00008	.00027	.00067	.00004	.00006
60	Aircraft and parts .....				.00002						.01162	
61	Other transportation equipment .....			.02096	.00052	.00071				(*)		
62	Scientific and controlling instruments .....			.00207	.00003	.00074	.00011	.00003	.00008	.00230	.01264	.00010
63	Ophthalmic and photographic equipment .....			.00005	.00034	.00013	.00010	.00012	.00013	.00019	.00061	.00006
64	Miscellaneous manufacturing .....	.00017	.00019	.00012	.00064	.00031	.00015	.00006	.00047	.00142	.00021	.00006
65A	Railroads and related services; passenger ground transportation .....	.00942	.00287	.00098	.00414	.00297	.02561	.00053	.00278	.00252	.00058	.00565
65B	Motor freight transportation and warehousing .....	.02188	.01487	.00319	.00935	.00768	.00625	.01813	.01402	.01337	.00488	.01574
65C	Water transportation .....	.00123	.00053	.00326	.00146	.00106	.00211	.00122	.00090	.00049	.00006	.00153
65D	Air transportation .....	.00023	.00115	.00090	.01881	.00361	.00073	.01003	.00373	.00138	.00461	.00148
65E	Pipelines, freight forwarders, and related services .....	.00004	.00017	.00028	.00015	.00024	.00024	.00005	.00020	.00006	.00003	.00001
66	Communications, except radio and TV .....	.00253	.00284	.00047	.00002	.00134	.00083	.00143	.00171	.00374	.00460	.00137
67	Radio and TV broadcasting											
68A	Electric services (utilities) .....	.01111	.00594	.00046	.00266	.09506	.02401	.01534	.05023	.00169	.00828	.00844
68B	Gas production and distribution (utilities) .....		.00189	.00017	.00007	.01087	.00043	.00660	.01683	.00052	.00284	.00410
68C	Water and sanitary services .....	.00127	.00425	.00082	.00222	.00222	.00236	.00156	.01039	.00041	.00098	.00136
69A	Wholesale trade .....	.00413	.04112	.02497	.08541	.01955	.02830	.00621	.02007	.04277	.01862	.05169
69B	Retail trade .....	.00086	.00262	.00107	.00301	.00121	.00037	.00007	.00024	.03897	.00013	.00016
70A	Finance .....	.00910	.00979	.01037	.00464	.01012	.00663	.00265	.01783	.01147	.00185	.00288
70B	Insurance .....	.00501	.02071	.01369	.00361	.00342	.00122	.00022	.00049	.00318	.00102	.00109
71A	Owner-occupied dwellings											
71B	Real estate and royalties .....	.03429	.08181		.08006	.01249	.02444	.17382	.01185	.00438	.00840	.00266
72A	Hotels and lodging places .....	.00056	.00062	.00182	.00108	.00179	.00020	.00032	.00817	.00114	.00087	.00064
72B	Personal and repair services (except auto) .....	.00030	.00081	.00093	.00819	.00029	.00017	.00012	.00156	.00022	.00039	.00059
73A	Computer and data processing services .....			.00220	.00404	.00488	.00011	.00006	.00889	.00001	.00047	.00038
73B	Legal, engineering, accounting, and related services .....	.00124	.00140	.03376	.01096	.01663	.00813	.00951	.00737	.05866	.01034	.00266
73C	Other business and professional services, except medical .....	.00414	.01100	.01776	.00927	.00558	.00322	.00171	.00867	.02416	.01102	.00553
73D	Advertising .....	.00021	.00024	.00043	.00414	.00075	.00179	.01012	.00144	.00039	.01958	.02656
74	Eating and drinking places .....	.00018	.00020	.00146	.00362	.00118	.00073	.00082	.00174	.00233	.00280	.00110
75	Automotive repair and services .....	.00058	.00206	.01761	.02648	.02743	.00775	.00226	.00134	.00989	.00088	.00146
76	Amusements .....				.01269		.00002	.00003	.00026	.00007	.00006	.00002
77A	Health services .....	.00850										
77B	Educational and social services, and membership organizations .....			.00286	.00182	.00206	.00166	.00034	.00113	.00004	.00029	.00025
78	Federal Government enterprises .....	.00013	.00015	.00078	.00226	.00143	.00011	.00003	.00131	.00039	.00021	.00072
79	State and local government enterprises .....	.00017	.00036	.00070	.00078	.00085	.00015	.00004	.00025	.00020	.00018	.00088
80	Noncomparable imports .....		.00019		.00167	.00451	.00072	.00940	.00071	.00001	.00059	.01551
81	Scrap, used and secondhand goods .....									.00002		
82	General government industry											
83	Rest of the world adjustment to final uses											
84	Household industry											
85	Inventory valuation adjustment											
I	Total intermediate inputs	82769	46138	50271	55191	48939	39148	34126	36645	52974	39794	69170
VA	Value added	17231	53862	49729	44809	51061	60852	65874	63355	47026	60207	30830
T	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

* Less than .00005.

Direct Requirements, 1987 Benchmark

of industry output, at producers' prices]

Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	News-papers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet preparations	Paints and allied products	Commodity number
15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	28	29A	29B	30	
																	1
.06472	0.00686		0.00020											0.00237	0.00046		2
	.08346	.00210	.00048								.00102			.00076			3
			.00460			.08060	.00132				.00080			.00016		.00128	4
.00002	.00007	.00003			.00030	.00002	.00007	.00001	.00001	.00002	.00003	.00004	.00002	.00004	.00001		5+6
							.00018				.000754		.00015			.00358	7
.00056	.00072	.00061	.00006	.00025	.00029	.00019	.00522	.00009	.00002	.00015	.00323	.00034	.00325	.00024	.00016	.00104	8
											.01236	.04084	.00010			.00141	9+10
							.00370				.00682	.06855			.00027		11
.00146	.00469	.00297	.00201	.00244	.00580	.00785	.00484	.00343	.00375	.00273	.00682	.00409	.00388	.00363	.00227	.00381	12
	.00001		(*)		.00001												13
.00004	.00002	.00140	.00002	.00024	.00009	.00040	.00419	.00011	.00006	.00011	.00412	.00684	.00130	.00168	.01680	.01327	14
.13889																	15
	25878	22654	20317	22810	.00007	.03361	.00826			.00107			.00301				16
	.00905	.04274	.00030	.07441	.00187	.02645	.00434		.00009	.00061					.00054		17
.00007	.00004	.00066	.18879	.00945	.00017	.00035	.00014	.00005	.00002	.00006	(*)	.00002	.00013	.00001	.00002	.00002	18
		.00106	.02346	.03248	.00023	.00159	.00001	.00001	.00001	.00001	.00028	.00007	.00001	.00001	.00006	.00006	19
(*)	.00008	.00008		.00306	.28756	.08781	.05859		.00004		.00057				.00019		20+21
					.00098	.00398	.00001										22+23
.00498	.00063	.00591	.00174	.00228	.00087	.00138	.16027	.45288	.13042	.16745	.00855	.00356	.01138	.00448	.00183	.00015	24
.03608	.00342	.00617	.00312	.01177	.00383	.01509	.01327	.00209	.00024	.00385	.00485	.00410	.00660	.00871	.03448		25
.00007	.00005	.00006	.00006	.00009	.00010	.00011	.00005	.00005	.00890	.00236	.00008	.00004	.00005	.00003	.00005	.00003	26A
.01429	.00029	.00046	.00084	.00175	.00052	.00089	.00134	.00052	.06752	.08073	.00062	.01405	.00036	.05005	.01038	.00216	26B
.00193	.02227	.03719	.00122	.00606	.01164	.00584	.04201	.01924	.00763	.02734	.21601	.10145	.33215	.01937	.08941	.19337	27A
					.00255	.00250	.00250				.00433	.18749	.00232	.00150			27B
	.13730	.23932	.02378	.02999	.00451	.00309	.02446	.02183		.00147	.00898		.03615		.01409	.11933	28
											.00161						29A
.00067	.00230	.00487	.00458		.00001		.00471				.00124	.00187	.00565	.00059	.04618	.00040	29B
	.00004	.00007	.00001		.00529	.01022	.00024	.00257		.00044	.00484		.00219		.00189	.02083	30
.00132	.00272	.00196	.00174	.00078	.00612	.00229	.00689	.00713	.00163	.00272	.01199	.00509	.00254	.00107	.00989	.00659	31
.00269	.00519	.00733	.00471	.00078	.00946	.03256	.02438	.00285	.00066	.01849	.01178	.00853	.04143	.02081	.05155	.00009	32
	.00004		.00487	.01351	.00012	.00282	.00001	.00012	.00003	.00015	.00003		(*)	.00001			33+34
.00002	.00542	.00036		.00289	.00371	.00006	.00001	.00001	.00001	.00157	.00289	.00065	.00648		.00696	.00062	35
.00002	.00010	.00009	.00001	.00007	.00561	.00355	.00110	.00003	.00002	.00010	.00080	.00192	.00034	.00003	.00010	.01091	36
.00003	.00005	.00027	(*)	.00006	.00042	.04155	.00003	.00265	.00003	.00007	.00210	.00001	.00001	.00005	.00005	.00132	37
					.00073	.01274	.00057	.00210		.00204	.00069		.00005	.00003	.00003	.00058	38
.00009											.00547	.00409	.00007	.00384	.01304	.04422	39
					.00657									.00033	.00047		40
.00702	.00004	.00004	.00012	.00008	.01382	.01012	.03748		.00001	.00061	.00012	.00010		.00179	.00591	.00053	41
					.02065	.03748		.00612	.00483	.00001	.00770	.00294	.00032	.00181	.01173	.00175	42
																	43
.00004	.00032		.00002		.00054		.00001										44+45
.00023	.00036	.00029	.00014	.00035	.00202	.00215	.00053	.00072	.00013	.00026	.00041	.00013	.00051	.00009	.00019	.00007	46
	.00286	.01399	.00249	.00107	.00113	.00036	.00449	.03991	.00155	.00411	.00486		.00021				47
.00027			.00011	.00155	.00193	.00068			.00004	.00002	.00025	.00121	.00205	.00047	.00176	.00003	48
.00053	.00081	.00061	.00032	.00045	.00261	.00103	.00116	.00105	.00026	.00046	.00091	.00039	.00118	.00027	.00076	.00012	49
									.00015	.00053				.00023			50
					.00031						.00025						51
					.00061	.00160				(*)	.00049						52
.00001	.00003	.00001	.00001	.00001	.00202	.00015	.00006	.00002	.00003	.00003	.00004	.00002	.00001	.00002	.00001	.00001	53
(*)	.00001	.00001	.00002	.00004	.00001	.00015	.00002	.00001	(*)	.00002	.00003	.00001	.00001	.00001	.00001	.00001	54
.00002	.00002		(*)		.00017	.00002	.00005	.00003	.00076	.00033	.00001	.00001		.00002	.00001		55
.00014	.00012	.00003	.00008		.00262	.00024	.00037	.00031	.00026	.00040	.00004	.00010	.00002	.00013	.00008	.00003	56
																	57
.00017	.00010	.00006	.00006	.00015	.00017	.00039	.00047	.00027	.00087	.00197	.00099	.00045	.00013	.00078	.00017	.00019	58
.00006	.00012	.00013	.00009	.00014	.00019	.00028	.00014	.00011	.00243	.00604	.00024	.00007	.00013	.00014	.00016	.00007	59
.00005	.00008	.00012	.00475	.00620	.00058	.00168	.00011	.00013	.00027	.00161	.00006	.00003	.00006	.00008	.00034	.00011	60
.00039	.00196	.00027	.00028	.00087	.00910	.00434	.01010	.01123	.00350	.00493	.01076	.02081	.01168	.00074	.00337	.01310	61
.00415	.00724	.01488	.00436	.00724	.01408	.01002	.01984	.02236	.00658	.01150	.01771	.05778	.01401	.00330	.01112	.02321	62
.00011	.00023	.00170	.00011	.00042	.00152	.00040	.00131	.00067	.00009	.00035	.00185	.00363	.00322	.00034	.00015	.00157	63
.00110	.00075	.00056	.00177	.00124	.00111	.00227	.00472	.00189	.01891	.00422	.00275	.00110	.00145	.00155	.00241	.00088	64
.00001	.00003	.00003	.00001	.00007	.00002	.00011	.00004	.00003	.00003	.00049	.00009	.00009	.00029	.00003	.00006	.00015	65
.00107	.00125	.00177	.00148	.00171	.00172	.00242	.00186	.00282	.00415	.00275	.00246	.00291	.00224	.00350	.00239	.00332	66
																	67
.00329	.02844	.01354	.00809	.00618	.01433	.00936	.02796	.01087	.00495	.00830	.03378	.02246	.02370	.00801	.00588	.00609	68A
.00074	.00397	.00700	.00149	.00234	.00472	.00223	.01212	.00314	.00043	.00109	.02831	.03452	.01895	.00463	.00503	.00354	68B
.00032	.00297	.00165	.00052	.00308	.00250	.00178	.01310	.00115	.00042	.00088	.00377	.00833	.00366	.00095	.01443	.00062	68C
.02032	.04726	.02708	.03383	.05600	.05223	.05543	.04437	.03917	.01572	.03525	.03723	.05528	.04286	.03996	.04764	.02840	69A
.00031	.00028	.00013	.00029	.00004	.00100	.00045	.00097	.00063	.00054	.00079	.00044	.00019	.00024	.00026	.00015	.00002	69B
.00497	.00278	.00377	.00438	.00761	.00612	.01032	.00370	.00162	.00518	.00513	.00324	.01671	.00255	.00157	.00285	.00133	70A
.00138	.00108	.00149	.00118	.00153	.00269	.00157	.00263	.00183	.00141	.00219	.00189	.00192	.00189	.00088	.00155	.00050	70B
																	71A
.00296	.00185	.00356	.00600	.00603	.00419	.00699	.00270	.00464	.01452	.01113	.00522	.00275	.00291	.00585	.00451	.00480	71B
.00031	.00007	.00014	.00024	.00024	.00030	.00051	.00004	.00014	.00051	.00074	.00048	.00023	.00075	.00037	.00076	.00056	72A
.00025	.00499	.00327	.00224	.00406	.00045	.00074	.00155	.00044	.00106	.00055	.00045	.00030	.00200	.00132	.00063	.00006	72B
.00042	.00080	.00064	.00022	.00022	.00030	.00042	.00224	.00113	.00907	.00304	.00079	.00041	.00041	.00014	.00020	.00008	73A
.00230	.00238	.00228	.00273	.00268	.00316	.01146	.00250	.00269	.01805	.00705	.02016	.00615	.02551	.04353	.05007	.00447	73B
.00368	.01218	.00619	.00533	.00800	.00749	.00380	.00549	.00723	.03910</								

Table 3.1.—Commodity-by-Industry

[Direct requirements per dollar]

Commodity number	For the composition of inputs to an industry, read the column for that industry	Petroleum refining and related products	Rubber and miscellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products
		31	32	33+34	35	36	37	38	39	40	41	42
1	Livestock and livestock products											
2	Other agricultural products											
3	Forestry and fishery products											
4	Agricultural, forestry, and fishery services											
5+6	Metallic ores mining .....	.0001	.0003		.0003	.0006	.0002	.0003	.0002	.0001	.0001	.0002
7	Coal mining .....	.0015	.0029	.0013	.0012	.0012	.0282	.0060	.0005	.0012	.0037	.0048
8	Crude petroleum and natural gas .....	.55103	.0088				.0014					
9+10	Nonmetallic minerals mining .....	.00355	.0041	.0017	.0144	.0832	.00339	.00031		.0011		.0018
11	New construction											
12	Maintenance and repair construction .....	.00691	.00458	.00324	.00806	.00751	.01901	.00484	.00276	.01179	.01013	.01243
13	Ordnance and accessories .....		.0001			.00131	.00030					
14	Food and kindred products .....	.00031	.00020	.10266	.00008	.00057	.00009	.00010	.00003	.00014	.00008	.00010
15	Tobacco products											
16	Broad and narrow fabrics, yarn and thread mills .....		.00949	.02742		.00288		.00076				
17	Miscellaneous textile goods and floor coverings .....	.00029	.01044	.02265		.00003		.00002				.0002
18	Apparel .....	.00001	.00014	.00043	.00017	.00014	.00012	.00006	.00007	.00003	.00008	.00022
19	Miscellaneous fabricated textile products	(*)	.00028		.00002	.00005	.00002	(*)		(*)	.00323	
20+21	Lumber and wood products .....	.00043	.00221	.00270	.01473	.00218	.00200	.00267	.00096	.00314	.00100	.00398
22+23	Furniture and fixtures .....						.00041					
24	Paper and allied products, except containers .....	.00007	.00922	.00074	.00095	.01260	.00022	.00030	.00034	.00075	.00098	.00022
25	Paperboard containers and boxes .....	.00138	.01154	.00762	.04394	.00324	.00117	.00184	.00233	.00525	.00414	.00741
26A	Newspapers and periodicals .....	.00001	.00010	.00007	.00008	.00010	.00005	.00005	.00003	.00010	.00006	.00008
26B	Other printing and publishing .....	.00013	.00116	.00055	.00153	.00057	.00051	.00044	.01851	.00062	.00048	.00064
27A	Industrial and other chemicals .....	.01275	.04564	.03114	.06106	.02902	.02530	.01268	.00516	.00270	.00756	.01671
27B	Agricultural fertilizers and chemicals											
28	Plastics and synthetic materials .....	.00044	.18645	.01251		.00432		.01390	.00143	.00075	.00153	.00380
29A	Drugs											
29B	Cleaning and toilet preparations .....	.00303	.00034	.00382		.00223	.00002	.00001	.00054	.00035	.00047	.00037
30	Paints and allied products .....	.00005	.00076		.00121	.00159	.00034	.00054	.01646	.00554	.00247	.00770
31	Petroleum refining and related products .....	.07204	.00275	.00109	.00281	.00544	.00487	.00646	.00145	.00237	.00126	.00265
32	Rubber and miscellaneous plastics products .....	.00449	.04761	.02878	.01077	.00286	.00204	.01147	.00164	.00967	.00302	.01933
33+34	Footwear, leather, and leather products .....	.00002	.00005	.18407	.00012	.00001	.00003			.00002		
35	Glass and glass products .....	.00201	.00526		.08137	.00162	.00008	.00085	.00002	.000739	.00173	.00257
36	Stone and clay products .....	.00037	.00289	.00081	.01987	.11687	.01462	.00466	.00105	.00283	.00238	.00384
37	Primary iron and steel manufacturing .....	.00031	.00351	.00008	.00035	.00632	.15029	.00913	.02196	.18879	.24725	.11683
38	Primary nonferrous metals manufacturing .....		.00134		.00008	.00054	.02159	.30618	.25264	.07272	.03065	.04613
39	Metal containers .....	.00121				.00001	.00002	(*)	.01675		.00011	.00018
40	Heating, plumbing, and fabricated structural metal products .....		.00052			.00016				.02268		.00009
41	Screw machine products and stampings .....		.00513	.00108	.00219	.00229	.00403	.00160	.00128	.02753	.01488	.01641
42	Other fabricated metal products .....	.00288	.01005	.00495	.00012	.00502	.01134	.00936	.01338	.03357	.01828	.05522
43	Engines and turbines .....		.00017			.00004	.00016			.00003		.00073
44+45	Farm, construction, and mining machinery .....					.00029						
46	Materials handling machinery and equipment .....		.00006	.00002		.00003	.00024	.00018				
47	Metalworking machinery and equipment .....	.00014	.00188	.00051	.00541	.00057	.00769	.00865	.00146	.00913	.02978	.00576
48	Special industry machinery and equipment .....		.00273	.00014	.00067						.00005	
49	General industrial machinery and equipment .....	.00001	.00034	.00002	.00027	.00072	.01275	.00986	.00023	.00460	.00197	.00068
50	Miscellaneous machinery, except electrical .....	.00030	.00298	.00100	.00305	.00110	.00304	.00202	.00170	.00262	.01157	.00421
51	Computer and office equipment											
52	Service industry machinery .....									.00076		
53	Electrical industrial equipment and apparatus .....		.00015		.00208	.00027	.00638	.00583	.00008	.00250	.00155	.00487
54	Household appliances		(*)	.00008	.00033		(*)				.00002	
55	Electric lighting and wiring equipment .....	.00009	.00140	.00003	.00017	.00073	.00015	.00004	.00001	.00008	.00041	.00006
56	Audio, video, and communication equipment	(*)	.00001		.00001	.00001	(*)	(*)	.00001	.00002	.00001	.00001
57	Electronic components and accessories .....		.00065			.00002						.00024
58	Miscellaneous electrical machinery and supplies .....	.00001	.00027		.00003	.00002	.00005	.00002	.00002	.00003		.00037
59A	Motor vehicles (passenger cars and trucks) .....									.00021		
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00040	.00015	.00002	.00022	.00022	.00010	.00021	.00016	.00025	.00065	.00024
60	Aircraft and parts											
61	Other transportation equipment .....						.00006					
62	Scientific and controlling instruments .....	.00017	.00050	.00013	.00098	.00036	.00031	.00025	.00009	.00217	.00017	.00029
63	Ophthalmic and photographic equipment .....	.00004	.00022	.00016	.00021	.00024	.00017	.00015	.00010	.00026	.00017	.00023
64	Miscellaneous manufacturing .....	.00002	.00022	.00048	.00010	.00091	.00016	.00009	.00007	.00051	.00013	.00033
65A	Railroads and related services; passenger ground transportation .....	.00111	.00705	.00212	.01151	.01472	.01687	.00595	.00346	.00311	.00334	.00241
65B	Motor freight transportation and warehousing .....	.00408	.02724	.01015	.01378	.05778	.01345	.03027	.01593	.01430	.01353	.01241
65C	Water transportation .....	.00645	.00134	.00039	.00073	.00352	.00469	.00101	.00024	.00040	.00040	.00047
65D	Air transportation .....	.00049	.00148	.00275	.00415	.00139	.00114	.00181	.00421	.00292	.00085	.00352
65E	Pipelines, freight forwarders, and related services .....	.00378	.00007	.00002	.00009	.00006	.00007	.00004	.00002	.00004	.00001	.00004
66	Communications, except radio and TV .....	.00135	.00291	.00258	.00760	.00674	.00220	.00196	.00094	.00266	.00266	.00389
67	Radio and TV broadcasting											
68A	Electric services (utilities) .....	.01199	.02137	.00782	.02974	.02651	.04131	.04436	.01164	.00861	.01323	.01542
68B	Gas production and distribution (utilities) .....	.00914	.00597	.00214	.03606	.01804	.02787	.01431	.00587	.00362	.00517	.00590
68C	Water and sanitary services .....	.00152	.00236	.00109	.00210	.00275	.00718	.00169	.00219	.00078	.00247	.00123
69A	Wholesale trade .....	.04618	.04952	.04246	.04238	.02902	.06277	.06061	.06690	.05642	.05126	.05182
69B	Retail trade .....	.00014	.00037	.00005	.00039	.00065	.00034	.00047	.00029	.00067	.00010	.00046
70A	Finance .....	.00894	.00451	.00570	.00429	.00655	.00363	.00473	.00321	.00423	.00642	.00688
70B	Insurance .....	.00262	.00212	.00109	.00159	.00208	.00202	.00198	.00171	.00191	.00179	.00192
71A	Owner-occupied dwellings											
71B	Real estate and royalties .....	.00446	.00629	.00514	.00536	.00497	.00230	.00326	.00449	.00648	.00435	.00497
72A	Hotels and lodging places .....	.00019	.00027	.00045	.00090	.00039	.00015	.00064	.00087	.00471	.00034	.00068
72B	Personal and repair services (except auto) .....	.00039	.00138	.00138	.00074	.00127	.00111	.00151	.00042	.00045	.00126	.00111
73A	Computer and data processing services .....	.00092	.00310	.00052	.00142	.00203	.00158	.00063	.00087	.00051	.00254	.00235
73B	Legal, engineering, accounting, and related services .....	.00273	.00678	.00346	.00328	.00385	.00280	.00248	.00194	.00407	.02243	.00520
73C	Other business and professional services, except medical .....	.00838	.00801	.01032	.00576	.00933	.01830	.00996	.00396	.00931	.00704	.01082
73D	Advertising .....	.00233	.00823	.01493	.02331	.01977	.02952	.00953	.02021	.00634	.00829	.01849
74	Eating and drinking places .....	.00037	.00287	.00318	.00232	.00278	.00174	.00162	.00119	.00317	.00215	.00301
75	Automotive repair and services .....	.00093	.00372	.00131	.00547	.00510	.00152	.00506	.00310	.00559	.00290	.00512
76	Amusements .....	.00002	.00008	.00002	.00004	.00004	.00003	.00004	.00002	.00011	.00004	.00005
77A	Health services											
77B	Educational and social services, and membership organizations .....	.00105	.00347	.00026	.00052	.00090	.00019	.00066	.00076	.00086	.00305	.00091
78	Federal Government enterprises .....	.00052	.00101	.00358	.00119	.00113	.00127	.00082	.00029	.01006	.00114	.00118
79	State and local government enterprises .....	.00012	.00036	.00093	.00043	.00025	.00063	.00044	.00050	.00031	.00034	.00064
80	Noncomparable imports .....	.00284	.01350	.00021	.00538	.00298	.00124	.01399	.00062	.00045	.00064	.00146
81	Scrap, used and secondhand goods .....				.00445			.04215				

Table 3.1.—Commodity-by-Industry
 [Direct requirements per dollar]

Commodity number	For the composition of inputs to an industry, read the column for that industry	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Ophthalmic and photographic equipment	Miscellaneous manufacturing	Railroads and related services; passenger ground transportation	Motor freight transportation and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services
		60	61	62	63	64	65A	65B	65C	65D	65E
1	Livestock and livestock products					0.00005			0.00005		
2	Other agricultural products .....					.00060			.00012		
3	Forestry and fishery products .....								.00012		
4	Agricultural, forestry, and fishery services .....	.00003	(*)	.00004	.00007	.00008	.00006	.00005	.00013	.00008	.00007
5+6	Metallic ores mining .....			.00016							
7	Coal mining .....	.00010	.00013	.00007	.00103	.00010	(*)		.00036		
8	Crude petroleum and natural gas .....										.00360
9+10	Nonmetallic minerals mining			(*)		.00051					
11	New construction										
12	Maintenance and repair construction .....	.00602	.01954	.00477	.00459	.00570	.09693	.00377	.00532	.00616	.01704
13	Ordnance and accessories .....	.00046	.00001	.00001			.00001	(*)	.00002	.00001	.00016
14	Food and kindred products .....	.00007	.00009	.00090	.00005	.00198	.00021	.00001	.00272	.00366	.00031
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills .....	.00103	.00044	.00365		.00980				.00006	
17	Miscellaneous textile goods and floor coverings .....	.00117	.00508	.00461	.00092	.00130	.00002	.00004	.00280	(*)	
18	Apparel .....	.00007	.00012	.00038	.00003	.00054	.00035	.00006	.00394	.00019	.00002
19	Miscellaneous fabricated textile products .....	.00199	.00755	(*)	.00001	.00381	.00001	.00011	.00309	.00012	.00447
20+21	Lumber and wood products .....	.00038	.01957	.00203		.02187					
22+23	Furniture and fixtures .....	.00031	.00250	.00073		.00026		.00013			.00137
24	Paper and allied products, except containers .....	.00016	.00038	.00306	.06070	.00873	.00044	.00045	.00031	.00073	.00134
25	Paperboard containers and boxes .....	.00009	.00028	.00401	.00803	.01312	.00016	.00058	.00054	.00001	.00111
26A	Newspapers and periodicals .....	.00005	.00006	.00012	.00011	.00021	.00015	.00021	.00011	.00019	.00032
26B	Other printing and publishing .....	.00064	.00038	.00169	.00092	.00265	.00264	.00231	.00199	.00196	.00596
27A	Industrial and other chemicals .....	.00044	.00227	.00348	.02383	.01018	.00197	.00069	.00073	.00022	.00032
27B	Agricultural fertilizers and chemicals .....						.00076		.00087		
28	Plastics and synthetic materials .....	.00117	.00766	.00671	.00622	.02092					
29A	Drugs										
29B	Cleaning and toilet preparations .....			.00003		.00002	.00002	.00003		.00005	
30	Paints and allied products .....	.00170	.00599	.00052	.00005	.00433	.00005	.00015	.00173	.00005	
31	Petroleum refining and related products .....	.00139	.00194	.00148	.00159	.00271	.04905	.04991	.03040	.11256	.00342
32	Rubber and miscellaneous plastics products .....	.00856	.01200	.00190	.02040	.02863	.00330	.00963	.00315	.00024	.00253
33+34	Footwear, leather, and leather products .....	.00001	.00001	.00005	.00002	.00306	.00003	.00006	.00003	.00002	.00022
35	Glass and glass products .....	.00018	.00980	.00027	.00503	.00085	.00085	.00005	.00005	.00001	.00030
36	Stone and clay products .....	.00248	.00242	.00136	.00046	.00434	.00019	.00008	.00034	.00004	.00006
37	Primary iron and steel manufacturing .....	.01643	.03878	.01510	.00148	.01657	.00190	.00001	.00001	.00003	
38	Primary nonferrous metals manufacturing .....	.04310	.01815	.01587	.00633	.05557	.00016		.00810		
39	Metal containers .....			.00023							
40	Heating, plumbing, and fabricated structural metal products .....	.00223	.03541	.00514		.00002					
41	Screw machine products and stampings .....	.01166	.00753	.01207	.00365	.00395	.00021		.00008	.00063	
42	Other fabricated metal products .....	.01130	.01987	.01535	.01192	.00872	.00615	.00226	.02075	.00073	.00138
43	Engines and turbines .....		.04390			.00009	.00102	.00036	.00678		.00092
44+45	Farm, construction, and mining machinery .....		.00458								
46	Materials handling machinery and equipment .....		.00005					.00003			
47	Metalworking machinery and equipment .....	.01394	.00206	.00208	.00117	.00228	.00165	.00013	.00738	.00027	.00005
48	Special industry machinery and equipment										
49	General industrial machinery and equipment .....	.00200	.02087	.00181	.00096	.00077	.00670	.00066	.02381	.00005	.00449
50	Miscellaneous machinery, except electrical .....	.00940	.00296	.00224	.00190	.00376	.00357	.00022	.00652	.00057	.00071
51	Computer and office equipment .....	.00049		.00886	.00051	.00015	.00002	.00007	.00005	.00003	.00044
52	Service industry machinery .....		.00331			.00080	.00003	.00018	.00003	.00002	
53	Electrical industrial equipment and apparatus .....	.00113	.01667	.01515	.00337	.00273	.00341	.00084	.00049	.00013	.00105
54	Household appliances .....		.00615					(*)	.00055	(*)	
55	Electric lighting and wiring equipment .....	.00001	.00375	.00241	.00163	.00065	.00051	.00042	.00150	.00012	.00004
56	Audio, video, and communication equipment .....	.01171	.00055	.00023	.00002	.00011	.00001	.00003	.00001	.00009	.00029
57	Electronic components and accessories .....	.01474	.00030	.09217	.07973	.01200	.00025	.00005		.00118	.00029
58	Miscellaneous electrical machinery and supplies .....	.00094	.00536	.00254	.00144	.00036	.00127	.00060	.00138	.00033	.00173
59A	Motor vehicles (passenger cars and trucks) .....		.02501						.00016		
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00006	.01298	.00019	.00011	.00030	.00303	.00342	.00006	.00017	.00047
60	Aircraft and parts .....	.19375	.00166							.04374	
61	Other transportation equipment .....		.02599			.00012	.01970	.00005	.01514		.00043
62	Scientific and controlling instruments .....	.02699	.00292	.02685	.00942	.00025	.00005	.00003	.00135	.00039	.00005
63	Ophthalmic and photographic equipment .....	.00022	.00014	.00034	.01365	.00043	.00024	.00039	.00020	.00019	.00060
64	Miscellaneous manufacturing .....	.00018	.00020	.00054	.00023	.03681	.00032	.00026	.00202	.00048	.00092
65A	Railroads and related services; passenger ground transportation .....	.00048	.00206	.00100	.00188	.00251	.05344	.00224	.00063	.00086	.00302
65B	Motor freight transportation and warehousing .....	.00268	.00838	.00424	.00583	.01492	.00280	.16339	.00309	.00228	.00369
65C	Water transportation .....	.00014	.00034	.00019	.00079	.00079	.00087	.00079	.10279	.00203	.00119
65D	Air transportation .....	.01439	.00256	.00396	.00513	.00233	.00189	.00209	.00285	.05453	.02236
65E	Pipelines, freight forwarders, and related services .....	.00004	.00001	.00002	.00004	.00002	.01656	.03052	.05922	.06322	.04193
66	Communications, except radio and TV .....	.00437	.00380	.00505	.00213	.00214	.00109	.01227	.00471	.01215	.01840
67	Radio and TV broadcasting										
68A	Electric services (utilities) .....	.00804	.00794	.00886	.00618	.00885	.00228	.00831	.02369	.00320	.03755
68B	Gas production and distribution (utilities) .....	.00175	.00110	.00155	.00204	.00192	.00005	.00037	.00015	.00019	.00144
68C	Water and sanitary services .....	.00058	.00115	.00114	.00176	.00329	.00077	.00036	.00415	.00047	.00501
69A	Wholesale trade .....	.01889	.05513	.03759	.03651	.01814	.01541	.01541	.02347	.02972	.00506
69B	Retail trade .....	.00033	.00043	.00035	.00030	.00058	.00461	.02782	.00017	.00087	.00102
70A	Finance .....	.01075	.00206	.00529	.01053	.00786	.00773	.00421	.05419	.02767	.03960
70B	Insurance .....	.00137	.00120	.00185	.00255	.00214	.00436	.00824	.00032	.00486	.02048
71A	Owner-occupied dwellings										
71B	Real estate and royalties .....	.00559	.01437	.00905	.00439	.00731	.00693	.01865	.03301	.01318	.03611
72A	Hotels and lodging places .....	.00933	.00037	.00084	.00191	.00072	.00158	.00058	.00050	.00050	.00332
72B	Personal and repair services (except auto) .....	.00056	.00056	.00105	.00044	.00094	.00083	.00078	.00096	.00552	.00194
73A	Computer and data processing services .....	.00125	.00059	.00116	.00097	.00042	.00004	.00294	.01122	.00941	.01743
73B	Legal, engineering, accounting, and related services .....	.00619	.00373	.00939	.00591	.01004	.00395	.00471	.00303	.00460	.01700
73C	Other business and professional services, except medical .....	.01237	.00806	.01205	.01385	.01094	.01419	.01165	.06238	.01408	.01269
73D	Advertising .....	.02349	.00760	.02475	.02477	.05086	.00079	.00205	.01021	.02283	.02487
74	Eating and drinking places .....	.00180	.00155	.00360	.00299	.00713	.00412	.00078	.00235	.03001	.01838
75	Automotive repair and services .....	.00123	.00417	.00570	.00365	.00725	.01354	.03791	.00143	.00375	.01045
76	Amusements .....	.00025	.00050	.00033	.00062	.00033	.00010	.00013	.00005	.00056	.00041
77A	Health services										
77B	Educational and social services, and membership organizations .....	.00149	.00032	.00182	.00565	.00376	.00306	.00048	.00256	.00010	.00444
78	Federal Government enterprises .....	.00146	.00064	.00204	.00093	.00274	.00133	.00127	.00029	.00009	.00223
79	State and local government enterprises .....	.00021	.00016	.00028	.00020	.00025	.00143	.00116	.00002	.00029	.00029
80	Noncomparable imports .....	.00120	.00068	.00398	.01553	.02925	.00413	.00008	.11975	.05589	.00236
81	Scrap, used and secondhand goods										
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs .....	.51895	.52680	.42532	.42898	.52426	.38598	.44251	.68209	.53832	.40911
VA	Value added .....	.48105	.47320	.57468	.57103	.47574	.61402	.55749	.31791	.46168	.59089
T	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

* Less than .00005.

Direct Requirements, 1987 Benchmark—Continued
of industry output, at producers' prices]

Communications, except radio and TV	Radio and TV broadcasting	Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner-occupied dwellings	Real estate and royalties	Hotels and lodging places	Personal and repair services (exc. auto)	Computer and data processing services	Legal, engineering, accounting, and related services	Other business and professional services, except medical	Advertising	Commodity number
66	67	68A	68B	68C	69A	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D	
											0.0004				0.0012		1
										.0005	.0008						2
										.0003							3
.00002	.00013	.00015	.00003	.00052	.00034	.00020	.00010	.00004	.00795	.00527	.00529	.00015	.00006	.00006	.00026	.00004	4
		.10035		.00044	.00006	.00002				(*)	.00018	.00006			.00002		5+6
			24304														7
																	8
																	9+10
.04145	.00971	.06621	.00962	.07798	.06685	.01365	.06686	.00299	.04897	.05700	.03618	.00975	.00271	.00176	.00664	.00558	12
(*)		(*)			.00004	(*)	(*)	(*)		(*)	.00001			.00004	.00093		13
.00001	.00035	(*)	(*)	.00037	.00016	.00226	.00001	.00001		.00003	.00254	.00031	.00001	.00005	.00064	.00001	14
					(*)						.00116	.00286			(*)		16
.00045	.00001	.00003	(*)	.00011	.00014	.00006				(*)	.00019	.00023	(*)	.00001	.00003		17
.00001	.00001	(*)			.00015	.00005				.00001	.00235	.00512			.00035	.00001	18
				.01258	.00039	.00011	.00045	.00007		.00001	.01294	.00542	.00001	(*)	.00005	.00111	19
					.00015	.00001				.00009	.00012	.00038	.00015	.00018	.00013	.00007	20+21
.00049	.00046	.00027	.00007	.06065	.00412	.0701	.0290	.00083		.00001	.00002	.00002	.00002	.00002	.00002	.00002	22+23
.00027	.00003	.00009			.01000	.00125	.00001	.00001		.00006	.00100	.00033	.00019	.00020	.00016	.00054	24
.00011	.00022	.00005	.00002	.00020	.00022	.00021	.00106	.00014		.00004	.00082	.00033	.00028	.00018	.00035	.00021	26A
.00427	.00180	.00092	.00026	.00177	.00026	.00179	.00895	.00043		.00338	.00895	.01039	.03398	.00853	.01339	.04330	26B
.00058	.00100	.00319	.00006	.04520	.00016	.00006	.00004	.00003		(*)	.00006	.00012	.00353	.00006	.00008	.00351	27A
				.00020					.00083	.00029	.00518				.00132		27B
						.00009						.00052					28
.00032			.00008		.00009	.00007	.00010			.00010	.00589	.01354	.00014	.00021	.00021	.00021	29A
.00068												.00002			.00325	.00007	29B
.00073	.00032	.02325	.05000	.02308	.06651	.0502	.00146	.00057		.00102	.00589	.00468	.00199	.00257	.00312	.00290	31
.00244	.00003	.00089	.00008	.02250	.00277	.00100	.00028	.00012	.00023	.00142	.01883	.01669	.01630	.00159	.00794	.00118	32
.00003	.00008	.00001	.00001	.00004	.00015	.00005	.00007	.00010		.00003	.00021	.01042	.00007	.00021	.00009	.00007	33+34
.00009	.00001	.00009	.00001	.00306	.00039	.00002	.00015	.00001		.00002	.01168		.00005	.00019	.00002		35
.00001	.00007	(*)	.00107	.00026	.00004	.00004	.00004	.00001		.00008	.00073	.00372	.00001	.00001	.00027	.00001	36
.00001	.00001	.00001	.00001	.00008	.00002	(*)	(*)	(*)		(*)	.00002	.00006	.00001	.00002	.00008	.00004	37
.00027		.00083										.00044					38
		.00011			.00149					.00031	.00016				.00112		39
					.00009												40
.00204		.00074								.00016			.00092		.00069		41
.00113	.00002	.00015	.00003	.02770	.00056	.00142	.00005	.00001		.00019	.00062	.00277	.00043	.00060	.00097	.00027	42
.00150		.00472											.00043		.00046		43
		.00009			.00006				.00060	.00001					.00231		44+45
					.00062	(*)				(*)					.00117		46
.00002	.00004	.00061	.00003	.00020	.00023	.00006	.00001	(*)		(*)	.00004	.00020	.00004	.00004	.00265	.00003	47
					.00001	.00002				(*)	.00001	.00001	.00002	.00002	.00124	.00001	48
.00187		.00055	.00007	.00045	.00002	.00003	.00022			.00006					.00328		49
.00004	.00008	.00035	.00008	.00044	.00051	.00017	.00002	.00001		.00001	.00008	.00081	.00009	.00024	.00119	.00006	50
.00036	.00069	.00003	.00070		.00012	.00009	.00017	.00006		.00006	.00014	.00700	.01598	.00146	.00160	.00059	51
			.00028	.00029	.00029	.00021						.00237			.00115		52
.00164	.00074	.00150	(*)		(*)		.00003	(*)				.00059	.00145	(*)	.00253		53
(*)		(*)			.00002	(*)	(*)	(*)		.00016	.00018	.00092			.00013		54
.00034	.00001	.00098	.00014	.00212	.00009	.00009	.00014	.00003		.00017	.00299	.00040	.00011	.00037	.00082	.00006	55
.01352	.00172	.00001	(*)	.00004	.00005	.00008	.00013	.00014		.00006	.00010	.00036	.00018	.00009	.00043	.00007	56
.01044	.02646		.00004	.00012	.00005	.00001	.00074	.00005				.02425	.02871	.00008	.01511		57
.00128	.00156	.00161	.00147	.00162	.00050	.00031	.00128	.00098			.00036	.00008	.00042	.00725	.00191	.00288	58
				.06445	.00082	.00057	.00017	.00024		.00013	.00040	.00047	.00024	.00100	.00051	.00061	59A
.00009	.00008	.00010	.00008														59B
.00009	.00007	.00006	.00003			.00023	.00001				.00015				.00119		60
.00006	.00074	.00071	.00025	.03534	.00016	.00005	.00003	.00003		.00001	.00082	.00039	.00061	.00003	.00062	.00011	61
.00042	.00648	.00020	.00009	.00046	.00045	.00028	.00365	.00147		.00024	.00044	.00905	.00048	.00404	.00633	.00060	62
.00058	.00036	.00017	.00008	.00087	.00091	.00098	.00143	.00082		.00035	.00283	.02130	.00040	.00213	.00160	.00127	64
.00045	.00116	.02682	.00014	.00317	.00118	.00172	.00196	.00188	.00003	.00117	.00257	.00118	.00102	.00073	.00166	.00176	65A
.00088	.00210	.00308	.00023	.00646	.00228	.00273	.01839	.00235	.00004	.00157	.00422	.00457	.00186	.00126	.00309	.00231	65B
.00009	.00005	.00314	.00037	.00123	.00026	.00013	.00008	.00004	.00001	.00004	.00025	.00031	.00006	.00013	.00057	.00015	65C
.00145	.00716	.00254	.00160	.00248	.01023	.00185	.00728	.00290	(*)	.00112	.00112	.00282	.00906	.00940	.01484	.00268	65D
.00001	.00002	.00011	.00430	.00039	.00093	.00008	.00003	.00040		.00030	.00119	.00007	.00004	.00005	.00007	.00004	65E
.20595	.00646	.00144	.00037	.00654	.01315	.01087	.01812	.01391		.00405	.01433	.01479	.02582	.01239	.01542	.01324	66
	.01601															.02854	67
.00298	.00083	.00020	.00245	.00329	.00773	.02363	.00594	.00057		.00081	.03116	.01797	.00486	.00262	.00577	.00271	68A
.00014	.00011	.04391	.31024	.04425	.00432	.00240	.00036	.00003		.00042	.01474	.00718	.00063	.00048	.00190	.00062	68B
.00705	.00112	.00152	.00036	.05416	.00073	.00163	.00102	.00172		.00020	.00906	.00218	.00023	.00095	.00038	.00020	68C
.00548	.00523	.01014	.00431	.03193	.02349	.00403	.00435	.00160	.00044	.00130	.01361	.02289	.01486	.00674	.01376	.00441	69A
.00025	.00013	.00036	.00029	.00513	.00180	.00214	.00047	.00027	.00079	.00060	.00123	.00125	.00067	.00125	.00117	.00112	69B
.01178	.00998	.01167	.00998	.01410	.01364	.00874	.16855	.03374	.00498	.01655	.00411	.01273	.00893	.00794	.01138	.00969	70A
.00040	.00012	.00719	.00075	.09486	.00117	.00127	.01144	.31305	.02985	.01663	.00115	.00109	.00059	.00177	.00339	.00120	70B
																	71A
.01741	.05335	.00383	.00207	.00710	.02338	.05778	.03310	.02795	.03758	.08499	.03716	.05681	.03372	.04960	.02888	.06731	71B
.00050	.00113	.00031	.00011	.00333	.00703	.00142	.00281	.00606		.00233	.00069	.00126	.00143	.01758	.00476	.01201	72A
.00250	.01178	.00203	.00054	.01262	.00416	.00471	.00149	.00111		.00201	.01668	.02165	.00092	.00313	.00125	.00287	72B
.01022	.00418	.00686	.00354	.00786	.00094	.00466	.00431	.00667		.00020	.00094	.00537	.11605	.04656	.02734	.00133	73A
.00441	.01365	.00384	.00146	.01217	.01156	.03367	.02525	.01633	.00510	.00576	.01537	.04170	.00807	.08644	.02394	.01257	73B
.00657	.01598	.00392	.00253	.01188	.04882	.01777	.04543	.01136	.00414	.01936	.00681	.03387	.02752	.08999	.06352	.02751	73C
.00730	.00278	.00059	.00029	.00160	.02002	.04968	.01238	.01171		.01647	.01604	.02250	.00876	.00277	.01051	.00579	73D
.00312	.00786	.00102	.00053	.00476	.01365	.01308	.01171	.01652		.00878	.00123	.00697	.0077				

Table 3.1.—Commodity-by-Industry Direct Requirements, 1987 Benchmark—Continued

[Direct requirements per dollar of industry output, at producers' prices]

Commodity number	For the composition of inputs to an industry, read the column for that industry Industry number	Eating and drinking places	Auto-motive repair and services	Amusements	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	General government industry	Household industry	Inventory valuation adjustment
		74	75	76	77A	77B	78	79	82	84	85
1	Livestock and livestock products	0.00187		0.00026	0.00018	0.00054	0.00009				
2	Other agricultural products .....	.00691		.00011	.00036	.00062	.00032	.00001			
3	Forestry and fishery products .....	.00799		.00005	.00008	.00020	.00034				
4	Agricultural, forestry, and fishery services .....	.00005	.00013	.00730	.00047	.00317	.00006	.00180			
5+6	Metallic ores mining										
7	Coal mining .....	.00002	.00005	.00002	.00002	.00005	.02336	.01528			
8	Crude petroleum and natural gas										
9+10	Nonmetallic minerals mining .....					.00002		.00036			
11	New construction										
12	Maintenance and repair construction .....	.00877	.00501	.01301	.00810	.04686	.01259	.23160			
13	Ordnance and accessories			(*)	.00001	.00003	.00001	.00001			
14	Food and kindred products .....	.22463	.00005	.00837	.00897	.01945	.00865	.00006			
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills .....			.00088		.00030	.00032				
17	Miscellaneous textile goods and floor coverings .....	.00012	.00012	.00011	.00005	.00006	.00010	.00014			
18	Apparel .....		.00129	.00177	.00111	.00159	.00002	.00044			
19	Miscellaneous fabricated textile products .....	.00008	(*)	.00116	.00229	.00045	.00171	.00008			
20+21	Lumber and wood products .....	.00013	.00007	.00267	.00014	.00131					
22+23	Furniture and fixtures	(*)	(*)	.00012	.00001	.00001					
24	Paper and allied products, except containers .....	.00351	.00145	.00195	.00456	.01001	.00070	.00073			
25	Paperboard containers and boxes .....	.00415	.00012	.00008	.00037	.00079	.00032	.00001			
26A	Newspapers and periodicals .....	.00003	.00033	.00036	.00053	.00378	.00007	.00009			
26B	Other printing and publishing .....	.00141	.00061	.00495	.00774	.06383	.00843	.00233			
27A	Industrial and other chemicals .....	.00030	.00045	.00214	.01925	.00148	.00017	.01637			
27B	Agricultural fertilizers and chemicals .....			.00012	.00003	.00040		.00171			
28	Plastics and synthetic materials										
29A	Drugs .....				.01910	.00083	.00001	.00005			
29B	Cleaning and toilet preparations .....	.00056	.00008	.00014	.00248	.00124	.00064	.00075			
30	Paints and allied products .....		.00600	.00003		.00025		.00001			
31	Petroleum refining and related products .....	.00061	.02802	.00133	.00272	.00644	.01412	.06116			
32	Rubber and miscellaneous plastics products .....	.00698	.01018	.00494	.02314	.00678	.00108	.00165			
33+34	Footwear, leather, and leather products .....	.00032	.00004	.00068	.00004	.00024	.00031	.00002			
35	Glass and glass products .....	.00162	.00648	.00004	.00233	.00165	.00007	.00013			
36	Stone and clay products .....	.00018	.00028	.00003	.00085	.00003		.00205			
37	Primary iron and steel manufacturing	(*)	(*)	.00001	.00002	.00012		(*)			
38	Primary nonferrous metals manufacturing .....	.00010		.00035		(*)	.00002				
39	Metal containers										
40	Heating, plumbing, and fabricated structural metal products .....					.00003	.00002	.00003			
41	Screw machine products and stampings .....	.00004	.02549	.00038	.00072	.00110	.00198	.00005			
42	Other fabricated metal products .....	.00025	.03684	.00075	.00052	.00189	.00018	.00044			
43	Engines and turbines .....		.00187					.00088			
44+45	Farm, construction, and mining machinery .....			.00002		(*)		.00304			
46	Materials handling machinery and equipment .....						.00009				
47	Metalworking machinery and equipment	(*)	.00014	.00023	.00002	.00007	.00012	.00022			
48	Special industry machinery and equipment .....	.00025	.00010	.00002	.00001	.00001					
49	General industrial machinery and equipment .....	.00044	.00041	.00002	(*)		.00038	.00018			
50	Miscellaneous machinery, except electrical .....	.00055	.00958	.00018	.00006	.00021	.00030	.00618			
51	Computer and office equipment .....	.00002	.00008	.00009	.00013	.00070	.00006	.00003			
52	Service industry machinery .....	.00007	.00516	.00070	.00003	.00007	.00049	.00028			
53	Electrical industrial equipment and apparatus .....		.00133	(*)	(*)	.00005	.00005	.00726			
54	Household appliances	(*)		.00002	.00002	.00009	.00007	.00072			
55	Electric lighting and wiring equipment .....	.00042	.00730	.00085	.00091	.00132	.00058	.00151			
56	Audio, video, and communication equipment .....	.00003	.00138	.00005	.00002	.00080	.00012	.00001			
57	Electronic components and accessories .....			.00009	.00007	.00124	.00014	.00057			
58	Miscellaneous electrical machinery and supplies .....	.00002	.00407	.00046	.00092	.00110	.00083	.00163			
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00011	.07633	.00013	.00032	.00078	.00589	.00279			
60	Aircraft and parts										
61	Other transportation equipment .....		.00026	.00131	.00001	.00006	.00074	.00186			
62	Scientific and controlling instruments .....		.00028	.00017	.01979	.00081	.00009	.00024			
63	Ophthalmic and photographic equipment .....	.00003	.00031	.00238	.00202	.00326	.00029	.00021			
64	Miscellaneous manufacturing .....	.00140	.00036	.00234	.00077	.00502	.00116	.00062			
65A	Railroads and related services; passenger ground transportation .....	.00184	.00225	.00118	.00099	.00155	.01594	.00633			
65B	Motor freight transportation and warehousing .....	.00736	.00614	.00241	.00249	.00518	.03561	.00445			
65C	Water transportation .....	.00030	.00086	.00052	.00025	.00027	.00169	.00288			
65D	Air transportation .....	.00082	.00371	.00300	.00282	.01705	.02041	.00141			
65E	Pipelines, freight forwarders, and related services .....	.00001	.00070	.00002	.00006	.00015	.00023	.00108			
66	Communications, except radio and TV .....	.00384	.00781	.00841	.00819	.01154	.00322	.00336			
67	Radio and TV broadcasting										
68A	Electric services (utilities) .....	.02123	.00770	.01407	.00937	.01335	.00619	.06452			
68B	Gas production and distribution (utilities) .....	.00174	.00398	.00282	.00443	.00632	.00182	.04435			
68C	Water and sanitary services .....	.00157	.00063	.00160	.00086	.00167	.00182	.00437			
69A	Wholesale trade .....	.04442	.03596	.00637	.01955	.01612	.00829	.02254			
69B	Retail trade .....	.00013	.03714	.00058	.00085	.00086	.00023	.00032			
70A	Finance .....	.01068	.03214	.00918	.00428	.01366	.00099	.00580			
70B	Insurance .....	.00016	.01731	.00099	.00361	.00468	.00096	.00708			
71A	Owner-occupied dwellings										
71B	Real estate and royalties .....	.04250	.03553	.05301	.06437	.10665	.01166	.00987			
72A	Hotels and lodging places .....	.00013	.00117	.00294	.00138	.00689	.00057	.00073			
72B	Personal and repair services (except auto) .....	.00272	.01369	.00527	.00291	.00268	.00020	.00025			
73A	Computer and data processing services .....	.00103	.00013	.00418	.01407	.00918	.00066	.00374			
73B	Legal, engineering, accounting, and related services .....	.01063	.00585	.02735	.00641	.01519	.00174	.03169			
73C	Other business and professional services, except medical .....	.01977	.03081	.04947	.02847	.03354	.00994	.01232			
73D	Advertising .....	.02211	.01161	.03332	.00269	.02133	.00006	.00150			
74	Eating and drinking places .....	.00377	.00662	.00740	.00573	.00762	.00170	.00163			
75	Automotive repair and services .....	.00193	.01915	.00608	.00997	.00851	.01145	.00259			
76	Amusements .....	.00461	.00014	.20386		.00026	.00085	.00005			
77A	Health services .....				.01997						
77B	Educational and social services, and membership organizations .....	.00143	.00129	.00485	.00212	.00233	.00028	.00117			
78	Federal Government enterprises .....	.00057	.00404	.00467	.00551	.01368	.00839	.00101			
79	State and local government enterprises .....	.00089	.00286	.00109	.00067	.00148	.00054	.00008			
80	Noncomparable imports .....	.00035	.00009	.00197	.00013	.00560	.02389				
81	Scrap, used and secondhand goods .....		.00129								
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	48045	52263	51974	35364	52456	25633	60063			
VA	Value added	51955	47738	48026	64636	47545	74367	39937	1.00000	1.00000	1.00000
T	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

*Less than .00005.

Table 3.2.—Input Components by Industry: Direct Requirements, 1987 Benchmark

[Direct requirements per dollar of total industry output, at producers' prices]

Industry number		Value added				Total intermediate inputs	Total	Industry number
		Total	Compensation of employees	Indirect business tax and nontax liability	Other value added			
1	Livestock and livestock products	0.17231	0.03754	0.01247	0.12231	0.82769	1.00000	1
2	Other agricultural products	53862	06478	02923	44461	46138	1.00000	2
3	Forestry and fishery products	49729	10449	02123	37157	50271	1.00000	3
4	Agricultural, forestry, and fishery services	44809	44779	.....	00030	55191	1.00000	4
5+6	Metallic ores mining	51061	26965	07363	16733	48939	1.00000	5+6
7	Coal mining	60852	32937	07986	19929	39148	1.00000	7
8	Crude petroleum and natural gas	65874	13889	04676	47308	34126	1.00000	8
9+10	Nonmetallic minerals mining	63355	30914	05306	27136	36645	1.00000	9+10
11+12	Construction	47026	30704	00725	15597	52974	1.00000	11+12
13	Ordinance and accessories	60207	39347	00746	20113	39794	1.00000	13
14	Food and kindred products	30830	13438	02217	15176	69170	1.00000	14
15	Tobacco products	63659	10812	17817	35029	36341	1.00000	15
16	Broad and narrow fabrics, yarn and thread mills	31743	21999	00616	09129	68257	1.00000	16
17	Miscellaneous textile goods and floor coverings	27244	17078	00638	09528	72757	1.00000	17
18	Apparel	42072	27269	00373	14430	57928	1.00000	18
19	Miscellaneous fabricated textile products	40707	23828	00491	16388	59293	1.00000	19
20+21	Lumber and wood products	35572	22187	01717	11668	64428	1.00000	20+21
22+23	Furniture and fixtures	46930	31030	00626	15273	53071	1.00000	22+23
24	Paper and allied products, except containers	41812	20152	01641	20019	58188	1.00000	24
25	Paperboard containers and boxes	34519	24971	00802	08746	65481	1.00000	25
26A	Newspapers and periodicals	58394	30950	00513	26931	41606	1.00000	26A
26B	Other printing and publishing	51667	31472	01095	19100	48333	1.00000	26B
27A	Industrial and other chemicals	44180	18468	02162	23551	55820	1.00000	27A
27B	Agricultural fertilizers and chemicals	24895	14431	01670	08794	75105	1.00000	27B
28	Plastics and synthetic materials	35319	16128	01883	17308	64682	1.00000	28
29A	Drugs	61569	23026	00423	38119	38431	1.00000	29A
29B	Cleaning and toilet preparations	53105	15973	00553	36579	46895	1.00000	29B
30	Paints and allied products	46123	20750	00263	25109	53877	1.00000	30
31	Petroleum refining and related products	17595	04973	07681	04941	82405	1.00000	31
32	Rubber and miscellaneous plastics products	43968	27384	01954	14630	56032	1.00000	32
33+34	Footwear, leather, and leather products	42317	27146	00317	14854	57683	1.00000	33+34
35	Glass and glass products	51040	30307	01357	19376	48960	1.00000	35
36	Stone and clay products	47020	27331	01837	17852	52980	1.00000	36
37	Primary iron and steel manufacturing	37259	26280	01738	09241	62741	1.00000	37
38	Primary nonferrous metals manufacturing	25212	18522	01046	05644	74788	1.00000	38
39	Metal containers	28740	16959	00712	11069	71260	1.00000	39
40	Heating, plumbing, and fabricated structural metal products	43252	29073	01119	13059	56748	1.00000	40
41	Screw machine products and stampings	44371	35169	01602	07600	55629	1.00000	41
42	Other fabricated metal products	50129	33126	01127	15877	49871	1.00000	42
43	Engines and turbines	44167	28186	01244	14737	55833	1.00000	43
44+45	Farm, construction, and mining machinery	44300	27951	01678	14671	55700	1.00000	44+45
46	Materials handling machinery and equipment	46004	33485	00919	11600	53996	1.00000	46
47	Metalworking machinery and equipment	58748	46371	01295	11083	41252	1.00000	47
48	Special industry machinery and equipment	52881	37816	01005	14060	47119	1.00000	48
49	General industrial machinery and equipment	53367	36769	01127	15471	46633	1.00000	49
50	Miscellaneous machinery, except electrical	59184	46946	01252	10986	40816	1.00000	50
51	Computer and office equipment	43345	24338	00787	18220	56655	1.00000	51
52	Service industry machinery	46508	29362	00674	16473	53492	1.00000	52
53	Electrical industrial equipment and apparatus	51221	34937	01074	15210	48779	1.00000	53
54	Household appliances	42928	23829	00824	18275	57072	1.00000	54
55	Electric lighting and wiring equipment	51564	29800	00899	20865	48436	1.00000	55
56	Audio, video, and communication equipment	49968	27968	00879	21121	50032	1.00000	56
57	Electronic components and accessories	55279	38079	01751	15449	44721	1.00000	57
58	Miscellaneous electrical machinery and supplies	45393	31595	01126	12672	54607	1.00000	58
59A	Motor vehicles (passenger cars and trucks)	18644	11354	01572	05719	81356	1.00000	59A
59B	Truck and bus bodies, trailers, and motor vehicles parts	38078	27637	02314	08127	61922	1.00000	59B
60	Aircraft and parts	48105	36531	00747	10827	51895	1.00000	60
61	Other transportation equipment	47320	36180	00486	10654	52680	1.00000	61
62	Scientific and controlling instruments	57468	39191	01118	17159	42532	1.00000	62
63	Ophthalmic and photographic equipment	57103	21677	01113	34313	42898	1.00000	63
64	Miscellaneous manufacturing	47574	26101	00933	20540	52426	1.00000	64
65A	Railroads and related services; passenger ground transportation	61402	42909	03637	14856	38598	1.00000	65A
65B	Motor freight transportation and warehousing	55749	35059	02655	18035	44251	1.00000	65B
65C	Water transportation	31791	23829	02855	05108	68209	1.00000	65C
65D	Air transportation	46168	30466	07539	08163	53832	1.00000	65D
65E	Pipelines, freight forwarders, and related services	59089	30664	02478	25947	40911	1.00000	65E
66	Communications, except radio and TV	58928	22815	07392	28721	41072	1.00000	66
67	Radio and TV broadcasting	45788	33629	02039	10119	54212	1.00000	67
68A	Electric services (utilities)	64747	14696	06982	43070	35253	1.00000	68A
68B	Gas production and distribution (utilities)	38972	12770	04665	21537	61028	1.00000	68B
68C	Water and sanitary services	33613	31170	05185	-02741	66387	1.00000	68C
69A	Wholesale trade	70312	41227	13622	15463	29688	1.00000	69A
69B	Retail trade	69724	44662	12616	12446	30277	1.00000	69B
70A	Finance	50450	38188	02902	09360	49550	1.00000	70A
70B	Insurance	49998	36059	07191	06749	50002	1.00000	70B
71A	Owner-occupied dwellings	85818	.....	15677	70142	14182	1.00000	71A
71B	Real estate and royalties	73746	07161	13997	52588	26254	1.00000	71B
72A	Hotels and lodging places	54176	26010	09020	19147	45824	1.00000	72A
72B	Personal and repair services (except auto)	51255	31868	01791	17596	48745	1.00000	72B
73A	Computer and data processing services	58812	41832	01076	15903	41188	1.00000	73A
73B	Legal, engineering, accounting, and related services	58833	44407	00460	13966	41167	1.00000	73B
73C	Other business and professional services, except medical	62710	41735	01790	19185	37290	1.00000	73C
73D	Advertising	68890	46615	00795	31110	31110	1.00000	73D
74	Eating and drinking places	51955	39117	04588	08250	48045	1.00000	74
75	Automotive repair and services	47738	22184	03290	22263	52263	1.00000	75
76	Amusements	48026	31601	03653	12772	51974	1.00000	76
77A	Health services	64636	52626	00562	11449	35364	1.00000	77A
77B	Educational and social services, and membership organizations	47545	44604	00274	02667	52456	1.00000	77B
78	Federal Government enterprises	74367	68457	.....	05910	25633	1.00000	78
79	State and local government enterprises	39937	27771	00037	12130	60063	1.00000	79
82	General government industry	1.00000	1.00000	.....	.....	.....	1.00000	82
84	Household industry	1.00000	1.00000	.....	.....	.....	1.00000	84
85	Inventory valuation adjustment	1.00000	.....	.....	1.00000	.....	1.00000	85

* Less than 0.000005.

Table 4.—Commodity-by-Commodity

[Total requirements, direct and indirect, per dollar

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	New construction	Maintenance and repair construction	Ordnance and accessories
		1	2	3	4	5+6	7	8	9+10	11	12	13
1	Livestock and livestock products	1.31121	0.03283	0.03001	0.08195	0.00067	0.00045	0.00050	0.00061	0.00146	0.00149	0.00065
2	Other agricultural products	3.90500	1.06613	0.03557	0.12721	0.00799	0.00058	0.00056	0.00068	0.00222	0.00226	0.00072
3	Forestry and fishery products	0.0213	0.0092	1.01892	0.0209	0.0112	0.0062	0.0037	0.0041	0.00665	0.00679	0.00047
4	Agricultural, forestry, and fishery services	0.9131	0.8382	0.14880	1.01938	0.00799	0.0060	0.0147	0.0067	0.00681	0.00694	0.00052
5+6	Metallic ores mining	0.0089	0.0069	0.00079	1.08507	0.0134	0.0061	0.0184	0.00377	0.00375	0.00485	0.00052
7	Coal mining	0.0362	0.0220	0.0151	0.0256	0.1578	1.12459	0.0257	0.1139	0.00385	0.00383	0.00355
8	Crude petroleum and natural gas	0.1734	0.0207	0.02738	0.02529	0.0245	0.1668	1.04700	0.2352	0.1911	0.1921	0.00727
9+10	Nonmetallic minerals mining	0.0511	0.0081	0.00309	0.1289	0.0289	0.0256	0.0111	1.04167	0.1386	0.1407	0.00098
11	New construction									1.00010		
12	Maintenance and repair construction	0.2848	0.2485	0.2041	0.2717	0.3185	0.2190	0.3962	0.2313	0.1315	1.01322	0.1631
13	Ordnance and accessories	0.0006	0.0005	0.00329	0.0006	0.0006	0.0004	0.0003	0.0011	0.0020	0.00020	1.02762
14	Food and kindred products	2.1258	0.0812	0.05372	0.2256	0.0238	0.0152	0.0155	0.0217	0.00350	0.00356	0.00236
15	Tobacco products	(*)			(*)							
16	Broad and narrow fabrics, yarn and thread mills	0.0164	0.0206	0.0471	0.0383	0.0096	0.0183	0.0032	0.0108	0.0240	0.0245	0.00156
17	Miscellaneous textile goods and floor coverings	0.0149	0.0123	0.00955	0.0593	0.0059	0.0052	0.0025	0.0049	0.00375	0.00383	0.00077
18	Apparel	0.0022	0.0016	0.00024	0.0034	0.0028	0.0058	0.0014	0.0051	0.0046	0.0047	0.00071
19	Miscellaneous fabricated textile products	0.0106	0.0160	0.00435	0.0403	0.0025	0.0019	0.0012	0.0029	0.0069	0.00070	0.00052
20+21	Lumber and wood products	0.0704	0.0825	0.0370	0.0512	0.1238	0.0674	0.0376	0.0385	0.7938	0.8105	0.00459
22+23	Furniture and fixtures	0.0009	0.0008	0.0011	0.0008	0.0012	0.0007	0.0010	0.0007	0.00224	0.00228	0.00048
24	Paper and allied products, except containers	0.1517	0.0998	0.0782	0.1406	0.0524	0.0439	0.0388	0.0908	0.1030	0.1045	0.00754
25	Paperboard containers and boxes	0.0865	0.0689	0.0414	0.1209	0.0196	0.0164	0.0073	0.0212	0.0359	0.0364	0.00279
26A	Newspapers and periodicals	0.0042	0.0031	0.00029	0.0041	0.0022	0.0017	0.0015	0.0202	0.0033	0.0034	0.00031
26B	Other printing and publishing	0.0694	0.0489	0.0927	0.0797	0.0403	0.0322	0.0309	0.0412	0.0503	0.0510	0.00454
27A	Industrial and other chemicals	0.1729	0.1843	0.1430	0.3146	0.4964	0.1419	0.1614	0.2914	0.1929	0.2001	0.1622
27B	Agricultural fertilizers and chemicals	0.4315	0.0863	0.03302	1.6772	0.0087	0.0049	0.0054	0.0632	0.0188	0.0189	0.00060
28	Plastics and synthetic materials	0.0468	0.0367	0.0565	0.0567	0.0549	0.0441	0.0129	0.0452	0.0068	0.0086	0.00697
29A	Drugs	0.0434	0.0023	0.00039	0.0060	0.0012	0.0004	0.0004	0.0008	0.0008	0.0008	0.00006
29B	Cleaning and toilet preparations	0.0155	0.0072	0.00071	0.0128	0.0054	0.0034	0.0033	0.0084	0.0076	0.0081	0.00044
30	Paints and allied products	0.0080	0.0065	0.0128	0.0095	0.0117	0.0077	0.0067	0.0076	0.0035	0.0054	0.0110
31	Petroleum refining and related products	0.2259	0.2388	0.4331	0.2453	0.3407	0.2629	0.0792	0.2937	0.2869	0.2880	0.00739
32	Rubber and miscellaneous plastics products	0.1401	0.1017	0.0738	0.1034	0.1986	0.1660	0.0304	0.1588	0.1937	0.1982	0.1980
33+34	Footwear, leather, and leather products	0.0059	0.0014	0.00046	0.0045	0.0009	0.0008	0.0006	0.0010	0.0021	0.0021	0.00015
35	Glass and glass products	0.0374	0.0096	0.0197	0.0208	0.0134	0.0074	0.0052	0.0114	0.0407	0.0414	0.00125
36	Stone and clay products	0.0315	0.0375	0.0215	0.0353	0.0776	0.0649	0.0644	0.0923	0.5991	0.6047	0.00498
37	Primary iron and steel manufacturing	0.0762	0.0569	0.0745	0.0605	0.4067	0.1940	0.0460	0.1587	0.4262	0.4069	0.3645
38	Primary nonferrous metals manufacturing	0.0588	0.0357	0.0524	0.0416	0.1146	0.0765	0.0276	0.1367	0.2822	0.2867	0.4737
39	Metal containers	0.0629	0.0089	0.0383	0.0180	0.0054	0.0030	0.0022	0.0040	0.0086	0.0088	0.00035
40	Heating, plumbing, and fabricated structural metal products	0.0255	0.0232	0.0227	0.0216	0.1045	0.0676	0.0298	0.0818	0.5362	0.5423	0.00247
41	Screw machine products and stampings	0.0232	0.0142	0.0193	0.0216	0.0904	0.0919	0.0084	0.0454	0.0608	0.0617	0.1124
42	Other fabricated metal products	0.0615	0.0530	0.1025	0.0626	0.0756	0.0837	0.0690	0.0728	0.2217	0.2272	0.2441
43	Engines and turbines	0.0100	0.0094	0.0333	0.0278	0.0864	0.0841	0.0688	0.0610	0.0072	0.0069	0.0154
44+45	Farm, construction, and mining machinery	0.0792	0.0951	0.0461	0.0582	0.2234	0.4992	0.0339	0.2077	0.0343	0.0275	0.00046
46	Materials handling machinery and equipment	0.0028	0.0029	0.0019	0.0036	0.0608	0.0461	0.0016	0.1216	0.0282	0.0287	0.0019
47	Metalworking machinery and equipment	0.0254	0.0186	0.0109	0.0113	0.0290	0.0186	0.0140	0.0192	0.0262	0.0266	0.00673
48	Special industry machinery and equipment	0.0044	0.0034	0.0043	0.0057	0.0041	0.0022	0.0017	0.0032	0.0049	0.0050	0.00041
49	General industrial machinery and equipment	0.0234	0.0207	0.0270	0.0194	0.1628	0.2313	0.0282	0.1603	0.0550	0.0543	0.1163
50	Miscellaneous machinery, except electrical	0.0280	0.0290	0.0195	0.0216	0.0502	0.0681	0.0112	0.0379	0.0249	0.0250	0.00759
51	Computer and office equipment	0.0043	0.0036	0.00052	0.0068	0.0057	0.0028	0.0022	0.0062	0.0068	0.0069	0.00178
52	Service industry machinery	0.0055	0.0047	0.00055	0.0068	0.0070	0.0043	0.0054	0.0040	0.1186	0.1209	0.00038
53	Electrical industrial equipment and apparatus	0.0167	0.0144	0.0145	0.0139	0.0734	0.0707	0.0293	0.0765	0.0798	0.0810	0.00428
54	Household appliances	0.0015	0.0014	0.0022	0.0021	0.0015	0.0010	0.0016	0.0012	0.0267	0.0272	0.00008
55	Electric lighting and wiring equipment	0.0143	0.0134	0.0107	0.0143	0.0189	0.0200	0.0111	0.0143	0.1732	0.1767	0.0103
56	Audio, video, and communication equipment	0.0040	0.0032	0.00039	0.0039	0.0035	0.0023	0.0028	0.0027	0.0372	0.0379	0.00739
57	Electronic components and accessories	0.0196	0.0173	0.0197	0.0214	0.0196	0.0126	0.0091	0.0188	0.0355	0.0361	0.04467
58	Miscellaneous electrical machinery and supplies	0.0519	0.0604	0.0186	0.0238	0.0212	0.0102	0.0048	0.0134	0.0237	0.0243	0.0190
59A	Motor vehicles (passenger cars and trucks)	0.0004	0.0003	0.00046	0.0005	0.0006	0.0005	0.0001	0.0003	0.0004	0.0004	0.00004
59B	Truck and bus bodies, trailers, and motor vehicles parts	0.0477	0.0478	0.0436	0.0610	0.0607	0.0250	0.0088	0.0177	0.0337	0.0342	0.00284
60	Aircraft and parts	0.0039	0.0035	0.0084	0.0129	0.0052	0.0030	0.0017	0.0049	0.0043	0.0044	0.11675
61	Other transportation equipment	0.0061	0.0032	0.1753	0.0094	0.0112	0.0079	0.0012	0.0025	0.0042	0.0042	0.00026
62	Scientific and controlling instruments	0.0068	0.0040	0.0214	0.0056	0.0134	0.0048	0.0031	0.0062	0.0313	0.0319	0.1599
63	Ophthalmic and photographic equipment	0.0082	0.0066	0.0085	0.0119	0.0078	0.0057	0.0056	0.0070	0.0123	0.0125	0.0134
64	Miscellaneous manufacturing	0.0101	0.0079	0.0082	0.0152	0.0088	0.0058	0.0043	0.0099	0.0235	0.0240	0.00071
65A	Railroads and related services; passenger ground transportation	0.1947	0.0002	0.0504	0.1207	0.0989	0.0300	0.0251	0.0694	0.0804	0.0800	0.00385
65B	Motor freight transportation and warehousing	0.0508	0.3178	0.1694	0.3423	0.1841	0.1435	0.0609	0.2641	0.3035	0.3067	0.1432
65C	Water transportation	0.0343	0.0179	0.0419	0.0330	0.0272	0.0342	0.0182	0.0217	0.0193	0.0194	0.00084
65D	Air transportation	0.0671	0.0594	0.0715	0.2333	0.0759	0.0353	0.0284	0.0725	0.0636	0.0658	0.1041
65E	Pipelines, freight forwarders, and related services	0.0408	0.0309	0.0354	0.0454	0.0346	0.0296	0.0112	0.0329	0.0310	0.0313	0.0177
66	Communications, except radio and TV	0.1348	0.1010	0.0723	0.0881	0.0756	0.0538	0.0534	0.0752	0.1314	0.1329	0.1117
67	Radio and TV broadcasting	0.0013	0.0008	0.0008	0.0014	0.0008	0.0008	0.0014	0.0008	0.0012	0.0012	0.00027
68A	Electric services (utilities)	0.2775	0.1581	0.0975	0.1761	1.1361	0.3419	0.1991	0.5837	0.1683	0.1697	0.1979
68B	Gas production and distribution (utilities)	0.1027	0.1148	0.0654	0.1454	0.2918	0.0682	0.1317	0.2148	0.1047	0.1048	0.1106
68C	Water and sanitary services	0.0534	0.0650	0.0227	0.0355	0.0408	0.0370	0.0227	0.1163	0.0251	0.0252	0.00238
69A	Wholesale trade	1.1019	0.6977	0.5566	1.0251	0.4581	0.5087	0.1532	0.4080	0.7547	0.7607	0.4535
69B	Retail trade	0.0619	0.0583	0.0417	0.0728	0.0487	0.0263	0.0232	0.0259	0.4162	0.4242	0.00185
70A	Finance	0.3145	0.2445	0.2266	0.2178	0.2302	0.1564	0.1092	0.2559	0.2440	0.2482	0.1099

Total Requirements, 1987 Benchmark

of delivery to final demand, at producers' prices]

Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paper-board containers and boxes	News-papers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet preparations	Paints and allied products	Commodity number
14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	28	29A	29B	30	
0.29427	0.00284	0.01661	0.00570	0.00580	0.00696	0.00436	0.00223	0.00282	0.00179	0.00117	0.00142	0.00270	0.00339	0.00248	0.00515	0.00658	0.00514	1
.17841	.08046	.12293	.03525	.03398	.04147	.00518	.00668	.00394	.00250	.00122	.00178	.00605	.00303	.00928	.00351	.00487	.00506	2
.00864	.00051	.00066	.00089	.00621	.00104	.11541	.01072	.01023	.00484	.00162	.00214	.00158	.00076	.00098	.00060	.00085	.00206	3
.03001	.00659	.01077	.00356	.00409	.00406	.01783	.00261	.00242	.00140	.00080	.00092	.00133	.00113	.00143	.00093	.00116	.00129	4
.00190	.00038	.00163	.00238	.00084	.00116	.00180	.00456	.00174	.00180	.00060	.00120	.01063	.00304	.00511	.00095	.00242	.00859	5+6
.00412	.00220	.00868	.00839	.00436	.00528	.00486	.00543	.01327	.00838	.00300	.00450	.01070	.00772	.01129	.00261	.00379	.00551	7
.01403	.00572	.02155	.02619	.01170	.01431	.01869	.01235	.02386	.02220	.00942	.01245	.08991	.09042	.04428	.00897	.02214	.03369	8
.00296	.00115	.00289	.00283	.00121	.00164	.00249	.00185	.00654	.00360	.00126	.00180	.01055	.08471	.00501	.00115	.00247	.00572	9+10
.01970	.00777	.02231	.02038	.01367	.01666	.02244	.02163	.02329	.02072	.01325	.01436	.02496	.02748	.02245	.01150	.01342	.01825	11
.00007	.00002	.00006	.00005	.00006	.00005	.00044	.00012	.00008	.00008	.00008	.00005	.00006	.00008	.00005	.00006	.00005	.00006	12
1.25003	.00197	.00637	.00705	.00539	.00692	.00949	.00539	.00991	.00633	.00433	.00515	.00985	.01313	.00685	.00709	.02459	.02074	13
(*)	1.16115	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14
.00184	.00099	1.36175	.31716	.35141	.35797	.00291	.05678	.01686	.00827	.00292	.00592	.00152	.00134	.00993	.00111	.00268	.00186	15
.00116	.00043	.01410	.104613	.06887	.07607	.00442	.02924	.00645	.00315	.00125	.00246	.00658	.00070	.00131	.00061	.00183	.00049	16
.00025	.00019	.00108	.00128	1.23173	.01270	.00051	.00073	.00045	.00036	.00023	.00029	.00020	.00028	.00035	.00016	.00021	.00019	17
.00086	.00022	.00058	.00052	.02996	1.03020	.00113	.00205	.00037	.00029	.00027	.00030	.00050	.00039	.00019	.00035	.00028	.00019	18
.00766	.00479	.00497	.00667	.00363	.00900	1.40510	.12839	.10251	.04797	.01545	.02042	.00602	.00543	.00576	.00329	.00571	.00381	20+21
.00007	.00003	.00007	.00007	.00005	.00007	.00148	1.00414	.00018	.00012	.00006	.00007	.00008	.00008	.00007	.00004	.00005	.00006	22+23
.03851	.03927	.01558	.02886	.01467	.02207	.01313	.02028	1.20376	.54557	.16668	.22192	.02265	.02254	.02991	.01859	.03542	.01316	24
.02686	.00490	.00990	.01336	.00848	.01752	.00879	.01940	.01925	1.01252	.00467	.00987	.00884	.00917	.01132	.01212	.03937	.00492	25
.00039	.00033	.00030	.00035	.00029	.00035	.00040	.00038	.00030	.00027	1.01058	.00375	.00032	.00053	.00031	.00024	.00032	.00023	26A
.01407	.02149	.00506	.00635	.00541	.00690	.00626	.00623	.00693	.00578	.11150	1.09425	.00596	.00227	.00583	.01040	.01642	.00722	26B
.02431	.01156	.12349	.18723	.05207	.07704	.03754	.03835	.09110	.07897	.02875	.05733	1.26727	.17960	.41361	.04204	.13962	.30295	27A
.01861	.00662	.01141	.00555	.00368	.00447	.00883	.00189	.00562	.00305	.00177	.00159	.00893	1.22105	.00659	.03004	.00195	.00311	27B
.00912	.00416	.20141	.30257	.08798	.11463	.01521	.00312	.04453	.04706	.00813	.01644	.01978	.00916	1.06491	.00753	.03178	.13322	28
.00475	.00005	.00038	.00050	.00019	.00015	.00021	.00110	.00019	.00015	.00021	.00015	.00231	.00125	.00110	1.11168	.00306	.00068	29A
.00153	.00123	.00535	.00852	.00771	.00324	.00069	.00105	.00687	.00352	.00168	.00387	.00496	.00687	.00687	.00161	1.04548	.00244	29B
.00133	.00049	.00156	.00213	.00086	.00117	.00876	.01222	.00206	.00413	.00069	.00136	.00648	.00210	.00476	.00071	.00349	1.02389	30
.01558	.00692	.01712	.01680	.01098	.01161	.02296	.01287	.02214	.02371	.01143	.01274	.03020	.02583	.02057	.00680	.01941	.02177	31
.02872	.00744	.02218	.02993	.01721	.04000	.02097	.04349	.03925	.02488	.01123	.02936	.02256	.02297	.05126	.02897	.06275	.01425	32
.00025	.00007	.00030	.00024	.00815	.01562	.00038	.00364	.00016	.00027	.00019	.00038	.00014	.00013	.00015	.00012	.00012	.00009	33+34
.01702	.00042	.00919	.00384	.00291	.00409	.00573	.00592	.00573	.00178	.00134	.00134	.00592	.00060	.00258	.00855	.00937	.00217	35
.00288	.00100	.00275	.00282	.00159	.00215	.01184	.00851	.00469	.00332	.00156	.00205	.00400	.00585	.00335	.00151	.00245	.01479	36
.01432	.00021	.00513	.00686	.00345	.00457	.01966	.06400	.00758	.01030	.00443	.01128	.00907	.00744	.00473	.01169	.00347	.01920	37
.01608	.00220	.00343	.00450	.00285	.00359	.01060	.02787	.00643	.00909	.00306	.00734	.00827	.00721	.00535	.00404	.00975	.02192	38
.03404	.00038	.00136	.00181	.00082	.00105	.00134	.00117	.00120	.00112	.00048	.00070	.00728	.00117	.00359	.00506	.01497	.04734	39
.00160	.00063	.00168	.00173	.00104	.00131	.01124	.00260	.00244	.00189	.00106	.00125	.00203	.00245	.00172	.00121	.00148	.00139	40
.00411	.00079	.00134	.00157	.00113	.00141	.02214	.01457	.00331	.00237	.00127	.00167	.00180	.00256	.00165	.00312	.00754	.00199	41
.00876	.01060	.00432	.00546	.00308	.00407	.03589	.04697	.01490	.01416	.00387	.00614	.01282	.00997	.00807	.00488	.01730	.00797	42
.00061	.00021	.00064	.00063	.00037	.00043	.00090	.00057	.00069	.00059	.00030	.00038	.00090	.00118	.00072	.00025	.00038	.00056	43
.00297	.00090	.00184	.00110	.00073	.00089	.00105	.00072	.00113	.00079	.00044	.00048	.00179	.00268	.00124	.00042	.00058	.00093	44+45
.00025	.00014	.00074	.00038	.00032	.00039	.00104	.00039	.00038	.00029	.00039	.00031	.00051	.00125	.00034	.00017	.00021	.00030	46
.00175	.00079	.00157	.00163	.00095	.00139	.00494	.00469	.00189	.00213	.00088	.00114	.00157	.00140	.00164	.00079	.00146	.00128	47
.00104	.00061	.00541	.01673	.00489	.00448	.00448	.00104	.00468	.00173	.00644	.00119	.00341	.00167	.00322	.00666	.00145	.00166	48
.00254	.00089	.00176	.00231	.00117	.00132	.00432	.00469	.00273	.00209	.00109	.00128	.00264	.00457	.00373	.00131	.00317	.00212	49
.00220	.00141	.00287	.00307	.00182	.00227	.00596	.00354	.00345	.00347	.00146	.00200	.00256	.00267	.00300	.00116	.00228	.00174	50
.00040	.00020	.00048	.00050	.00035	.00043	.00042	.00048	.00047	.00042	.00112	.00118	.00052	.00061	.00054	.00087	.00037	.00036	51
.00046	.00020	.00050	.00048	.00035	.00040	.00106	.00059	.00056	.00051	.00038	.00039	.00040	.00073	.00062	.00057	.00030	.00036	52
.00144	.00054	.00153	.00229	.00103	.00120	.00304	.00404	.00192	.00187	.00110	.00140	.00263	.00260	.00194	.00086	.00130	.00170	53
.00013	.00005	.00019	.00016	.00013	.00018	.00295	.00037	.00033	.00020	.00012	.00012	.00012	.00014	.00013	.00008	.00009	.00009	54
.00091	.00038	.00090	.00081	.00060	.00073	.00316	.00119	.00115	.00094	.00065	.00074	.00092	.00107	.00089	.00053	.00062	.00069	55
.00033	.00018	.00032	.00034	.00027	.00031	.00036	.00038	.00038	.00034	.00033	.00035	.00033	.00041	.00034	.00029	.00028	.00029	56
.00188	.00110	.00208	.00223	.00181	.00201	.00200	.00251	.00198	.00176	.00321	.00273	.00223	.00243	.00205	.00235	.00184	.00195	57
.00216	.00078	.00137	.00092	.00071	.00084	.00120	.00084	.00088	.00081	.00078	.01017	.00088	.00109	.00088	.00066	.00061	.00063	58
.00003	.00001	.00002	.00002	.00002	.00002	.00010	.00003	.00004	.00004	.00002	.00002	.00002	.00003	.00003	.00001	.00002	.00003	59A
.00278	.00150	.00228	.00186															

Table 4.—Commodity-by-Commodity

[Total requirements, direct and indirect, per dollar

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Petroleum refining and related products	Rubber and miscellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products
		31	32	33+34	35	36	37	38	39	40	41	42
1	Livestock and livestock products	0.00078	0.00162	0.05008	0.00092	0.00109	0.00079	0.00091	0.00094	0.00089	0.00081	0.00088
2	Other agricultural products .....	.00082	.00439	.03194	.00118	.00146	.00087	.00122	.00106	.00092	.00096	.00102
3	Forestry and fishery products .....	.00050	.00102	.00195	.00265	.00090	.00087	.00089	.00089	.00104	.00070	.00104
4	Agricultural, forestry, and fishery services .....	.00122	.00099	.00555	.00094	.00077	.00078	.00077	.00075	.00073	.00065	.00070
5+6	Metallic ores mining .....	.00087	.00259	.00131	.00154	.00260	.04279	.10731	.03790	.01766	.01487	.01158
7	Coal mining .....	.00404	.00688	.00378	.00620	.01766	.03668	.01184	.01349	.01056	.01242	.00915
8	Crude petroleum and natural gas .....	.60401	.02311	.01296	.02602	.02302	.02542	.02538	.01967	.01445	.01421	.01452
9+10	Nonmetallic minerals mining .....	.00518	.00294	.00180	.01616	.09481	.00718	.00251	.00283	.00283	.00274	.00251
11	New construction											
12	Maintenance and repair construction .....	.03730	.01937	.01573	.02298	.02364	.04090	.02551	.02510	.02939	.02844	.02743
13	Ordnance and accessories .....	.00005	.00006	.00005	.00008	.00156	.00046	.00009	.00015	.00016	.00016	.00012
14	Food and kindred products .....	.00275	.00463	.15865	.00324	.00386	.00284	.00312	.00341	.00327	.00288	.00319
15	Tobacco products		(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00072	.01993	.05752	.00145	.00491	.00098	.00271	.00151	.00127	.00226	.00171
17	Miscellaneous textile goods and floor coverings .....	.00070	.01219	.02979	.00070	.00056	.00058	.00072	.00057	.00068	.00081	.00090
18	Apparel .....	.00021	.00048	.00241	.00041	.00042	.00042	.00034	.00037	.00030	.00038	.00048
19	Miscellaneous fabricated textile products .....	.00042	.00062	.00078	.00028	.00031	.00030	.00028	.00030	.00043	.00390	.00035
20+21	Lumber and wood products .....	.00485	.00912	.00913	.02988	.00885	.00898	.01036	.00870	.01104	.00702	.01092
22+23	Furniture and fixtures .....	.00010	.00008	.00006	.00011	.00008	.00060	.00010	.00020	.00022	.00039	.00017
24	Paper and allied products, except containers .....	.00648	.03358	.02014	.03510	.02563	.01047	.01003	.01947	.01156	.01120	.01401
25	Paperboard containers and boxes .....	.00326	.01676	.01598	.04972	.00583	.00391	.00576	.00652	.00895	.00727	.01022
26A	Newspapers and periodicals .....	.00022	.00034	.00033	.00034	.00057	.00034	.00031	.00041	.00034	.00031	.00033
26B	Other printing and publishing .....	.00452	.00596	.00677	.00606	.00507	.00610	.00546	.02700	.00515	.00546	.00551
27A	Industrial and other chemicals .....	.03220	.15131	.07570	.09466	.05344	.04817	.04592	.04028	.02674	.03040	.04287
27B	Agricultural fertilizers and chemicals .....	.00069	.00233	.00409	.00120	.00091	.00076	.00085	.00076	.00063	.00059	.00071
28	Plastics and synthetic materials .....	.00359	.20865	.04281	.00904	.01016	.00474	.02811	.01457	.00958	.00820	.01450
29A	Drugs .....	.00011	.00040	.00085	.00020	.00014	.00012	.00013	.00011	.00009	.00009	.00012
29B	Cleaning and toilet preparations .....	.00376	.00250	.00597	.00081	.00333	.00065	.00074	.00123	.00092	.00101	.00096
30	Paints and allied products .....	.00088	.00270	.00110	.00274	.00274	.00158	.00188	.01851	.00713	.00385	.00857
31	Petroleum refining and related products	1.08356	.01590	.01097	.01473	.02240	.01988	.02577	.01832	.01431	.01262	.01334
32	Rubber and miscellaneous plastics products .....	.00927	1.06401	.04715	.01907	.01090	.01036	.02589	.01453	.01905	.01242	.02759
33+34	Footwear, leather, and leather products .....	.00013	.00022	1.21914	.00027	.00012	.00016	.00013	.00014	.00014	.00018	.00013
35	Glass and glass products .....	.00301	.00715	.00342	1.08720	.00300	.00104	.00236	.00131	.00924	.00299	.00391
36	Stone and clay products .....	.00566	.00595	.00308	.02659	1.13271	.02381	.01119	.01062	.01140	.01128	.01048
37	Primary iron and steel manufacturing .....	.00774	.01439	.00694	.00777	.01622	1.18362	.03229	.27527	.24540	.30122	.16230
38	Primary nonferrous metals manufacturing .....	.00375	.00905	.00687	.00673	.00672	.04587	1.44117	.38678	.12140	.06276	.07740
39	Metal containers .....	.00181	.00150	.00504	.00090	.00078	.00068	.00072	1.01851	.00081	.00076	.00109
40	Heating, plumbing, and fabricated structural metal products .....	.00267	.00216	.00120	.00194	.00256	.00347	.00307	.00233	1.02505	.00303	.00304
41	Screw machine products and stampings .....	.00108	.00715	.00306	.00454	.00453	.00751	.00556	.00535	.03223	1.02003	.01961
42	Other fabricated metal products .....	.00090	.01609	.01049	.00549	.01031	.01931	.01924	.02542	.04394	.02790	1.05936
43	Engines and turbines .....	.00073	.00075	.00038	.00062	.00133	.00167	.00178	.00105	.00099	.00147	.00154
44+45	Farm, construction, and mining machinery .....	.00239	.00074	.00088	.00093	.00348	.00307	.00300	.00171	.00122	.00124	.00102
46	Materials handling machinery and equipment .....	.00027	.00032	.00025	.00039	.00146	.00103	.00114	.00065	.00052	.00046	.00040
47	Metalworking machinery and equipment .....	.00137	.00339	.00164	.00700	.00176	.00913	.01427	.00793	.01432	.03432	.01215
48	Special industry machinery and equipment .....	.00035	.00430	.00161	.00172	.00056	.00049	.00054	.00065	.00045	.00047	.00062
49	General industrial machinery and equipment .....	.00264	.00244	.00126	.00195	.00416	.01912	.01845	.00987	.01151	.00892	.00678
50	Miscellaneous machinery, except electrical .....	.00154	.00509	.00264	.00496	.00292	.00618	.00569	.00539	.00647	.01613	.00791
51	Computer and office equipment .....	.00040	.00052	.00038	.00042	.00049	.00068	.00053	.00053	.00049	.00061	.00065
52	Service industry machinery .....	.00057	.00052	.00039	.00048	.00049	.00077	.00061	.00058	.00165	.00093	.00063
53	Electrical industrial equipment and apparatus .....	.00235	.00208	.00108	.00398	.00259	.01121	.01198	.00637	.00794	.00692	.00911
54	Household appliances .....	.00016	.00013	.00021	.00051	.00013	.00018	.00015	.00014	.00016	.00016	.00014
55	Electric lighting and wiring equipment .....	.00117	.00219	.00072	.00114	.00172	.00145	.00122	.00102	.00117	.00149	.00115
56	Audio, video, and communication equipment .....	.00036	.00034	.00030	.00042	.00046	.00043	.00040	.00038	.00042	.00053	.00041
57	Electronic components and accessories .....	.00146	.00292	.00198	.00199	.00208	.00264	.00375	.00258	.00253	.00264	.00342
58	Miscellaneous electrical machinery and supplies .....	.00074	.00104	.00083	.00076	.00086	.00106	.00118	.00095	.00088	.00145	.00129
59A	Motor vehicles (passenger cars and trucks) .....	.00002	.00003	.00003	.00003	.00004	.00004	.00004	.00003	.00024	.00021	.00004
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00169	.00218	.00160	.00215	.00253	.00231	.00324	.00266	.00284	.00766	.00309
60	Aircraft and parts .....	.00029	.00039	.00042	.00048	.00050	.00045	.00048	.00061	.00076	.00047	.00084
61	Other transportation equipment .....	.00032	.00046	.00031	.00051	.00062	.00087	.00054	.00051	.00044	.00043	.00036
62	Scientific and controlling instruments .....	.00059	.00121	.00064	.00169	.00091	.01008	.01010	.00091	.00291	.01003	.00110
63	Ophthalmic and photographic equipment .....	.00077	.00101	.00098	.00092	.00100	.00112	.01003	.00124	.00103	.00105	.00104
64	Miscellaneous manufacturing .....	.00062	.00087	.01238	.00068	.00155	.00088	.00081	.00085	.00118	.00088	.00101
65A	Railroads and related services; passenger ground transportation .....	.00455	.01551	.00863	.01843	.02202	.02696	.01531	.01593	.01230	.01296	.01005
65B	Motor freight transportation and warehousing .....	.01226	.04702	.02961	.02928	.08602	.02959	.06119	.04643	.03510	.03073	.02851
65C	Water transportation .....	.00893	.00343	.00192	.00208	.00555	.00747	.00312	.00320	.00262	.00289	.00235
65D	Air transportation .....	.00502	.00605	.00743	.00826	.00542	.00607	.00758	.01029	.00758	.00563	.00782
65E	Pipelines, freight forwarders, and related services .....	.04465	.00386	.00262	.00327	.00522	.00369	.00451	.00388	.00296	.00264	.00270
66	Communications, except radio and TV .....	.00912	.01084	.01047	.01588	.01577	.01023	.01117	.01037	.01086	.01086	.01167
67	Radio and TV broadcasting .....	.00015	.00018	.00027	.00028	.00025	.00037	.00020	.00035	.00020	.00022	.00027
68A	Electric services (utilities) .....	.03039	.04120	.02422	.04434	.04486	.06561	.08500	.05364	.03502	.03830	.03601
68B	Gas production and distribution (utilities) .....	.02457	.02648	.01393	.06227	.03763	.05598	.04142	.03518	.02423	.02672	.02339
68C	Water and sanitary services .....	.00386	.00543	.00367	.00440	.00576	.01048	.00446	.00657	.00422	.00612	.00398
69A	Wholesale trade .....	.06543	.08549	.08812	.06976	.05476	.09894	.11455	.13234	.10220	.09536	.08911
69B	Retail trade .....	.00277	.00356	.00253	.00320	.00508	.00399	.00483	.00412	.00404	.00324	.00344
70A	Finance .....	.02401	.01524	.01792	.01426	.01886	.01617	.01981	.01775	.01601	.01808	.01751
70B	Insurance .....	.01099	.00834	.00739	.00671	.00823	.00855	.00986	.00931	.00791	.00772	.00731
71A	Owner-occupied dwellings											
71B	Real estate and royalties .....	.13747	.02631	.02689	.02460	.02539	.02439	.02708	.02711	.02435	.02285	.02192
72A	Hotels and lodging places .....	.00236	.00250	.00774	.00274	.00287	.00246	.00332	.00361	.00676	.00277	.00273
72B	Personal and repair services (except auto) .....	.00188	.00355	.00379	.00233	.00304	.00311	.00412	.00321	.00259	.00328	.00297
73A	Computer and data processing services .....	.00635	.00857	.00518	.00613	.00827	.00780	.00710	.00700	.00579	.00903	.00

Total Requirements, 1987 Benchmark—Continued

of delivery to final demand, at producers' prices]

Engines and turbines	Farm, construction, and mining machinery	Materials handling machinery and equipment	Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Audio, video, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Commodity number
43	44+45	46	47	48	49	50	51	52	53	54	55	56	57	58	59A	59B	60	
0.00068	0.00084	0.00089	0.00083	0.00085	0.00080	0.00076	0.00087	0.00084	0.00088	0.00101	0.00093	0.00076	0.00083	0.00112	0.00124	0.00088	0.00075	1
.00071	.00087	.00086	.00086	.00087	.00097	.00074	.00086	.00092	.00093	.00154	.00118	.00092	.00100	.00129	.00260	.00115	.00102	2
.00050	.00073	.00072	.00058	.00067	.00060	.00047	.00045	.00110	.00069	.00142	.00081	.00062	.00049	.00062	.00090	.00092	.00044	3
.00056	.00066	.00063	.00056	.00059	.00057	.00055	.00061	.00065	.00067	.00076	.00067	.00058	.00061	.00072	.00087	.00071	.00061	4
.01356	.00863	.00802	.00727	.00722	.00883	.00904	.00369	.01040	.00946	.00764	.00837	.00358	.00631	.01314	.00652	.01059	.00758	5+6
.00906	.00834	.00663	.00651	.00556	.00694	.00592	.00294	.00601	.00688	.00552	.00311	.00433	.00478	.00628	.00717	.00399	.00717	7
.01124	.01155	.01078	.01071	.01035	.01044	.00864	.00763	.01062	.01361	.01291	.01190	.00743	.00965	.01264	.01432	.01318	.00851	8
.00213	.00193	.00174	.00240	.00168	.00185	.00187	.00081	.00269	.00215	.00223	.00195	.00086	.00128	.00139	.00203	.00210	.00114	9+10
.02236	.02348	.02461	.01835	.01998	.01980	.02089	.02003	.01973	.02129	.01941	.01885	.01519	.02156	.01890	.02169	.02253	.01786	12
.00014	.00013	.00013	.00011	.00010	.00011	.00012	.00006	.00010	.00009	.00011	.00007	.00015	.00006	.00019	.00011	.00011	.00021	13
.00246	.00306	.00332	.00310	.00317	.00288	.00324	.00324	.00303	.00322	.00347	.00335	.00273	.00282	.00414	.00385	.00309	.00262	14
.00120	.00144	.00125	.00141	.00118	.00300	.00110	.00130	.00161	.00156	.00541	.00244	.00232	.00186	.00228	.01496	.00322	.00416	15
.00073	.00095	.00098	.00059	.00086	.00661	.00138	.00071	.00097	.00090	.00133	.00074	.00119	.00099	.00159	.00703	.00297	.00230	17
.00043	.00032	.00030	.00033	.00027	.00038	.00028	.00028	.00032	.00034	.00039	.00031	.00055	.00052	.00044	.00079	.00037	.00036	18
.00037	.00036	.00037	.00044	.00026	.00029	.00023	.00033	.00034	.00039	.00043	.00041	.00030	.00029	.00040	.02807	.00258	.00282	19
.00487	.00743	.00729	.00560	.00660	.00592	.00433	.00395	.01184	.00677	.01525	.00810	.00605	.00437	.00528	.00879	.01953	.00416	20+21
.00019	.00017	.00025	.00012	.00013	.00012	.00011	.00032	.00015	.00012	.00246	.00011	.01085	.00034	.00026	.01287	.00092	.00065	22+23
.00929	.01101	.01076	.01009	.01012	.01112	.00872	.01108	.01322	.01906	.02451	.01718	.01394	.00969	.01949	.01531	.01226	.00841	24
.00507	.00600	.00432	.00661	.00517	.00663	.00532	.00529	.01006	.00894	.02483	.01841	.00688	.00528	.01085	.00741	.00601	.00241	25
.00028	.00034	.00038	.00033	.00032	.00032	.00032	.00033	.00032	.00032	.00036	.00032	.00032	.00032	.00032	.00032	.00032	.00032	26A
.00488	.00579	.01015	.00490	.00520	.00499	.00480	.00578	.00527	.00624	.00615	.00554	.00730	.00478	.00684	.00696	.00594	.00549	26B
.01796	.01996	.01764	.02435	.02857	.01719	.01380	.01496	.04249	.02098	.04137	.00512	.02376	.00414	.03990	.02840	.01362	.00851	27A
.00044	.00052	.00048	.00050	.00054	.00047	.00042	.00048	.00057	.00058	.00088	.00074	.00053	.00065	.00082	.00089	.00064	.00051	27B
.00777	.01011	.00771	.00927	.00814	.01079	.00724	.01163	.01563	.01429	.01018	.03423	.01706	.01919	.02224	.02926	.02092	.00920	28
.00006	.00007	.00007	.00007	.00008	.00007	.00006	.00006	.00009	.00007	.00013	.00010	.00008	.00011	.00013	.00012	.00009	.00007	29A
.00047	.00051	.00049	.00050	.00048	.00051	.00050	.00047	.00056	.00061	.00053	.00070	.00057	.00073	.00090	.00078	.00050	.00050	29B
.00172	.00411	.00259	.00218	.00123	.00124	.00114	.00127	.00446	.00399	.00888	.00295	.00162	.00116	.00135	.01522	.00549	.00284	30
.01092	.01135	.01160	.01134	.01062	.01074	.00928	.00938	.01089	.01642	.01158	.01149	.00748	.00902	.01279	.01474	.01367	.00993	31
.02138	.03727	.02414	.01478	.02487	.02254	.01155	.03914	.03128	.03108	.05486	.03216	.05516	.06346	.05920	.09034	.04854	.01935	32
.00012	.00024	.00012	.00015	.00011	.00011	.00011	.00015	.00015	.00013	.00018	.00011	.00021	.00013	.00014	.00067	.00019	.00015	33+34
.00114	.00133	.00130	.00115	.00433	.00105	.00112	.00215	.00251	.00167	.01329	.04070	.00389	.01030	.00290	.01323	.00373	.00149	35
.01103	.00881	.00821	.01678	.00833	.01028	.01269	.00319	.01050	.01498	.01048	.00641	.00311	.00458	.00711	.00941	.01182	.00660	36
.19245	.17180	.13879	.10854	.09719	.13169	.10001	.02054	.09643	.07801	.11043	.06985	.01786	.01977	.03236	.07840	.11338	.04013	37
.09502	.03691	.04376	.04591	.05097	.05724	.07609	.03849	.09475	.09038	.08488	.07703	.03680	.07060	.06450	.04540	.08729	.08291	38
.00046	.00062	.00054	.00050	.00052	.00044	.00038	.00047	.00068	.00062	.00100	.00066	.00048	.00054	.00069	.00133	.00074	.00043	39
.01667	.04258	.03133	.01557	.01827	.00974	.01378	.00560	.01191	.00720	.00279	.00194	.00438	.00060	.00912	.00221	.00221	.00496	40
.02383	.02098	.02457	.01227	.01108	.01275	.01286	.00823	.02783	.02135	.02115	.03438	.01265	.01241	.01490	.09226	.04404	.01697	41
.02532	.02685	.04679	.01521	.02101	.01751	.01912	.01671	.01521	.01818	.02291	.02379	.04423	.03428	.03144	.02517	.02047	.02047	42
1.09475	.05206	.01167	.00180	.00484	.00492	.00194	.00050	.00265	.00665	.00127	.00072	.00038	.00048	.00080	.00265	.00323	.00058	43
.00148	1.03745	.00133	.00080	.00071	.00091	.00098	.00041	.00080	.00078	.00080	.00078	.00040	.00075	.00075	.00075	.00087	.00055	44+45
.00041	.00134	1.05200	.00033	.00088	.00046	.00037	.00023	.00038	.00037	.00032	.00029	.00020	.00025	.00031	.00049	.00050	.00023	46
.01163	.00924	.00985	1.04202	.01284	.01010	.01775	.00261	.00097	.00604	.00601	.00647	.00316	.00029	.00031	.01535	.00862	.01984	47
.00036	.00047	.00065	.00055	1.02244	.00069	.00038	.00075	.00053	.00058	.00084	.00065	.00111	.00334	.00099	.00096	.00061	.00044	48
.00112	.03456	.03883	.01025	.02878	1.07202	.01551	.02824	.00519	.00811	.01117	.00237	.00251	.00257	.01201	.00271	.00259	.00259	49
.04019	.03260	.02923	.03200	.03010	.02108	1.05744	.00278	.01541	.00914	.00493	.00521	.00339	.00438	.00653	.02505	.04613	.01406	50
.00073	.00059	.00064	.00060	.00123	.00137	.00085	1.24849	.00074	.00060	.00092	.00068	.00084	.01178	.00068	.00098	.00068	.00201	51
.00061	.00058	.00060	.00048	.00064	.00068	.00055	.00042	1.06088	.00050	.02230	.00060	.00049	.00042	.00053	.02377	.00054	.00037	52
.03961	.01166	.04656	.03016	.06560	.08885	.03321	.07415	1.04039	.04424	.02708	.00941	.00700	.00700	.00700	.00860	.00551	.00531	53
.00012	.00013	.00013	.00010	.00015	.00010	.00010	.00010	.00015	.00012	1.00512	.00013	.00013	.00011	.00011	.00015	.00016	.00009	54
.00128	.00123	.00115	.00114	.00107	.00098	.00183	.00585	.00781	.00392	.01360	1.02786	.00799	.00279	.00166	.00565	.00235	.00096	55
.00055	.00040	.00046	.00037	.00043	.00042	.00040	.02802	.00040	.00063	.00104	.00054	1.03572	.00206	.01863	.01102	.00129	.01727	56
.00513	.00309	.00472	.00349	.00762	.00619	.00555	.10913	.00653	.03266	.02192	.01144	.02582	1.10781	.00767	.01741	.01111	.03101	57
.01324	.00646	.00809	.00134	.00154	.00163	.00154	.00230	.00091	.00214	.00108	.00238	.00550	.00207	1.04470	.03512	.01726	.00200	58
.00007	.00040	.00018	.00004	.00002	.00003	.00003	.00001	.00003	.00003	.00003	.00002	.00002	.00002	.00003	1.01267	.00003	.00002	59A
.00888	.00584	.00271	.00291	.00189	.00257	.00311	.00175	.00215	.00222	.00183	.00234	.00181	.00136	.00429	3.3245	1.1511		

Table 4.—Commodity-by-Commodity
 [Total requirements, direct and indirect, per dollar]

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Other transportation equipment	Scientific and controlling instruments	Ophthalmic and photographic equipment	Miscellaneous manufacturing	Railroads and related services; passenger ground transportation	Motor freight transportation and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services	Communications, except radio and TV	Radio and TV broadcasting
		61	62	63	64	65A	65B	65C	65D	65E	66	67
1	Livestock and livestock products	0.00089	0.00112	0.00094	0.00238	0.00090	0.00129	0.00193	0.00381	0.00196	0.00063	0.00291
2	Other agricultural products .....	.00151	.00161	.00118	.00427	.00091	.00140	.00192	.00275	.00170	.00061	.00246
3	Forestry and fishery products .....	.00291	.00069	.00102	.00312	.00106	.00033	.00065	.00071	.00072	.00055	.00064
4	Agricultural, forestry, and fishery services .....	.00106	.00066	.00069	.00138	.00128	.00097	.00108	.00114	.00103	.00080	.00435
5+6	Metallic ores mining .....	.00669	.00445	.00223	.00770	.00131	.00044	.00218	.00071	.00045	.00065	.00054
7	Coal mining .....	.00541	.00363	.00437	.00443	.00291	.00224	.00532	.00214	.00564	.00120	.00160
8	Crude petroleum and natural gas .....	.01255	.00785	.01010	.01207	.04734	.03979	.02668	.07337	.01309	.00376	.00498
9+10	Nonmetallic minerals mining .....	.00186	.00104	.00140	.00226	.00237	.00079	.00097	.00110	.00070	.00098	.00066
11	New construction											
12	Maintenance and repair construction .....	.03339	.01543	.01475	.01818	.12308	.01601	.02263	.02503	.03320	.05944	.02807
13	Ordnance and accessories .....	.00011	.00051	.00005	.00007	.00008	.00005	.00014	.00016	.00020	.00004	.00007
14	Food and kindred products .....	.00281	.00396	.00341	.00783	.00320	.00342	.00713	.01540	.00756	.00222	.00970
15	Tobacco products		(*)	(*)	.00001							
16	Broad and narrow fabrics, yarn and thread mills .....	.00674	.00773	.00273	.01940	.00104	.00076	.00461	.00101	.00244	.00073	.00161
17	Miscellaneous textile goods and floor coverings .....	.00710	.00543	.00204	.00306	.00093	.00046	.00396	.00046	.00076	.00040	.00045
18	Apparel .....	.00048	.00068	.00024	.00113	.00059	.00028	.00562	.00044	.00026	.00084	.00114
19	Miscellaneous fabricated textile products .....	.00891	.00028	.00024	.00454	.00057	.00052	.00439	.00084	.00555	.00019	.00080
20+21	Lumber and wood products .....	.03404	.00677	.00950	.03490	.01156	.00258	.00412	.00358	.00650	.00560	.00491
22+23	Furniture and fixtures .....	.00308	.00083	.00009	.00041	.00036	.00006	.00013	.00010	.00100	.00033	.00016
24	Paper and allied products, except containers .....	.00889	.01526	.00844	.03277	.00640	.00583	.00855	.00885	.00120	.05888	.00865
25	Paperboard containers and boxes .....	.00466	.00708	.01194	.01717	.00205	.00201	.00275	.00193	.00220	.00132	.00138
26A	Newspapers and periodicals .....	.00027	.00036	.00040	.00056	.00035	.00042	.00045	.00048	.00062	.00030	.00060
26B	Other printing and publishing .....	.00454	.00618	.00583	.00950	.00825	.00623	.00931	.00811	.01210	.00884	.00904
27A	Industrial and other chemicals .....	.02419	.02242	.00504	.04287	.01127	.00771	.01096	.00850	.00593	.00605	.00813
27B	Agricultural fertilizers and chemicals .....	.00075	.00060	.00099	.00127	.00141	.00125	.00185	.00066	.00053	.00034	.00124
28	Plastics and synthetic materials .....	.01974	.01793	.01853	.03935	.00417	.00394	.00571	.00232	.00284	.00269	.00285
29A	Drugs .....	.00008	.00047	.00014	.00015	.00006	.00005	.00009	.00010	.00007	.00048	.00009
29B	Cleaning and toilet preparations .....	.00058	.00061	.00095	.00097	.00084	.00054	.00078	.00087	.00041	.00028	.00069
30	Paints and allied products .....	.00827	.00147	.00096	.00518	.00178	.00088	.00284	.00066	.00060	.00162	.00054
31	Petroleum refining and related products .....	.01116	.00828	.00928	.01259	.00912	.06901	.04374	.12895	.00120	.05001	.00619
32	Rubber and miscellaneous plastics products .....	.02355	.02968	.00386	.03935	.01227	.01589	.01064	.00587	.00705	.00824	.00806
33+34	Footwear, leather, and leather products .....	.00027	.00020	.00012	.00432	.00014	.00020	.00028	.00024	.00047	.00015	.00071
35	Glass and glass products .....	.01279	.00461	.00719	.00235	.00232	.00105	.00118	.00107	.00105	.00084	.00100
36	Stone and clay products .....	.00874	.00442	.00295	.00817	.00866	.00171	.00320	.00251	.00251	.00393	.00215
37	Primary iron and steel manufacturing .....	.08437	.03259	.01033	.02926	.01497	.00430	.01474	.00509	.00418	.00549	.00320
38	Primary nonferrous metals manufacturing .....	.04891	.03833	.01938	.08597	.00924	.00292	.01213	.00617	.00033	.00535	.00467
39	Metal containers .....	.00081	.00072	.00059	.00096	.00046	.00036	.00064	.00079	.00036	.00023	.00045
40	Heating, plumbing, and fabricated structural metal products .....	.04123	.00707	.00158	.00178	.00801	.00121	.00269	.00174	.00207	.00346	.00183
41	Screw machine products and stampings .....	.01667	.01577	.00637	.00688	.00302	.00229	.00251	.00229	.00130	.00391	.00143
42	Other fabricated metal products .....	.03116	.02420	.01972	.01529	.01256	.00684	.02826	.00450	.00417	.00487	.00370
43	Engines and turbines .....	.05144	.00047	.00036	.00062	.00401	.00091	.00975	.00041	.00166	.00225	.00027
44+45	Farm, construction, and mining machinery .....	.00585	.00046	.00047	.00066	.00083	.00049	.00083	.00064	.00052	.00031	.00040
46	Materials handling machinery and equipment .....	.00042	.00020	.00019	.00029	.00045	.00016	.00028	.00017	.00018	.00021	.00018
47	Metalworking machinery and equipment .....	.00603	.00435	.00260	.00445	.00299	.00074	.01012	.00170	.00260	.00662	.00072
48	Special industry machinery and equipment .....	.00055	.00082	.00119	.00097	.00027	.00022	.00045	.00028	.00029	.00024	.00037
49	General industrial machinery and equipment .....	.02712	.00391	.00232	.00341	.00927	.00198	.00370	.00156	.00641	.00323	.00078
50	Miscellaneous machinery, except electrical .....	.00916	.00451	.00355	.00588	.00557	.00174	.00993	.00218	.00175	.00084	.00093
51	Computer and office equipment .....	.00052	.01223	.00209	.00080	.00066	.00057	.00124	.00096	.00159	.00151	.00203
52	Service industry machinery .....	.00500	.00039	.00034	.00136	.00204	.00080	.00061	.00049	.00056	.00081	.00082
53	Electrical industrial equipment and apparatus .....	.02237	.01791	.00534	.00426	.01725	.00202	.00425	.00138	.00254	.00338	.00184
54	Household appliances .....	.00649	.00010	.00009	.00017	.00050	.00009	.00085	.00019	.00016	.00022	.00028
55	Electric lighting and wiring equipment .....	.00529	.00344	.00250	.00136	.00314	.00137	.00260	.00090	.00103	.00182	.00124
56	Audio, video, and communication equipment .....	.00130	.00225	.00046	.00051	.00069	.00059	.00053	.00143	.00104	.01800	.00237
57	Electronic components and accessories .....	.00453	.10494	.01688	.00288	.00192	.00418	.00525	.00058	.00058	.02023	.03382
58	Miscellaneous electrical machinery and supplies .....	.00826	.00350	.00221	.00110	.00298	.00169	.00301	.00132	.00287	.00234	.00262
59A	Motor vehicles (passenger cars and trucks) .....	.02575	.00002	.00002	.00003	.00057	.00023	.00045	.00001	.00003	.00001	.00003
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.02535	.00197	.00156	.00264	.01018	.00920	.00200	.00157	.00237	.00134	.00133
60	Aircraft and parts .....	.00320	.00397	.00060	.00054	.00047	.00036	.00071	.00540	.00136	.00027	.00068
61	Other transportation equipment	1.02583	.00020	.00024	.00054	.02146	.00029	.01750	.00028	.00063	.00023	.00081
62	Scientific and controlling instruments .....	.00429	1.02741	.01057	.00093	.00078	.00032	.00212	.00228	.00055	.00064	.00139
63	Ophthalmic and photographic equipment .....	.00085	.00115	1.01443	.00148	.00092	.00105	.00158	.00119	.00162	.00109	.00866
64	Miscellaneous manufacturing .....	.00098	.00113	.00081	1.03943	.00106	.00083	.00318	.00131	.00164	.00124	.00225
65A	Railroads and related services; passenger ground transportation .....	.00792	.00482	.00624	.00822	1.05477	.00501	.00452	.00353	.00625	.00211	.00363
65B	Motor freight transportation and warehousing .....	.02365	.01422	.01705	.03228	.01243	1.19695	.01315	.00958	.01042	.00604	.00870
65C	Water transportation .....	.00170	.00106	.00176	.00205	.00246	.00201	1.11489	.00385	.00197	.00047	.00073
65D	Air transportation .....	.00747	.00866	.00975	.00708	.00608	.00625	0.001	1.06213	.02490	.00416	.01241
65E	Pipelines, freight forwarders, and related services .....	.00224	.00176	.00214	.00265	.02173	.04166	.07166	.07503	1.03990	.00086	.00162
66	Communications, except radio and TV .....	.01180	.01224	.00860	.00977	.00779	.02413	.01683	.02435	.03066	1.26328	.01817
67	Radio and TV broadcasting .....	.00019	.00029	.00028	.00050	.00008	.00009	.00019	.00029	.00029	.00012	1.01646
68A	Electric services (utilities) .....	.02463	.02137	.01905	.02590	.02036	.01808	.03879	.01655	.04880	.00833	.01230
68B	Gas production and distribution (utilities) .....	.01325	.00991	.01135	.01356	.00853	.00537	.00773	.00335	.00773	.00320	.00518
68C	Water and sanitary services .....	.00335	.00272	.00415	.00584	.00229	.00173	.00643	.00231	.00705	.00969	.00274
69A	Wholesale trade .....	.09799	.06574	.06309	.08627	.04993	.03319	.04916	.05119	.01963	.01928	.02157
69B	Retail trade .....	.00354	.00225	.00225	.00340	.01081	.03577	.00240	.00305	.00354	.00339	.00245
70A	Finance .....	.01256	.01493	.02084	.01930	.01952	.01715	.08471	.04819	.05656	.02284	.02459
70B	Insurance .....	.00646	.00622	.00743	.00794	.01264	.01986	.00869	.01452	.03438	.00382	.00550
71A	Owner-occupied dwellings											
71B	Real estate and royalties .....	.03076	.02358	.01918	.02573	.03026	.04682	.06407	.04753	.05745	.03249	.09613
72A	Hotels and lodging places .....	.00272	.00314	.00398	.00301	.00343	.00316	.00307	.00299	.00551	.00178	.00429
72B	Personal and repair services (except auto) .....	.00252	.00264	.00200	.00309	.00230	.00275	.00285	.00734	.00356	.00410	.01568
73A	Computer and data processing services .....	.00519	.00575	.00577	.00573	.01377	.00873	.02514	.01854	.02789	.01778	.01275
73B	Legal, engineering, accounting, and related services .....	.01507	.0192									

Total Requirements, 1987 Benchmark—Continued

of delivery to final demand, at producers' prices]

Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner-occupied dwellings	Real estate and royalties	Hotels and lodging places	Personal and repair services (exc. auto)	Computer and data processing services	Legal, engineering, accounting, and related services	Other business and professional services, except medical	Advertising	Eating and drinking places	Auto-motive repair and services	Amusements	Commodity number
68A	68B	68C	69A	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D	74	75	76	
0.00045	0.00042	0.00125	0.00149	0.00206	0.00151	0.00219	0.00087	0.00147	0.00212	0.00202	0.00111	0.00110	0.00177	0.00173	0.06932	0.00119	0.00593	1
.00050	.00046	.00151	.00121	.00154	.00121	.00165	.00125	.00161	.00277	.00237	.00098	.00091	.00135	.00164	.04880	.00111	.00513	2
.00065	.00039	.00221	.00083	.00055	.00046	.00049	.00040	.00068	.00075	.00068	.00046	.00037	.00048	.00134	.01039	.00053	.00108	3
.00095	.00109	.00347	.00108	.00116	.00089	.00087	.00087	.00085	.00061	.00128	.00073	.00093	.00102	.00176	.00933	.00095	.01094	4
.00076	.00049	.00184	.00037	.00031	.00032	.00023	.00023	.00038	.00059	.00101	.00076	.00035	.00072	.00084	.00067	.00224	.00052	5
.11153	.00225	.00788	.00178	.00340	.00158	.00077	.00031	.00093	.00508	.00364	.00169	.00116	.00176	.00272	.00390	.00329	.00303	6
.04220	.29405	.03692	.00924	.00759	.00573	.00333	.00159	.00403	.01495	.01124	.00584	.00578	.00773	.00831	.00773	.02437	.00720	7
.00162	.00101	.00412	.00051	.00059	.00047	.00035	.00093	.00121	.00185	.00119	.00051	.00041	.00072	.00110	.00121	.00109	.00089	8
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	9
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	10
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	11
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	12
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	13
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	14
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	15
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	16
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	17
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	18
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	19
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	20
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	21
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	22
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	23
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	24
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	25
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	26
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	27
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	28
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	29
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	30
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	31
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	32
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	33
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	34
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	35
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	36
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	37
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	38
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	39
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	40
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	41
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	42
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	43
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	44
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	45
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	46
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	47
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	48
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	49
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	50
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	51
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	52
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	53
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	54
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	55
.00000	.00000	.00000	.000															

Table 4.—Commodity-by-Commodity Total Requirements, 1987 Benchmark—Continued

[Total requirements, direct and indirect, per dollar of delivery to final demand, at producers' prices]

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	Non-comparable imports	Scrap, used, and second-hand goods	General government industry	Rest-of-the-world adjustment to final uses	Household industry	Inventory valuation adjustment
		77A	77B	78	79	80	81	82	83	84	85
1	Livestock and livestock products	0.00400	0.00809	0.00116	0.00116						
2	Other agricultural products .....	.00326	.00612	.00104	.00155						
3	Forestry and fishery products .....	.00059	.00145	.00030	.00225						
4	Agricultural, forestry, and fishery services .....	.00164	.00555	.00048	.00498						
5+6	Metallic ores mining .....	.00065	.00070	.00030	.00173						
7	Coal mining .....	.00221	.00305	.00151	.01148						
8	Crude petroleum and natural gas .....	.00860	.01290	.00836	.03390						
9+10	Nonmetallic minerals mining .....	.00088	.00149	.00032	.00581						
11	New construction										
12	Maintenance and repair construction .....	.01946	.06450	.01055	.31153						
13	Ordnance and accessories .....	.00007	.00011	.00004	.00011						
14	Food and kindred products .....	.01491	.02938	.00439	.00301						
15	Tobacco products	(*)	(*)								
16	Broad and narrow fabrics, yarn and thread mills .....	.00236	.00258	.00182	.00134						
17	Miscellaneous textile goods and floor coverings .....	.00089	.00089	.00052	.00136						
18	Apparel .....	.00158	.00222	.00017	.00101						
19	Miscellaneous fabricated textile products .....	.00264	.00093	.00253	.00047						
20+21	Lumber and wood products .....	.00349	.01063	.00159	.02579						
22+23	Furniture and fixtures .....	.00008	.00019	.00004	.00072						
24	Paper and allied products, except containers .....	.01311	.03495	.00511	.08002						
25	Paperboard containers and boxes .....	.00272	.00369	.00120	.00209						
26A	Newspapers and periodicals .....	.00072	.00432	.00018	.00032						
26B	Other printing and publishing .....	.01260	.07527	.01188	.00590						
27A	Industrial and other chemicals .....	.03403	.01375	.00338	.04060						
27B	Agricultural fertilizers and chemicals .....	.00101	.00231	.00031	.00439						
28	Plastics and synthetic materials .....	.00769	.00556	.00174	.00453						
29A	Drugs .....	.02181	.00110	.00005	.00012						
29B	Cleaning and toilet preparations .....	.00322	.00206	.00113	.00098						
30	Paints and allied products .....	.00064	.00131	.00039	.00329						
31	Petroleum refining and related products .....	.00818	.01641	.01311	.02896						
32	Rubber and miscellaneous plastics products .....	.03031	.01521	.00383	.01057						
33+34	Footwear, leather, and leather products .....	.00021	.00050	.00059	.00018						
35	Glass and glass products .....	.00374	.00318	.00057	.00205						
36	Stone and clay products .....	.00273	.00452	.00096	.02255						
37	Primary iron and steel manufacturing .....	.00364	.00578	.00291	.01605						
38	Primary nonferrous metals manufacturing .....	.00314	.00501	.00229	.01116						
39	Metal containers .....	.00086	.00112	.00023	.00064						
40	Heating, plumbing, and fabricated structural metal products .....	.00137	.00377	.00088	.01720						
41	Screw machine products and stampings .....	.00225	.00279	.00198	.00281						
42	Other fabricated metal products .....	.00365	.00610	.00242	.00993						
43	Engines and turbines .....	.00026	.00037	.00028	.00111						
44+45	Farm, construction, and mining machinery .....	.00039	.00064	.00022	.00611						
46	Materials handling machinery and equipment .....	.00016	.00031	.00020	.00101						
47	Metalworking machinery and equipment .....	.00064	.00088	.00049	.00150						
48	Special industry machinery and equipment .....	.00050	.00080	.00016	.00042						
49	General industrial machinery and equipment .....	.00079	.00116	.00091	.00287						
50	Miscellaneous machinery, except electrical .....	.00094	.00135	.00124	.01068						
51	Computer and office equipment .....	.00121	.00178	.00032	.00081						
52	Service industry machinery .....	.00045	.00107	.00071	.00405						
53	Electrical industrial equipment and apparatus .....	.00114	.00144	.00075	.00340						
54	Household appliances .....	.00015	.00036	.00008	.00191						
55	Electric lighting and wiring equipment .....	.00169	.00293	.00128	.00618						
56	Audio, video, and communication equipment .....	.00046	.00154	.00027	.00140						
57	Electronic components and accessories .....	.00467	.00507	.00110	.00266						
58	Miscellaneous electrical machinery and supplies .....	.00172	.00217	.00103	.00302						
59A	Motor vehicles (passenger cars and trucks) .....	.00001	.00002	.00005	.00004						
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00203	.00300	.01107	.00258						
60	Aircraft and parts .....	.00041	.00122	.00160	.00041						
61	Other transportation equipment .....	.00019	.00034	.00054	.00102						
62	Scientific and controlling instruments .....	.02109	.00155	.00033	.00151						
63	Ophthalmic and photographic equipment .....	.00278	.00480	.00060	.00125						
64	Miscellaneous manufacturing .....	.00136	.00617	.00188	.00186						
65A	Railroads and related services; passenger ground transportation .....	.00363	.00547	.01258	.00810						
65B	Motor freight transportation and warehousing .....	.00918	.01603	.05850	.01850						
65C	Water transportation .....	.00086	.00115	.00236	.00371						
65D	Air transportation .....	.00609	.02259	.03042	.00654						
65E	Pipelines, freight forwarders, and related services .....	.00145	.00321	.00485	.00331						
66	Communications, except radio and TV .....	.01561	.02215	.00689	.01461						
67	Radio and TV broadcasting .....	.00009	.00027	.00004	.00010						
68A	Electric services (utilities) .....	.01622	.02227	.01160	.09514						
68B	Gas production and distribution (utilities) .....	.01109	.01439	.00440	.07423						
68C	Water and sanitary services .....	.00198	.00343	.00176	.00684						
69A	Wholesale trade .....	.03568	.03946	.01354	.04489						
69B	Retail trade .....	.00282	.00508	.00330	.01423						
70A	Finance .....	.01285	.02854	.00561	.02434						
70B	Insurance .....	.00966	.01387	.00479	.02177						
71A	Owner-occupied dwellings										
71B	Real estate and royalties .....	.08367	.13573	.02468	.03689						
72A	Hotels and lodging places .....	.00289	.00946	.00124	.00420						
72B	Personal and repair services (except auto) .....	.00428	.00470	.00116	.00221						
73A	Computer and data processing services .....	.02018	.01723	.00341	.01203						
73B	Legal, engineering, accounting, and related services .....	.01568	.02992	.00501	.07539						
73C	Other business and professional services, except medical .....	.04329	.05568	.01920	.04186						
73D	Advertising .....	.01046	.03300	.00427	.01153						
74	Eating and drinking places .....	.00944	.01357	.00424	.00709						
75	Automotive repair and services .....	.01472	.01614	.02024	.01316						
76	Amusements .....	.00186	.01207	.00101	.00186						
77A	Health services	1.02042	.00007	.00001	.00001						
77B	Educational and social services, and membership organizations .....	.00341	1.00395	.00091	.00301						
78	Federal Government enterprises .....	.00738	.01697	1.00307	.00410						
79	State and local government enterprises .....	.00103	.00202	.00096	1.00054						
80	Noncomparable imports .....	.00386	.01091	.01833	.00418	1.00000					
81	Scrap, used and secondhand goods .....	.00047	.00086	.00033	.00128		1.00000				
82	General government industry							1.00000			
83	Rest of the world adjustment to final uses								1.00000		
84	Household industry									1.00000	
85	Inventory valuation adjustment										1.00000
	Total commodity output multiplier	1.63818	1.95864	1.38402	2.21193	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

*Less than .000005.

Table 5.—Industry-by-Commodity Total Requirements, 1987 Benchmark

[Total requirements, direct and indirect, per dollar of delivery to final demand, at producers' prices]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	New construction	Maintenance and repair construction
		1	2	3	4	5+6	7	8	9+10	11	12
1	Livestock and livestock products	1.31515	0.03468	0.05975	0.10349	0.00074	0.00049	0.00056	0.00066	0.00181	0.00184
2	Other agricultural products	39555	1.07001	23398	.16985	.00120	.00084	.00074	.00099	.00412	.00420
3	Forestry and fishery products	00167	.00072	80076	.00164	.00088	.00048	.00029	.00032	.00523	.00533
4	Agricultural, forestry, and fishery services	08565	.07862	13957	.95618	.00074	.00057	.00138	.00063	.00639	.00651
5+6	Metallic ores mining	00089	.00069	00079	.00089	1.08467	.00136	.00061	.00238	.00378	.00376
7	Coal mining	00362	.00220	00151	.00257	.01578	1.12441	.00257	.01181	.00385	.00383
8	Crude petroleum and natural gas	01953	.02247	02964	.02818	.03279	.01847	1.04824	.02851	.02152	.02163
9+10	Nonmetallic minerals mining	00514	.00964	00318	.01276	.00392	.00287	.00133	.99280	.01391	.01412
11+12	Construction	02848	.02485	02041	.02717	.03185	.02190	.03962	.02313	1.01325	1.01322
13	Ordnance and accessories	00011	.00010	00313	.00014	.00014	.00011	.00005	.00017	.00031	.00031
14	Food and kindred products	20984	.00819	05311	.02258	.00264	.00159	.00162	.00232	.00358	.00365
15	Tobacco products	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills	00193	.00234	00544	.00448	.00120	.00200	.00038	.00128	.00284	.00290
17	Miscellaneous textile goods and floor coverings	00017	.00122	00901	.00565	.00062	.00055	.00025	.00052	.00360	.00367
18	Apparel	00024	.00019	00031	.00040	.00029	.00059	.00052	.00019	.00048	.00049
19	Miscellaneous fabricated textile products	00095	.00142	00385	.00357	.00025	.00019	.00011	.00028	.00066	.00068
20+21	Lumber and wood products	00703	.00822	00371	.00513	.01234	.00674	.00375	.00386	.07898	.08064
22+23	Furniture and fixtures	00016	.00013	00018	.00015	.00022	.00016	.00013	.00016	.00256	.00261
24	Paper and allied products, except containers	01522	.01009	00800	.01415	.00553	.00457	.00392	.00019	.01059	.01075
25	Paperboard containers and boxes	00865	.00687	00415	.01202	.00201	.00169	.00074	.00216	.00364	.00369
26A	Newspapers and periodicals	00549	.00340	00347	.00554	.00330	.00307	.00530	.00489	.00083	.00485
26B	Other printing and publishing	01000	.00672	01097	.01100	.00588	.00497	.00624	.00597	.00780	.00788
27A	Industrial and other chemicals	01820	.02144	01514	.03796	.04277	.01275	.01388	.02610	.01799	.01863
27B	Agricultural fertilizers and chemicals	03862	.07457	02956	.14947	.00143	.00064	.00069	.00100	.00196	.00199
28	Plastics and synthetic materials	00523	.00492	00591	.00826	.00650	.00432	.00168	.00493	.00819	.00837
29A	Drugs	00461	.00066	00062	.00144	.00026	.00010	.00009	.00018	.00017	.00018
29B	Cleaning and toilet preparations	00294	.00311	00178	.00598	.00128	.00057	.00057	.00126	.00112	.00119
30	Paints and allied products	00081	.00066	00127	.00097	.00119	.00078	.00067	.00078	.00914	.00933
31	Petroleum refining and related products	02288	.02432	04257	.02590	.03575	.04223	.00861	.04223	.02903	.02918
32	Rubber and miscellaneous plastics products	01369	.00997	00734	.01026	.01931	.01610	.00306	.01544	.01921	.01965
33+34	Footwear, leather, and leather products	00060	.00014	00046	.00044	.00009	.00008	.00006	.00010	.00021	.00021
35	Glass and glass products	00366	.00096	00194	.00205	.00133	.00074	.00052	.00113	.00409	.00417
36	Stone and clay products	00342	.00419	00236	.00419	.00784	.00655	.00638	.00435	.05925	.05981
37	Primary iron and steel manufacturing	00788	.00595	00783	.00641	.04054	.01963	.00826	.01622	.04325	.04138
38	Primary nonferrous metals manufacturing	00603	.00365	00532	.00425	.01175	.00778	.00285	.01368	.02840	.02884
39	Metal containers	00634	.00092	00386	.00183	.00056	.00031	.00022	.00042	.00089	.00090
40	Heating, plumbing, and fabricated structural metal products	00266	.00241	00240	.00227	.01052	.00701	.00301	.00267	.05228	.05288
41	Screw machine products and stampings	00238	.00148	00197	.00217	.00891	.00903	.00089	.00454	.00623	.00632
42	Other fabricated metal products	00574	.00493	00934	.00582	.00732	.00806	.00628	.00628	.02059	.02109
43	Engines and turbines	00097	.00091	00306	.00255	.00793	.00775	.00066	.00563	.00079	.00077
44+45	Farm, construction, and mining machinery	00780	.00933	00477	.00578	.02218	.04889	.00337	.00605	.00374	.00308
46	Materials handling machinery and equipment	00030	.00030	00022	.00036	.00575	.00443	.00018	.01138	.00272	.00277
47	Metalworking machinery and equipment	00243	.00181	00111	.00115	.00302	.00222	.00136	.00210	.00271	.00274
48	Special industry machinery and equipment	00050	.00039	00049	.00061	.00068	.00057	.00022	.00063	.00076	.00077
49	General industrial machinery and equipment	00234	.00208	00267	.00196	.00561	.02212	.00272	.01535	.00562	.00555
50	Miscellaneous machinery, except electrical	00278	.00286	00200	.00215	.00500	.00666	.00116	.00380	.00276	.00277
51	Computer and office equipment	00072	.00061	00085	.00105	.00106	.00050	.00035	.00119	.00113	.00115
52	Service industry machinery	00064	.00055	00063	.00077	.00095	.00068	.00058	.00061	.01183	.01206
53	Electrical industrial equipment and apparatus	00163	.00142	00142	.00140	.00701	.00678	.00278	.00278	.00784	.00784
54	Household appliances	00017	.00016	00023	.00022	.00020	.00015	.00017	.00015	.00274	.00280
55	Electric lighting and wiring equipment	00147	.00137	00111	.00145	.00203	.00207	.00112	.00152	.01663	.01697
56	Audio, video, and communication equipment	00045	.00038	00044	.00043	.00042	.00029	.00029	.00034	.00372	.00379
57	Electronic components and accessories	00197	.00174	00196	.00212	.00203	.00134	.00093	.00194	.00374	.00380
58	Miscellaneous electrical machinery and supplies	00471	.00544	00176	.00223	.00207	.00103	.00048	.00134	.00253	.00258
59A	Motor vehicles (passenger cars and trucks)	00031	.00029	00070	.00038	.00050	.00033	.00007	.00020	.00030	.00031
59B	Truck and bus bodies, trailers, and motor vehicles parts	00467	.00468	00443	.00590	.00642	.00324	.00097	.00236	.00371	.00377
60	Aircraft and parts	00048	.00043	00108	.00137	.00093	.00069	.00023	.00063	.00067	.00069
61	Other transportation equipment	00064	.00036	01722	.00097	.00128	.00102	.00016	.00040	.00055	.00055
62	Scientific and controlling instruments	00096	.00066	00237	.00078	.00162	.00076	.00041	.00025	.00355	.00361
63	Ophthalmic and photographic equipment	00094	.00077	00092	.00131	.00096	.00065	.00062	.00082	.00138	.00141
64	Miscellaneous manufacturing	00136	.00102	00110	.00188	.00116	.00082	.00077	.00122	.00278	.00283
65A	Railroads and related services; passenger ground transportation	01749	.00722	00453	.01085	.00887	.02954	.00226	.00625	.00724	.00720
65B	Motor freight transportation and warehousing	05475	.03191	01690	.03405	.01447	.00621	.01535	.00709	.03013	.03045
65C	Water transportation	00341	.00178	00417	.00328	.00271	.00340	.00181	.00216	.00192	.00193
65D	Air transportation	00647	.00573	00690	.02250	.00732	.00340	.00274	.00700	.00613	.00635
65E	Pipelines, freight forwarders, and related services	00469	.00346	00383	.00528	.00380	.00333	.00123	.00365	.00347	.00351
66	Communications, except radio and TV	01363	.01019	00732	.00895	.00764	.00546	.00548	.00761	.01327	.01342
67	Radio and TV broadcasting	00417	.00253	00251	.00420	.00254	.00240	.00432	.00242	.00373	.00374
68A	Electric services (utilities)	02348	.01338	00825	.01490	.09611	.02892	.01684	.04938	.01424	.01435
68B	Gas production and distribution (utilities)	00846	.00946	00542	.01200	.02403	.00563	.01172	.02258	.00864	.00865
68C	Water and sanitary services	00208	.00252	00089	.00139	.00159	.00143	.00088	.00449	.00098	.00098
69A	Wholesale trade .....	.11019	.06977	05566	.10251	.04581	.05087	.01532	.04080	.07547	.07607
69B	Retail trade	00616	.00580	00415	.00724	.00484	.00262	.00230	.00258	.04140	.04219
70A	Finance	03226	.02546	02341	.02241	.02356	.01588	.01118	.02608	.02483	.02526
70B	Insurance	02790	.03771	02331	.01587	.01039	.00563	.00646	.00495	.00923	.00938
71A	Owner-occupied dwellings										
71B	Real estate and royalties .....	.10169	.11091	03050	.04747	.03227	.04050	.19925	.02750	.02700	.02682
72A	Hotels and lodging places	00374	.00295	00386	.00362	.00381	.00176	.00215	.00991	.00454	.00461
72B	Personal and repair services (except auto)	00030	.00294	00352	.01025	.00211	.00136	.00113	.00305	.00235	.00238
73A	Computer and data processing services	00556	.00445	00771	.00919	.01093	.00370	.00260	.01405	.00821	.00835
73B	Legal, engineering, accounting, and related services	01448	.01183	03943	.02344	.02929	.01667	.01768	.01636	.07443	.07587
73C	Other business and professional services, except medical	03303	.03027	03496	.03567	.02314	.01656	.01450	.02255	.04965	.05043
73D	Advertising	00236	.00144	00142	.00238	.00144	.00136	.00245	.00137	.00211	.00212
74	Eating and drinking places	00631	.00516	00552	.00899	.00503	.00384	.00410	.00500	.00782	.00793
75	Automotive repair and services	01250	.01038	02340	.03368	.03570	.01329	.00558	.00661	.01903	.01937
76	Amusements	00366	.00272	00364	.01737	.00142	.00134	.00203	.00164	.00228	.00230
77A	Health services	01158	.00032	00050	.00093	.00002	.00001	.00002	.00002	.00004	.00004

Table 5.—Industry-by-Commodity
 [Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Ordnance and accessories	Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes
		13	14	15	16	17	18	19	20+21	22+23	24	25
	Commodity number											
1	Livestock and livestock products	0.00070	0.30678	0.00301	0.01691	0.00587	0.00610	0.00713	0.00778	0.00261	0.00323	0.00200
2	Other agricultural products .....	.00095	1.8453	.08093	.12372	.03586	.03547	.04204	.03045	.00924	.00646	.00391
3	Forestry and fishery products .....	.00037	.00679	.00040	.00052	.00070	.00488	.00082	.09070	.00843	.00804	.00381
4	Agricultural, forestry, and fishery services .....	.00049	.02815	.00618	.01010	.00334	.00383	.00381	.01673	.00244	.00227	.00132
5+6	Metallic ores mining .....	.00485	.00190	.00038	.00163	.00238	.00084	.00116	.00180	.00456	.00174	.00180
7	Coal mining .....	.00355	.00412	.00220	.00868	.00839	.00436	.00528	.00486	.00543	.01327	.00838
8	Crude petroleum and natural gas .....	.00913	.01686	.00666	.02587	.03180	.01402	.01734	.02202	.01498	.02937	.02649
9+10	Nonmetallic minerals mining .....	.00121	.00319	.00127	.00451	.00535	.00190	.00266	.00300	.00238	.00755	.00457
11+12	Construction .....	.01631	.01970	.00777	.02231	.02038	.01367	.01666	.02244	.02163	.02329	.02072
13	Ordnance and accessories .....	.95565	.00012	.00005	.00010	.00010	.00009	.00009	.00048	.00017	.00013	.00011
14	Food and kindred products .....	.00243	1.23314	.00203	.00700	.00803	.00571	.00743	.00963	.00560	.01054	.00700
15	Tobacco products	(*)	.00001	1.16027	.00001	.00001	.00001	.00001	(*)	.00001	.00001	.00014
16	Broad and narrow fabrics, yarn and thread mills .....	.00187	.00227	.00116	1.34605	.34258	.35518	.45718	.00364	.05777	.01847	.01004
17	Miscellaneous textile goods and floor coverings .....	.00081	.00121	.00047	.02614	.97981	.01007	.07868	.00427	.02801	.00716	.00358
18	Apparel .....	.00072	.00027	.00020	.00654	.00277	1.22395	.02405	.00056	.00101	.00053	.00040
19	Miscellaneous fabricated textile products .....	.00052	.00079	.00022	.00319	.00424	.02801	.00323	.00123	.00260	.00060	.00045
20+21	Lumber and wood products .....	.00460	.00770	.00479	.00500	.00680	.00366	.00944	1.39463	.13191	.10202	.04803
22+23	Furniture and fixtures .....	.00068	.00025	.00008	.00021	.00029	.00017	.02006	.00423	.98653	.00060	.00038
24	Paper and allied products, except containers .....	.00779	.03828	.03971	.01677	.04054	.01515	.02511	.01436	.02154	1.17906	.53800
25	Paperboard containers and boxes .....	.00284	.02686	.04354	.00990	.01337	.00848	.01756	.00887	.01939	.02051	1.00311
26A	Newspapers and periodicals .....	.01016	.01371	.01266	.00647	.01154	.00937	.00823	.00927	.01072	.00747	.00544
26B	Other printing and publishing .....	.01067	.02344	.02854	.00895	.01617	.01113	.01297	.01183	.01292	.01997	.01429
27A	Industrial and other chemicals .....	.01558	.02347	.01074	.12741	.19206	.05419	.07834	.03426	.03635	.08300	.07250
27B	Agricultural fertilizers and chemicals .....	.00077	.01697	.00605	.01270	.00880	.00439	.00558	.00847	.00232	.00638	.00395
28	Plastics and synthetic materials .....	.00653	.00899	.00403	.17252	.28064	.07537	.10007	.01438	.02826	.04079	.04225
29A	Drugs .....	.00017	.00570	.00014	.00091	.00125	.00053	.00056	.00031	.00027	.00068	.00051
29B	Cleaning and toilet preparations .....	.00071	.00275	.00152	.00731	.01133	.00830	.00591	.00149	.00173	.00802	.00462
30	Paints and allied products .....	.00110	.00134	.00050	.00215	.00325	.00112	.00152	.00858	.01199	.02220	.00421
31	Petroleum refining and related products .....	.00810	.01650	.00737	.02388	.02737	.01369	.01579	.02437	.01470	.02684	.02757
32	Rubber and miscellaneous plastics products .....	.01663	.02800	.00768	.02372	.03619	.01787	.04310	.02204	.04364	.04423	.03319
33+34	Footwear, leather, and leather products .....	.00034	.00035	.00007	.00036	.00035	.00882	.01624	.00039	.00368	.00018	.00027
35	Glass and glass products .....	.00124	.01661	.00047	.00897	.00377	.00286	.00418	.00563	.00592	.00178	.00270
36	Stone and clay products .....	.00507	.00314	.00112	.00321	.00535	.00179	.00262	.01321	.00876	.00659	.00424
37	Primary iron and steel manufacturing .....	.03740	.01462	.00361	.00533	.00711	.00358	.00475	.02095	.06510	.00819	.01088
38	Primary nonferrous metals manufacturing .....	.04713	.01655	.00226	.00368	.00482	.00295	.00375	.01092	.02830	.00663	.00923
39	Metal containers .....	.00037	.03428	.00046	.00140	.00186	.00085	.00110	.00139	.00124	.00126	.00284
40	Heating, plumbing, and fabricated structural metal products .....	.00297	.00186	.00076	.00185	.00204	.00116	.00158	.01291	.00503	.00281	.00217
41	Screw machine products and stampings .....	.01136	.00420	.00084	.00200	.00184	.00133	.00169	.02177	.01472	.00338	.00247
42	Other fabricated metal products .....	.02272	.00822	.00972	.00430	.00632	.00302	.00435	.03307	.04498	.01610	.01626
43	Engines and turbines .....	.00236	.00061	.00021	.00062	.00063	.00037	.00043	.00091	.00064	.00068	.00059
44+45	Farm, construction, and mining machinery .....	.00122	.00301	.00093	.00191	.00122	.00079	.00096	.00137	.00108	.00125	.00091
46	Materials handling machinery and equipment .....	.00028	.00027	.00015	.00072	.00044	.00033	.00040	.00108	.00092	.00041	.00032
47	Metalworking machinery and equipment .....	.00656	.00173	.00079	.00164	.00190	.00100	.00144	.00483	.00464	.00198	.00217
48	Special industry machinery and equipment .....	.00068	.00106	.00063	.00514	.01591	.00462	.00427	.00226	.00197	.00640	.00694
49	General industrial machinery and equipment .....	.01130	.00252	.00092	.00186	.00251	.00124	.00147	.00439	.00483	.00290	.00233
50	Miscellaneous machinery, except electrical .....	.00785	.00221	.00143	.00279	.00301	.00179	.00251	.00603	.00389	.00344	.00345
51	Computer and office equipment .....	.00334	.00065	.00037	.00077	.00084	.00056	.00068	.00072	.00086	.00086	.00076
52	Service industry machinery .....	.00058	.00056	.00025	.00057	.00058	.00041	.00064	.00136	.00211	.00074	.00063
53	Electrical industrial equipment and apparatus .....	.00432	.00141	.00054	.00153	.00228	.00102	.00120	.00297	.00399	.00191	.00184
54	Household appliances .....	.00017	.00016	.00006	.00027	.00021	.00017	.00029	.00298	.00082	.00036	.00023
55	Electric lighting and wiring equipment .....	.00132	.00102	.00042	.00098	.00093	.00065	.00087	.00334	.00157	.00141	.00111
56	Audio, video, and communication equipment .....	.02627	.00337	.00020	.00036	.00038	.00058	.00053	.00047	.00082	.00038	.00037
57	Electronic components and accessories .....	.04268	.00189	.00110	.00210	.00238	.00181	.00209	.00211	.00262	.00204	.00183
58	Miscellaneous electrical machinery and supplies .....	.00259	.00206	.00074	.00139	.00105	.00074	.00087	.00131	.00099	.00092	.00086
59A	Motor vehicles (passenger cars and trucks) .....	.00173	.00023	.00010	.00015	.00014	.00012	.00013	.00074	.00037	.00026	.00023
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.01504	.00282	.00153	.00229	.00193	.00178	.00230	.00687	.00344	.00366	.00338
60	Aircraft and parts .....	.13445	.00047	.00026	.00050	.00053	.00042	.00060	.00063	.00071	.00067	.00058
61	Other transportation equipment .....	.00093	.00062	.00014	.00037	.00045	.00035	.00075	.00260	.00090	.00071	.00071
62	Scientific and controlling instruments .....	.05339	.00097	.00061	.00125	.00405	.00339	.00170	.00144	.00309	.00329	.00206
63	Ophthalmic and photographic equipment .....	.00149	.00112	.00080	.00136	.00174	.00103	.00129	.00127	.00149	.00270	.00178
64	Miscellaneous manufacturing .....	.00149	.00168	.00120	.00156	.00193	.00819	.00960	.00276	.00473	.00173	.00175
65A	Railroads and related services; passenger ground transportation .....	.00346	.01385	.00287	.00969	.01190	.00475	.00676	.01599	.01018	.01703	.02018
65B	Motor freight transportation and warehousing .....	.01432	.04443	.01284	.02704	.03736	.01790	.02485	.03401	.02653	.04110	.04893
65C	Water transportation .....	.00083	.00358	.00062	.00222	.00427	.00124	.00193	.00373	.00199	.00320	.00276
65D	Air transportation .....	.01004	.00671	.00364	.00544	.00550	.00571	.00552	.00586	.00666	.00931	.00792
65E	Pipelines, freight forwarders, and related services .....	.00208	.00389	.00136	.00336	.00418	.00222	.00272	.00388	.00288	.00464	.00483
66	Communications, except radio and TV .....	.01146	.01104	.00551	.00965	.01069	.00836	.00960	.01013	.01065	.00954	.01114
67	Radio and TV broadcasting .....	.00830	.01104	.01002	.00516	.00939	.00761	.00657	.00743	.00867	.00596	.00427
68A	Electric services (utilities) .....	.01674	.02199	.00804	.04671	.03840	.02482	.02721	.02627	.02290	.04081	.03243
68B	Gas production and distribution (utilities) .....	.00910	.01321	.00407	.02066	.02766	.01090	.01465	.01466	.01241	.02674	.01967
68C	Water and sanitary services .....	.00093	.00187	.00072	.00277	.00244	.00133	.00255	.00204	.00170	.00700	.00391
69A	Wholesale trade .....	.04535	.11075	.03913	.09993	.08389	.08018	.10227	.10121	.09419	.08348	.08815
69B	Retail trade .....	.00184	.00406	.00187	.00341	.00323	.00247	.00222	.00468	.00329	.00460	.00465
70A	Finance .....	.01122	.01988	.01250	.01620	.01678	.01549	.01943	.02153	.02293	.01606	.01390
70B	Insurance .....	.00471	.01421	.00682	.01060	.00896	.00697	.00811	.01176	.00735	.01018	.00941
71A	Owner-occupied dwellings											
71B	Real estate and royalties .....	.02051	.04701	.01896	.03187	.02786	.02458	.02669	.02493	.02482	.02211	.02349
72A	Hotels and lodging places .....	.00385	.00337	.00153	.00240	.00260	.00208	.00303	.00277	.00279	.00432	.00300
72B	Personal and repair services (except auto) .....	.00190	.00294	.00130	.00897	.00723	.00620	.00807	.00261	.00299	.00375	.00299
73A	Computer and data processing services .....	.00449	.00502	.00288	.00586	.00605	.00404	.00495	.00538	.00591	.00723	.00653
73B	Legal, engineering, accounting, and related services .....	.01883	.01445	.00773	.01972	.02367	.01444	.01642	.01842	.02397	.01542	.01507
73C	Other business and professional services, except medical .....	.02941	.03244	.01740	.03946	.03556	.02843	.03416	.03300	.04465	.02647	.02826
73D	Advertising .....	.00470	.00625	.00568	.00292	.00532	.00431	.00372	.00421	.00491	.00337	.00242
74	Eating and drinking places .....	.00634	.00637	.00324	.00734	.00766	.00798	.00817	.00886	.00949	.00653	.00721
75	Automotive repair and services .....	.00638	.01134	.00864	.01167	.01037	.01217	.00873	.01918	.01347	.01873	.01966
76	Amusements .....	.00387	.00551	.00448	.00283	.00444	.00366	.00335	.00397	.00463	.00299	.00231
77A	Health services .....	.00002	.00268	.00003	.00017	.00007	.00007	.00008	.00008	.00005	.00004	.00003
77B	Educational and social services, and membership organizations .....	.00182	.00187	.00133	.00246	.00238	.00211	.00706	.00511	.00366	.00265	.00200
77C	Federal Government enterprises .....	.00324	.00465	.00428	.00628	.00649	.00649	.00656	.00531	.00574	.00556	.00513

Total Requirements, 1987 Benchmark—Continued

of delivery to final demand, at producers' prices]

News-papers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet preparations	Paints and allied products	Petroleum refining and related products	Rubber and miscellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Industry number
26A	26B	27A	27B	28	29A	29B	30	31	32	33+34	35	36	37	38	39	40	41	
0.00127	0.00154	0.00286	0.00356	0.00261	0.00526	0.00686	0.00541	0.00085	0.00171	0.05173	0.00104	0.00117	0.00086	0.00098	0.00101	0.00097	0.00087	1
0.00173	0.00246	0.00667	0.00392	0.00979	0.00376	0.00533	0.00587	0.0107	0.00498	0.03314	0.00199	0.00229	0.00131	0.00190	0.00161	0.00142	0.00136	2
0.00127	0.00168	0.00124	0.00060	0.00077	0.00047	0.00067	0.00162	0.0040	0.00080	0.00154	0.00208	0.00070	0.00068	0.00077	0.00070	0.00082	0.00055	3
0.00075	0.00086	0.00125	0.00106	0.00134	0.00087	0.00109	0.00121	0.00114	0.00093	0.00521	0.00088	0.00072	0.00073	0.00072	0.00070	0.00069	0.00061	4
0.00060	0.00120	0.01063	0.00308	0.00511	0.00095	0.00242	0.00859	0.00087	0.00259	0.00131	0.00155	0.00266	0.04278	0.1027	0.03788	0.1765	0.1487	5+6
0.00300	0.00450	0.1070	0.00775	0.1129	0.00261	0.00379	0.00551	0.00404	0.00688	0.00378	0.00620	0.1770	0.0368	0.1184	0.1349	0.1056	0.1242	7
0.1093	0.1465	1.0073	1.0210	0.5287	0.1114	0.02574	0.3857	6.3987	0.2766	0.1543	0.3566	0.2925	0.3243	0.3243	0.2545	0.1846	0.1853	8
0.00162	0.00254	0.02785	0.8327	0.1060	0.00170	0.00434	0.00981	0.00599	0.00497	0.00280	0.01691	0.9889	0.00777	0.0027	0.0340	0.00318	0.00315	9+10
0.1325	0.1436	0.02496	0.2748	0.2245	0.1150	0.1342	0.1825	0.03730	0.1937	0.1573	0.2298	0.2364	0.4090	0.02551	0.2510	0.02939	0.2844	11+12
0.00017	0.00012	0.00012	0.00013	0.00010	0.00010	0.00009	0.00010	0.00008	0.00011	0.00009	0.00013	0.0149	0.00502	0.0041	0.00028	0.00057	0.00044	13
0.00447	0.00546	0.1676	0.1495	0.00909	0.1148	0.02633	0.2231	0.00003	0.00587	0.16857	0.00375	0.00412	0.00309	0.0043	0.00390	0.00340	0.00303	14
0.00004	0.00006	0.00004	0.00001	0.00002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	(*)	(*)	0.00001	(*)	(*)	15
0.00324	0.00655	0.00232	0.0173	0.05064	0.00141	0.00393	0.00699	0.0090	0.2805	0.5880	0.0182	0.0533	0.0120	0.0379	0.0209	0.00168	0.00293	16
0.00135	0.00260	0.00099	0.00086	0.00419	0.00066	0.00197	0.00090	0.00070	0.1376	0.2859	0.00076	0.00667	0.0060	0.00083	0.00064	0.00073	0.00086	17
0.00025	0.00036	0.00021	0.00029	0.00040	0.00026	0.00020	0.00021	0.00077	0.00077	0.0845	0.00042	0.0044	0.0043	0.00036	0.00038	0.00031	0.00043	18
0.00029	0.00045	0.00051	0.00040	0.00040	0.00019	0.00040	0.00026	0.00038	0.00084	0.00224	0.00030	0.00033	0.00030	0.00030	0.00035	0.00054	0.00050	19
0.1539	0.2036	0.0606	0.0557	0.00828	0.00333	0.00578	0.00383	0.00085	0.1004	0.0922	0.3259	0.9958	0.0900	0.1038	0.0871	0.00071	0.00070	20+21
0.00014	0.00022	0.00016	0.00018	0.00017	0.00014	0.00022	0.00014	0.00016	0.00111	0.00066	0.00599	0.00021	0.00093	0.00024	0.00087	0.00210	0.00072	22+23
0.16380	0.2155	0.2510	0.2286	0.3088	0.1869	0.3977	0.1454	0.0061	0.4396	0.0259	0.3566	0.2556	0.1060	0.1033	0.1955	0.1083	0.1136	24
0.00488	0.1052	0.0888	0.0921	0.1142	0.1213	0.3927	0.0509	0.0328	0.2004	0.1603	0.4933	0.0584	0.0393	0.0580	0.0996	0.0895	0.00729	25
0.9733	0.3990	0.0787	0.0975	0.0818	0.0591	0.1184	0.0590	0.0066	0.0693	0.1028	0.1070	0.0972	0.1410	0.0778	0.1389	0.00780	0.0863	26A
0.5861	1.06242	0.1110	0.2633	0.1094	0.1367	0.2340	0.1095	0.0783	0.1060	0.1636	0.1276	0.1096	0.1463	0.1007	0.4073	0.00986	0.1079	26B
0.02540	0.05052	1.06763	2.2956	4.6762	0.5175	1.4593	28.191	0.3495	15.451	0.6914	0.8169	0.5090	0.4187	0.0416	0.3664	0.02848	0.2733	27A
0.00145	0.00222	0.2402	1.87440	0.1663	0.0888	0.0621	0.0724	0.1027	0.0503	0.0483	0.0231	0.0158	0.0131	0.0147	0.0126	0.00915	0.00095	27B
0.00791	0.1601	0.6151	0.3033	0.9090	0.1111	0.9262	0.1428	0.0425	0.18759	0.3936	0.1105	0.1049	0.0575	0.2524	0.1732	0.00011	0.0803	28
0.00022	0.00041	0.00533	0.0711	0.0261	1.06797	0.2619	0.0150	0.0027	0.0015	0.0129	0.00046	0.0038	0.0026	0.0027	0.00025	0.00019	0.00020	29A
0.00180	0.00297	0.2220	0.3851	0.1362	0.1111	0.98262	0.0998	0.437	0.0054	0.00781	0.00220	0.0421	0.00326	0.0145	0.0186	0.00133	0.0145	29B
0.00072	0.00142	0.00723	0.0220	0.00775	0.00074	0.00424	0.9498	0.0094	0.0037	0.0126	0.0277	0.0305	0.0159	0.0194	0.1805	0.00698	0.00378	30
0.1273	0.1569	0.10473	0.3866	0.4454	0.0907	0.4454	0.3944	1.04317	0.2437	0.1509	0.2014	0.2845	0.2211	0.2756	0.2008	0.1541	0.1400	31
0.1176	0.2981	0.2451	0.2275	0.5567	0.2816	0.6112	0.1691	0.0908	1.01398	0.4904	0.2170	0.1199	0.1054	0.2696	0.1615	0.02159	0.1550	32
0.00020	0.00052	0.00014	0.00013	0.00015	0.00012	0.00015	0.00009	0.00013	0.00032	1.18812	0.00026	0.00013	0.00016	0.00013	0.00014	0.00012	0.00019	33+34
0.00074	0.00105	0.00292	0.0451	0.0254	0.00835	0.00919	0.0214	0.0295	0.0722	0.00337	1.05830	0.0392	0.0105	0.0234	0.0131	0.1027	0.0299	35
0.00187	0.00252	0.00540	0.1019	0.0402	0.00199	0.0436	0.1513	0.0699	0.0741	0.1137	0.0584	1.10951	0.2382	0.1121	0.1066	0.00033	0.1168	36
0.00320	0.00472	0.1215	0.1042	0.0788	0.00492	0.1233	0.1956	0.0085	0.1506	0.00734	0.0811	0.1689	1.16588	0.4265	2.7469	2.4607	2.9902	37
0.00311	0.00740	0.1007	0.0751	0.0599	0.00416	0.1004	0.2222	0.0380	0.00994	0.0609	0.1126	0.0789	0.0516	1.41533	3.8202	1.2326	0.6612	38
0.00050	0.00075	0.00734	0.0709	0.0365	0.00512	0.1515	0.4760	0.0183	0.0209	0.0512	0.0100	0.0080	0.0070	0.0075	1.02699	0.00096	0.0109	39
0.00116	0.00147	0.00249	0.00281	0.00220	0.00136	0.00191	0.0168	0.0275	0.00523	0.0148	0.00332	0.0369	0.0525	0.0395	0.00444	0.98889	0.9824	40
0.00129	0.00177	0.00192	0.00261	0.00177	0.00311	0.00750	0.00222	0.00115	0.00827	0.00357	0.00587	0.0454	0.0782	0.0620	0.0828	0.0429	0.9817	41
0.00417	0.00749	0.1237	0.0929	0.0786	0.00464	0.1609	0.0759	0.0813	0.1767	0.1137	0.0584	0.1059	0.1970	0.2014	0.4233	0.3569	0.3114	42
0.00031	0.00038	0.00087	0.00112	0.00070	0.00025	0.00039	0.00055	0.00070	0.00074	0.00038	0.00064	0.0126	0.0196	0.0262	0.0134	0.00124	0.00167	43
0.00051	0.00056	0.00198	0.00277	0.00136	0.00049	0.00071	0.0104	0.0042	0.00104	0.00096	0.00014	0.0367	0.0514	0.0328	0.00232	0.00338	0.00437	44+45
0.00020	0.00022	0.00052	0.0120	0.00035	0.00018	0.00023	0.00031	0.00028	0.00040	0.00026	0.00040	0.0141	0.0110	0.0118	0.00073	0.00151	0.00066	46
0.00090	0.00122	0.00239	0.0153	0.00191	0.00081	0.00191	0.00151	0.00035	0.00399	0.0166	0.0652	0.0286	0.0909	0.1375	0.0767	0.1390	0.3390	47
0.00327	0.00595	0.00546	0.0169	0.00317	0.00067	0.0157	0.0180	0.0041	0.00456	0.00160	0.0179	0.0081	0.0103	0.0094	0.0092	0.0183	0.0103	48
0.00113	0.00139	0.00284	0.00445	0.00371	0.00134	0.00320	0.00235	0.00258	0.00320	0.00134	0.0201	0.0435	0.1859	0.1794	0.0968	0.1419	0.0976	49
0.00145	0.00199	0.00259	0.00238	0.00296	0.00117	0.00236	0.0176	0.0158	0.00538	0.00263	0.00479	0.0300	0.0703	0.0603	0.00568	0.00794	0.1674	50
0.00187	0.00166	0.00096	0.00099	0.00088	0.00113	0.00060	0.00070	0.00095	0.00095	0.00087	0.00070	0.00087	0.0136	0.0093	0.00094	0.00089	0.0114	51
0.00043	0.00049	0.00082	0.00072	0.00068	0.00036	0.00089	0.00050	0.00063	0.0144	0.00048	0.00059	0.0069	0.0110	0.0129	0.0109	0.00575	0.00308	52
0.00108	0.00137	0.00256	0.00279	0.00211	0.00085	0.00129	0.0167	0.00230	0.00224	0.0107	0.00379	0.0300	0.1061	0.1139	0.0607	0.00776	0.00734	53
0.00013	0.00014	0.00020	0.00017	0.00017	0.00010	0.00013	0.00014	0.00017	0.00026	0.00025	0.00060	0.00015	0.00023	0.00032	0.00077	0.00090	0.00136	54
0.00071	0.00084	0.00107	0.00114	0.00114	0.00059	0.00077	0.0307	0.0122	0.0313	0.00081	0.00289	0.0197	0.0398	0.0198	0.0188	0.00215	0.00294	55
0.00045	0.00041	0.00038	0.00046	0.00038	0.00033	0.00032	0.00033	0.00038	0.00045	0.00034	0.00047	0.00072	0.00051	0.00087	0.00054	0.00066	0.00070	56
0.00327	0.00274	0.00249	0.00244	0.00215	0.00231	0.00190	0.00200	0.00147	0.00073	0.00200	0.00209	0.00221	0.00278	0.00515				

Table 5.—Industry-by-Commodity

[Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Other fabricated metal products	Engines and turbines	Farm, construction, and mining machinery	Materials handling machinery and equipment	Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus
		42	43	44+45	46	47	48	49	50	51	52	53
1	Livestock and livestock products	0.00095	0.00073	0.00090	0.00096	0.00089	0.00091	0.00086	0.00081	0.00092	0.00091	0.00094
2	Other agricultural products	0.0148	0.0102	0.0125	0.0121	0.0115	0.0116	0.0126	0.0099	0.0107	0.0135	0.0127
3	Forestry and fishery products	0.0082	0.0039	0.0058	0.0057	0.0046	0.0053	0.0047	0.0037	0.0036	0.0086	0.0055
4	Agricultural, forestry, and fishery services	0.0066	0.0052	0.0062	0.0059	0.0053	0.0055	0.0054	0.0051	0.0057	0.0061	0.0063
5+6	Metallic ores mining	0.1158	0.1356	0.0863	0.0802	0.0727	0.0722	0.0883	0.0904	0.0369	0.1040	0.0946
7	Coal mining	0.0915	0.0906	0.0834	0.0663	0.0651	0.0556	0.0694	0.0592	0.0294	0.0601	0.0601
8	Crude petroleum and natural gas	0.1840	0.1452	0.1480	0.1352	0.1328	0.1279	0.1325	0.1088	0.0907	0.1327	0.1650
9+10	Nonmetallic minerals mining	0.0309	0.0239	0.0220	0.0198	0.0276	0.0208	0.0209	0.0208	0.0102	0.0300	0.0247
11+12	Construction	0.2743	0.2236	0.2348	0.2461	0.1835	0.1998	0.1980	0.2089	0.2003	0.1973	0.2129
13	Ordnance and accessories	0.0038	0.0099	0.0069	0.0065	0.0050	0.0068	0.0102	0.0063	0.0025	0.0058	0.0033
14	Food and kindred products	0.0341	0.0255	0.0319	0.0340	0.0321	0.0335	0.0295	0.0287	0.0330	0.0327	0.0332
15	Tobacco products	0.0001	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	0.0001
16	Broad and narrow fabrics, yarn and thread mills	0.0237	0.0154	0.0187	0.0159	0.0180	0.0158	0.0352	0.0141	0.0178	0.0225	0.0220
17	Miscellaneous textile goods and floor coverings	0.0122	0.0076	0.0104	0.0100	0.0063	0.0089	0.0627	0.0135	0.0078	0.0104	0.0093
18	Apparel	0.0054	0.0044	0.0042	0.0031	0.0034	0.0028	0.0040	0.0026	0.0030	0.0034	0.0035
19	Miscellaneous fabricated textile products	0.0087	0.0037	0.0038	0.0054	0.0103	0.0027	0.0061	0.0024	0.0034	0.0039	0.0038
20+21	Lumber and wood products	0.1141	0.0492	0.0757	0.0736	0.0569	0.0675	0.0595	0.0437	0.0401	0.1187	0.0680
22+23	Furniture and fixtures	0.0189	0.0036	0.0053	0.0196	0.0034	0.0041	0.0026	0.0035	0.0055	0.0102	0.0056
24	Paper and allied products, except containers	0.1809	0.0970	0.1146	0.1119	0.1021	0.1093	0.1152	0.0888	0.1183	0.1368	0.1920
25	Paperboard containers and boxes	0.1031	0.0511	0.0608	0.0438	0.0667	0.0534	0.0675	0.0532	0.0538	0.1009	0.0898
26A	Newspapers and periodicals	0.1021	0.0834	0.1218	0.1176	0.0897	0.0966	0.0855	0.0861	0.0499	0.1000	0.1441
26B	Other printing and publishing	0.1368	0.0988	0.1317	0.1704	0.1035	0.1127	0.1073	0.0994	0.0968	0.1134	0.1503
27A	Industrial and other chemicals	0.3829	0.1651	0.1841	0.1612	0.2237	0.2679	0.1621	0.1282	0.1422	0.2283	0.1987
27B	Agricultural fertilizers and chemicals	0.0125	0.0066	0.0080	0.0069	0.0080	0.0088	0.0069	0.0059	0.0068	0.0090	0.0085
28	Plastics and synthetic materials	0.1391	0.0729	0.0945	0.0727	0.0871	0.0801	0.0991	0.0664	0.1054	0.1419	0.1291
29A	Drugs	0.0028	0.0013	0.0015	0.0014	0.0016	0.0018	0.0017	0.0011	0.0013	0.0030	0.0016
29B	Cleaning and toilet preparations	0.0161	0.0075	0.0084	0.0077	0.0094	0.0092	0.0083	0.0071	0.0073	0.0141	0.0095
30	Paints and allied products	0.0844	0.0171	0.0404	0.0256	0.0217	0.0125	0.0125	0.0114	0.0128	0.0440	0.0394
31	Petroleum refining and related products	0.1544	0.1162	0.1217	0.1225	0.1242	0.1196	0.1143	0.0979	0.0798	0.1202	0.1711
32	Rubber and miscellaneous plastics products	0.3069	0.2116	0.3691	0.2401	0.3009	0.2584	0.1218	0.3782	0.3988	0.3232	0.3158
33+34	Footwear, leather, and leather products	0.0017	0.0012	0.0024	0.0013	0.0018	0.0015	0.0011	0.0011	0.0015	0.0013	0.0013
35	Glass and glass products	0.0384	0.0115	0.0138	0.0133	0.0120	0.0426	0.0100	0.0113	0.0213	0.0250	0.0167
36	Stone and clay products	0.1084	0.1105	0.0932	0.0841	0.1950	0.0865	0.1059	0.1267	0.0345	0.1081	0.1516
37	Primary iron and steel manufacturing	2.0138	1.9121	1.7180	1.3906	1.1609	0.9713	1.3313	1.0012	0.2214	0.9684	0.7837
38	Primary nonferrous metals manufacturing	0.8138	0.9507	0.3790	0.4444	0.5456	0.5137	0.5790	0.7589	0.3830	0.9476	0.8963
39	Metal containers	0.0118	0.0049	0.0066	0.0058	0.0057	0.0055	0.0047	0.0040	0.0051	0.0072	0.0066
40	Heating, plumbing, and fabricated structural metal products	0.1273	0.1729	0.4474	0.3635	0.1877	0.2037	0.1465	0.1631	0.0630	0.1606	0.0784
41	Screw machine products and stampings	0.2299	0.2357	0.2113	0.2460	0.4151	0.1273	0.1464	0.1495	0.0826	0.2753	0.2109
42	Other fabricated metal products	0.9446	0.2405	0.2787	0.4569	0.2143	0.2203	0.2412	0.2632	0.1565	0.2712	0.1980
43	Engines and turbines	0.0168	0.98256	0.4830	0.1118	0.0408	0.0550	0.0668	0.0538	0.0087	0.0333	0.1628
44+45	Farm, construction, and mining machinery	0.0330	0.1765	1.00820	0.2172	0.0639	0.0329	0.0632	0.0636	0.0061	0.0304	0.0209
46	Materials handling machinery and equipment	0.0095	0.0061	0.0285	0.97644	0.0131	0.0454	0.0305	0.0149	0.0032	0.0118	0.0133
47	Metalworking machinery and equipment	0.1424	0.1139	0.1381	0.1311	0.93896	0.2298	0.1599	0.2400	0.0281	0.0991	0.0089
48	Special industry machinery and equipment	0.0282	0.0112	0.0237	0.1040	0.0608	0.9573	0.0954	0.0337	0.0105	0.0629	0.0094
49	General industrial machinery and equipment	0.1007	0.2950	0.3920	0.4481	0.1278	0.4057	1.0047	0.2446	0.0256	0.2943	0.1079
50	Miscellaneous machinery, except electrical	0.1672	0.3899	0.3186	0.3139	0.3542	0.3083	0.2151	0.9897	0.0331	0.1594	0.1518
51	Computer and office equipment	0.0159	0.0147	0.0116	0.0129	0.0165	0.0477	0.0329	0.0285	1.18959	0.0142	0.0458
52	Service industry machinery	0.0212	0.0108	0.0141	0.0346	0.0097	0.0308	0.0726	0.0193	0.0071	1.02208	0.0115
53	Electrical industrial equipment and apparatus	0.0939	0.4025	0.1143	0.4477	0.2867	0.6296	0.4828	0.0911	0.3207	0.7022	0.7115
54	Household appliances	0.0054	0.0022	0.0027	0.0036	0.0022	0.0108	0.0098	0.0033	0.0015	0.1111	0.0039
55	Electric lighting and wiring equipment	0.0409	0.0229	0.0194	0.0245	0.0220	0.0245	0.0183	0.0576	0.0650	0.0842	0.1236
56	Audio, video, and communication equipment	0.0078	0.0081	0.0067	0.0157	0.0053	0.0076	0.0063	0.0067	0.2350	0.0095	0.0358
57	Electronic components and accessories	0.0562	0.0252	0.0333	0.0514	0.0425	0.1381	0.0656	0.0582	1.4252	0.0723	0.3982
58	Miscellaneous electrical machinery and supplies	0.0185	0.1444	0.0610	0.0761	0.0182	0.0217	0.0262	0.0267	0.0525	0.0185	0.0543
59A	Motor vehicles (passenger cars and trucks)	0.0047	0.0154	0.0151	0.0080	0.0172	0.0029	0.0038	0.0039	0.0022	0.0053	0.0045
59B	Truck and bus bodies, trailers, and motor vehicles parts	0.0170	0.5590	0.1194	0.1250	0.0443	0.0335	0.1127	0.1592	0.0215	0.0606	0.0414
60	Aircraft and parts	0.0346	0.4306	0.3036	0.0687	0.1993	0.0583	0.0198	0.0453	0.0182	0.0163	0.0782
61	Other transportation equipment	0.0063	0.0016	0.0400	0.0109	0.0061	0.0078	0.0057	0.0107	0.0039	0.0111	0.0612
62	Scientific and controlling instruments	0.0539	0.0482	0.0177	0.0579	0.0185	0.0621	0.0581	0.0280	0.0939	0.1930	0.0756
63	Ophthalmic and photographic equipment	0.0130	0.0114	0.0129	0.0133	0.0121	0.0380	0.0149	0.0124	0.0089	0.0133	0.0143
64	Miscellaneous manufacturing	0.0405	0.0138	0.0201	0.0207	0.0179	0.0177	0.0171	0.0146	0.0153	0.0321	0.0243
65A	Railroads and related services; passenger ground transportation	0.0904	0.00721	0.0749	0.0638	0.0617	0.0587	0.0615	0.0547	0.0344	0.0664	0.0740
65B	Motor freight transportation and warehousing	0.2846	0.2374	0.2679	0.2227	0.1968	0.1721	0.1834	0.1665	0.1153	0.2234	0.2100
65C	Water transportation	0.0233	0.0209	0.0233	0.0174	0.0159	0.0142	0.0171	0.0141	0.0090	0.0177	0.0155
65D	Air transportation	0.0755	0.0735	0.0921	0.0782	0.0771	0.1003	0.0956	0.0686	0.2078	0.1047	0.1416
65E	Pipelines, freight forwarders, and related services	0.0310	0.0262	0.0297	0.0258	0.0245	0.0253	0.0207	0.0306	0.0282	0.0331	0.0331
66	Communications, except radio and TV	0.1195	0.1116	0.1161	0.1290	0.1102	0.1274	0.1209	0.1059	0.1231	0.1193	0.1438
67	Radio and TV broadcasting	0.0830	0.0676	0.0996	0.0947	0.0726	0.0678	0.0691	0.0696	0.0385	0.0813	0.1181
68A	Electric services (utilities)	0.3046	0.2756	0.2470	0.2152	0.2358	0.2126	0.2504	0.2321	0.1633	0.2320	0.2523
68B	Gas production and distribution (utilities)	0.1926	0.1646	0.1628	0.1333	0.1236	0.1173	0.1392	0.1082	0.0639	0.1290	0.1331
68C	Water and sanitary services	0.0155	0.0149	0.0147	0.0151	0.0110	0.0116	0.0118	0.0087	0.0094	0.0156	0.0119
69A	Wholesale trade	0.8911	0.9529	1.0658	1.0372	0.8677	0.8968	0.8448	0.5775	1.1785	1.1005	0.9949
69B	Retail trade	0.0342	0.0277	0.0298	0.0295	0.0296	0.0257	0.0258	0.0254	0.0246	0.0256	0.0285
70A	Finance	0.1786	0.1544	0.1526	0.1599	0.1474	0.1749	0.1523	0.1818	0.1971	0.1400	0.2318
70B	Insurance	0.0711	0.0674	0.0743	0.0699	0.0670	0.0628	0.0630	0.0559	0.0594	0.0619	

Total Requirements, 1987 Benchmark—Continued

of delivery to final demand, at producers' prices]

Household appliances	Electric lighting and wiring equipment	Audio, video, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Ophthalmic and photographic equipment	Miscellaneous manufacturing	Railroads and related services; passenger ground transportation	Motor freight transportation and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services	Communications, except radio and TV	Industry number
54	55	56	57	58	59A	59B	60	61	62	63	64	65A	65B	65C	65D	65E	66	
0.00110	0.00100	0.00082	0.00089	0.00120	0.00132	0.00095	0.00080	0.00101	0.00120	0.00102	0.00257	0.00099	0.00135	0.00204	0.00400	0.00207	0.00068	1
.00208	.00155	.00118	.00125	.00162	.00313	.00161	.00124	.00233	.00189	.00155	.00523	.00128	.00991	.00221	.00304	.00198	.00081	2
.00111	.00064	.00048	.00039	.00048	.00071	.00072	.00035	.00229	.00054	.00080	.00245	.00083	.00026	.00051	.00056	.00057	.00043	3
.00072	.00063	.00054	.00057	.00067	.00082	.00067	.00057	.00100	.00062	.00064	.00130	.00120	.00091	.00102	.00107	.00097	.00075	4
.00764	.00837	.00358	.00631	.01313	.00652	.01059	.00757	.00669	.00445	.00223	.00770	.00131	.00044	.00218	.00071	.00045	.00065	5+6
.00688	.00552	.00311	.00433	.00478	.00628	.00717	.00399	.00541	.00363	.00437	.00443	.00291	.00224	.00541	.00214	.00564	.00120	7
.01628	.01486	.00903	.01178	.01525	.01760	.01647	.01041	.01256	.00957	.01211	.01450	.05101	.04263	.02912	.07829	.01459	.00439	8
.00279	.00241	.00119	.00182	.00205	.00257	.00251	.00134	.00218	.00135	.00207	.00283	.00252	.00091	.00113	.00125	.00078	.00105	9+10
.01941	.01885	.01519	.02156	.01890	.02169	.02253	.01786	.00339	.01543	.01475	.01818	.12308	.01601	.02263	.02503	.03320	.05944	11+12
.00055	.00017	.00387	.00042	.00380	.00063	.00057	.05833	.00064	.01572	.00027	.00021	.00014	.00008	.00025	.00270	.00028	.00014	13
.00373	.00353	.00285	.00323	.00439	.00407	.00324	.00268	.00293	.00405	.00368	.00810	.00323	.00343	.00710	.01255	.00750	.00224	14
.00001	.00001	(*)	(*)	.00001	.00001	(*)	(*)	(*)	.00001	.00002	.00009	(*)	(*)	(*)	(*)	(*)	(*)	15
.00697	.00378	.00300	.00262	.00317	.01869	.00428	.00476	.00838	.00843	.00346	.02138	.00126	.00097	.00527	.00117	.00306	.00085	16
.00154	.00092	.00129	.00111	.00169	.00705	.00296	.00229	.00683	.00614	.00211	.00342	.00092	.00048	.00581	.00046	.00078	.00041	17
.00044	.00033	.00057	.00054	.00047	.00114	.00042	.00041	.00060	.00079	.00027	.00207	.00060	.00029	.00564	.00046	.00033	.00084	18
.00045	.00031	.00031	.00033	.00040	.02470	.00233	.00078	.00079	.00037	.00026	.00549	.00052	.00047	.00391	.00075	.00488	.00018	19
.01531	.00850	.00623	.00447	.00536	.00897	.00960	.00420	.00423	.00687	.00952	.03515	.01153	.00259	.00414	.00358	.00558	.00559	20+21
.00544	.00126	.01095	.00102	.00050	.01301	.00116	.00079	.00348	.00165	.00032	.00151	.00045	.00010	.00222	.00014	.00015	.00038	22+23
.02503	.01745	.01451	.01047	.03643	.01687	.01304	.00872	.00943	.01819	.08910	.03626	.00657	.00597	.00878	.00884	.01022	.00596	24
.02481	.01836	.00701	.00545	.01096	.00766	.00614	.00247	.00472	.00714	.01203	.01806	.00209	.00205	.00278	.00195	.00222	.00134	25
.01163	.00926	.00980	.00656	.01298	.01418	.01354	.01221	.00733	.01104	.01091	.01929	.00347	.00399	.00776	.01125	.01137	.00478	26A
.01336	.01113	.01320	.00871	.01475	.01563	.01419	.01286	.00900	.01285	.01407	.02596	.00992	.00826	.01365	.01460	.01839	.01130	26B
.04000	.03387	.02227	.03627	.04416	.03769	.02685	.01288	.02307	.02127	.04590	.04126	.01072	.00756	.01042	.00839	.00549	.00553	27A
.00151	.00127	.00086	.00118	.00145	.00144	.00103	.00067	.00088	.00091	.00161	.00203	.00142	.00123	.00181	.00071	.00056	.00040	27B
.03613	.03000	.01557	.01791	.02076	.02667	.01888	.00835	.01766	.01608	.01754	.03465	.00401	.00371	.00534	.00230	.00265	.00254	28
.00034	.00023	.00018	.00026	.00029	.00031	.00020	.00025	.00031	.00390	.00023	.00037	.00010	.00009	.00016	.00010	.00010	.00049	29A
.00160	.00125	.00129	.00121	.00148	.00166	.00125	.00075	.00100	.00160	.00171	.00285	.00104	.00070	.00100	.00022	.00052	.00039	29B
.00878	.00299	.00164	.00121	.00142	.01490	.00542	.00280	.00811	.00150	.00102	.00549	.00176	.00087	.00279	.00066	.00680	.00159	30
.01365	.01318	.00876	.01108	.01519	.01661	.01489	.01038	.01222	.00932	.01198	.01472	.07886	.06679	.04271	.12443	.01224	.00520	31
.05663	.03535	.05320	.06151	.05799	.08865	.05177	.01919	.02532	.02977	.03776	.04259	.01204	.01532	.01066	.02788	.06980	.08002	32
.00019	.00013	.00021	.00014	.00015	.00069	.00019	.00016	.00028	.00030	.00012	.00444	.00015	.00019	.00028	.00024	.00046	.00015	33+34
.01301	.04013	.00383	.01006	.00299	.01296	.00372	.00148	.00256	.00469	.00703	.00291	.00228	.00103	.00116	.00105	.01003	.00083	35
.01062	.00694	.00354	.00538	.00560	.00969	.01199	.00691	.00888	.00511	.00677	.00895	.00871	.00181	.00331	.00267	.00254	.00394	36
.11000	.07517	.01906	.02272	.03398	.07921	.11438	.04112	.08486	.03442	.01122	.03011	.01539	.00455	.01593	.00527	.00434	.00569	37
.04891	.07869	.03872	.07125	.09667	.04592	.08723	.08223	.04911	.03845	.01946	.08488	.00934	.00297	.02122	.00618	.00336	.00542	38
.00109	.00072	.00053	.00059	.00074	.00143	.00080	.00046	.00084	.00076	.00064	.00102	.00048	.00037	.00065	.00080	.00037	.00024	39
.00721	.00285	.00486	.00671	.00790	.01039	.02283	.00553	.04164	.00845	.00209	.00243	.00803	.00133	.00315	.01180	.00213	.00348	40
.02489	.03407	.01251	.01253	.01482	.08957	.04321	.01707	.01688	.01583	.00636	.00733	.00312	.00229	.00292	.00289	.00132	.00383	41
.04277	.02525	.02189	.04020	.03012	.03001	.03187	.01969	.02988	.02415	.01812	.01569	.01160	.00626	.02576	.00424	.00391	.00522	42
.00168	.00102	.00050	.00059	.00213	.01974	.00634	.00796	.00634	.00733	.00083	.00071	.00083	.00088	.00893	.00723	.01555	.00207	43
.00036	.00319	.00060	.00079	.00109	.00203	.00256	.00097	.01594	.00073	.00061	.00092	.00126	.00057	.00148	.00071	.00062	.00041	44+45
.00043	.00034	.00031	.00031	.00038	.00067	.00089	.00029	.00069	.00028	.00021	.00035	.00049	.00017	.00038	.00018	.00019	.00022	46
.01335	.00627	.00331	.00427	.00658	.01477	.00911	.01838	.00624	.00476	.00271	.00461	.00295	.00076	.00952	.01061	.00666	.00065	47
.00170	.00080	.00136	.00402	.00135	.00147	.00124	.00104	.00104	.00134	.00134	.00128	.00043	.00027	.00083	.00033	.00036	.00030	48
.01188	.00384	.00303	.00329	.00604	.01239	.02891	.00555	.02641	.00467	.00262	.00366	.00891	.00194	.02898	.00155	.00606	.00311	49
.00559	.00559	.00362	.00480	.01472	.00529	.04696	.01413	.01038	.00488	.00345	.00590	.00092	.00176	.00977	.01028	.00175	.00090	50
.00183	.00127	.02236	.03822	.01678	.00214	.00148	.00330	.00100	.01515	.00455	.00177	.00125	.00091	.00221	.00169	.00256	.00269	51
.02726	.00291	.00071	.00067	.00130	.02638	.01582	.00057	.00560	.00046	.00036	.00172	.00221	.00090	.00088	.00563	.00064	.00086	52
.04179	.03430	.00979	.00948	.01595	.00868	.00794	.00586	.02134	.01891	.00532	.00417	.01623	.00195	.00421	.00137	.00244	.00327	53
.95536	.00082	.00047	.00019	.00064	.00057	.00034	.00016	.00632	.00029	.00020	.00140	.00029	.00011	.00087	.00019	.00017	.00024	54
.01399	.96772	.00954	.00398	.01303	.00707	.00610	.00129	.00566	.00410	.00436	.00189	.00325	.00140	.00268	.00092	.00106	.00185	55
.01915	.00360	.00190	.01204	.00858	.01090	.00152	.01694	.01090	.01681	.00145	.00133	.00077	.00060	.00065	.00144	.00106	.01706	56
.02145	.01882	.22148	.104277	.07712	.01721	.01097	.02295	.00477	.10356	.08661	.01666	.00299	.00190	.00417	.00506	.00351	.01931	57
.00205	.01206	.01268	.01141	.92407	.03498	.02713	.02978	.00799	.02713	.02407	.00203	.00092	.00164	.00289	.01029	.00264	.00241	58
.00042	.00062	.00028	.00026	.00045	1.00532	.05817	.00035	.02677	.00035	.00018	.00053	.00111	.00071	.00059	.00163	.00016	.00014	59A
.00302	.00557	.00704	.00195	.02247	1.02206	.00288	.02920	.00404	.00183	.00209	.00021	.00992	.00863	.00298	.00614	.00243	.00157	59B
.00134	.00130	.00254	.00183	.00671	.00265	.00137	1.16681	.00712	.01208	.00097	.01019	.00078	.00042	.00119	.05322	.00139	.00042	60
.00061	.00062	.00025	.00029	.00040	.00113	.00158	.00062	1.00504	.00036	.00028	.00105	.02116	.00031	.01724	.00031	.00065	.00027	61
.02120	.00637	.03490	.01432	.02866	.01215	.00291	.00340	.00574	.95889	.01389	.00212	.00114	.00049	.00253	.00258	.00080	.00147	62
.00137	.00161	.00208	.00130	.00795	.00176	.00140	.00131	.00107	.00421	.99892	.00214	.00100	.00110	.00167	.00124	.00167	.00115	63
.01025	.00472	.00201	.00142	.00208</														

Table 5.—Industry-by-Commodity
 [Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Radio and TV broadcasting	Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner-occupied dwellings	Real estate and royalties	Hotels and lodging places
		67	68A	68B	68C	69A	69B	70A	70B	71A	71B	72A
Commodity number		67	68A	68B	68C	69A	69B	70A	70B	71A	71B	72A
1	Livestock and livestock products	0.00344	0.00050	0.00047	0.00142	0.00159	0.00218	0.00160	0.00231	0.00107	0.00166	0.00234
2	Other agricultural products .....	.00331	.00075	.00062	.00238	.00150	.00178	.00158	.00188	.00172	.00208	.00331
3	Forestry and fishery products .....	.00050	.00051	.00031	.00174	.00065	.00044	.00036	.00039	.00031	.00054	.00059
4	Agricultural, forestry, and fishery services .....	.00408	.00089	.00103	.00326	.00101	.00109	.00084	.00082	.00819	.00610	.00611
5+6	Metallic ores mining .....	.00054	.00076	.00049	.00184	.00037	.00031	.00032	.00023	.00023	.00038	.00059
7	Coal mining .....	.00160	.11151	.00225	.00788	.00178	.00340	.00158	.00077	.00031	.00093	.00508
8	Crude petroleum and natural gas .....	.00593	.05256	.49087	.04801	.01097	.00896	.00651	.00381	.00180	.00474	.01944
9+10	Nonmetallic minerals mining .....	.00076	.00176	.00115	.00475	.00058	.00065	.00054	.00039	.00093	.00125	.00199
11+12	Construction .....	.02807	.07791	.04552	.20297	.01537	.02564	.01856	.01378	.05323	.07124	.05314
13	Ordnance and accessories .....	.00014	.00009	.00006	.00038	.00016	.00007	.00014	.00008	.00003	.00007	.00016
14	Food and kindred products .....	.00963	.00153	.00139	.00408	.00564	.00805	.00574	.00858	.00086	.00395	.00606
15	Tobacco products	(*)	(*)	(*)	(*)	.00001	.00001	(*)	(*)	(*)	(*)	.00001
16	Broad and narrow fabrics, yarn and thread mills .....	.00178	.00071	.00037	.00178	.00110	.00078	.00098	.00061	.00024	.00057	.00993
17	Miscellaneous textile goods and floor coverings .....	.00047	.00051	.00026	.00127	.00051	.00038	.00036	.00024	.00026	.00041	.00201
18	Apparel .....	.00115	.00023	.00015	.00075	.00041	.00024	.00019	.00015	.00004	.00014	.00353
19	Miscellaneous fabricated textile products .....	.00072	.00018	.00014	.00049	.00061	.00028	.00074	.00035	.00009	.00022	.01210
20+21	Lumber and wood products .....	.00489	.00719	.00409	.02486	.00753	.00400	.00300	.00216	.00436	.00646	.00697
22+23	Furniture and fixtures .....	.00021	.00023	.00014	.00067	.00011	.00011	.00010	.00007	.00014	.00021	.00032
24	Paper and allied products, except containers .....	.00871	.00373	.00315	.01094	.01761	.01697	.01377	.00933	.00142	.00655	.01841
25	Paperboard containers and boxes .....	.00141	.00116	.00067	.00262	.01129	.00232	.00122	.00097	.00039	.00088	.00303
26A	Newspapers and periodicals .....	.00993	.00205	.00323	.00464	.00881	.01730	.00861	.00798	.00091	.00690	.00911
26B	Other printing and publishing .....	.01334	.00476	.00469	.00928	.01877	.01620	.02702	.02148	.00191	.01092	.01950
27A	Industrial and other chemicals .....	.00736	.00865	.00904	.04333	.00535	.00454	.00468	.00332	.00181	.00410	.01327
27B	Agricultural fertilizers and chemicals .....	.00122	.00050	.00061	.00331	.00061	.00055	.00056	.00049	.00228	.00163	.00731
28	Plastics and synthetic materials .....	.00275	.00213	.00137	.00744	.00258	.00196	.00205	.00137	.00070	.00161	.00802
29A	Drugs .....	.00014	.00010	.00007	.00035	.00010	.00009	.00011	.00009	.00004	.00007	.00036
29B	Cleaning and toilet preparations .....	.00082	.00073	.00052	.00174	.00076	.00059	.00075	.00045	.00020	.00053	.00717
30	Paints and allied products .....	.00054	.00094	.00063	.00263	.00058	.00053	.00045	.00033	.00052	.00079	.00098
31	Petroleum refining and related products .....	.00645	.05098	.01241	.03761	.01248	.01038	.00847	.00481	.00218	.00544	.01484
32	Rubber and miscellaneous plastics products .....	.00786	.00577	.00283	.01920	.00695	.00485	.00573	.00372	.00174	.00463	.02567
33-34	Footwear, leather, and leather products .....	.00070	.00009	.00007	.00025	.00032	.00021	.00024	.00028	.00003	.00012	.00081
35	Glass and glass products .....	.00099	.00085	.00050	.00296	.00116	.00065	.00085	.00062	.00029	.00064	.01354
36	Stone and clay products .....	.00223	.00570	.00484	.01546	.00170	.00195	.00153	.00110	.00321	.00456	.00506
37	Primary iron and steel manufacturing .....	.00338	.00766	.00599	.01710	.00332	.00290	.00243	.00175	.00252	.00374	.00500
38	Primary nonferrous metals manufacturing .....	.00472	.00561	.00267	.01175	.00279	.00229	.00250	.00173	.00172	.00278	.00404
39	Metal containers .....	.00046	.00038	.00019	.00071	.00192	.00038	.00034	.00035	.00010	.00025	.00061
40	Heating, plumbing, and fabricated structural metal products .....	.00187	.00493	.00290	.01195	.00122	.00157	.00123	.00089	.00314	.00399	.00319
41	Screw machine products and stampings .....	.00144	.00260	.00085	.00398	.00142	.00122	.00105	.00086	.00044	.00087	.00183
42	Other fabricated metal products .....	.00343	.00397	.00401	.01818	.00310	.00354	.00221	.00155	.00131	.00240	.00435
43	Engines and turbines .....	.00028	.00501	.00043	.00100	.00029	.00031	.00029	.00019	.00011	.00017	.00049
44-45	Farm, construction, and mining machinery .....	.00047	.00539	.00196	.00378	.00051	.00044	.00043	.00025	.00085	.00051	.00088
46	Materials handling machinery and equipment .....	.00018	.00076	.00018	.00072	.00077	.00015	.00017	.00010	.00016	.00024	.00032
47	Metalworking machinery and equipment .....	.00071	.00133	.00085	.00177	.00076	.00049	.00052	.00032	.00020	.00040	.00091
48	Special industry machinery and equipment .....	.00040	.00023	.00017	.00064	.00042	.00033	.00039	.00026	.00008	.00022	.00060
49	General industrial machinery and equipment .....	.00080	.00384	.00169	.00331	.00084	.00072	.00104	.00058	.00040	.00076	.00129
50	Miscellaneous machinery, except electrical .....	.00097	.00193	.00131	.00769	.00144	.00096	.00077	.00055	.00024	.00068	.00135
51	Computer and office equipment .....	.00322	.00097	.00155	.00159	.00092	.00111	.00461	.00163	.00022	.00057	.00142
52	Service industry machinery .....	.00084	.00108	.00066	.00330	.00080	.00077	.00047	.00034	.00066	.00097	.00102
53	Electrical industrial equipment and apparatus .....	.00184	.00349	.00171	.00310	.00080	.00075	.00106	.00061	.00049	.00085	.00144
54	Household appliances .....	.00029	.00027	.00022	.00122	.00015	.00019	.00013	.00010	.00016	.00042	.00056
55	Electric lighting and wiring equipment .....	.00128	.00307	.00125	.00502	.00080	.00091	.00091	.00061	.00094	.00155	.00435
56	Audio, video, and communication equipment .....	.00272	.00048	.00034	.00140	.00057	.00058	.00096	.00082	.00025	.00053	.00086
57	Electronic components and accessories .....	.03198	.00182	.00131	.00447	.00250	.00226	.00605	.00273	.00050	.00148	.00372
58	Miscellaneous electrical machinery and supplies .....	.00267	.00214	.00203	.00346	.00119	.00102	.00259	.00200	.00029	.00091	.00117
59A	Motor vehicles (passenger cars and trucks) .....	.00011	.00015	.00008	.00174	.00021	.00017	.00014	.00011	.00003	.00008	.00020
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00137	.00188	.00117	.02960	.00332	.00266	.00202	.00170	.00038	.00110	.00292
60	Aircraft and parts .....	.00073	.00055	.00029	.00075	.00077	.00030	.00077	.00043	.00008	.00022	.00041
61	Other transportation equipment .....	.00081	.00091	.00020	.00078	.00022	.00021	.00052	.00026	.00006	.00018	.00051
62	Scientific and controlling instruments .....	.00184	.00127	.00069	.01505	.00062	.00052	.00074	.00051	.00024	.00046	.00171
63	Ophthalmic and photographic equipment .....	.00861	.00071	.00061	.00163	.00144	.00128	.00555	.00316	.00030	.00095	.00198
64	Miscellaneous manufacturing .....	.00267	.00084	.00071	.00224	.00206	.00262	.00284	.00227	.00032	.00130	.00468
65A	Railroads and related services; passenger ground transportation .....	.00326	.02952	.00193	.00718	.00288	.00368	.00417	.00391	.00076	.00250	.00593
65B	Motor freight transportation and warehousing .....	.00882	.01013	.00530	.12971	.00751	.00784	.03166	.01005	.00271	.00663	.01506
65C	Water transportation .....	.00073	.00477	.00160	.00320	.00077	.00062	.00059	.00036	.00018	.00041	.00112
65D	Air transportation .....	.01197	.00458	.00408	.00676	.01349	.00473	.01348	.00733	.00108	.00333	.00576
65E	Pipelines, freight forwarders, and related services .....	.00193	.00472	.00627	.00762	.00321	.00148	.00304	.00201	.00038	.00127	.00338
66	Communications, except radio and TV .....	.01838	.00582	.00501	.01705	.02202	.01900	.03491	.03148	.00249	.00966	.02612
67	Radio and TV broadcasting	1.02233	.00152	.00256	.00348	.00681	.01422	.00553	.00598	.00070	.00554	.00649
68A	Electric services (utilities) .....	.01040	.85344	.01501	.05175	.01111	.02400	.01049	.00473	.00138	.00523	.03412
68B	Gas production and distribution (utilities) .....	.00427	.04944	1.10553	.05609	.00759	.00595	.00295	.00189	.00082	.00302	.02273
68C	Water and sanitary services .....	.00108	.00108	.00076	.39558	.00070	.00104	.00090	.00135	.00013	.00039	.00427
69A	Wholesale trade .....	.02157	.03274	.01682	.05234	1.03595	.05116	.01798	.01195	.00633	.01200	.00396
69B	Retail trade .....	.00244	.00441	.00282	.01499	.00395	.09910	.00306	.00195	.00318	.00414	.00503
70A	Finance .....	.02505	.02059	.01686	.02938	.02398	.01804	1.20851	.11255	.01213	.02814	.06660
70B	Insurance .....	.00535	.01196	.00592	.06532	.00516	.00590	.02292	1.40442	.04374	.02713	.00776
71A	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	1.00000	.....	.....
71B	Real estate and royalties .....	.09383	.02502	.09933	.03702	.03845	.07446	.05781	.05680	.04472	1.07371	.05920
72A	Hotels and lodging places .....	.00452	.00163	.00165	.00496	.00868	.00343	.00560	.01044	.00099	.00638	1.00308
72B	Personal and repair services (except auto) .....	.01569	.00265	.00147	.00705	.00574	.00620	.00320	.00291	.00047	.00303	.01883
73A	Computer and data processing services .....	.01199	.01047	.00696	.01268	.00619	.01007	.06143	.01841	.00198	.00416	.00946
73B	Legal, engineering, accounting, and related services .....	.03583	.01549	.01558	.05401	.01990	.04402	.04063	.03368	.01158	.01669	.03054
73C	Other business and professional services, except medical .....	.05481	.01665	.01462	.03961	.06808	.03744	.07363	.03603	.01068	.03354	.08971
73D	Advertising .....	.00343	.00086	.00145	.00197	.00386	.00805	.00313	.00339	.00039	.00314	.00367
74	Eating and drinking places .....	.01487	.00376	.00361	.00925	.01722	.01625	.01815	.02742	.00197	.01183	.00624
75	Automotive repair and services .....	.00851	.00843	.00774	.01595	.02602	.02068	.01274	.01083	.00212	.00745	.02008
76	Amusements .....	.40593	.00096	.00130	.00214	.00629	.00678	.00346	.00371	.00053	.00288	.00376
77A	Health services .....	.00006	.00001	.00001	.00003	.00005	.00004	.00005	.00004	.00002	.00003	.00007
77B	Educational and social services, and membership organizations .....	.00798	.00333	.00124	.00285	.00286	.00241	.00491	.00188	.00034	.00140	.00527
77C	Federal Government enterprises .....	.00623	.05042	.00446	.00845	.00506	.01043	.03286	.01730	.		

Total Requirements, 1987 Benchmark—Continued

of delivery to final demand, at producers' prices]

Personal and repair services (exc. auto)	Computer and data processing services	Legal, engineering, accounting, and related services	Other business and professional services, except medical	Advertising	Eating and drinking places	Auto-motive repair and services	Amusements	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	Non-comparable imports	Scrap, used and second-hand goods	General government industry	Rest-of-the-world adjustment to final uses	Household industry	Inventory valuation adjustment	Industry number
72B	73A	73B	73C	73D	74	75	76	77A	77B	78	79	80	81	82	83	84	85	
0.00213	0.00118	0.00117	0.00186	0.00194	0.07242	0.00127	0.00737	0.00419	0.00852	0.00122	0.00135							1
0.00268	0.0118	0.0108	0.0157	0.0224	0.05198	0.0140	0.00733	0.00355	0.00684	0.0154	0.0236							2
0.00054	0.00037	0.00029	0.00038	0.0105	0.00816	0.00042	0.00085	0.00047	0.00114	0.00023	0.0177							3
0.01020	0.00069	0.00087	0.00095	0.0166	0.00875	0.00089	0.01027	0.0154	0.00521	0.00045	0.0467							4
0.0101	0.00076	0.00035	0.00072	0.0084	0.00668	0.00224	0.00052	0.00665	0.00070	0.00030	0.0173							5+6
0.0364	0.0169	0.0116	0.0176	0.0272	0.0390	0.00329	0.00303	0.00221	0.00305	0.0151	0.1148							7
0.01400	0.00677	0.00662	0.00901	0.00973	0.00940	0.02749	0.00888	0.01051	0.01550	0.00940	0.04562							8
0.0145	0.00063	0.00048	0.00088	0.0144	0.0132	0.0129	0.0102	0.0134	0.0166	0.00036	0.0628							9+10
0.02522	0.1379	0.1318	0.1680	0.1843	0.2227	0.2198	0.03171	0.1946	0.6450	0.1055	3.1153							11+12
0.00014	0.00016	0.00022	0.00112	0.0014	0.0011	0.00019	0.00014	0.00040	0.00020	0.00012	0.00018							13
0.00702	0.00424	0.00407	0.00618	0.0625	2.7883	0.00447	0.1811	0.1500	0.2909	0.00436	0.0321							14
0.00001	0.00001	(*)	(*)	0.00003	0.00001	(*)	(*)	(*)	0.00001	(*)	(*)							15
0.01086	0.0135	0.00888	0.01118	0.0295	0.0133	0.01196	0.00403	0.0290	0.00287	0.00211	0.0157							16
0.00179	0.00061	0.00033	0.00050	0.0109	0.0079	0.00085	0.00083	0.00096	0.00093	0.00052	0.0133							17
0.00690	0.00019	0.00027	0.00067	0.0052	0.0020	0.0189	0.00298	0.0161	0.00223	0.00020	0.0101							18
0.00551	0.00021	0.00040	0.00031	0.0054	0.0043	0.00060	0.0169	0.00233	0.00085	0.00223	0.0044							19
0.00562	0.00360	0.00276	0.00331	0.1237	0.0489	0.00439	0.00891	0.0351	0.1059	0.0159	0.2567							20+21
0.00029	0.00017	0.00011	0.00015	0.00017	0.00015	0.00034	0.00031	0.00017	0.00027	0.00007	0.0084							22+23
0.1831	0.2112	0.2126	0.1427	1.0644	0.2042	0.1023	0.1366	0.1339	0.3479	0.00514	0.0821							24
0.00375	0.00225	0.0139	0.0198	0.0397	0.1148	0.0316	0.0190	0.0281	0.0378	0.01122	0.0212							25
0.1142	0.00697	0.0409	0.00680	3.1207	0.1156	0.00875	0.1605	0.0417	0.1607	0.01178	0.0393							26A
0.2442	0.4562	0.1835	0.2305	2.4215	0.1539	0.1119	0.2253	0.1433	0.7941	0.1234	0.0801							26B
0.1782	0.00920	0.0487	0.01149	0.2341	0.1004	0.1308	0.0986	0.3008	0.1263	0.00321	0.3530							27A
0.0104	0.00059	0.0069	0.00225	0.0141	0.0500	0.00073	0.0261	0.0149	0.00226	0.00033	0.0445							27B
0.00979	0.00611	0.00233	0.00428	0.0746	0.0470	0.00677	0.00400	0.0792	0.00530	0.0161	0.0538							28
0.00054	0.00013	0.00012	0.00050	0.0021	0.0137	0.00014	0.00021	0.2120	0.01118	0.00009	0.0026							29A
0.1464	0.00081	0.0110	0.00419	0.0150	0.0161	0.0113	0.0112	0.0377	0.00228	0.0114	0.0166							29B
0.0100	0.00053	0.00050	0.0127	0.0106	0.0066	0.00734	0.00073	0.00667	0.0130	0.00038	0.0324							30
0.1302	0.00812	0.0041	0.01049	0.1091	0.0927	0.3702	0.00843	0.0991	0.1662	0.1280	0.3038							31
0.2688	0.2526	0.0741	0.1455	0.1596	0.1613	0.2020	0.1157	0.2914	0.1490	0.00380	0.1048							32
0.1301	0.00020	0.00042	0.00023	0.00033	0.0056	0.00034	0.0125	0.00021	0.00050	0.00058	0.0018							33+34
0.0152	0.0106	0.0115	0.0192	0.0096	0.0584	0.00835	0.0106	0.0366	0.0312	0.00056	0.0204							35
0.00679	0.0153	0.0127	0.00211	0.0216	0.0233	0.00409	0.0252	0.0284	0.00462	0.00099	0.2239							36
0.00701	0.00419	0.00280	0.00602	0.0407	0.0533	0.2897	0.00390	0.0381	0.00601	0.00300	0.1640							37
0.00832	0.00675	0.00272	0.00543	0.0626	0.0551	0.1588	0.00391	0.0324	0.00508	0.00231	0.1128							38
0.00072	0.00034	0.00035	0.00156	0.0082	0.0798	0.00080	0.00077	0.00089	0.0114	0.00024	0.0065							39
0.0203	0.0148	0.0101	0.0166	0.0145	0.0156	0.00400	0.00206	0.0150	0.00380	0.00092	0.1688							40
0.00335	0.0191	0.0138	0.00258	0.0154	0.0176	0.3101	0.0182	0.0225	0.00279	0.0194	0.0289							41
0.00777	0.00459	0.00306	0.00456	0.0428	0.0360	0.4107	0.00361	0.00351	0.00578	0.00227	0.0929							42
0.00042	0.00033	0.00029	0.0106	0.0033	0.0040	0.00280	0.00044	0.00026	0.00037	0.00031	0.0111							43
0.00064	0.00037	0.00053	0.00348	0.0049	0.0114	0.01003	0.00076	0.00045	0.00072	0.00027	0.0617							44+45
0.00023	0.00015	0.00021	0.0141	0.0019	0.0021	0.00031	0.00024	0.00016	0.00030	0.00020	0.0100							46
0.0127	0.00079	0.00070	0.00349	0.0092	0.0077	0.00311	0.00096	0.00068	0.00089	0.00049	0.0167							47
0.00073	0.00068	0.00042	0.0181	0.0222	0.0074	0.00069	0.00049	0.00052	0.00082	0.00019	0.0055							48
0.0133	0.00090	0.00093	0.00473	0.0107	0.0159	0.00432	0.0107	0.00083	0.01119	0.00090	0.0299							49
0.00224	0.0118	0.0122	0.00260	0.0151	0.0157	0.1520	0.0122	0.0097	0.0138	0.0124	0.0109							50
0.1082	0.6736	0.0622	0.00537	0.0205	0.0071	0.0126	0.0151	0.0196	0.00243	0.00046	0.0130							51
0.00340	0.00040	0.00052	0.0166	0.0078	0.0059	0.00719	0.0157	0.0051	0.0113	0.00081	0.0408							52
0.00270	0.00423	0.0113	0.00430	0.0158	0.0092	0.00404	0.0114	0.0116	0.0142	0.00073	0.0330							53
0.00989	0.00011	0.00014	0.00028	0.0018	0.0016	0.00039	0.00028	0.00017	0.00038	0.00010	0.0189							54
0.0169	0.0121	0.0118	0.0168	0.0110	0.0118	0.00866	0.00202	0.0169	0.00287	0.0127	0.0601							55
0.0167	0.00274	0.00083	0.0132	0.0130	0.0041	0.00201	0.0111	0.00078	0.0156	0.00028	0.0145							56
0.3097	0.4109	0.0600	0.02072	0.1168	0.0190	0.00429	0.0374	0.0460	0.0494	0.0108	0.0271							57
0.0169	0.00826	0.00315	0.00394	0.0182	0.0103	0.00681	0.0153	0.0170	0.00207	0.0106	0.0287							58
0.00021	0.00013	0.00021	0.00022	0.0015	0.0013	0.00499	0.00018	0.00015	0.00021	0.00062	0.0022							59A
0.00287	0.0197	0.00338	0.00265	0.0224	0.0168	0.1822	0.0196	0.0204	0.00294	0.1023	0.0282							59B
0.00056	0.00090	0.00085	0.00134	0.00083	0.00033	0.00086	0.00051	0.00061	0.0123	0.0155	0.0056							60
0.00028	0.00021	0.00026	0.0154	0.0044	0.0050	0.00069	0.0194	0.0020	0.00036	0.00055	0.0107							61
0.0193	0.00299	0.0110	0.00170	0.0199	0.0059	0.0152	0.00090	0.0205	0.0182	0.00042	0.0178							62
0.1061	0.0195	0.0563	0.0665	0.0741	0.0100	0.0161	0.0437	0.0297	0.00489	0.00062	0.0141							63
0.2379	0.0151	0.0330	0.00270	0.2035	0.0275	0.00208	0.00477	0.0165	0.0677	0.0195	0.0215							64
0.00420	0.00310	0.00236	0.00361	0.0609	0.0664	0.00553	0.00394	0.00326	0.00492	0.1134	0.0727							65A
0.1419	0.00918	0.00650	0.00966	0.1585	0.2261	0.1767	0.1027	0.0923	0.1611	0.5780	0.1885							65B
0.0112	0.00057	0.00059	0.0116	0.0107	0.0154	0.0197	0.0134	0.00085	0.0114	0.00234	0.0368							65C
0.00768	0.1408	0.1477	0.1971	0.1393	0.0478	0.00836	0.00811	0.00587	0.02179	0.02934	0.0630							65D
0.0221	0.00220	0.00217	0.0289	0.0270	0.0216	0.0415	0.0182	0.0165	0.00377	0.00587	0.0362							66
0.2328	0.1033	0.0719	0.1055	0.1330	0.2614	0.1737	0.2068	0.1372	0.1884	0.0981	0.8048							67
0.1331	0.00385	0.00326	0.00548	0.0623	0.0783	0.1116	0.00804	0.00917	0.1182	0.00362	0.0688							

Text continues from page 63.

put multiplier is 2.14598 (the sum of all the entries in the column). The total dollar change in all commodity output that is required for an additional \$1,000,000 of household appliances delivered to final users is \$2,145,980 ($\$1,000,000 \times 2.14598$).

The industry-by-commodity total requirements table

The industry-by-commodity total requirements table (table 5) shows the input requirements coefficients for the output from each industry that is directly and indirectly required to deliver a dollar of a commodity to final users. The head of each column names the commodity delivered to final users, and each row shows the total production that is required from an industry. The coefficients in this table are referred to as "industry-by-commodity total requirements coefficients." The table is also derived from both the make and use tables.⁵

The calculations made using this table are similar to those for the commodity-by-commodity total requirements table. For example, to provide final users with an additional \$1 million of household appliances, the household appliances industry (row 54) is required to produce \$955,360 ($\$1,000,000 \times 0.95536$) of industry output; the paperboard containers and boxes industry (row 25) is required to produce \$24,810 ($\$1,000,000 \times 0.02481$) of industry output, the plastics and synthetic materials industry (row 28) is required to produce \$36,130 ($\$1,000,000 \times 0.03613$) of industry output, and so on.

5. See footnote 4.

The total at the bottom of each column in table 5 is the sum of all the changes in industry outputs that are required to deliver a dollar of a commodity to final users. Because each total change is a dollar multiple of the initial dollar spent for the output of the given industry, the total change in output is often called the total industry output multiplier.

The total industry output multipliers can be used to estimate the impact of changes in the final uses of commodities on total industry output. For example, the total industry output multiplier for the household appliances commodity (column 54) is 2.13254 (the sum of all the entries in the column). The total dollar change in the output of all industries that is required for an additional \$1,000,000 of household appliances delivered to final uses is \$2,132,540 ($\$1,000,000 \times 2.13254$).

Total multipliers

The total multipliers in tables 4 and 5 are similar but not identical. The main reason for the difference is that the commodity multiplier includes "noncomparable imports," which by definition do not have a domestic-industry counterpart and are not included in the column total industry multiplier in the commodity-by-industry total requirements table.

When using the two total requirements tables, one should be aware that the amount of output required to deliver a dollar of commodity to final users includes both imported and domestically supplied commodities. However, both the total commodity output multiplier and the total industry output multiplier represent the output required as if all of the commodity were domestically supplied. Therefore, if a portion of the commodity is imported, the impact on domestic output would be lower than that implied by the multiplier. 

BUSINESS CYCLE INDICATORS

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NOTE.—This section of the SURVEY is prepared by the Business Cycle Indicators Branch.

Series no.	Series title and timing classification	1993												1994			
		1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
1. COMPOSITE INDEXES																	
The Leading Index																	
910	Composite index of leading indicators, 1987=100 (L,L,L)	98.7	98.4	98.4	98.1	98.1	97.9	98.4	98.6	99.1	99.5	100.2	100.5	100.5	101.2	<i>P</i> 101.2	
	Percent change from previous month .....	.1	-.7	0	-.3	0	-.2	.5	.2	.5	.4	.7	.3	0	.7	<i>P</i> 0
	Percent change over 3-month span, AR	1.4	-2.0	-4.0	-1.2	-2.0	1.2	2.1	5.0	4.5	6.7	5.8	4.1	4.1	<i>P</i> 2.8		
Leading index components:																	
1	Average weekly hours, mfg. (L,L,L)	41.4	41.2	41.5	41.4	41.2	41.4	41.4	41.5	41.6	41.7	41.7	41.8	41.2	42.2	<i>P</i> 42.2	
5	Average weekly initial claims for unemployment insurance, thous. (L,C,L) †	365	375	374	387	383	399	371	370	354	336	318	360	338	327	344	
8	Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L)	1,304.71	107.23	106.72	105.54	106.58	105.35	106.55	109.03	111.43	112.55	<i>r</i> 114.64	116.20	<i>r</i> 115.68	<i>r</i> 118.06	<i>P</i> 117.38	
32	Vendor performance, slower deliveries diffusion index, percent (L,L,L)*	51.6	52.5	53.1	51.7	50.2	50.0	51.3	50.9	50.7	50.7	51.7	55.0	58.8	55.1	57.6	
20	Contracts and orders for plant and equipment, bil. 1987\$ (L,L,L)	435.66	34.41	<i>r</i> 34.78	33.96	37.86	34.67	36.38	35.84	37.71	40.53	<i>r</i> 40.03	41.30	<i>r</i> 41.38	<i>r</i> 42.72	<i>P</i> 41.27	
29	Index of new private housing units authorized by local building permits, 1967=100 (L,L,L) §	96.3	<i>r</i> 83.4	<i>r</i> 88.3	<i>r</i> 88.8	<i>r</i> 89.5	<i>r</i> 93.2	<i>r</i> 98.4	<i>r</i> 100.9	<i>r</i> 103.5	<i>r</i> 108.7	<i>r</i> 117.5	<i>r</i> 104.6	<i>r</i> 99.8	<i>r</i> 104.7	110.0	
92	Change in mfrs.' unfilled orders, durable goods, bil. 1987\$, smoothed (L,L,L) †	-2.87	-2.18	-2.42	-2.97	-3.35	-3.30	-3.15	-3.23	-3.10	-2.92	-2.89	-2.21	<i>r</i> -1.68	<i>r</i> -1.37	<i>P</i> -.98	
99	Change in sensitive materials prices, percent, smoothed (L,L,L) †	-.26	-.18	-.30	-.40	-.43	-.43	-.48	-.50	-.32	-.05	<i>r</i> .26	<i>r</i> .50	.80	1.06	1.17	
19	Index of stock prices, 500 common stocks, 1941-43=10, NSA (L,L,L) †	451.41	450.16	443.08	445.25	448.06	447.29	454.13	459.24	463.90	462.89	465.95	472.99	471.58	463.81	447.23	
106	Money supply M2, bil. 1987\$ (L,L,L)	2,774.0	2,769.3	2,763.0	2,775.3	2,778.5	2,778.0	2,773.1	2,777.1	2,769.6	2,769.6	2,768.5	<i>r</i> 2,773.1	<i>r</i> 2,763.3	<i>r</i> 2,766.0	<i>P</i> 2,768.5	
83	Index of consumer expectations, U. of Michigan, 1966:I=100, NSA (L,L,L) © ²	72.8	75.8	76.4	68.5	70.4	64.7	65.8	66.8	72.5	70.3	78.8	86.4	83.5	85.1	82.6	
Diffusion index of 11 leading indicator components:																	
	Percent rising over 1-month span	56.1	9.1	54.5	36.4	54.5	40.9	77.3	68.2	81.8	72.7	81.8	81.8	45.5	81.8	<i>P</i> 50.0	
	Percent rising over 6-month span	64.4	22.7	31.8	36.4	63.6	63.6	81.8	90.9	90.9	81.8	90.9	<i>P</i> 86.4				
The Coincident Index																	
920	Composite index of coincident indicators, 1987=100 (C,C,C)	109.1	108.1	108.6	108.8	108.9	108.8	109.4	109.6	110.0	110.5	111.1	110.8	<i>r</i> 111.7	<i>r</i> 112.3	<i>P</i> 112.5	
	Percent change from previous month .....	.1	-.2	.5	.2	.1	-.1	.6	.2	.4	.5	.5	-.3	<i>r</i> .8	<i>r</i> .5	<i>P</i> 3.2
	Percent change over 3-month span, AR	2.5	3.8	3.4	3.0	.7	2.2	2.6	4.5	4.1	5.6	2.9	<i>r</i> 4.4	<i>r</i> 4.4	<i>P</i> 6.3		
Coincident index components:																	
41	Employees on nonagricultural payrolls, thous. (C,C,C)	110,178	109,565	109,820	110,058	110,101	110,338	110,305	110,502	110,664	110,880	111,110	111,079	<i>r</i> 111,357	<i>r</i> 111,821	<i>P</i> 112,088	
51	Personal income less transfer payments, bil. 1987\$, AR (C,C,C)	3,519.7	3,471.1	3,517.7	3,524.3	3,511.7	3,499.1	3,542.3	3,544.2	3,559.7	3,597.4	<i>r</i> 3,562.6	<i>r</i> 3,618.4	<i>r</i> 3,631.2	<i>P</i> 3,638.3		
47	Index of industrial production, 1987=100 (C,C,C)	110.9	110.0	110.5	110.0	110.4	110.9	111.1	111.3	111.9	112.8	114.0	<i>r</i> 114.6	<i>r</i> 115.1	<i>r</i> 115.7	<i>P</i> 116.0	
57	Manufacturing and trade sales, mil. 1987\$ (C,C,C)	6,197,442	<i>r</i> 509,075	<i>r</i> 507,607	510,535	514,723	510,834	518,086	520,538	523,160	528,675	534,561	<i>r</i> 532,496	<i>r</i> 538,537	<i>P</i> 544,949		
Diffusion index of 4 coincident indicator components:																	
	Percent rising over 1-month span	80.2	62.5	75.0	75.0	62.5	50.0	87.5	100.0	100.0	100.0	100.0	37.5	100.0	100.0	<i>P</i> 100.0	
	Percent rising over 6-month span	97.9	75.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	<i>P</i> 100.0				
The Lagging Index																	
930	Composite index of lagging indicators, 1987=100 (Lg,Lg,Lg)	96.4	96.4	96.4	96.3	96.3	96.7	96.4	96.6	96.4	96.2	96.2	96.5	96.1	<i>r</i> 95.9	<i>P</i> 96.1	
	Percent change from previous month .....	.1	-.2	0	-.1	0	.4	-.3	.2	-.2	-.2	0	-.3	-.4	<i>r</i> -.2	<i>P</i> 4.2
	Percent change over 3-month span, AR	0	-.8	-1.2	-.4	1.3	.4	1.3	-1.2	-.8	-1.6	.4	-.4	<i>r</i> -1.2	<i>r</i> -1.6		
Lagging index components:																	
91	Average duration of unemployment, weeks (Lg,Lg,Lg) †	18.1	17.7	17.7	17.8	17.8	17.9	18.3	18.4	18.4	18.9	18.2	18.3	18.7	19.2	19.1	
77	Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg)	1.56	<i>r</i> 1.58	1.58	1.58	1.56	1.58	1.56	1.56	1.55	1.54	1.52	1.52	<i>r</i> 1.51	<i>P</i> 1.49		
62	Change in labor cost per unit of output, mfg., percent, AR, smoothed (Lg,Lg,Lg) †	-2.5	-3.9	-4.0	-3.3	-2.9	-2.5	-1.8	-.8	-.9	-1.6	-2.5	<i>r</i> -2.6	<i>r</i> -1.8	<i>r</i> -2.1	<i>P</i> -2.9	
109	Average prime rate charged by banks, percent, NSA (Lg,Lg,Lg)*	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	6.06	6.45	
101	Commercial and industrial loans outstanding, mil. 1987\$ (Lg,Lg,Lg)	371,343	363,441	365,115	368,471	370,002	375,158	376,605	376,574	373,963	374,072	<i>r</i> 373,476	<i>r</i> 377,808	<i>r</i> 373,933	<i>r</i> 371,521	<i>P</i> 370,933	
95	Ratio, consumer installment credit outstanding to personal income, percent (Lg,Lg,Lg)	14.13	14.18	14.02	13.94	14.00	14.12	14.04	14.13	14.16	14.20	14.24	14.48	<i>r</i> 14.30	<i>P</i> 14.35		
120	Change in Consumer Price Index for services, percent, AR, smoothed (Lg,Lg,Lg) †	3.8	3.9	4.0	4.1	4.1	4.0	3.9	3.7	3.6	3.5	3.5	3.1	3.2	3.6	3.6	
Diffusion index of 7 lagging indicator components:																	
	Percent rising over 1-month span	49.4	35.7	71.4	50.0	57.1	64.3	28.6	50.0	28.6	28.6	42.9	<i>r</i> 42.9	<i>r</i> 35.7	<i>r</i> 42.9	<i>P</i> 50.0	
	Percent rising over 6-month span	43.5	57.1	50.0	50.0	35.7	50.0	50.0	50.0	<i>r</i> 35.7	<i>r</i> 28.6	<i>r</i> 28.6	<i>r</i> 43.0				
940	Ratio, coincident index to lagging index, 1987=100 (L,L,L) .	113.2	112.1	112.7	113.0	113.1	112.5	113.5	113.5	114.1	114.9	115.5	114.8	<i>r</i> 116.2	<i>r</i> 117.1	<i>P</i> 117.1	

NOTE.—The following current high values were reached before March 1993: May 1991—BCI-106 (2,865.8); August 1991—BCI-92 smoothed (-0.83); December 1991—BCI-62 smoothed (3.0) and BCI-77 (1.65); January 1992—BCI-120 smoothed (4.2); and December 1992—BCI-51 (3,689.9) and BCI-83 (89.5).

See page C-6 for other footnotes.

Series no.	Series title and timing classification	Year	1993										1994			
		1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
2. LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT																
	Labor force:															
441	Civilian labor force, thous. ¹	128,040	127,440	127,539	128,075	128,056	128,102	128,334	128,108	128,580	128,662	128,898	130,667	130,776	130,580	130,747
442	Civilian employment, thous. ¹	119,306	118,562	118,585	119,180	119,187	119,370	119,692	119,568	119,941	120,332	120,661	121,971	122,258	122,037	122,338
	Civilian labor force participation rates (percent):															
451	Males 20 years and over ¹	76.9	76.9	76.9	77.1	77.0	77.0	77.0	76.7	77.0	76.8	76.8	77.0	76.9	76.8	76.7
452	Females 20 years and over ¹	58.4	58.2	58.2	58.4	58.5	58.4	58.5	58.4	58.6	58.7	58.9	59.3	59.5	59.3	59.2
453	Both sexes 16-19 years of age ¹	51.5	51.5	51.8	52.5	51.5	51.8	51.6	51.2	51.1	51.2	50.9	53.3	52.4	52.3	54.0
	Marginal employment adjustments:															
1 ♦	Average weekly hours, mfg. (L,L,L)	41.4	41.2	41.5	41.4	41.2	41.4	41.4	41.5	41.6	41.7	41.7	41.8	41.2	42.2	^P 42.2
21 ♦	Average weekly overtime hours, mfg. (L,C,L)	4.1	4.0	4.2	4.1	4.0	4.0	4.1	4.1	4.3	4.3	4.4	4.4	4.6	4.8	^P 4.8
5 ♦	Average weekly initial claims for unemployment insurance, thous. (L,C,L) ² ‡	365	375	374	387	383	399	371	370	354	336	318	360	338	327	344
	Job vacancies:															
46 ♦	Index of help-wanted advertising, 1967=100 (L,L,U)	100	96	95	100	97	101	103	101	106	107	110	105	115	117	^P 116
60	Ratio, help-wanted advertising to unemployed (L,L,U) ¹	.343	.322	.316	.334	.325	.344	.355	.352	.365	.382	.397	.359	.402	.407	^P .410
	Employment:															
48 ♦	Employee hours in nonagricultural establishments, bil. hours, AR (U,C,C)	203.97	202.33	202.78	205.28	203.57	204.05	204.76	204.06	205.26	205.16	205.91	207.65	^r 204.29	^r 207.67	^P 208.15
42	Persons engaged in nonagricultural activities, thous. (U,C,C) ¹	116,232	115,463	115,514	116,106	116,156	116,327	116,687	116,475	116,920	117,218	117,565	118,639	118,867	118,611	118,880
41 ♦	Employees on nonagricultural payrolls, thous. (C,C,C)	110,178	109,565	109,820	110,058	110,101	110,338	110,305	110,502	110,664	110,880	111,110	111,079	^r 111,357	^r 111,821	^P 112,088
963	Diffusion index of employees on private nonagricultural payrolls, 356 industries:															
	Percent rising over 1-month span	54.7	51.0	53.8	56.9	46.5	57.9	44.4	57.2	53.9	61.0	56.0	55.8	^r 58.3	^r 61.7	^P 58.3
	Percent rising over 6-month span	57.1	58.3	57.7	49.7	51.1	52.9	55.9	58.7	57.0	^r 62.1	^r 63.5	^P 67.3			
40 ♦	Employees in goods-producing industries, thous. (L,C,U)	22,975	23,016	22,980	23,006	22,941	22,948	22,903	22,886	22,934	22,994	23,008	23,024	^r 23,032	^r 23,125	^P 23,189
90 ♦	Ratio, civilian employment to population of working age, percent (U,Lg,U)	61.6	61.4	61.4	61.7	61.6	61.6	61.8	61.6	61.8	61.9	62.0	62.2	62.3	62.2	^P 62.3
	Unemployment:															
37	Number of persons unemployed, thous. (L,Lg,U) ¹ ‡	8,734	8,878	8,954	8,895	8,869	8,732	8,642	8,540	8,639	8,330	8,237	8,696	8,518	8,543	8,408
43 ♦	Civilian unemployment rate, percent (L,Lg,U) ¹ ‡	6.8	7.0	7.0	6.9	6.9	6.8	6.7	6.7	6.7	6.5	6.4	6.7	6.5	6.5	6.4
45	Average weekly insured unemployment rate, percent (L,Lg,U) ³ ‡	2.6	2.5	2.6	2.6	2.7	2.7	2.6	2.6	2.6	2.6	2.5	2.5	2.6	2.6	2.5
91 ♦	Average duration of unemployment, weeks (Lg,Lg,Lg) ¹ ‡	18.1	17.7	17.7	17.8	17.8	17.9	18.3	18.4	18.4	18.9	18.2	18.3	18.7	19.2	19.1
44	Unemployment rate, 15 weeks and over, percent (Lg,Lg,Lg) ¹ ‡	2.4	2.4	2.3	2.4	2.4	2.3	2.3	2.4	2.4	2.3	2.2	2.3	2.4	2.4	2.3

3. OUTPUT, PRODUCTION, AND CAPACITY UTILIZATION

	Output:															
55 ♦	Gross domestic product, bil. 1987\$, AR (C,C,C)	5,136.0			5,102.1			5,138.3			5,225.6			^r 5,264.1		
	Percent change from previous quarter, AR	3.0			1.9			2.9			7.0			^r 3.0		
50	Gross national product, bil. 1987\$, AR (C,C,C)	5,138.6			5,104.1			5,145.8			5,223.7			^P 5,264.4		
49	Value of domestic goods output, bil. 1987\$, AR (C,C,C)	2,083.8			2,069.1			2,074.9			2,130.9			^r 2,163.8		
	Industrial production indexes, 1987=100:															
47 ♦	Total (C,C,C)	110.9	110.0	110.5	110.0	110.4	110.9	111.1	111.3	111.9	112.8	114.0	^r 114.6	^r 115.1	^r 115.7	^P 116.0
73 ♦	Durable manufactures (C,C,C)	114.3	112.5	113.5	113.2	113.0	113.7	113.9	115.0	116.2	118.0	120.1	^r 120.4	^r 121.2	^r 122.0	^P 122.5
74 ♦	Nondurable manufactures (C,L,L)	108.6	108.2	108.7	108.5	108.9	109.1	109.2	108.5	108.8	109.1	109.7	^r 109.6	^r 110.1	^r 111.1	^P 111.5
75 ♦	Consumer goods (C,L,C)	108.8	108.9	108.6	107.8	108.1	108.9	108.6	108.5	109.2	109.7	110.1	^r 110.9	^r 111.9	^r 112.1	^P 112.0
	Capacity utilization rates (percent):															
124	Total industry (L,C,U)	81.5	81.2	81.4	81.0	81.1	81.3	81.4	81.4	81.7	82.2	82.9	^r 83.2	83.4	83.6	^P 83.6
82 ♦	Manufacturing (L,C,U)	80.6	80.1	80.6	80.2	80.1	80.3	80.3	80.4	80.8	81.5	82.3	82.2	82.5	82.9	^P 83.0

4. SALES, ORDERS, AND DELIVERIES

	Sales:															
57 ♦	Manufacturing and trade sales, mil. 1987\$ (C,C,C)	6,197,442	^r 5,09,075	^r 5,07,607	5,10,535	5,14,723	5,10,834	5,18,086	5,20,538	5,23,160	5,28,675	5,34,561	^r 5,32,496	^r 5,38,537	^P 5,44,949	
59 ♦	Sales of retail stores, mil. 1987\$ (U,L,U)	1,757,953	^r 1,41,415	^r 1,43,868	1,44,933	1,45,871	1,46,477	1,47,360	1,47,695	1,49,968	1,50,802	1,52,695	1,50,626	^r 1,53,163	^P 1,55,462	^P 154,034
	Orders and deliveries:															
7 ♦	Mfrs.' new orders, durable goods, bil. 1987\$ (L,L,L)	1,381.61	112.96	112.61	109.77	114.50	111.08	113.68	115.01	117.87	120.10	122.20	^r 126.96	^r 124.58	^r 125.29	^P 125.36
8 ♦	Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L)	1,304.71	107.23	106.72	105.54	106.58	105.35	106.55	109.03	111.43	112.55	^r 114.64	116.20	^r 115.68	^r 118.06	^P 117.38
	Mfrs.' unfilled orders, durable goods, mil. 1987\$ ¹ ♦	362,630	390,926	387,356	381,879	378,466	377,172	374,775	370,372	368,404	366,140	362,630	364,684	^r 363,422	^r 361,805	^P 361,900
	Change from previous month, bil. 1987\$	-2.88	-5.96	-3.57	-5.48	-3.41	-1.29	-2.40	-4.40	-1.97	-2.26	-3.51	2.05	^r -1.26	^r -1.62	^P -1.10
92 ♦	Change from previous month, bil. 1987\$, smoothed (L,L,L) ¹ ‡	-2.87	-2.18	-2.42	-2.97	-3.35	-3.30	-3.15	-3.23	-3.10	-2.92	-2.89	-2.21	^r -1.68	^r -1.37	^P -0.98
32 ♦	Vendor performance, slower deliveries diffusion index, percent (L,L,L) ¹ ‡	51.6	52.5	53.1	51.7	50.2	50.0	51.3	50.9	50.7	50.7	51.7	55.0	58.8	55.1	57.6

5. FIXED CAPITAL INVESTMENT

	Formation of business enterprises:															
12 ♦	Index of net business formation, 1967=100 (L,L,L)	121.1	122.0	121.0	117.6	120.8	120.7	121.1	122.3	119.2	123.5	^r 125.3	^r 125.2	^r 125.7	^P 127.3	
13 ♦	Number of new business incorporations (L,L,L)	707,477	61,002	59,648	51,765	60,422	58,387	58,209	63,758	55,294	61,739	61,873	^P 61,978			
	Business investment commitments:															
10	Contracts and orders for plant and equipment, bil.\$ (L,L,L)	428.10	34.04	^r 34.63	33.25	38.15	33.77	35.63	34.94	36.56	38.78	38.84	40.91	^r 40.72	^r 41.15	^P 39.43
20 ♦	Contracts and orders for plant and equipment, bil. 1987\$ (L,L,L)	435.66	34.41	^r 34.78	33.96	37.86	34.67	36.38	35.84	37.71	40.53	^r 40.03	41.30	^r 41.38	^r 42.72	^P 41.27
27 ♦	Mfrs.' new orders, nondefense capital goods, bil. 1987\$ (L,L,L)	394.49	30.13	31.18	31.08	34.11	31.47	33.24	32.44	34.49	37.19	^r 36.81	37.68	^r 37.72	^r 38.52	^P 38.25
9 ♦	Construction contracts awarded for commercial and industrial buildings, mil. sq.ft.(L,C,U) ¹ ‡	535.60	43.22	43.80	42.80	43.43	47.58	44.44	45.34	46.74	47.15	52.36	52.76	49.34	61.83	50.96
	Business investment expenditures:															
61	New plant and equipment expenditures by business, bil.\$, AR (C,Lg,Lg)	585.64			579.79			594.11			604.51			^r 621.28		
100 ♦	New plant and equipment expenditures by business, bil. 1987\$, AR (C,Lg,Lg)	555.70			546.97			565.28			576.82			^r 595.36		
69 ♦	Mfrs.' machinery and equipment sales and business construction expenditures, bil.\$, AR (C,Lg,Lg)	464.32	465.62	448.70	454.96	462.72	442.00	468.37	464.07	469.92	492.08	513.28	484.00	^r 492.11	^r 504.72	^P 498.43

NOTE.—The following current high values were reached before March 1993: July 1991—BCI-92 change (6.72) and August 1991—BCI-92 smoothed (-0.83).

See page C-6 for other footnotes.

Series no.	Series title and timing classification	1993												1994			
		1993												1994			
		Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.		
5. FIXED CAPITAL INVESTMENT—Continued																	
76 ♦	Business investment expenditures—Continued: Index of industrial production, business equipment, 1987=100 (C,Lg,U).	134.6	131.5	133.1	133.5	133.9	134.6	134.8	136.3	137.7	139.7	141.8	142.9	145.1	146.0	146.7	
	Gross private nonresidential fixed investment, bil. 1987\$, AR:																
86 ♦	Total (C,Lg,C)	591.8			584.3				594.8				625.7			635.0	
87 ♦	Structures (Lg,Lg,Lg)	151.5			151.1				151.2				155.6			147.1	
88 ♦	Producers' durable equipment (C,Lg,C)	440.2			433.2				443.6				470.0			487.9	
Residential construction and investment:																	
28 ♦	New private housing units started, thous., AR (L,L,L)	1,288	1,092	1,232	1,241	1,238	1,245	1,319	1,359	1,409	1,406	1,612	1,271	1,328	1,492	1,455	
29 ♦	Index of new private housing units authorized by local building permits, 1967=100 (L,L,L) §.	96.3	83.4	88.3	88.8	89.5	93.2	98.4	100.9	103.5	108.7	117.5	104.6	99.8	104.7	110.0	
89 ♦	Gross private residential fixed investment, bil. 1987\$, AR (L,L,L).	214.2			206.2				212.1				227.2			231.4	

6. INVENTORIES AND INVENTORY INVESTMENT

70	Inventories on hand:															
77 ♦	Mfg. and trade inventories, bil. 1987\$ (Lg,Lg,Lg) ◊	810.80	801.86	803.31	804.68	805.35	806.10	806.64	809.45	809.90	812.33	810.80	811.34	814.32	813.91	
	Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg).	1.56	1.58	1.58	1.58	1.56	1.58	1.56	1.56	1.55	1.54	1.52	1.52	1.51	1.49	
Inventory investment:																
30 ♦	Change in business inventories, bil. 1987\$, AR (L,L,L) ...	14.3			13.0			6.5			8.5			19.1		
31 ♦	Change in mfg. and trade inventories, bil.\$, AR (L,L,L) ...	23.8	50.1	37.0	24.9	6.8	1.9	23.7	22.9	14.7	55.3	-13.6	17.8	48.5	-19.1	

7. PRICES

Sensitive commodity prices:																
	Index of sensitive materials prices, 1987=100	99.58	100.81	99.87	99.31	99.15	98.88	98.03	97.67	98.55	99.48	100.50	101.25	102.92	104.42	105.15
99 ♦	Percent change over previous month	-0.3	-4.8	-9.3	-5.6	-1.6	-2.7	-8.6	-3.7	.90	.94	1.03	.75	1.65	1.46	.70
	Percent change from previous month, smoothed (L,L,L) †.	-2.6	-1.8	-3.0	-4.0	-4.3	-4.3	-4.8	-5.0	-3.2	-0.5	.26	.50	.80	1.06	1.17
98	Index of producer prices for sensitive crude and intermediate materials, 1987=100 (L,L,L).	161.79	161.00	161.06	159.80	159.63	160.26	159.54	161.13	165.78	169.43	172.15	173.90	172.55	173.03	169.88
	Cattle hides	180.4	177.0	173.0	175.6	176.8	181.1	179.7	185.9	184.4	185.2	182.6	181.7	176.4	178.1	181.2
	Lumber and wood products	174.1	174.6	177.1	175.1	172.0	170.7	172.1	174.4	177.7	181.3	183.8	186.6	181.7	181.5	177.0
	Wastepaper, news	100.6	110.1	112.5	104.0	104.0	97.2	94.0	93.5	94.2	94.0	91.1	87.8	94.5	97.9	99.4
	Wastepaper, mixed, NSA	90.2	97.5	101.5	107.5	107.4	102.8	80.8	80.4	80.2	79.3	74.2	73.8	72.0	75.2	78.8
	Wastepaper, corrugated	142.3	149.0	147.5	143.3	140.6	140.2	139.4	138.9	139.0	139.9	141.2	136.4	153.7	195.0	194.4
	Iron and steel scrap	172.8	157.8	154.6	158.0	170.4	179.1	170.0	171.2	190.7	202.5	207.4	202.7	203.8	200.3	195.3
	Copper base scrap	136.2	151.6	142.3	135.1	135.4	133.8	130.2	125.1	119.0	117.3	123.2	128.5	135.3	136.6	136.9
	Aluminum base scrap	129.3	129.7	123.5	121.5	126.6	130.6	127.5	125.6	128.7	128.1	129.6	131.3	141.1	148.7	150.1
	Other nonferrous scrap, n.e.c., NSA	113.8	125.0	118.4	113.3	113.3	115.0	113.5	107.5	100.7	98.5	102.4	106.6	115.4	119.8	120.9
	Sand, gravel, and crushed stone	134.0	132.6	133.1	132.8	133.3	133.7	133.8	134.8	136.3	135.7	136.2	136.5	136.7	136.9	137.5
	Raw cotton	92.2	94.7	89.4	88.3	84.7	85.5	85.7	90.5	95.9	97.9	104.3	114.8	124.6	121.4	120.4
	Domestic apparel wool	56.5	57.2	53.5	53.5	55.2	53.4	54.9	51.7	53.1	56.8	58.1	56.7	63.2	69.3	80.2
23 ♦	Index of spot market prices, raw industrial materials, 1967=100, NSA (U,L,L) © 1.	260.4	266.9	261.5	257.8	257.1	257.2	255.5	253.1	255.6	258.1	263.7	268.8	275.2	279.1	280.9
	Copper scrap, \$ per lb. ©	.702	.812	.737	.702	.693	.672	.654	.611	.578	.644	.696	.696	.717	.747	.744
	Lead scrap, \$ per lb. ©	.139	.157	.146	.143	.144	.140	.134	.123	.118	.123	.128	.128	.131	.130	.128
	Steel scrap, \$ per ton ©	115.553	108.044	105.069	104.412	112.183	119.654	114.042	110.402	127.351	138.940	140.435	139.625	140.201	138.530	135.827
	Tin, \$ per lb., NSA ©	3.494	3.779	3.738	3.703	3.482	3.395	3.294	3.096	3.189	3.225	3.286	3.324	3.598	3.621	3.630
	Zinc, \$ per lb., NSA ©	4.84	4.96	5.04	4.94	4.67	4.70	4.51	4.45	4.59	4.66	4.92	4.96	4.83	4.67	4.61
	Burlap, \$ per yd., NSA ©	2.47	2.45	2.45	2.45	2.45	2.45	2.40	2.41	2.47	2.56	2.65	2.69	2.73	2.75	2.75
	Cotton, \$ per lb. ©	5.56	5.62	5.40	5.32	5.02	5.09	5.13	5.47	5.71	6.07	6.44	7.03	7.53	7.26	7.24
	Print cloth, \$ per yd., NSA ©	6.77	6.52	6.50	6.55	6.44	6.40	6.88	7.00	7.00	7.50	7.50	7.50	7.50	7.50	7.72
	Wool tops, \$ per lb., NSA ©	3.339	3.160	3.000	3.050	3.400	3.400	3.400	3.400	3.450	3.600	3.500	3.500	3.750	3.900	3.950
	Hides, \$ per lb., NSA ©	7.99	8.16	8.14	8.05	7.74	7.62	7.92	8.05	8.15	8.08	7.98	7.56	7.46	7.88	8.45
	Rosin, \$ per 100 lb. ©	59.238	59.880	59.880	60.000	60.000	60.000	59.940	59.940	59.118	56.112	56.225	55.944	55.944	55.944	55.888
	Rubber, \$ per lb. ©	4.50	4.61	4.43	4.41	4.40	4.37	4.41	4.47	4.42	4.48	4.46	4.48	4.47	4.93	5.12
	Tallow, \$ per lb. ©	.147	.153	.157	.152	.148	.148	.146	.142	.140	.138	.143	.152	.156	.155	.145
Producer Price Indexes:																
336	Finished goods, 1982=100	124.7	125.1	125.7	125.7	125.1	125.1	124.1	124.3	124.2	124.3	124.2	124.5	125.1	125.4	125.3
	Percent change over 1-month span	0	.2	.5	0	-.5	0	-.8	.2	-.1	.1	-.1	.2	.5	.2	-.1
	Percent change over 6-month span, AR	-2	1.9	1.3	-1.1	-1.3	-2.4	-2.2	-1.4	-1.0	1.6	1.8	1.8			
337	Finished goods less foods and energy, 1982=100	135.8	136.1	136.5	136.8	136.4	136.6	135.1	135.2	134.8	135.3	135.5	136.1	136.3	136.6	136.7
	Percent change over 1-month span	0	.1	.3	.2	-.3	.1	-1.1	.1	-.3	.4	.1	.4	.1	.2	.1
	Percent change over 6-month span, AR	.3	2.1	1.6	-1.2	-1.3	-2.5	-2.2	-1.3	-.7	1.8	2.1	2.8			
334	Finished consumer goods, 1982=100	123.0	123.6	124.3	124.2	123.5	123.4	122.1	122.3	122.3	122.4	122.1	122.3	123.0	123.2	123.0
	Percent change over 1-month span	0	.2	.6	-.1	-.6	-.1	-1.1	.2	0	.1	-.2	.2	.6	.2	-.2
	Percent change over 6-month span, AR	-2	1.8	1.0	-1.9	-2.1	-3.2	-2.9	-2.3	-1.8	1.5	1.5	1.1			
333	Capital equipment, 1982=100	131.4	131.0	131.3	131.3	131.2	131.6	131.8	131.9	131.4	131.8	132.0	133.0	133.1	133.5	134.0
	Percent change over 1-month span	.2	.2	.2	0	-.1	.3	.2	.1	-.4	.3	.2	.8	.1	.3	.4
	Percent change over 6-month span, AR	1.8	2.3	1.8	1.5	1.4	2	.8	1.2	2.1	2.0	2.4	4.0			
332	Intermediate materials, supplies, and components, 1982=100.	116.2	116.3	116.6	116.3	116.3	116.3	116.3	116.3	116.4	116.6	116.3	116.4	116.9	117.1	117.1
	Percent change over 1-month span	.1	.3	.3	-.3	0	0	0	.1	.2	-.3	.1	.4	.2	0	
	Percent change over 6-month span, AR	1.0	2.1	1.6	.7	0	-.3	.5	.0	.2	1.0	1.4	1.2			
331	Crude materials for further processing, 1982=100	102.4	101.8	103.0	105.2	103.6	101.5	100.8	101.5	103.7	103.4	101.8	102.5	101.2	104.0	103.5
	Percent change over 1-month span	0	.2	1.2	2.1	-1.5	-2.0	-.7	.7	2.2	-.3	-1.5	.7	-1.3	2.8	-.5
	Percent change over 6-month span, AR	.7	3.8	-.4	-1.6	-.6	1.4	-3.4	-3.4	2.0	.8	5.0	-.4			
311	Fixed-weighted price index, gross domestic business product, 1987=100.	124.6			124.4			125.0			125.7			126.5		
	Percent change from previous quarter, AR	3.0			2.9			1.9			2.2			2.8		
Consumer Price Indexes for all urban consumers:																
320	All items, 1982-84=100, NSA	144.5	143.6	144.0	144.2	144.4	144.4	144.8	145.1	145.7	145.8	145.8	146.2	146.7	147.2	147.4
	Percent change over 1-month span	.2	.2	.3	.2	.1	.1	.3	.1	.3	.3	.2	.0	.3	.3	.1
	Percent change over 6-month span, AR	2.6	2.8	2.7	2.5	2.2	2.2	2.4	2.6	2.4	2.4	2.9	2.5			
323	All items less food and energy, 1982-84=100	152.2	151.1	151.6	152.0	152.3	152.6	153.0	153.1	153.5	154.1	154.4	154.6	155.0	155.5	155.8
	Percent change over 1-month span	.3	.2	.3	.3	.2	.2	.3	.1	.3	.4	.2	.1	.3	.3	.2
	Percent change over 6-month span, AR	3.0	3.5	3.2	2.9	2.7	2.5	2.8								

Series no.	Series title and timing classification	1993												1994			
		1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
8. PROFITS AND CASH FLOW																	
16 ♦	Profits and profit margins:																
18 ♦	Corporate profits after tax, bil.\$, AR (L,L,L)	275.4			272.3			274.3				295.9			^P 284.9		
22 ♦	Corporate profits after tax, bil. 1987\$, AR (L,L,L)	233.9			230.7			232.7				252.8			^P 241.5		
81 ♦	Ratio, corporate domestic profits after tax to corporate domestic income, percent (L,L,L)	7.2			7.2			7.0				7.8			^P 7.4		
26 ♦	Ratio, corporate domestic profits after tax with IVA and CCAAdj to corporate domestic income, percent(U,L,L)	7.8			7.6			7.9				8.4			^P 7.6		
35	Ratio, implicit price deflator to unit labor cost, all persons, nonfarm business sector, 1982=100 (L,L,L)	104.3			103.8			104.3				105.3			^P 104.3		
	Corporate net cash flow, bil. 1987\$, AR (L,L,L)	496.2			490.2			498.2				518.6			^P 520.0		
9. WAGES, LABOR COSTS, AND PRODUCTIVITY																	
345	Wages and compensation:																
	Index of average hourly compensation, all employees, nonfarm business sector, 1982=100	158.7			157.9			159.4				160.5			^P 162.5		
346	Percent change from previous quarter, AR	3.6			1.7			3.9				2.8			^P 5.3		
53 ♦	Index of real average hourly compensation, all employees, nonfarm business sector, 1982=100	106.0			105.6			106.1				106.1			^P 106.9		
	Percent change from previous quarter, AR .....	.5			-1.4			2.0				-2			^P 3.1	
63	Wages and salaries in mining, mfg., and construction, bil. 1987\$, AR (C,C,C)	592.5	578.8	596.3	596.0	592.8	594.7	595.2	596.9	596.9	598.8	600.8	602.1		^r 604.4	^P 604.8	
	Unit labor costs:																
	Index of unit labor cost, all persons, business sector, 1982=100 (Lg,Lg,Lg)	136.8			137.3			137.4				^r 136.0			^P 137.7		
62 ♦	Index of labor cost per unit of output, mfg., 1987=100	109.1	109.6	109.3	109.4	109.1	109.0	109.0	109.3	108.7	108.2	107.7	^r 107.8	^r 108.1	^r 107.4	^P 106.8	
	Percent change from previous month, AR	-3.6	0	-3.2	1.1	-3.2	-1.1	0	3.4	-6.4	-5.4	-5.4	^r 1.1	^r 3.4	^r -7.5	^P -6.5	
	Percent change from previous month, AR, smoothed (Lg,Lg,Lg) [†]	-2.5	-3.9	-4.0	-3.3	-2.9	-2.5	-1.8	-8	-9	-1.6	-2.5	^r -2.6	^r -1.8	^r -2.1	^P -2.9	
370	Productivity:																
	Index of output per hour, all persons, business sector, 1982=100	117.6			116.6			117.6				119.6			^P 119.8		
♦	Percent change over 1-quarter span, AR	1.8			0			3.3				^r 7.1			^P 5		
♦	Percent change over 4-quarter span, AR				^r 2.2			^P 2.7									
358	Index of output per hour, all persons, nonfarm business sector, 1982=100	115.7			114.7			115.8				^r 117.6			^P 117.8		
10. PERSONAL INCOME AND CONSUMER ATTITUDES																	
52	Personal income:																
51 ♦	Personal income, bil. 1987\$, AR (C,C,C)	4,236.9	4,181.2	4,228.2	4,236.5	4,227.9	4,217.8	4,264.0	4,267.1	4,283.6	4,302.3	4,327.7	^r 4,297.4	^r 4,353.8	^r 4,364.9	^P 4,374.2	
	Personal income less transfer payments, bil. 1987\$, AR (C,C,C)	3,519.7	3,471.1	3,517.7	3,524.3	3,511.7	3,499.1	3,542.3	3,544.2	3,559.7	3,578.2	3,597.4	^r 3,562.6	^r 3,618.4	^r 3,631.2	^P 3,638.3	
58	Indexes of consumer attitudes:																
83 ♦	Consumer sentiment, U. of Michigan, 1966=100, NSA (L,L,L) [⊙] 1	82.8	85.9	85.6	80.3	81.5	77.0	77.3	77.9	82.7	81.2	88.2	94.3	93.2	91.5	92.6	
122	Consumer expectations, U. of Michigan, 1966=100, NSA (L,L,L) [⊙] 1	72.8	75.8	76.4	68.5	70.4	64.7	65.8	66.8	72.5	70.3	78.8	86.4	83.5	85.1	82.6	
123 ♦	Consumer confidence, The Conference Board, 1985=100 (L,L,L) [*]	65.9	63.2	67.6	61.9	58.6	59.2	59.3	63.8	60.5	71.9	79.8	82.6	79.9	86.7	92.1	
	Consumer expectations, The Conference Board, 1985=100 (L,L,L) [*]	77.4	77.3	81.1	73.1	69.6	66.8	66.8	72.8	66.7	80.3	91.8	92.6	84.4	92.6	95.4	
11. SAVING																	
290	Gross saving, bil.\$, AR	780.2			766.7			774.3				817.8			^P 858.4		
295	Business saving, bil.\$, AR	794.9			779.6			809.0				824.1			^P 853.1		
292	Personal saving, bil.\$, AR	189.9			208.7			179.7				193.4			^r 171.8		
298 ♦	Government surplus or deficit, bil.\$, AR	-224.6			-221.5			-214.4				-199.7			^P -166.5		
293 ♦	Personal saving rate, percent	4.0			4.4			3.8				4.0			^r 3.5		
12. MONEY, CREDIT, INTEREST RATES, AND STOCK PRICES																	
85 ♦	Money:																
102 ♦	Percent change in money supply M1 (L,L,L) [*]81	.46	.66	1.97	.83	.95	.78	.89	.75	.81	.53	.45	.45	.33	^P -.10	
105	Percent change in money supply M2 (L,C,U) .....	.13	.02	.09	.68	.19	.14	.06	.22	.04	.31	.19	^r .17	^r -.12	^r .41	^P .25
106 ♦	Money supply M1, bil. 1987\$ (L,L,L)	848.9	824.2	827.1	841.4	847.7	854.4	859.1	866.1	869.8	874.1	876.8	880.7	882.6	882.8	^P 880.6	
	Money supply M2, bil. 1987\$ (L,L,L)	2,774.0	2,769.3	2,763.0	2,775.3	2,778.5	2,778.0	2,773.1	2,777.1	2,769.6	2,769.6	2,768.5	^r 2,773.1	^r 2,763.3	^r 2,766.0	^P 2,768.5	
107	Velocity of money:																
	Ratio, gross domestic product to money supply M1 (C,C,C)	5.912			5.948			5.837				5.820			^r 5.814		
108	Ratio, personal income to money supply M2 (C,Lg,C)	1.528	1.513	1.534	1.528	1.523	1.518	1.536	1.535	1.545	1.550	1.557	1.541	^r 1.571	1.573	P 1.576	
93	Bank reserves:																
94	Free reserves, mil.\$, NSA (L,U,U) [‡]	901	1,122	1,023	875	730	845	600	662	804	1,012	981	1,375	1,070	912	^P 1,026	
	Member bank borrowings from the Federal Reserve, mil.\$, NSA (L,Lg,U)	180	91	73	121	181	244	352	428	285	89	82	73	70	55	^P 124	
112 ♦	Credit flows:																
113 ♦	Net change in business loans, bil.\$, AR (L,L,L)	2.15	-72.79	45.11	64.40	12.50	58.39	2.05	-43	-22.73	-2.98	^r -21.72	^r 73.60	^r -44.83	^r -11.24	^P -3.77	
	Net change in consumer installment credit, bil.\$, AR (L,L,L)	48.99	34.84	24.74	-22.80	25.62	60.44	60.47	72.84	84.56	83.28	90.25	^r 76.51	^r 47.78	^r 89.10		
111	Percent change in business and consumer credit outstanding, AR (L,L,L)																
110 ♦	Funds raised by private nonfinancial borrowers in credit markets, mil.\$, AR (L,L,L)	396,874			369,424			481,616				P 511,212					
14	Credit difficulties:																
39	Current liabilities of business failures, mil.\$, NSA (L,L,L) [‡]	48,279.7	^r 4,118.4	^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	P 1,736.4	^P 2,141.3	^P 2,166.0		
	Percent of consumer installment loans delinquent 30 days and over (L,L,L) [⊙] 2 ♦ [‡]	1.77	2.31	2.01	2.16	2.06	2.08	2.03	1.95	1.93	1.86	1.77					

NOTE.—The following current high values were reached before March 1993: May 1991—BCI-106 (2,865.8); July 1991—BCI-93 (343); August 1991—BCI-94 (764); December 1991—BCI-62 index (113.0) and BCI-62 smoothed (3.0); October 1992—BCI-111 (3.0); and December 1992—BCI-51 (3,689.9), BCI-52 (4,391.8), BCI-53 (659.1), BCI-62

change (13.8), BCI-83 (89.5), and BCI-123 (103.9). See page C-6 for other footnotes.

Series no.	Series title and timing classification	1993												1994			
		Year												Year			
		1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
12. MONEY, CREDIT, INTEREST RATES, AND STOCK PRICES—Continued																	
66	Outstanding debt:																
	Consumer installment credit outstanding, mil.\$ (Lg,Lg) 0.	790,082	750,131	752,193	750,293	752,428	757,465	762,503	768,573	775,620	782,561	790,082	796,458	800,440	807,865		
72	Commercial and industrial loans outstanding, mil.\$ (Lg,Lg).	429,487	419,774	423,533	428,900	429,942	434,808	434,979	434,943	433,049	432,801	430,991	437,124	433,388	432,451		
101	Commercial and industrial loans outstanding, mil. 1987\$ (Lg,Lg).	371,343	363,441	365,115	368,471	370,002	375,158	376,605	376,574	373,963	374,072	373,476	377,808	373,933	371,521		
95	Ratio, consumer installment credit outstanding to personal income, percent (Lg,Lg,Lg).	14.13	14.18	14.02	13.94	14.00	14.12	14.04	14.13	14.16	14.20	14.24	14.48	14.30	14.35		
Interest rates (percent, NSA):																	
119	Federal funds rate (L,Lg,Lg)*	3.02	3.07	2.96	3.00	3.04	3.06	3.03	3.09	2.99	3.02	2.96	3.05	3.25	3.34		
114	Discount rate on new 91-day Treasury bills (C,Lg,Lg)*	3.02	2.97	2.89	2.96	3.10	3.05	3.05	2.96	3.04	3.12	3.08	3.02	3.21	3.52		
116	Yield on new high-grade corporate bonds (Lg,Lg,Lg)*	7.35	7.39	7.48	7.52	7.48	7.35	7.04	6.88	6.88	7.22	7.28	7.16	7.27	7.64		
115	Yield on long-term Treasury bonds (C,Lg,Lg)*	6.46	6.65	6.64	6.68	6.55	6.34	6.18	5.94	5.90	6.25	6.27	6.24	6.44	6.90		
117	Yield on municipal bonds, 20-bond average (U,Lg,Lg)*	5.60	5.64	5.76	5.73	5.63	5.57	5.45	5.29	5.25	5.47	5.35	5.31	5.40	5.91		
118	Secondary market yields on FHA mortgages (Lg,Lg,Lg)	7.46	7.57	7.56	7.59	7.52	7.51	7.02	7.03	7.08	7.51	7.52	7.05	7.59	8.57		
109	Average prime rate charged by banks (Lg,Lg,Lg)*	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	6.06		
19	Index of stock prices, 500 common stocks, 1941-43=10, NSA (L,L,L)*	451.41	450.16	443.08	445.25	448.06	447.29	454.13	459.24	463.90	462.89	465.95	472.99	471.58	463.81		

13. NATIONAL DEFENSE															
525	Defense Department prime contract awards, mil.\$		11,628	10,231	9,317	10,169	9,656	11,785	11,359				10,247	9,343	10,064
548	Manufacturers' new orders, defense products, mil.\$	76,649	7,411	6,853	5,434	5,788	7,231	6,598	6,446	5,304	5,172	5,239	7,738	6,136	4,936
557	Index of industrial production, defense and space equipment, 1987=100.	74.8	76.8	76.9	75.6	74.9	74.6	74.0	73.7	72.7	72.5	71.5	71.0	69.7	69.5
570	Employment, defense products industries, thous.	950	982	975	964	954	943	933	929	922	912	899	890	884	881
564	Federal Government purchases, national defense, bil.\$, AR	303.4			307.6			301.9			299.2			292.6	

14. EXPORTS AND IMPORTS															
602	Exports, excluding military aid shipments, mil.\$	464,980	38,894	38,479	38,930	37,639	37,109	38,050	38,885	40,092	40,236	42,234	39,306	38,144	42,969
604	Exports of domestic agricultural products, mil.\$	41,807	3,357	3,498	3,470	3,537	3,405	3,350	3,540	3,565	3,458	3,777	3,497	3,118	3,412
606	Exports of nonelectrical machinery, mil.\$	99,711	8,371	8,119	8,231	8,094	8,169	8,513	8,322	8,288	8,655	8,935	8,435	8,363	9,096
612	General imports, mil.\$	580,511	49,347	48,660	47,306	49,998	47,534	48,097	49,506	50,990	49,914	49,601	49,475	50,134	53,090
614	Imports of petroleum and petroleum products, mil.\$	49,926	4,813	4,958	4,342	4,651	4,149	3,745	3,759	3,888	3,613	3,406	2,951	3,895	4,137
616	Imports of automobiles and parts, mil.\$	80,672	7,048	6,945	6,619	6,819	6,090	6,691	6,861	6,966	6,880	6,943	6,212	6,801	7,349
618	Merchandise exports, adjusted, excluding military, mil.\$ ¹	456,766			113,067			111,935			120,284				
620	Merchandise imports, adjusted, excluding military, mil.\$ ¹	589,244			147,465			147,907			153,067				
622	Balance on merchandise trade, mil.\$ ¹	-132,478			-34,398			-35,972			-32,783				

15. INTERNATIONAL COMPARISONS															
Industrial production indexes (1987=100):															
47	United States	110.9	110.0	110.5	110.0	110.4	110.9	111.1	111.3	111.9	112.8	114.0	114.6	115.1	115.7
721	OECD, European countries ²	107	107	105	107	106	107	107	107	108	108	107	106		
728	Japan	111.7	116.5	113.4	110.6	112.5	111.9	110.9	113.3	107.4	109.8	108.0	109.1	109.2	109.2
725	Federal Republic of Germany	107	107	106	107	107	106	108	108	107	107	107	107	105	107
726	France	107	107	106	106	106	107	107	107	106	107	106	106	106	106
722	United Kingdom	105	103	104	105	104	106	106	106	107	107	106	107	108	108
727	Italy	104.4	105.2	100.7	105.1	102.8	105.1	103.4	103.1	105.3	106.9	102.5			
723	Canada	103.2	103.1	102.1	102.1	103.7	102.7	103.5	104.4	104.4	105.1	104.6	105.1	104.6	105.5
Consumer price indexes (1982-84=100):															
320	United States, NSA	144.5	143.6	144.0	144.2	144.4	144.4	144.8	145.1	145.7	145.8	145.8	146.2	146.7	147.2
	Percent change over 6-month span, AR	2.6	2.8	2.7	2.5	2.2	2.2	2.4	2.6	2.4	2.4	2.9	2.5		
738	Japan, NSA	118.5	117.7	118.5	118.6	118.5	118.8	119.2	119.3	119.2	118.5	118.6	118.7	118.7	119.3
	Percent change over 6-month span, AR	1.1	1.0	2.6	2.7	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
735	Federal Republic of Germany, NSA	125.6	124.7	125.1	125.5	125.7	126.0	126.0	126.1	126.4	126.7	126.9	128.0	128.5	128.7
	Percent change over 6-month span, AR	3.5	4.6	3.8	3.2	2.9	2.7	2.9	2.7	2.9	3.4	3.5	3.7		
736	France, NSA	143.5	143.1	143.2	143.5	143.4	143.5	143.5	144.0	144.3	144.4	144.3	144.5	144.9	145.2
	Percent change over 6-month span, AR	1.9	2.6	2.1	1.5	1.3	1.5	1.7	1.8	1.5	1.8	1.7	1.8		
732	United Kingdom, NSA	165.3	163.7	165.2	165.8	165.7	165.3	166.0	166.7	166.6	166.4	166.7	166.0	167.0	167.4
	Percent change over 6-month span, AR	1.9	1.7	2.7	2.3	2.3	2.3	2.0	2.6	2.4	2.4	2.2	2.8		
737	Italy, NSA	186.4	184.0	184.7	185.4	186.4	187.1	187.2	187.5	188.6	189.5	189.5	190.6	191.4	191.8
	Percent change over 6-month span, AR	4.2	4.1	4.6	5.1	5.0	4.7	4.5	3.8	3.8	3.4	3.5	3.4		
733	Canada, NSA	147.9	147.3	147.3	147.6	147.6	148.0	148.1	148.2	148.4	149.1	148.8	148.8	147.7	147.6
	Percent change over 6-month span, AR	1.1	1.0	1.0	1.4	2.1	1.9	2.2	2.6	1.5	1.5	1.5	1.5		
Stock price indexes (1967=100, NSA):															
19	United States*	491.0	489.7	482.0	484.3	487.4	486.6	494.0	499.6	504.6	503.5	506.9	514.5	513.0	504.5
748	Japan*	1,380.4	1,233.8	1,409.7	1,471.1	1,462.1	1,468.4	1,509.9	1,504.5	1,489.2	1,380.9	1,306.9	1,374.5	1,444.0	1,467.7
745	Federal Republic of Germany*	312.2	296.8	293.6	286.1	293.3	311.6	325.3	322.8	337.9	345.9	362.9	374.1	372.7	374.0
746	France*	969.7	945.8	938.8	902.3	907.8	954.3	1,021.0	1,006.6	1,047.2	1,023.6	1,111.7	1,111.7	1,141.6	1,096.0
742	United Kingdom*	1,373.6	1,351.0	1,324.5	1,324.5	1,339.0	1,323.9	1,404.6	1,412.4	1,438.9	1,429.9	1,507.5	1,582.8	1,582.2	1,526.4
747	Italy*	575.2	534.4	544.0	575.4	559.7	579.9	634.6	633.2	617.1	575.1	622.9	646.5	699.6	696.5
743	Canada*	441.1	407.1	428.2	437.4	448.2	448.3	467.5	450.9	480.9	472.3	488.3	514.7	499.9	489.2
Exchange rates:															
750	Exchange value of U.S. dollar, index: March 1973=100, NSA ³ .	93.18	93.65	90.62	90.24	91.81	94.59	94.32	92.07	93.29	95.47	95.73	96.54	95.79	94.35
Foreign currency per U.S. dollar (NSA):															
758	Japan (yen)*	111.08	117.02	112.41	110.34	107.41	107.69	103.77	105.57	107.02	107.88	109.91	111.44	106.30	105.10
755	Federal Republic of Germany (d. mark)*	1.6645	1.6466	1.5964	1.6071	1.6547	1.7157	1.6944	1.6219	1.6405	1.7005	1.7105	1.7426	1.7355	1.6909
756	France (franc)*	5.6689	5.5944	5.3984	5.4180	5.5700	5.8464	5.9298	5.6724	5.7541	5.9069	5.8477	5.9207	5.8955	5.7647
752	United Kingdom (pound)*	.6662	.6841	.6474	.6461	.6630	.6687	.6705	.6558	.6656	.6753	.6706	.6701	.6760	.6703
757	Italy (lira)*	1,573.41	1,591.35	1,536.14	1,475.66	1,505.05	1,586.02	1,603.75	1,569.10	1,600.93	1,666.31	1,687.17	1,699.45	1,685.96	1,666.63
753	Canada (dollar)*	1.2902	1.2471	1.2621	1.2698	1.2789	1.2820	1.3080	1.3215	1.3263	1.3174	1.3308	1.3173	1.3424	1.3644

16. ALTERNATIVE COMPOSITE INDEXES															
990	CIBCR long-leading composite index, 1967=100 ⁴	259.0	258.1	255.3	256.3	258.1	258.8	258.9	258.9	261.1	262.9	266.3	266.1	266.8	265.9
991	CIBCR short-leading composite index, 1967=100 ⁴	224.0	222.4	221.9	219.5	223.1	222.2	223.6	226.2	226.5	229.9	229.6	232.6	234.0	236.9

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.
c	Corrected.	r	Revised.
©	Copyrighted.	♦	Graph included for this series.
e	Estimated.	§	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-30 through C-32 in the April 1994 SURVEY.

Page C-1

Major data revision: Index of new private housing units authorized by local building permits (BCI-29)—see note for page C-3.

* Preliminary May 1994 values: BCI-32 = 60.7, BCI-19 = 450.90, and BCI-109 = 6.94.

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.

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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. Data beginning January 1994 are based on the revised Current Population Survey and are not directly comparable with data for earlier periods.

Page C-2

* Preliminary May 1994 values: BCI-32 = 60.7; anticipated 2d quarter 1994 values: BCI-61 = 624.99 and BCI-100 = 601.46.

1. Data beginning January 1994 are based on the revised Current Population Survey and are not directly comparable with data for earlier periods.

2. 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.

3. Data exclude Puerto Rico, which is included in figures published by the source agency.

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Page C-3

Major data revision: Index of new private housing units authorized by local building permits (BCI-29) has been revised from 1992 forward to reflect annual updating of basic data and computation of

new seasonal adjustment factors. For further information, contact the U.S. Department of Commerce, Bureau of the Census, Construction Statistics Division, Washington, DC 20233.

* Preliminary May 1994 value: BCI-23 = 288.0.

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Page C-4

* Preliminary May 1994 values: BCI-122 = 87.6, BCI-123 = 93.5, and BCI-85 = -0.14.

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Page C-5

* Preliminary May 1994 values: BCI-119 = 3.83, BCI-114 = 4.18, BCI-116 = 8.13, BCI-115 = 7.47, BCI-117 = 6.21, BCI-109 = 6.94, BCI-19 (1941-43=10) = 450.90, BCI-19 (1967=100) = 490.5, BCI-748 = 1,488.4, BCI-745 = 390.1, BCI-746 = 1,076.0, BCI-742 = 1,485.0, BCI-747 = 808.2, BCI-743 = 488.9, BCI-750 = 92.80, BCI-758 = 103.70, BCI-755 = 1.6571, BCI-756 = 5.6753, BCI-752 = 0.6650, BCI-757 = 1,594.62, and BCI-753 = 1.3807.

1. 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.

Notes for Pages C-7 Through C-27

The following notes explain general features of the charts that appear in this section:

- Business cycle peaks (P) and troughs (T), as designated by the National Bureau of Economic Research, Inc., are indicated at the top of each chart. The shaded areas represent recessions.

- For each series classified as a cyclical indicator, the timing classifications at peaks, at troughs, and overall are shown in a box adjacent to the title. (L = leading, C = coincident, Lg = lagging, U = unclassified.) A complete list of series titles and sources is shown on pages C-30 through C-32 in the April 1994 SURVEY.

- *Arithmetic scales* are designated "Scale A." On the same arithmetic scale, equal vertical distances represent equal differences in data. (For example, the vertical distance from 10 to 15 is the same as the distance from 100 to 105.)

- *Logarithmic (log) scales* are designated L-1, L-2, or L-3 to indicate their relative size. On log scales of the same size, equal vertical distances represent equal percentage changes. (For

example, the vertical distance from 10 to 15 is the same as the distance from 100 to 150.) Compared with an L-1 scale, the same percentage change covers half the distance on an L-2 scale and one-third the distance on an L-3 scale.

- Data are monthly unless otherwise indicated. Quarterly data are indicated by a "Q" following the series title.

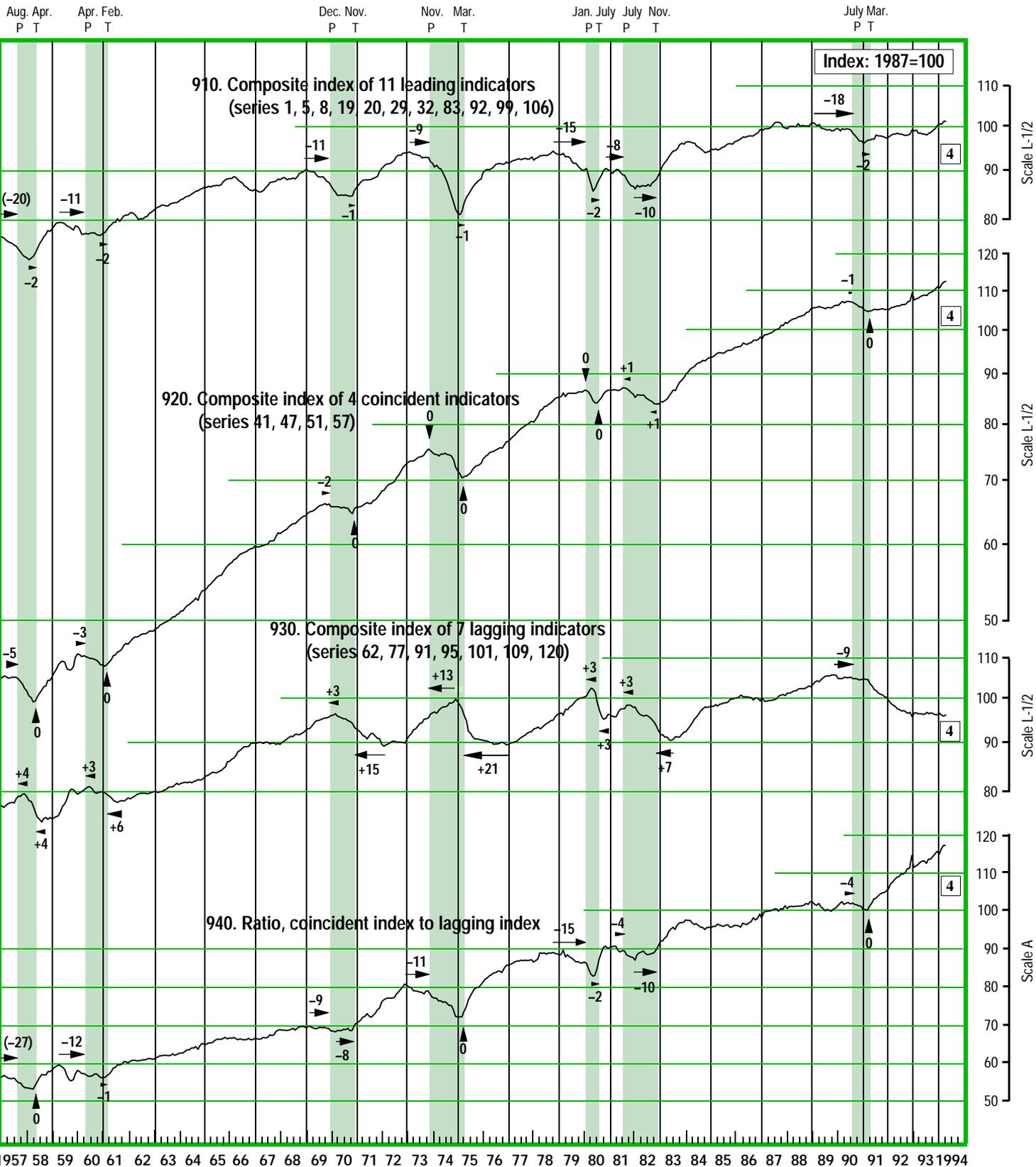
- Some series include a centered moving average, which is shown as a heavy line superimposed on the actual monthly data.

- Parallel lines across a plotted series indicate a missing data value, change in definition, or other significant break in continuity.

- The box near the end of each plotted series indicates the latest data month (Arabic numeral) or quarter (Roman numeral) shown or, for series computed over a span of time (diffusion indexes and rates of change), the latest data period used in computing the series.

CYCLICAL INDICATORS

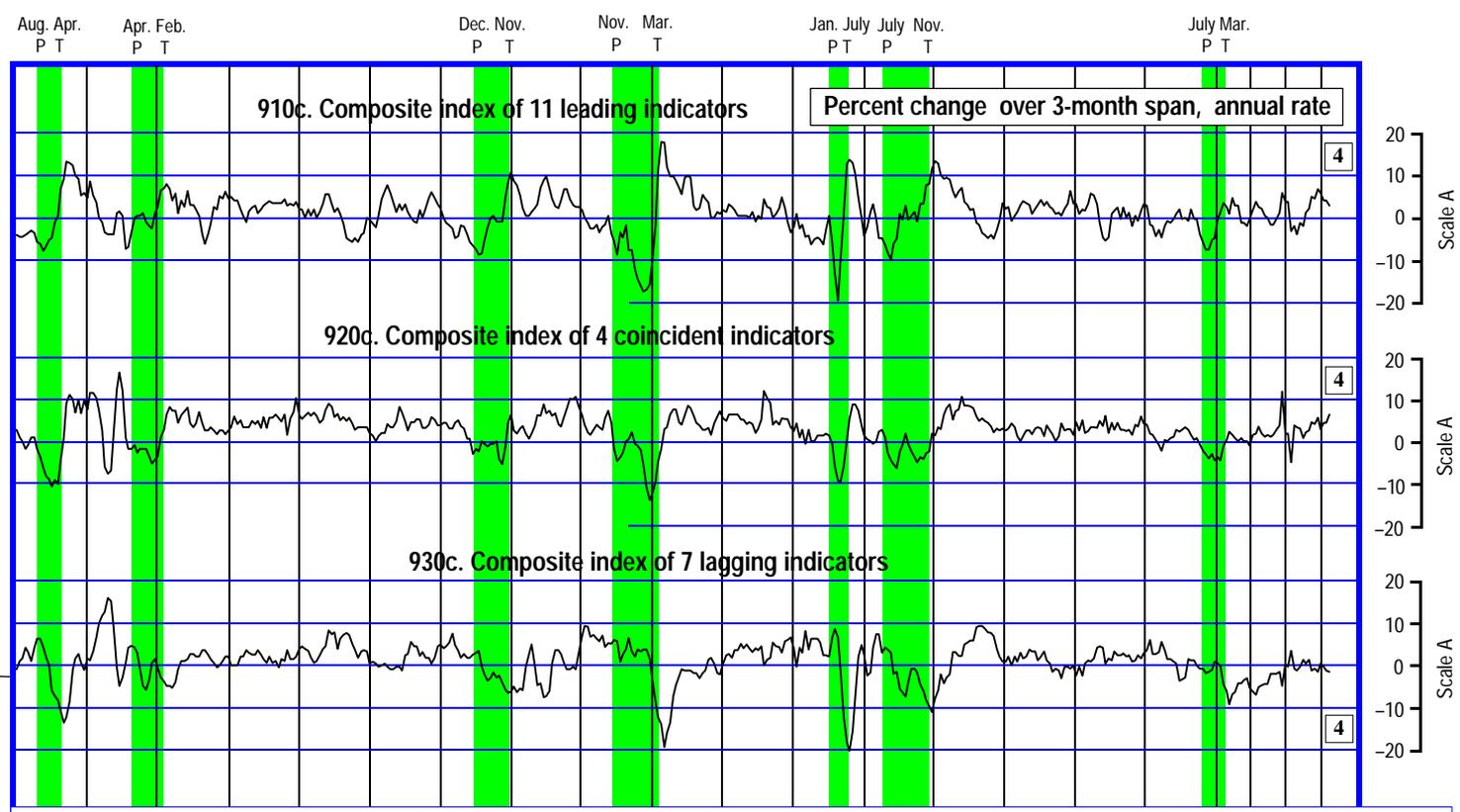
Composite Indexes



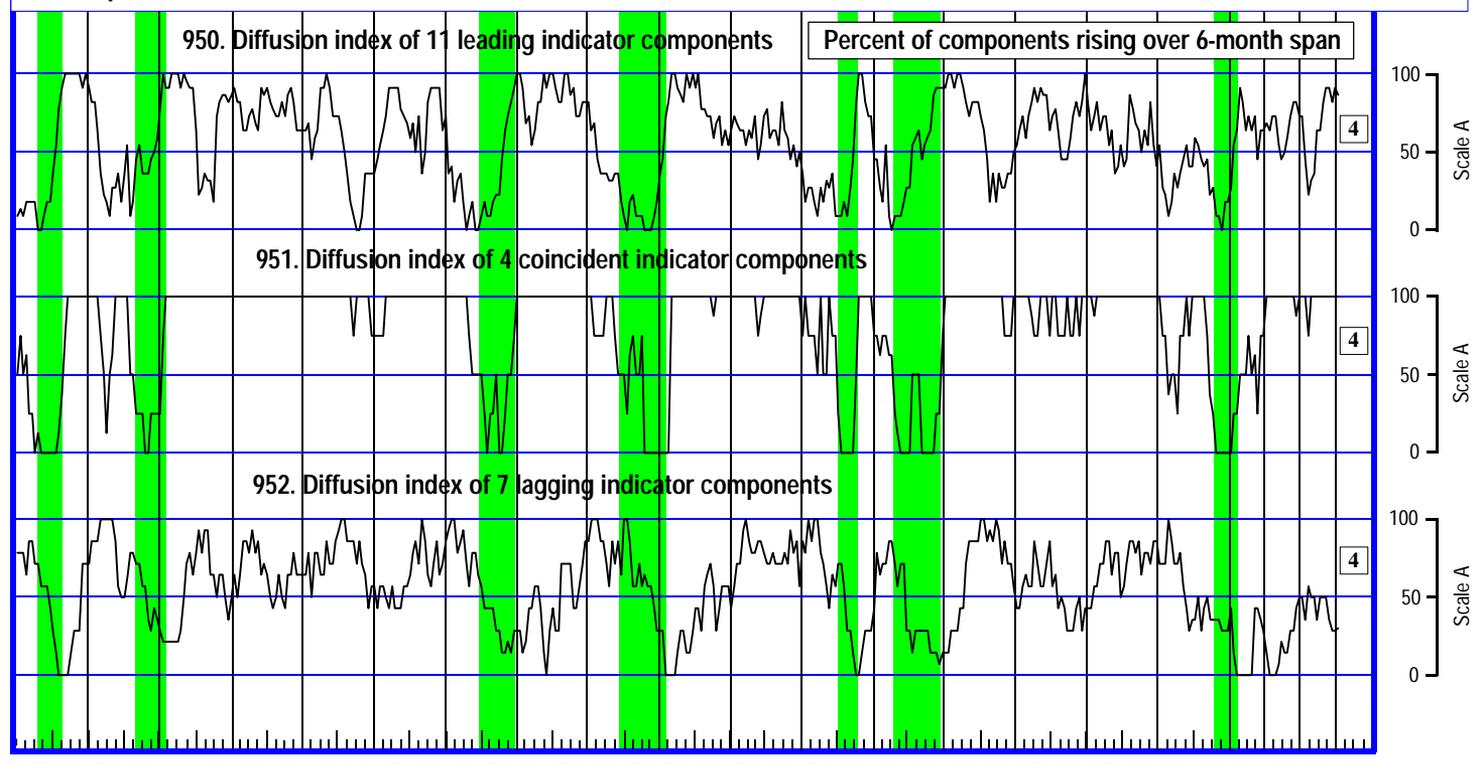
NOTE.—The numbers and arrows indicate length of leads (-) and lags (+) in months from business cycle turning dates. Current data for these series are shown on page C-1.

CYCLICAL INDICATORS

Composite Indexes: Rates of Change



Composite Indexes: Diffusion

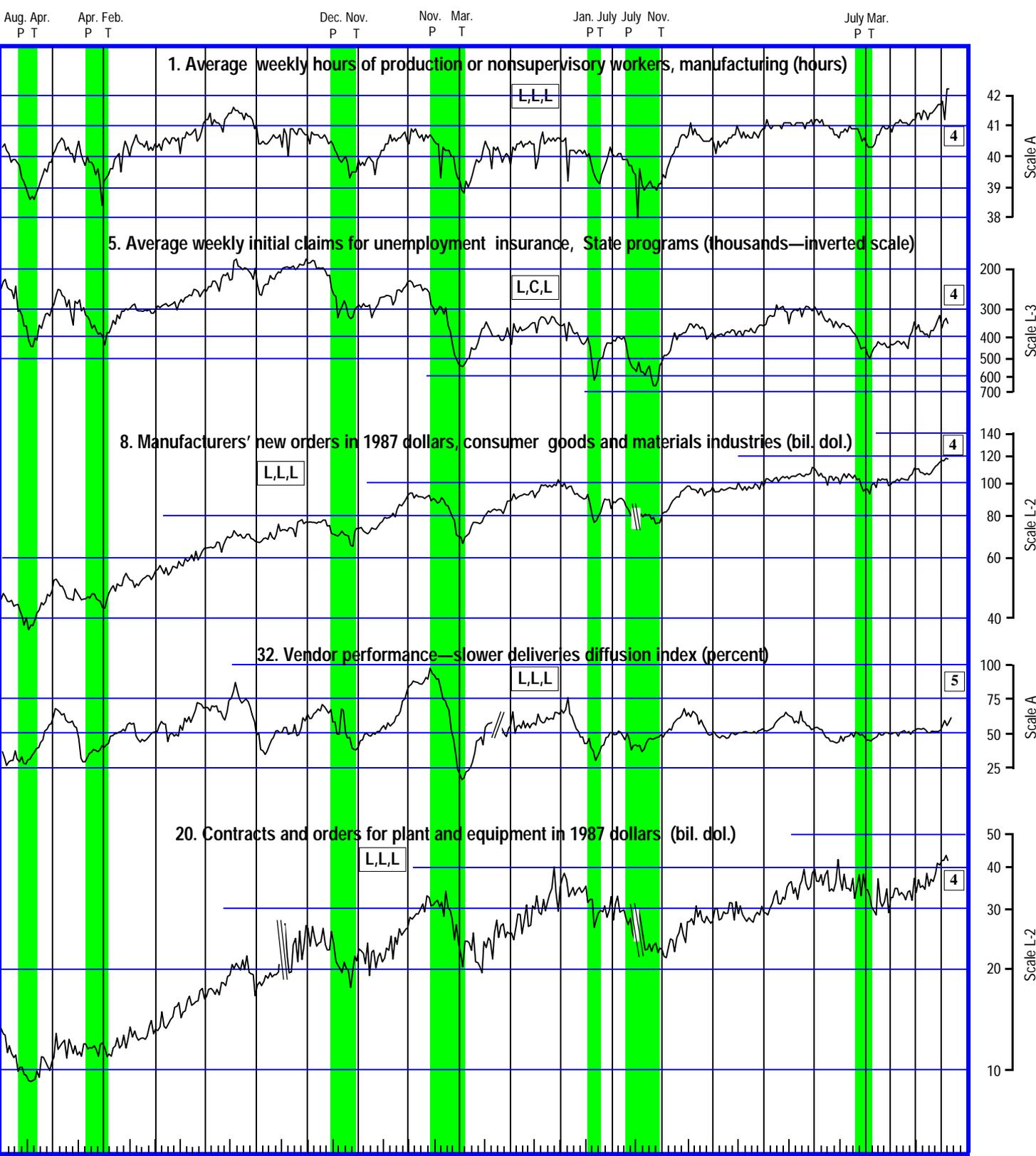


1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994

NOTE.—Current data for these series are shown on page C-1.

CYCLICAL INDICATORS

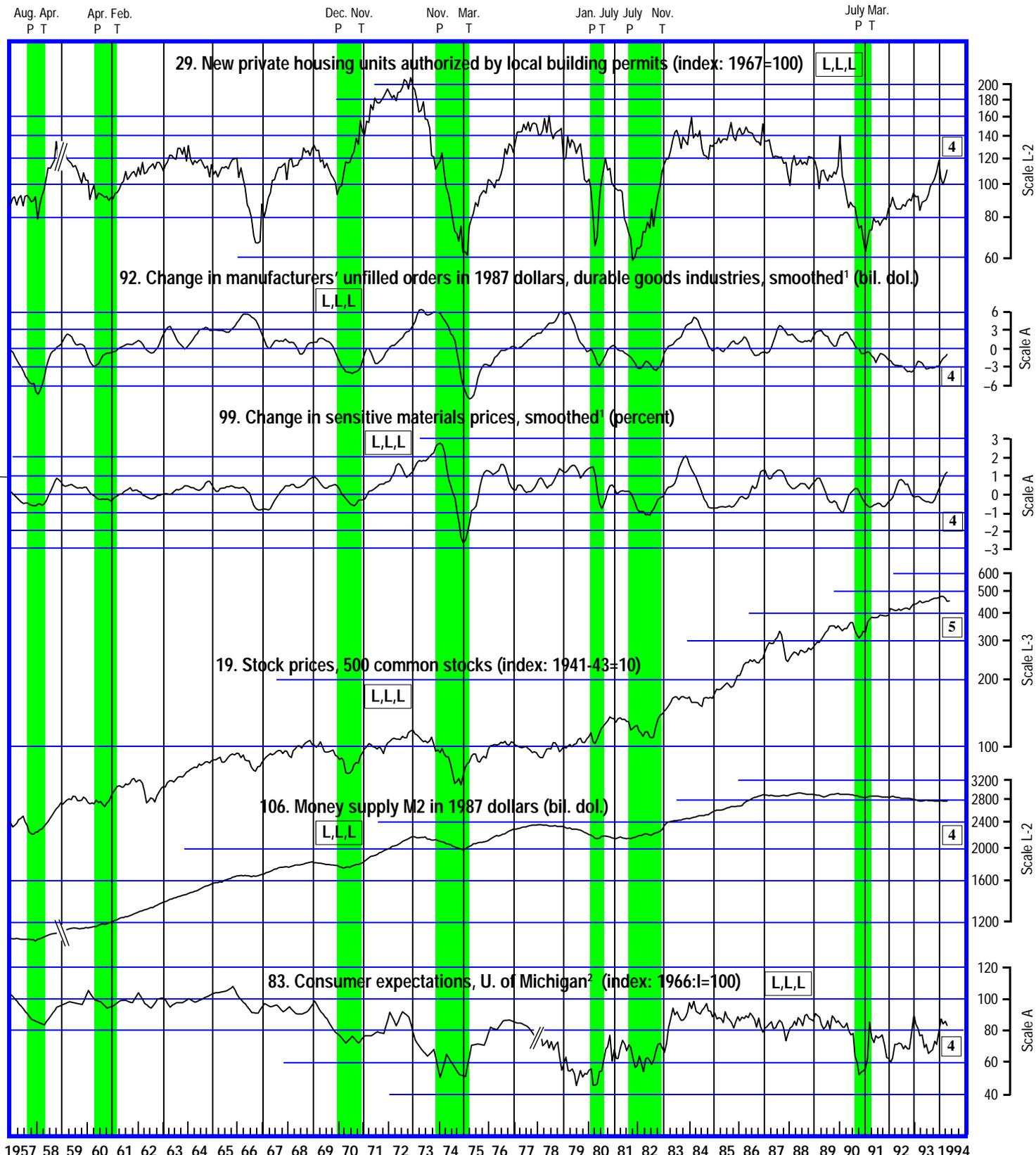
Composite Indexes: Leading Index Components



NOTE.—Current data for these series are shown on page C-1.

CYCLICAL INDICATORS

Composite Indexes: Leading Index Components—Continued



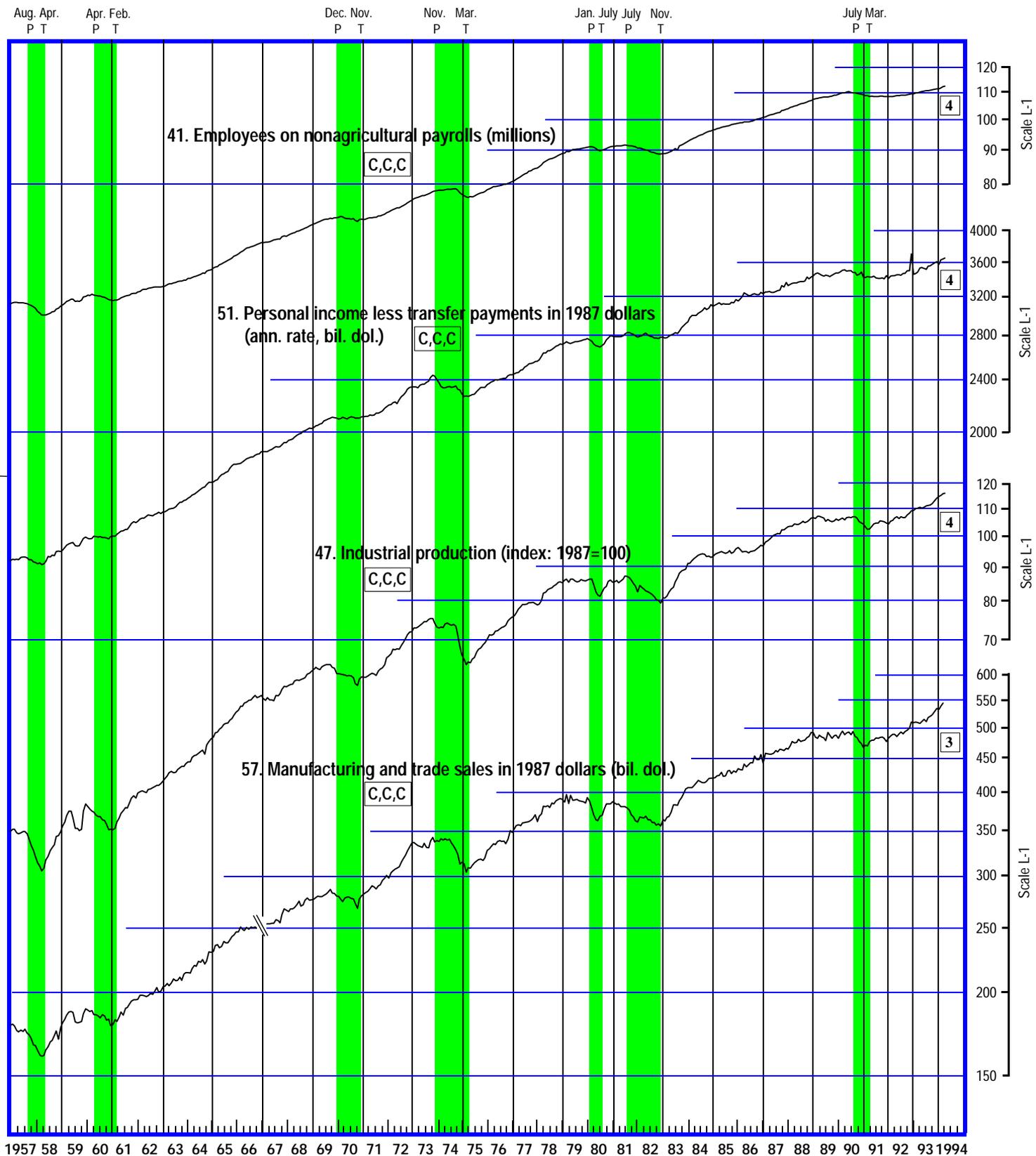
1. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

NOTE.—Current data for these series are shown on page C-1.

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CYCLICAL INDICATORS

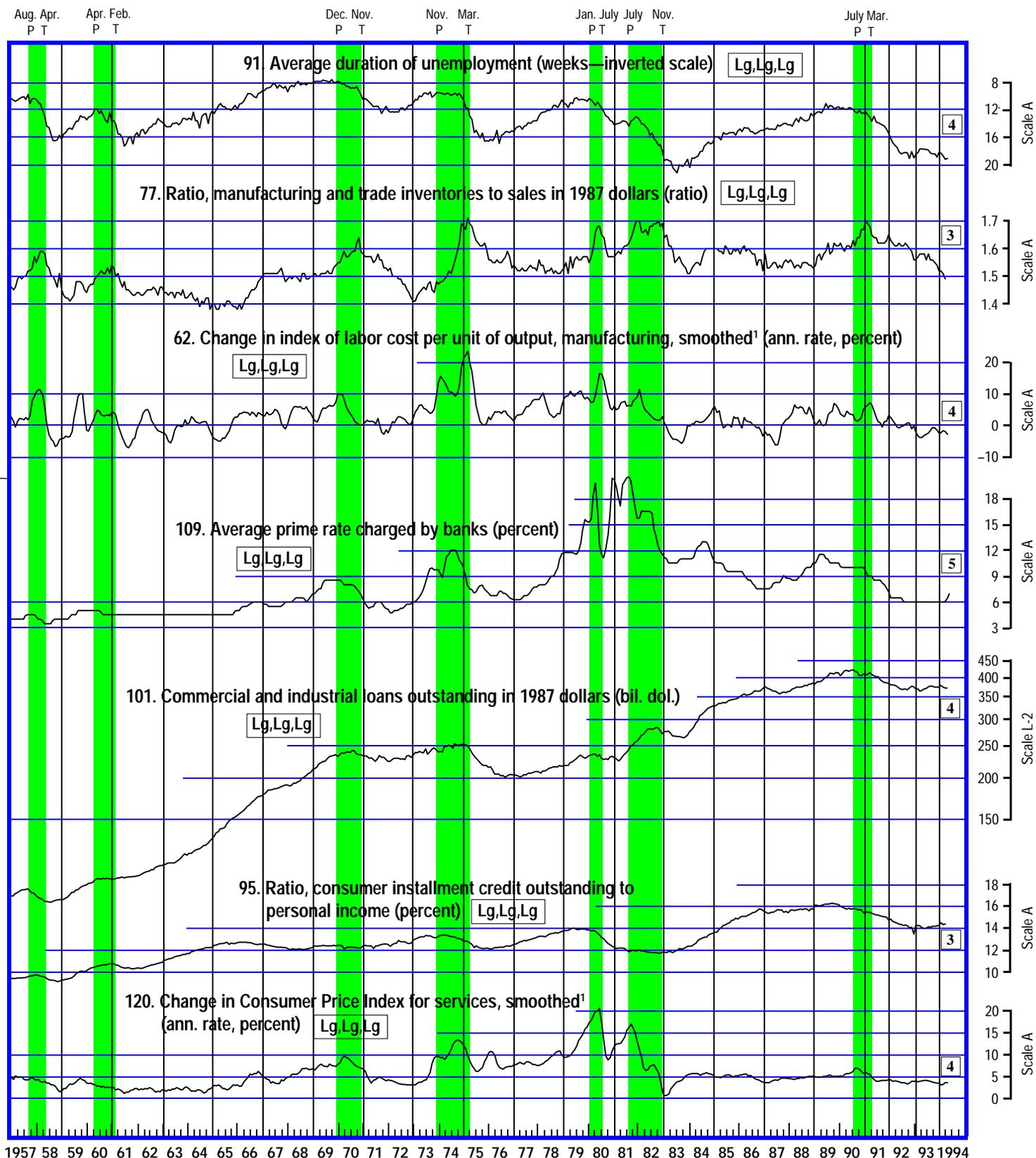
Composite Indexes: Coincident Index Components



NOTE.—Current data for these series are shown on page C-1.

CYCLICAL INDICATORS

Composite Indexes: Lagging Index Components

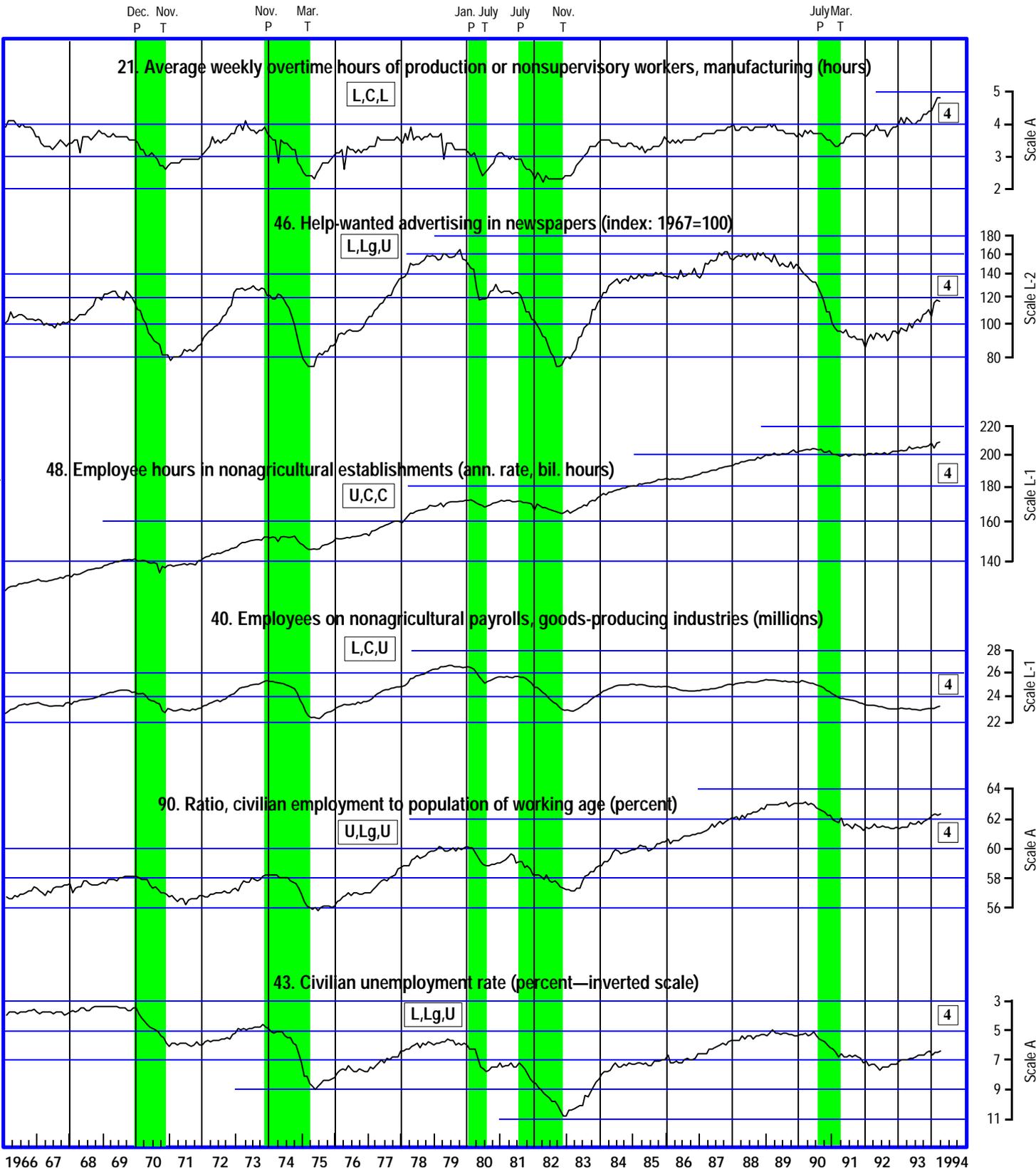


1. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

NOTE.—Current data for these series are shown on page C-1.

CYCLICAL INDICATORS

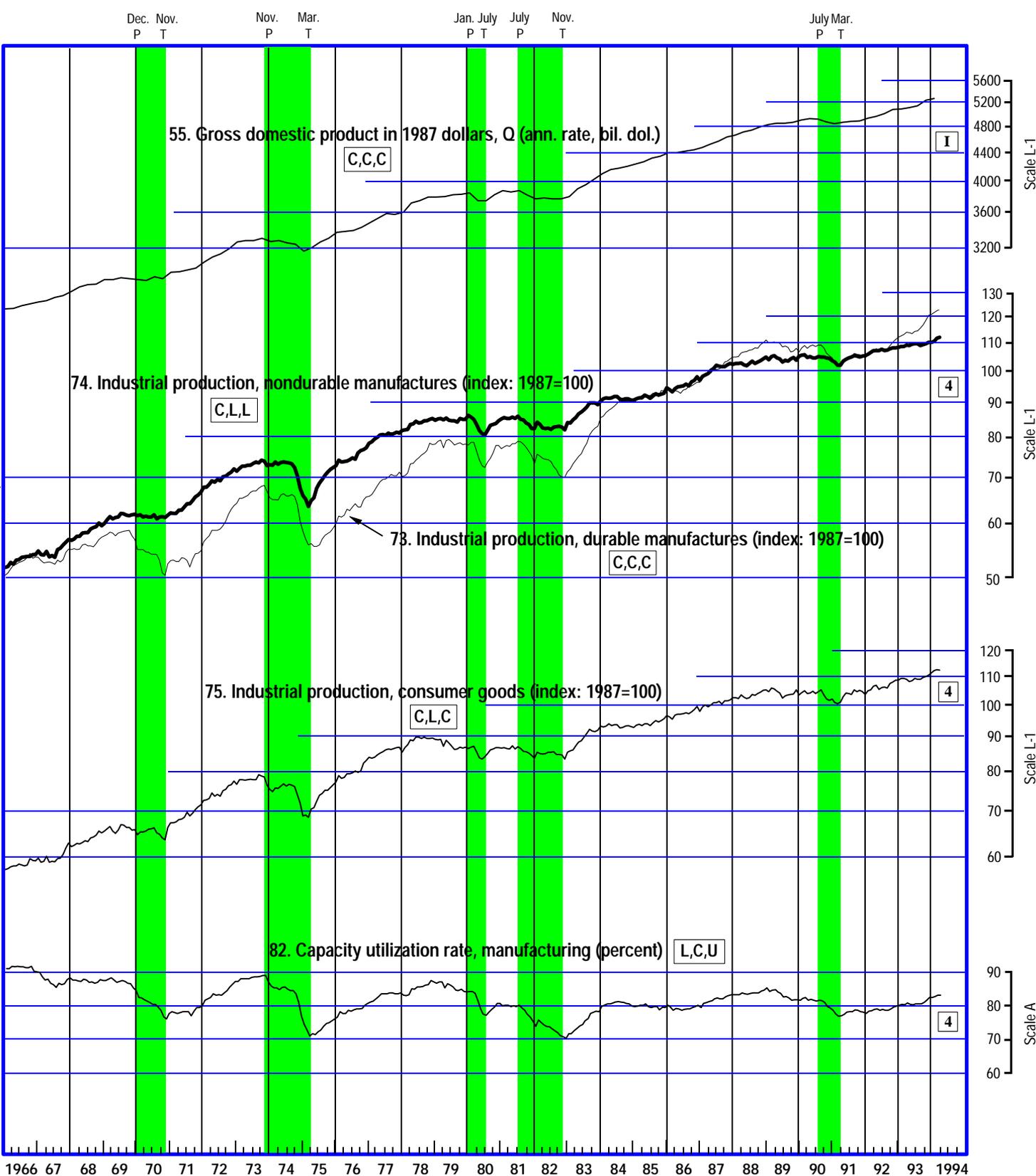
Employment and Unemployment



NOTE.—Current data for these series are shown on page C-2.

CYCLICAL INDICATORS

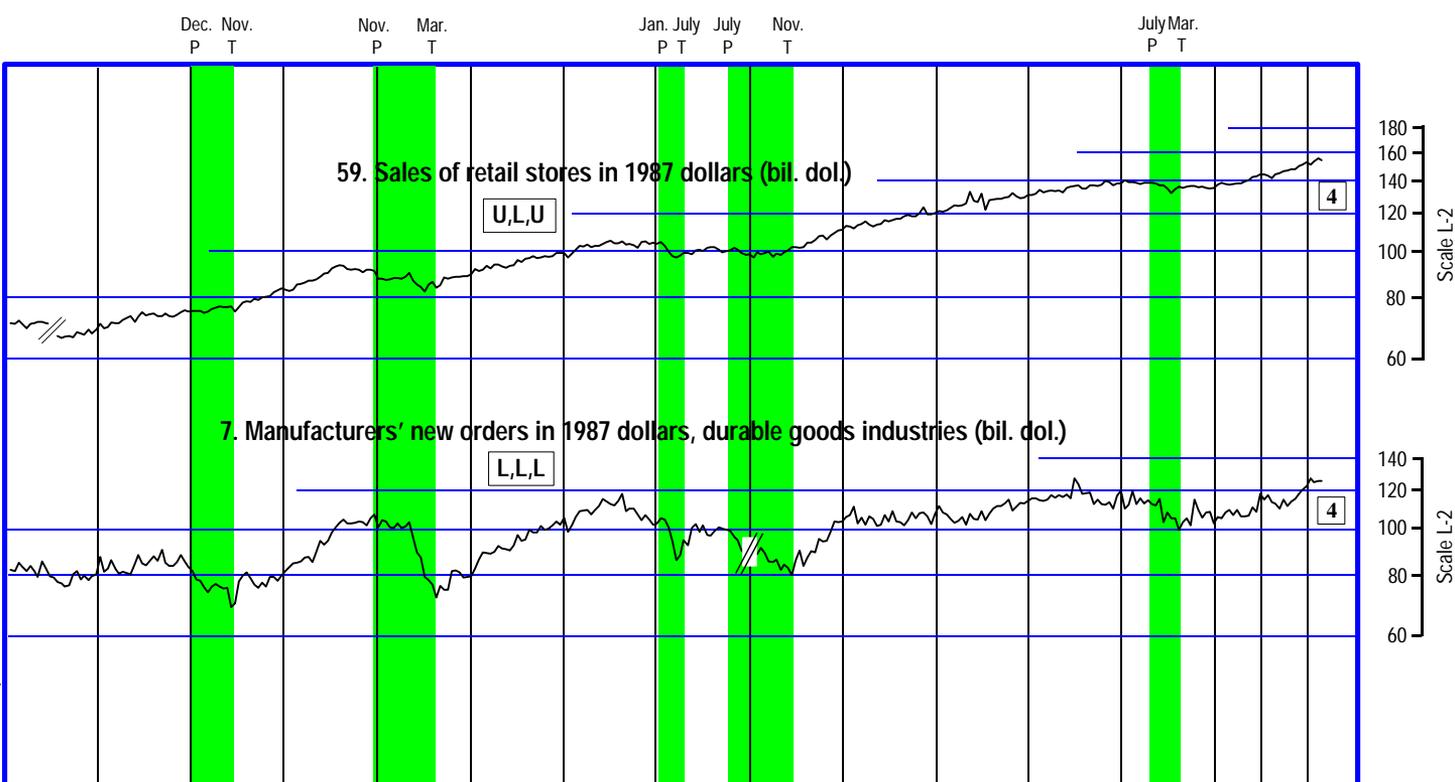
Output, Production, and Capacity Utilization



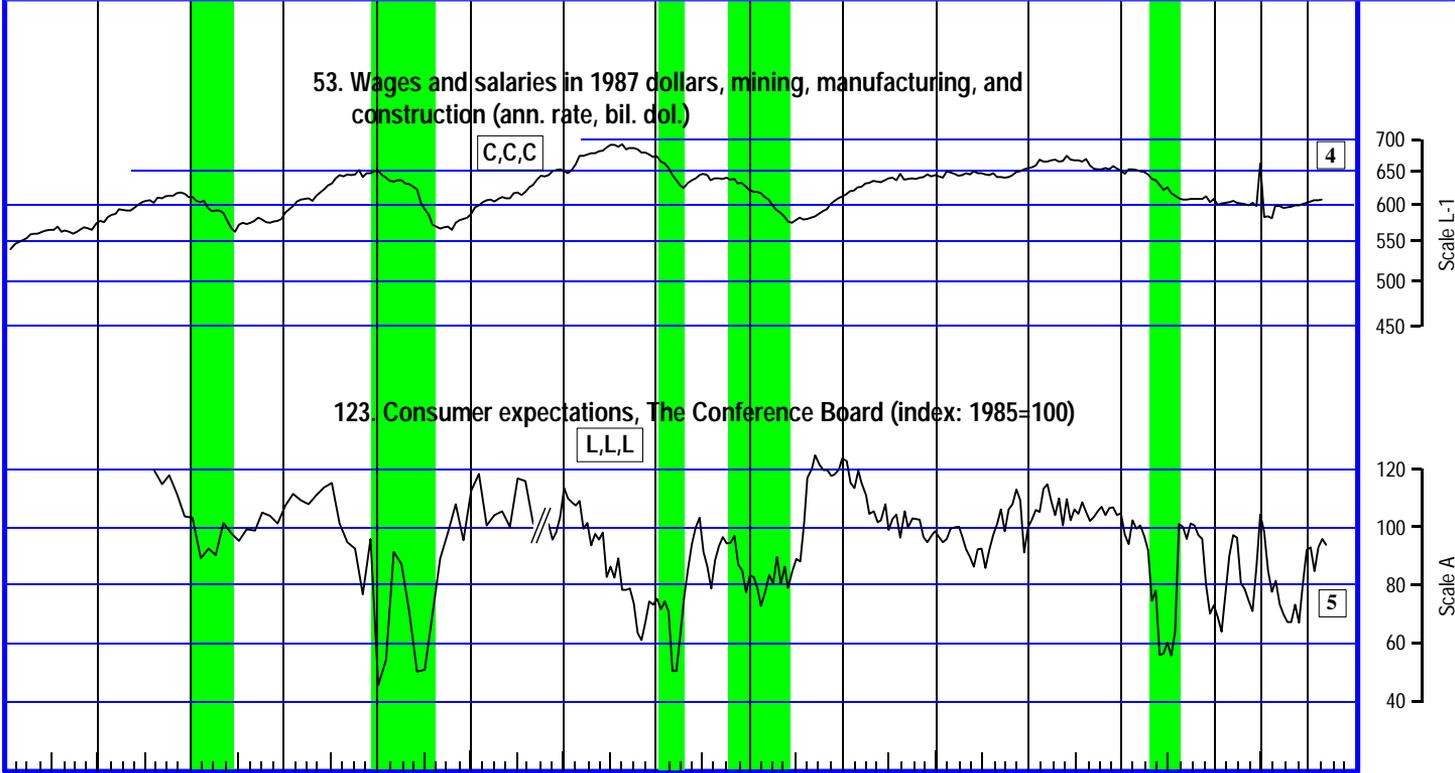
NOTE.—Current data for these series are shown on page C-2.

CYCLICAL INDICATORS

Sales and Orders



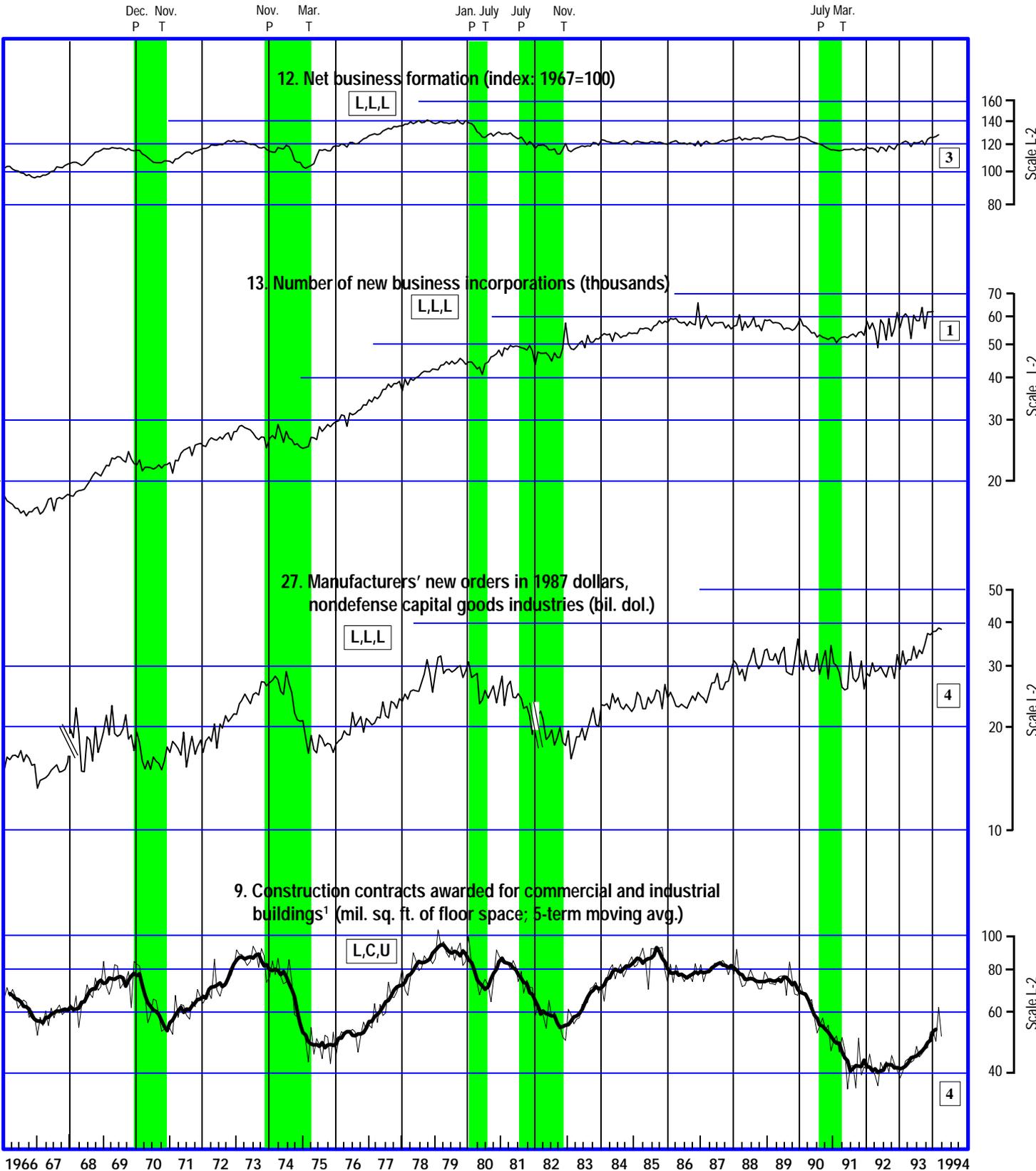
Wages and Consumer Attitudes



NOTE.—Current data for these series are shown on pages C-2 and C-4.

CYCLICAL INDICATORS

Fixed Capital Investment

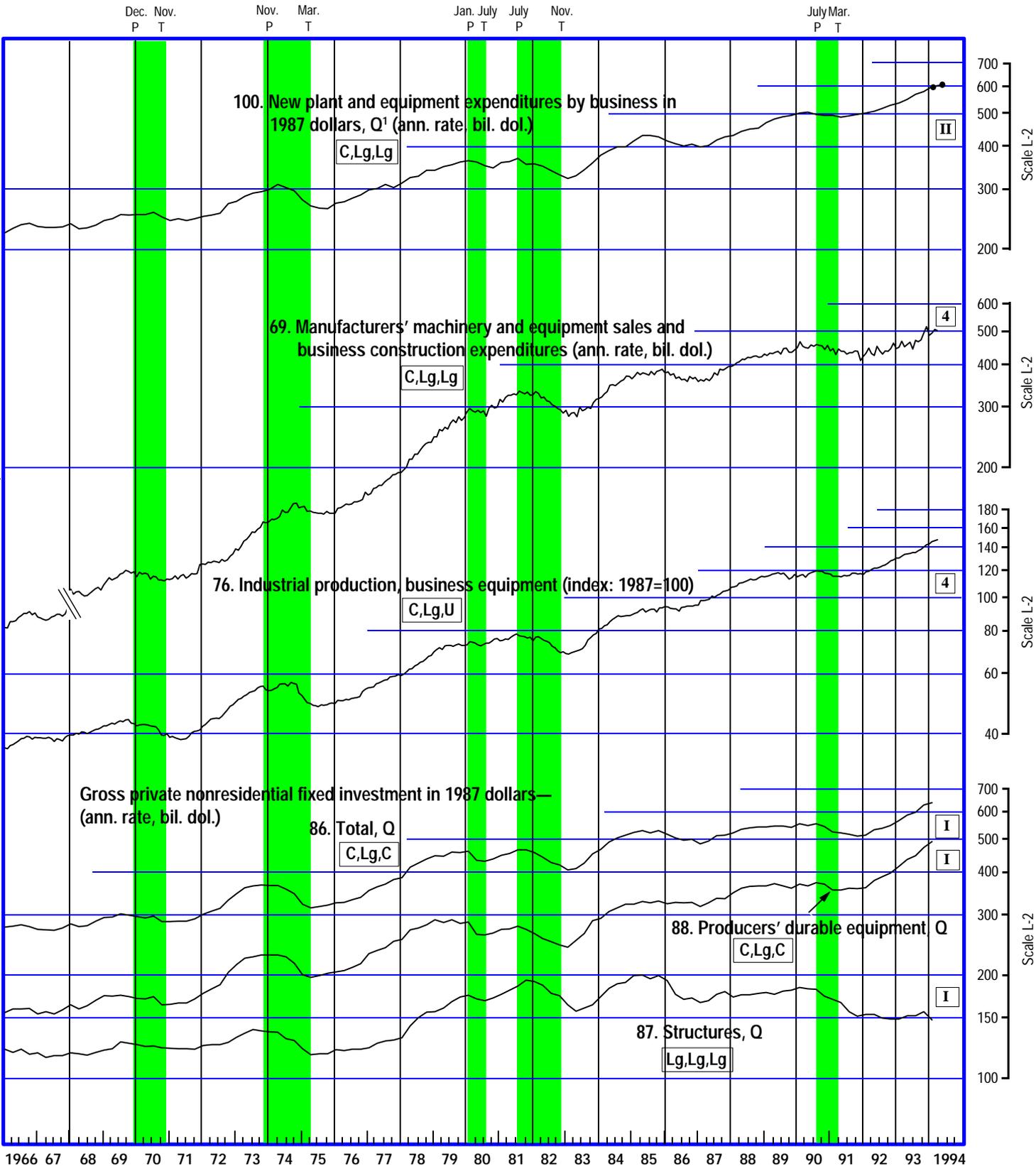


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NOTE.—Current data for these series are shown on page C-2.

CYCLICAL INDICATORS

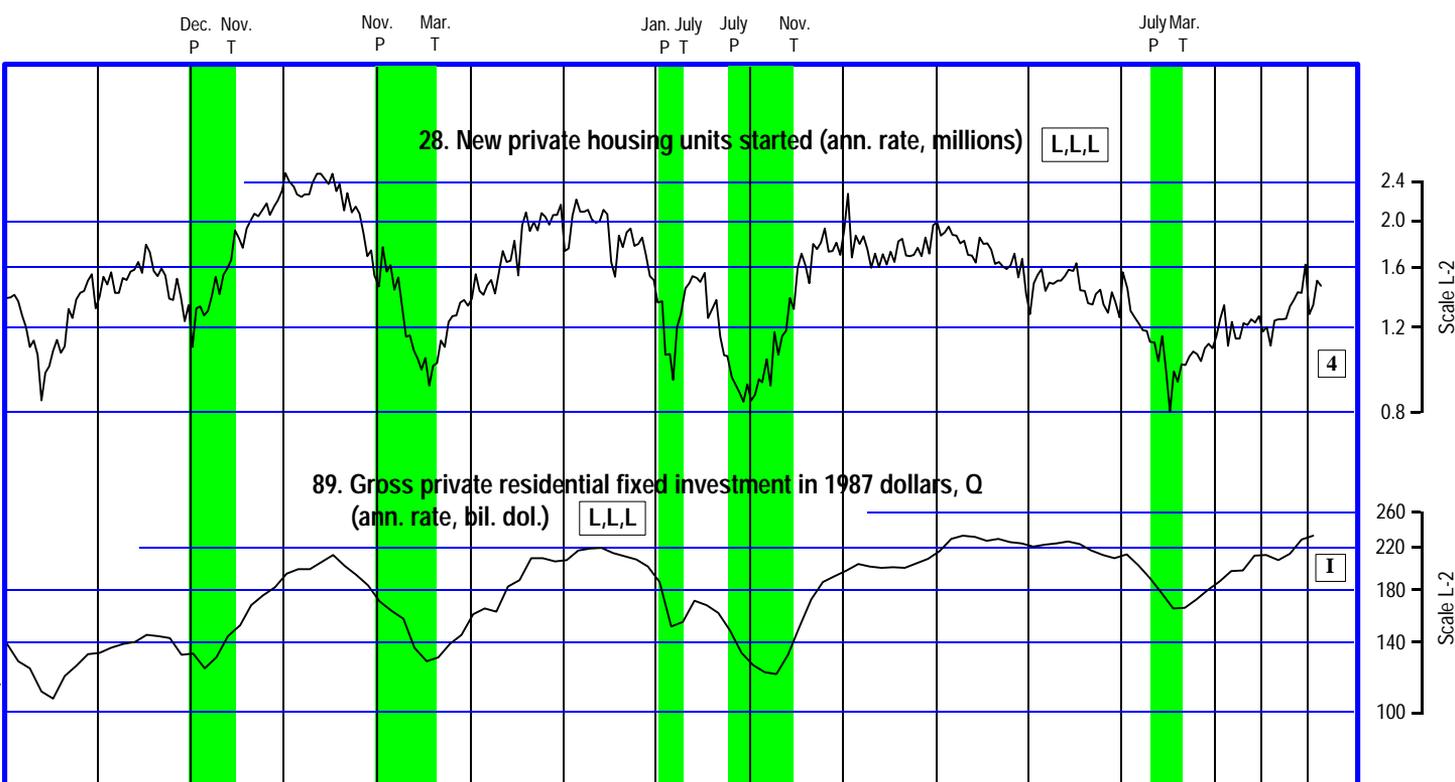
Fixed Capital Investment—Continued



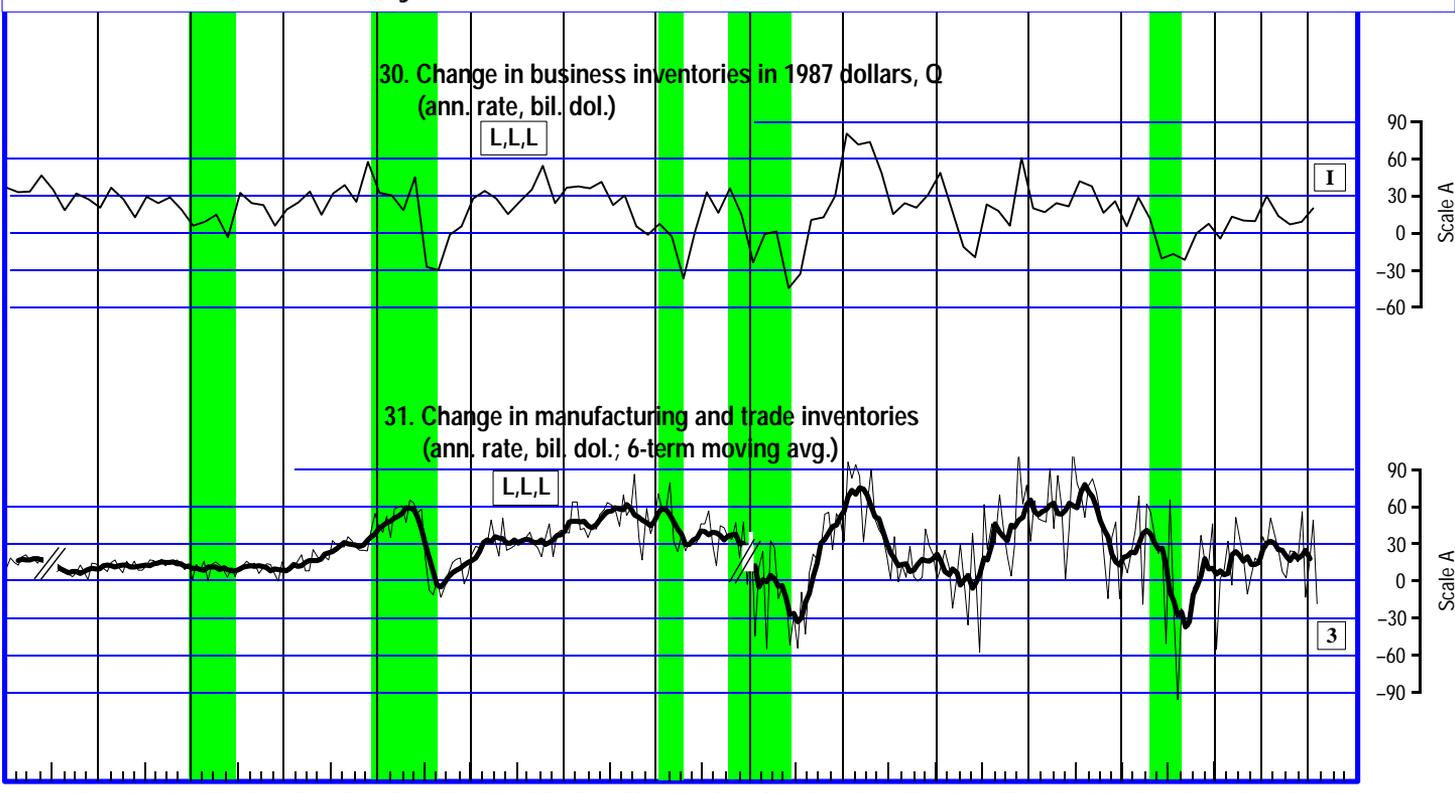
1. Dotted line represents anticipated expenditures.
 NOTE.—Current data for these series are shown on pages C-2 and C-3.

CYCLICAL INDICATORS

Fixed Capital Investment—Continued



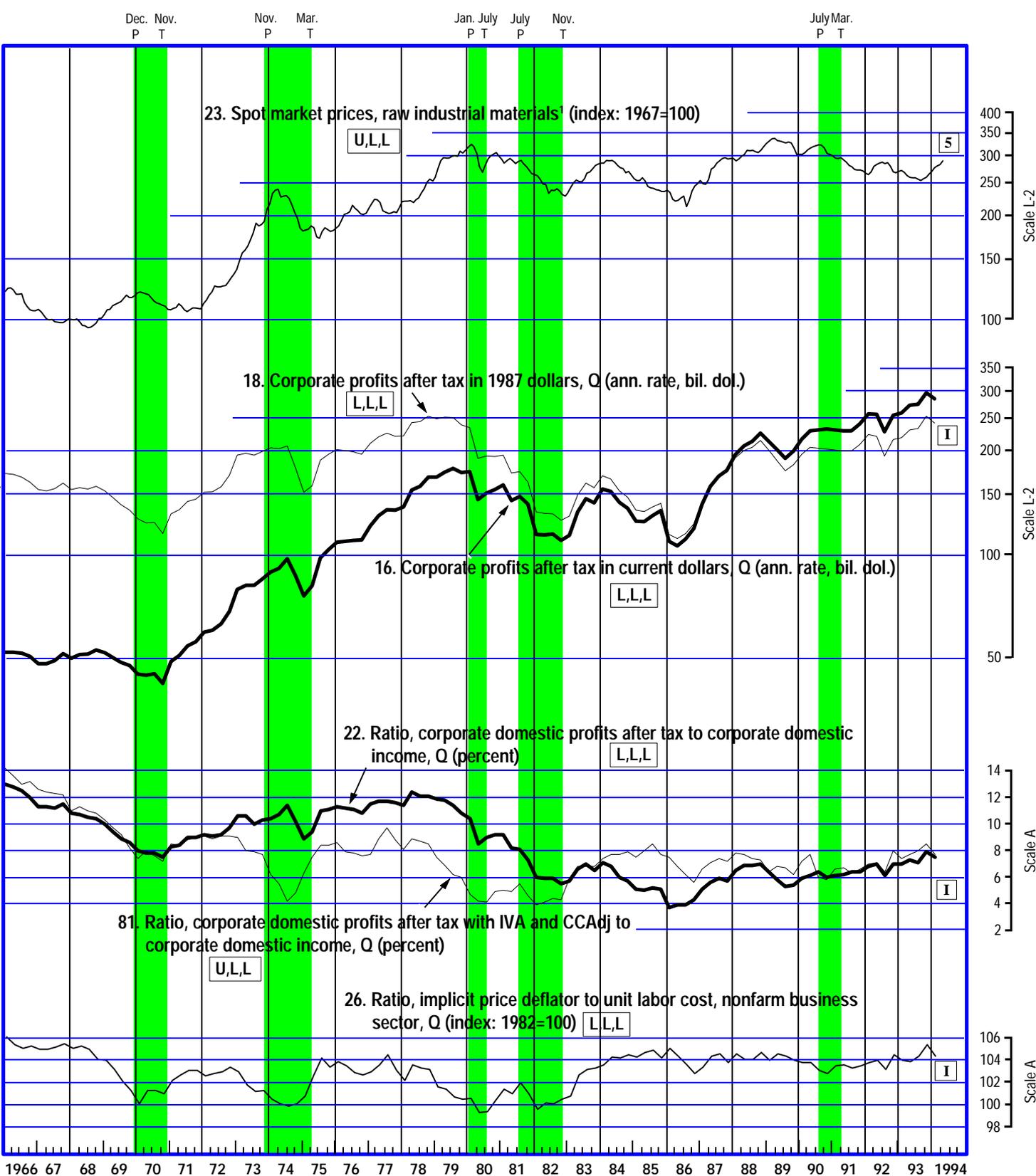
Inventories and Inventory Investment



NOTE.—Current data for these series are shown on page C-3.

CYCLICAL INDICATORS

Prices and Profits

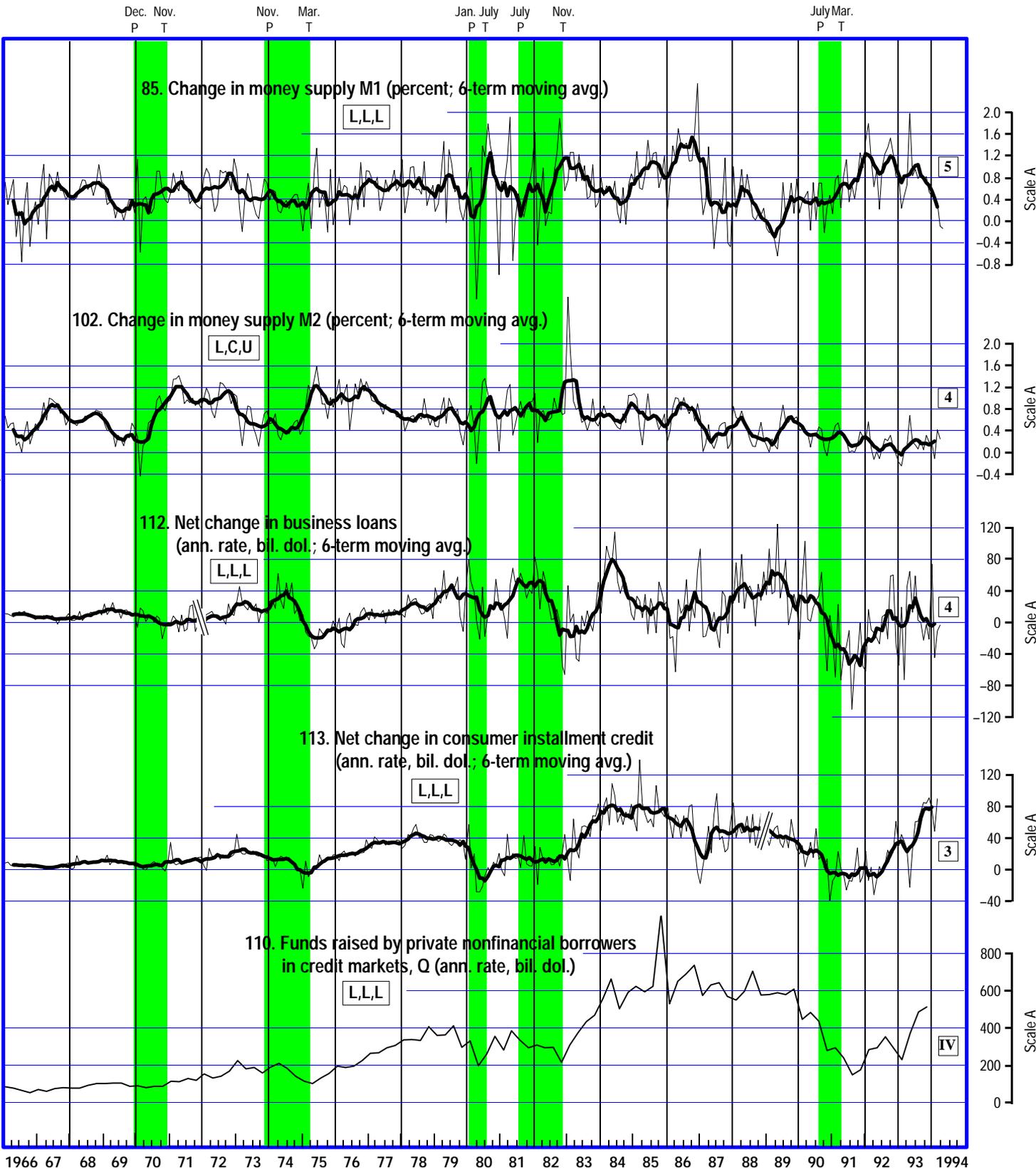


IVA Inventory valuation adjustment. CCAadj Capital consumption adjustment.
 NOTE.—Current data for these series are shown on pages C-3 and C-4.

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CYCLICAL INDICATORS

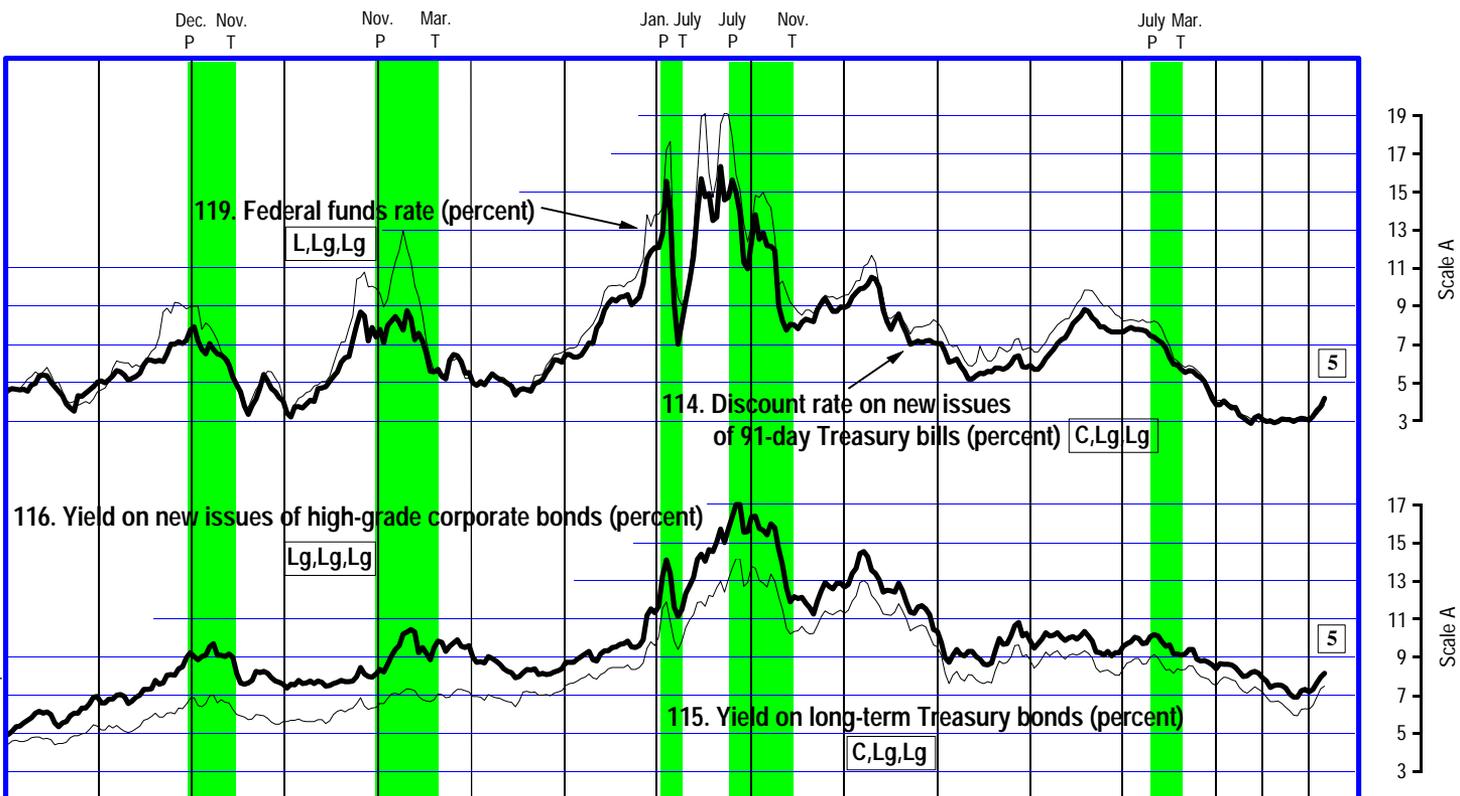
Money, Credit, and Interest Rates



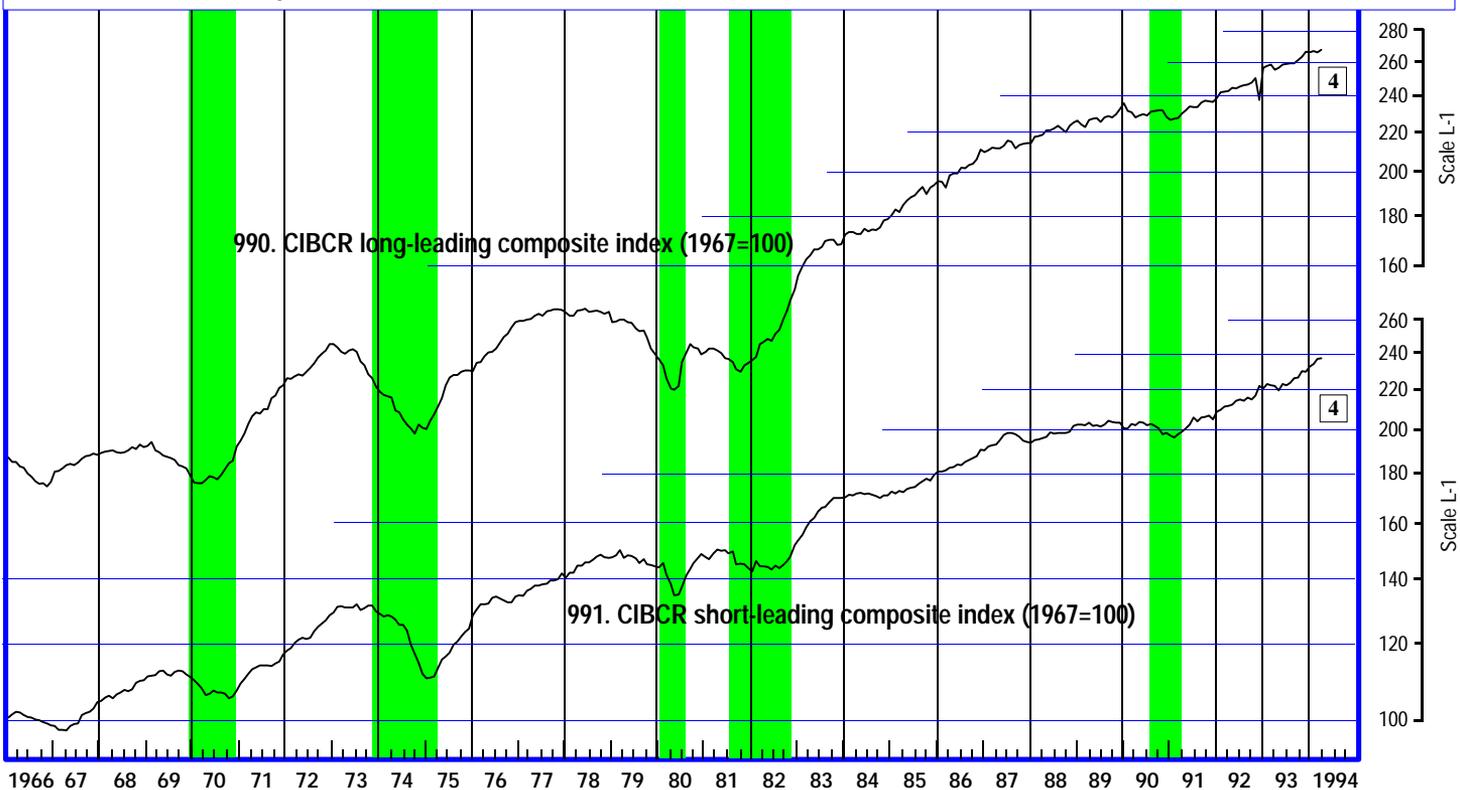
NOTE.—Current data for these series are shown on page C-4.

CYCLICAL INDICATORS

Money, Credit, and Interest Rates—Continued



Alternative Composite Indexes

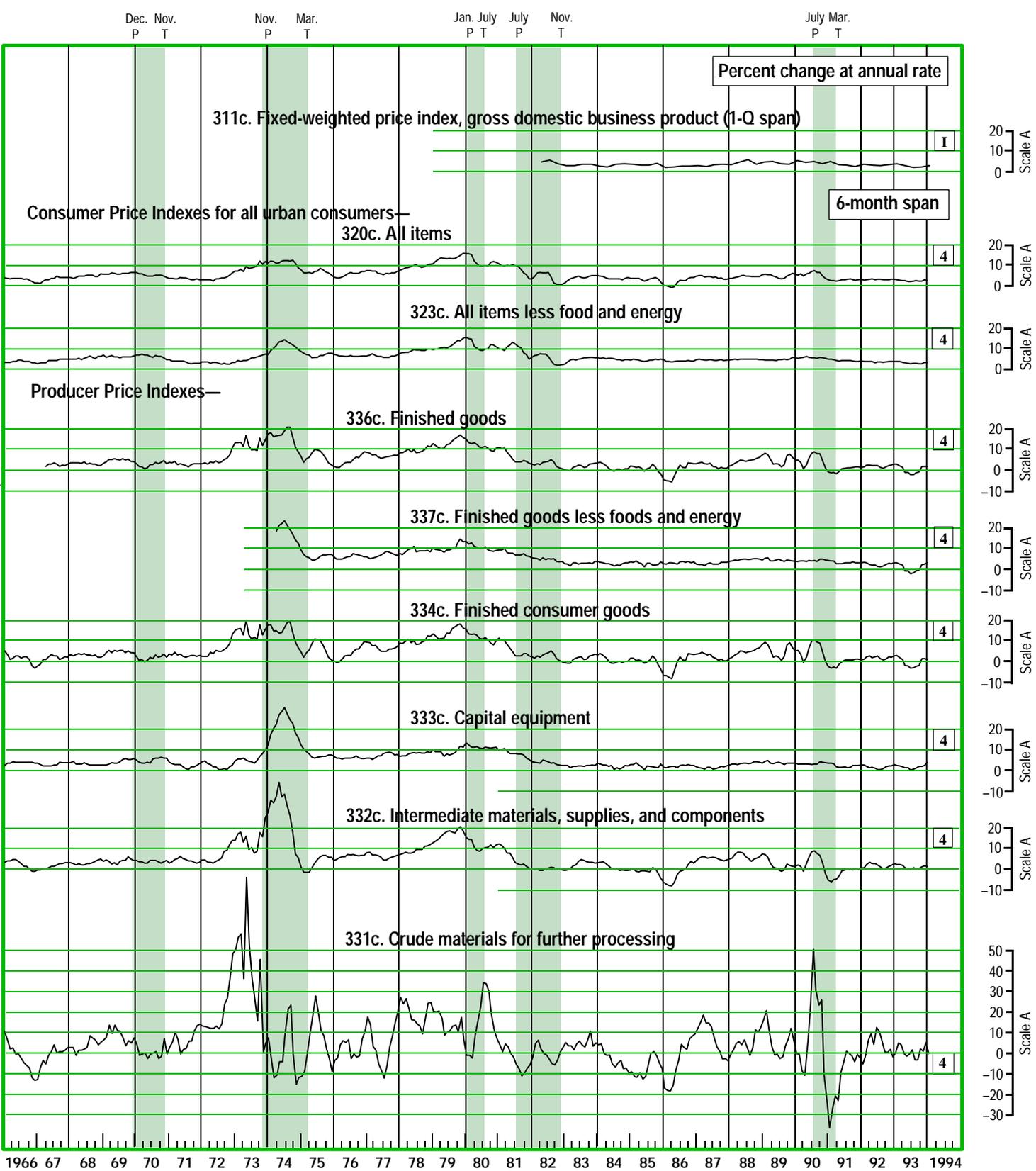


CIBCR: Center for International Business Cycle Research (Columbia University).

NOTE.—Current data for these series are shown on page C-5.

OTHER IMPORTANT ECONOMIC MEASURES

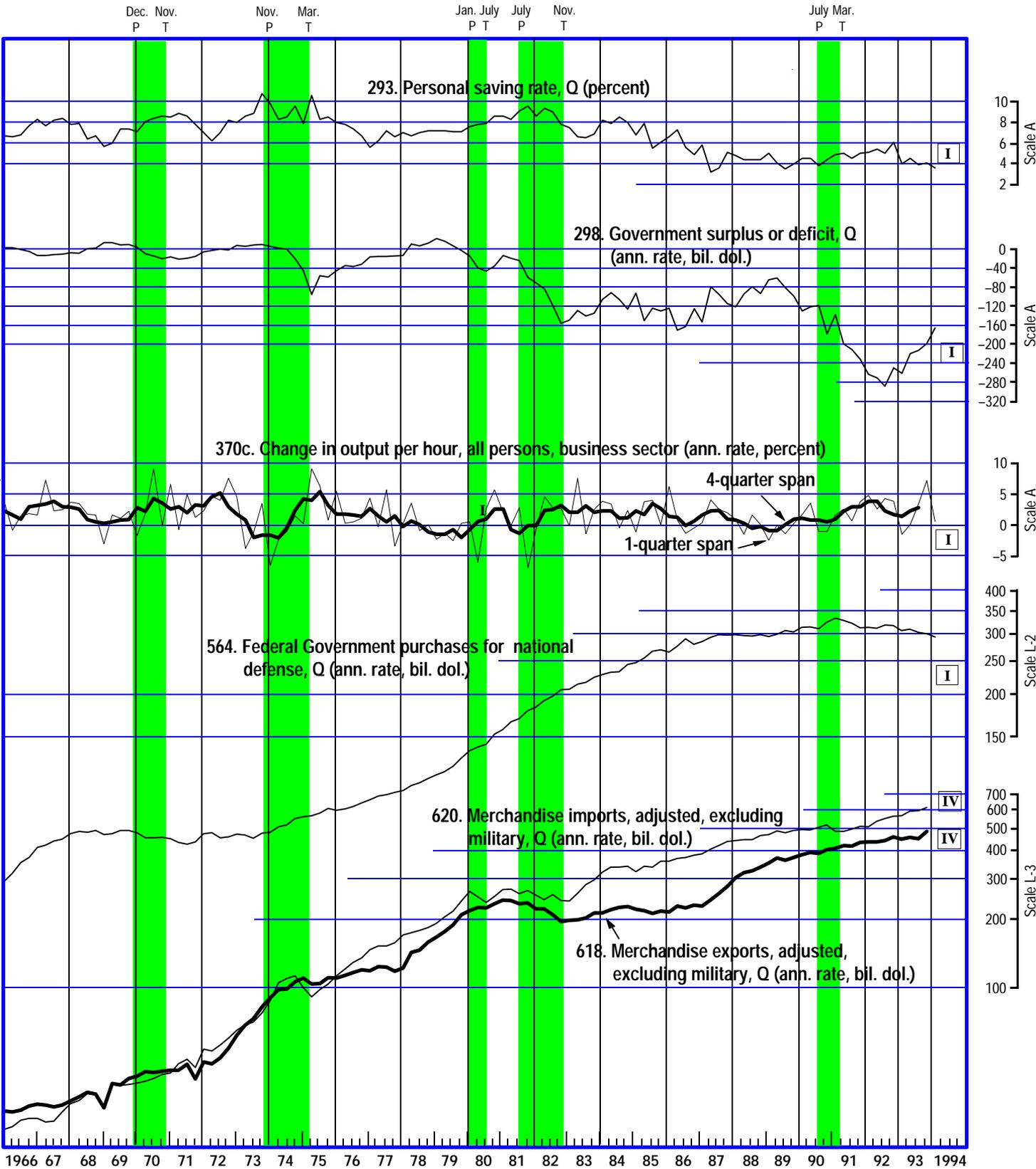
Prices



NOTE.—Current data for these series are shown on page C-3.

OTHER IMPORTANT ECONOMIC MEASURES

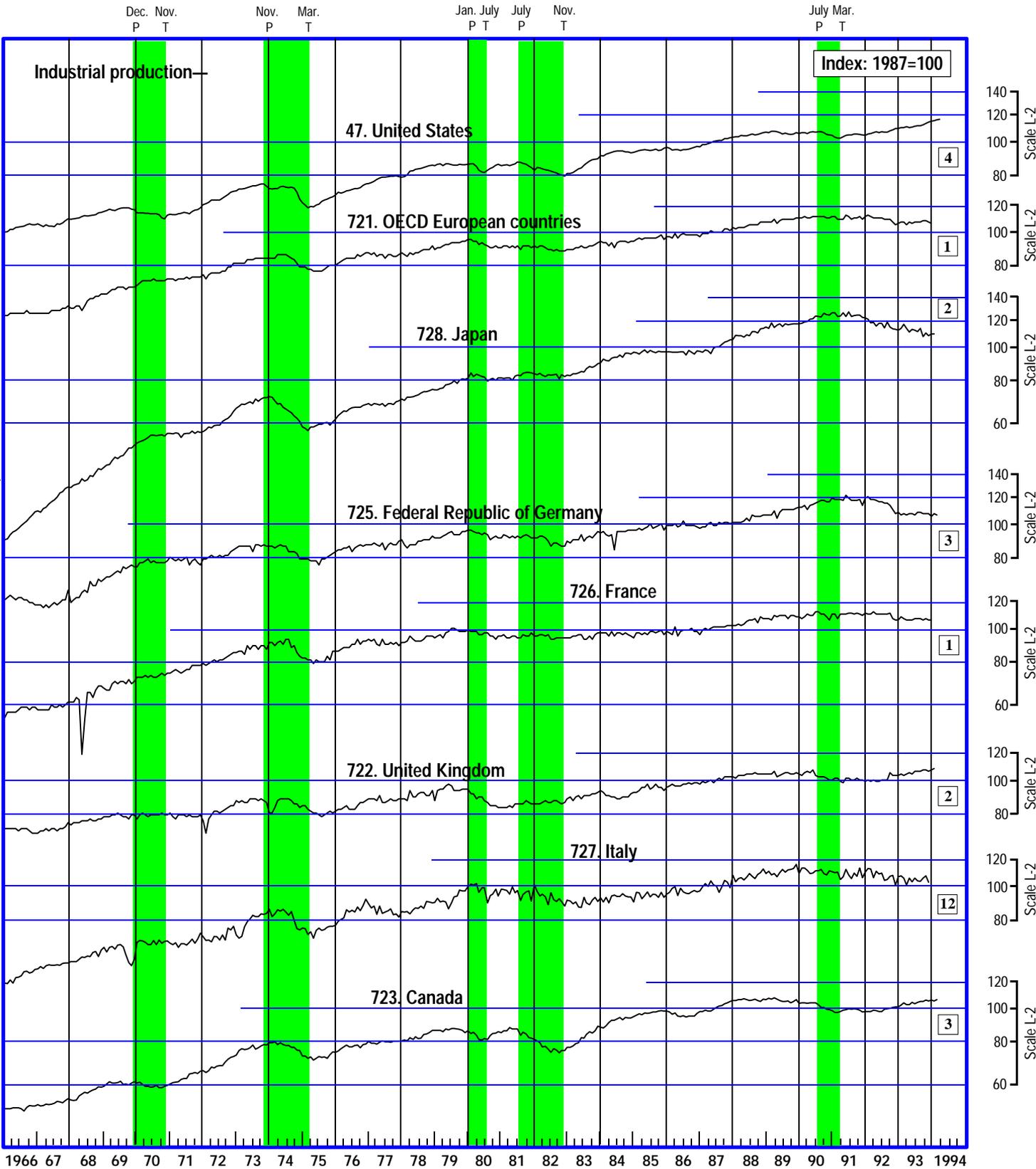
Other Measures



NOTE.—Current data for these series are shown on pages C-4 and C-5.

OTHER IMPORTANT ECONOMIC MEASURES

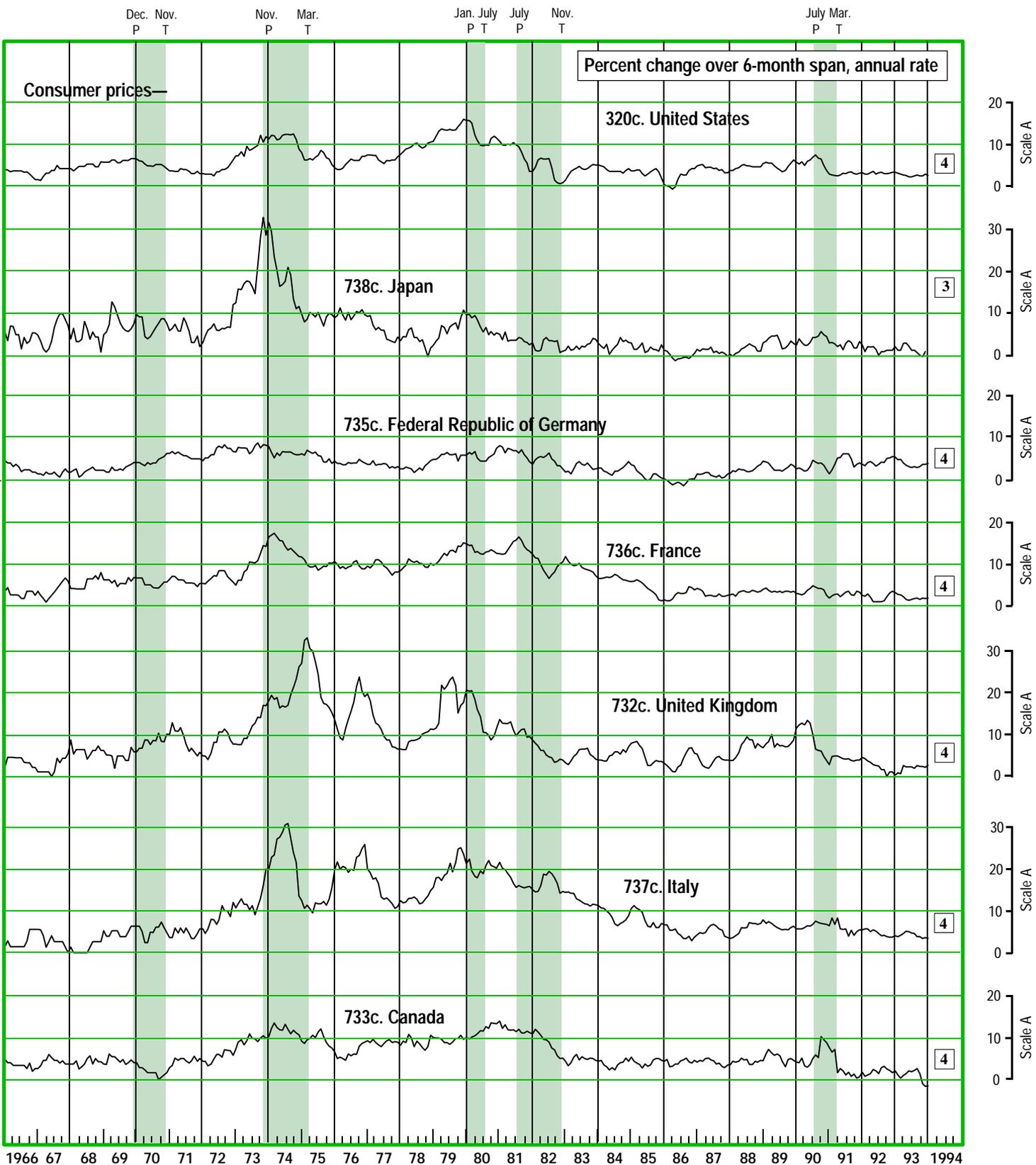
International Industrial Production



NOTE.—Current data for these series are shown on page C-5.

OTHER IMPORTANT ECONOMIC MEASURES

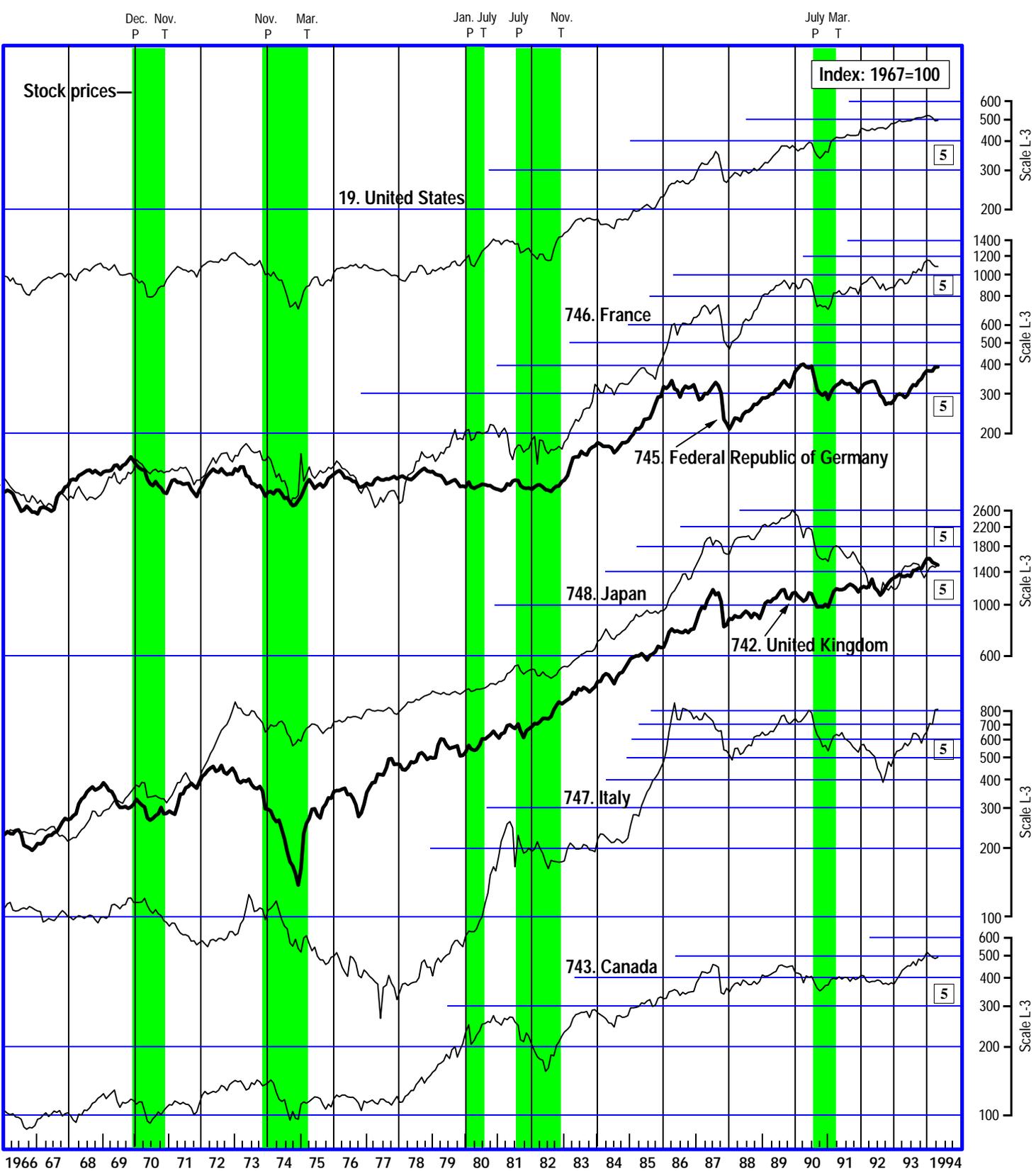
International Consumer Prices



NOTE.—Current data for these series are shown on page C-5.

OTHER IMPORTANT ECONOMIC MEASURES

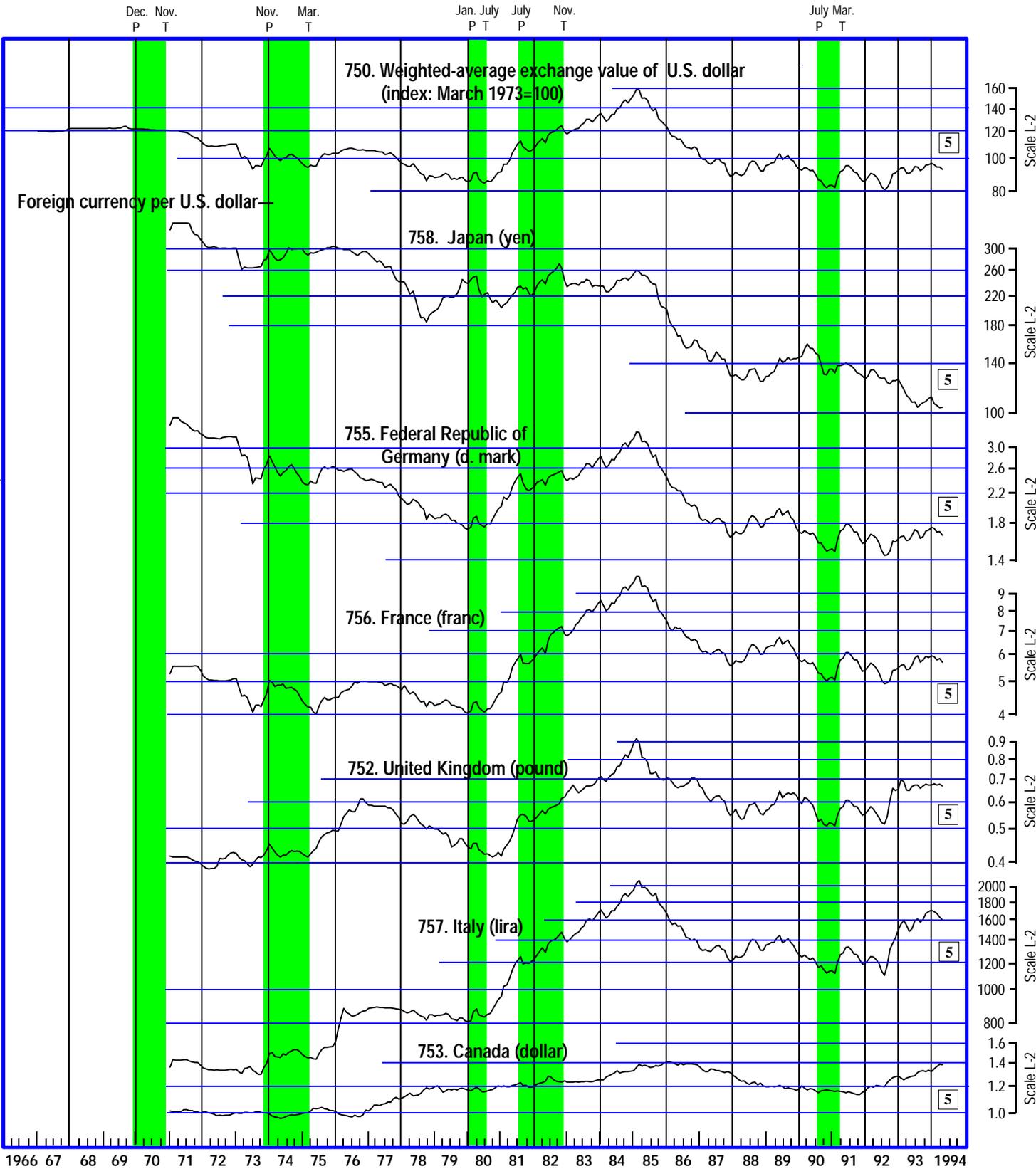
International Stock Prices



NOTE.—Current data for these series are shown on page C-5.

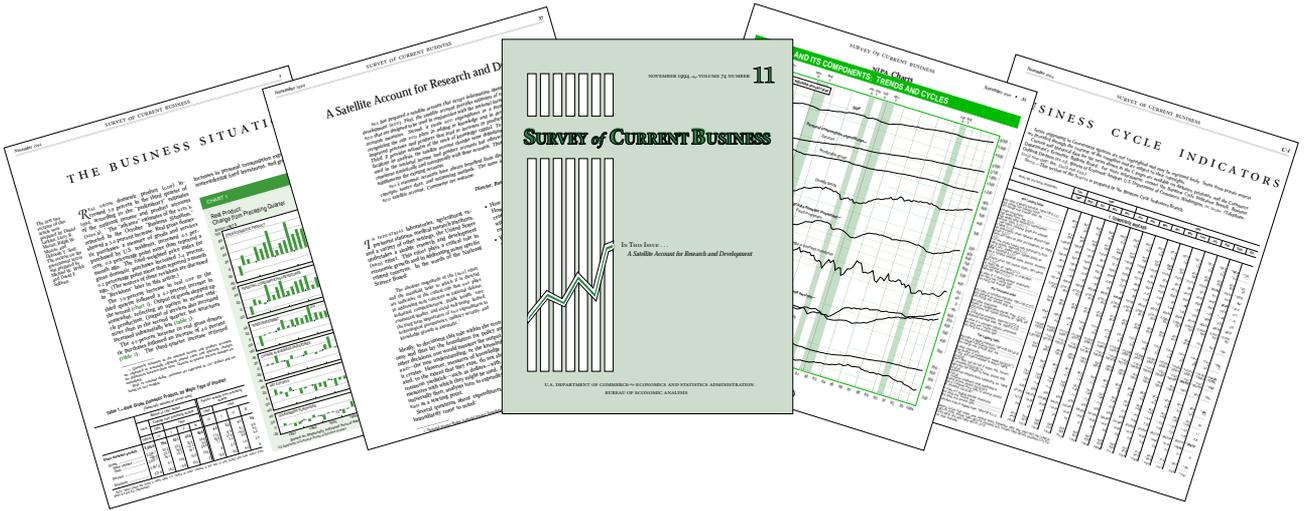
OTHER IMPORTANT ECONOMIC MEASURES

International Exchange Rates



NOTE.—Current data for these series are shown on page C-5.

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U.S. Direct Investment Abroad: 1989 Benchmark Survey, Final Results. (1992) Presents final results of the latest benchmark survey of the worldwide operations of U.S. multinational companies. Contains detailed 1989 data on the financial structure and overall operations of U.S. parent companies and their foreign affiliates in 263 tables organized by industry of parent or by country and industry of affiliate. Also contains a complete methodology and copies of survey forms and instructions. 448 pp. \$25.00 (GPO STOCK NO. 003-010-00234-4).

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Personal Income and Outlays, May 1994.....	June 30
Composite Indexes of Leading, Coincident, and Lagging Indicators, May 1994.....	July 1
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Summary of International Transactions, 2d quarter 1994.....	Sept. 13
U.S. International Trade in Goods and Services, July 1994.....	* Sept. 20
Gross Domestic Product, 2nd quarter 1994 (final).....	Sept. 29
Corporate Profits, 2nd quarter 1994 (revised).....	Sept. 29
Personal Income and Outlays, August 1994.....	Sept. 30

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