

Bureau of Economic Analysis

Survey of Current Business

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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

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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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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.

THE BUSINESS SITUATION

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

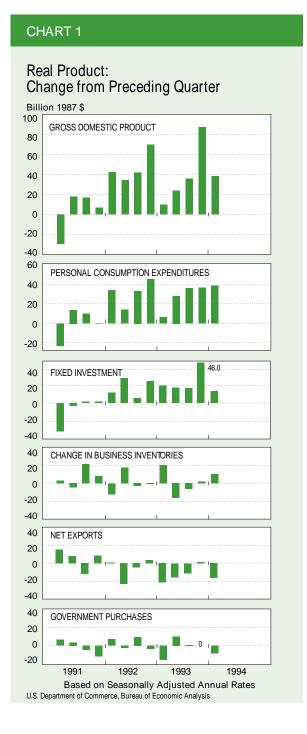
DEAL GROSS domestic product (GDP), a meas-**T**ure of goods and services produced in the United States, increased 3.0 percent in the first quarter of 1994, according to the "preliminary" estimate of the national income and product accounts (NIPA's). The "advance" estimate of the NIPA's, reported in the 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.



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]

		Billion	s of 1987 o	dollars	Percent change from preceding quarter					
	Change from preceding quarter						1993			
	Level	1993			1994	ш	III.	IN/		
	1994:I	II	III	IV	I	II II	III	IV	'	
Gross domestic product	5,264.1	23.9	36.2	87.3	38.5	1.9	2.9	7.0	3.0	
Goods Motor vehicles Other	2,163.8 238.7 1,925.1	8.9 -2.6 11.5	5.8 -10.2 16.0	56.0 21.7 34.3	32.9 23.6 9.3	1.7 -4.9 2.5	1.1 -18.6 3.5	11.2 53.0 7.5	6.3 51.7 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 of	change from	n preceding	g quarter
	Change from preceding quarter					1993		1994	
	Level	1993		1994	ll ll	III	IV		
	1994:I	II	III	IV	I	II	""	IV	
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	618.4 719.2	5.2 20.5	-1.3 9.8	28.1 26.3	-1.6 14.7	3.6 13.3	9 6.0	20.4 16.4	-1.0 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 Nonresidential fixed investment Residential investment Government purchases	3,546.3 635.0 231.4 933.1	28.9 22.0 -5.2 9.8	36.9 10.5 5.9 .6	37.3 30.9 15.1 0	39.4 9.3 4.2 -8.6	3.4 16.6 -9.5 4.3	4.4 7.4 11.9 .3	4.4 22.5 31.7 0	4.6 6.1 7.6 –3.6

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

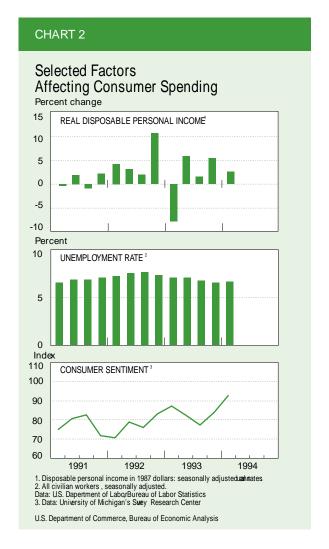


Table 3.—Real Personal Consumption Expenditures

[Seasonally adjusted at annual rates]

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

^{1.} Gasoline and oil, and fuel oil and coal

2. Electricity and gas.

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

[&]quot;Other" residential investment includes improvements (major replacements and additions and alterations), sales of new mobile homes, brokers commissions on house sales, and residential equipment.



Table 4.—Real Gross Private Domestic Fixed Investment

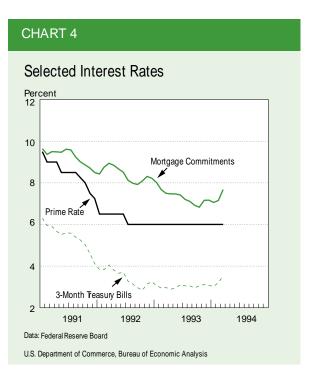
[Seasonally adjusted at annual rates]

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

Table 5.—Change in Real Business Inventories

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

	Level						Change from preceding quarter			
	1993 19				1994		1993	1994		
	I	II	III	IV	ı	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 Manufacturing Wholesale trade Retail trade Auto dealers Other retail trade	29.3 8 .7 24.0 16.6 7.4 5.4	17.1 5.0 6.6 3.0 5 3.5 2.4	19.4 3.1 6.4 4.8 -7.1 11.9 5.0	12.9 -5.3 1.2 11.1 2.4 8.7 5.9	21.1 6.0 -2.2 10.5 10.4 .1 6.8	-12.2 5.8 5.9 -21.0 -17.1 -3.9 -3.0	2.3 -1.9 2 1.8 -6.6 8.4 2.6	-6.5 -8.4 -5.2 6.3 9.5 -3.2	8.2 11.3 -3.4 6 8.0 -8.6 .9	
Addenda: Motor vehicles	14.8 14.5	-1.9 19.0	-4.4 23.8	3.5 9.4	4.2 16.9	-16.7 4.5	-2.5 4.8	7.9 -14.4	.7 7.5	

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 of	hange fror	n precedin	g quarter
	Lavel	Change from preceding quarter					1994		
	Level		1993		1994			n/	
	1994:I	II	III	IV	I	111	l III	IV	'
Net exports of goods and services	-100.8	-15.3	-11.1	1.8	-16.3				
Exports of goods and services	618.4 459.0	5.2 4.3	-1.3 - 4	28.1 28.9	-1.6 -4.0	3.6	9 - 4	20.4 29.4	-1.0 -3.4
Agricultural products	36.5 422.5	.1 4.2	-1.5 1.1	1.8 27.1	-2.6 -1.4	1.0	-14.6 1.1	20.7 30.2	-24.1 -1.3
Services	159.4	.8	8	8	2.4	2.0	-2.0	-2.0	6.3
Imports of goods and services	719.2 613.0 56.7	20.5 19.8 4.4	9.8 9.2	26.3 24.0 1.4	14.7 14.1	13.3 15.3 37.3	6.0 6.7 -7.4	16.4 17.8 10.2	8.6 9.8 –9.3
Nonpetroleum products Services	556.2 106.2	15.4 15.7	-1.1 10.3 .6	22.5 2.3	-1.4 15.5 .6	13.1 2.8	8.4 2.4	18.5 9.2	12.0 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 c	g quarter		
	Lovel	Chan	ge from pr	eceding qu	ıarter			1994	
	Level	1993			1994			D/	
	1994:I	II	III	IV	I	II	III	IV	
Government purchases	933.1	9.8	0.6	0	-8.6	4.3	0.3	0	-3.6
Federal National defense Nondefense	344.6 228.0 116.6	1.8 .4 1.5	-5.7 -6.3 .7	-4.7 -3.0 -1.9	-4.4 -9.1 4.8	2.0 .7 5.5	-6.2 -9.8 2.5	-5.2 -4.9 -6.5	-4.9 -14.5 18.3
State and local Structures Other	588.4 92.3 496.1	7.9 5.5 2.4	6.4 4.1 2.3	4.8 2.8 2.0	-4.4 -7.0 2.6	5.6 27.8 2.0	4.5 19.0 1.9	3.3 12.1 1.6	-2.9 -25.4 2.1

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 firstquarter 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 3.0percent 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 invest-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		hange from ng quarter
	Preliminary estimate minus advance estimate	Advance estimate	Preliminary estimate
Gross domestic product	5.1	2.6	3.0
Less: Exports of goods and services	13.4 9.9	-9.3 2.8	-1.0 8.6
Equals: Gross domestic purchases	1.6	4.1	4.2
Personal consumption expenditures Durables Nondurables Services	6.5 .5 4.8 1.2	3.8 9.7 2.4 3.1	4.6 10.2 4.2 3.3
Fixed investment Nonresidential Structures Producers' durable equipment Residential	.2 .9 -1.8 2.8 8	6.4 5.5 -16.1 13.5 9.1	6.5 6.1 -20.1 16.1 7.6
Change in business inventories Nonfarm Farm	-11.4 -9.6 -1.7		
Government purchases Federal National defense Nondefense State and local	6.3 6.6 4 7.0 5	-6.2 -12.0 -13.9 -7.6 -2.6	-3.6 -4.9 -14.5 18.3 -2.9
Gross domestic purchases price index (fixed weights) ¹		2.3 2.9	2.6 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

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

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.

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

474.4 420.9 77.9 343.0 53.5 -16.0 20.1 470.3 185.3 284.9 550.6 454.3 400.8 90.9	preceding	g quar-
1994:I	1993:IV	1994:I
Billio	ons of dolla	ars
474.4 420.9 77.9 343.0 53.5	39.4 47.0 8.5 38.5 -7.6	- 33.5 -31.9 -18.2 -13.7 -1.6
-16.0 20.1 470.3 185.3 284.9	-5.3 .1 44.6 23.0 21.6	-11.7 -3.8 -18.1 -7.2 -11.0
550.6	15.7	-8.4
454.3 400.8 90.9 309.9 53.5 75.4 21.8	39.2 46.8 8.8 38.0 22.2 6.3 5.9 3.7 -7.6 8 6.8	-29.7 -28.1 -17.2 -10.9
	Dollars	
1.172 .769 .289 .113	0.001 007 003	0.007 .007 .005 005
	1994:I Billiot 474.4 420.9 77.9 343.0 53.5 -16.0 20.1 470.3 185.3 284.9 550.6 454.3 400.8 90.9 309.9 53.5 75.4 21.8	1994:1 1994:1 1993:IV

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."

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.

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.

^{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.

IVA Inventory valuation adjustment
CCAdj Capital consumption adjustment

^{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	Cł	ange from	m precedi	ng quarte	r
	40041	1993				1994
	1994:I	1	II	III	IV	1
Government sector						
Receipts Expenditures Surplus or deficit (–)	2066.9 2,233.4 -166.5	-3.5 8.7 -12.2	63.8 22.6 41.3	15.1 7.9 7.1	53.8 39.2 14.7	31.7 -1.6 33.2
Federal Government						
Receipts	1,339.9	-2.7	49.6	7.9	39.8	24.2
Personal tax and nontax receipts Corporate profits tax accruals Indirect business tax and nontax accruals Contributions for social insurance	549.1 152.3 93.6 544.9	-9.7 5.3 -2.0 3.6	18.6 10.0 4.7 16.4	6.4 -3.1 .5 4.1	8.0 18.8 8.3 4.7	14.0 -5.8 -1.4 17.4
Expenditures	1,504.6	-3.4	8.7	-2.1	34.1	-18.0
Purchases National defense Nondefense Transfer payments (net) To persons To rest of the world Grants-in-aid to State and local governments Net interest paid Subsidies less current surplus of government enterprises Subsidies Of which: Agricultural subsidies Less: Current surplus of government enterprises Less: Wage accruals less disbursements	441.8 292.6 149.1 664.6 652.0 12.6 188.4 175.7 34.1 36.7 12.3 2.5	-9.7 -10.9 1.2 .3 11.8 -11.5 6 -3.0 9.7 7.6 7.5 -2.1	4.8 2.8 2.1 3.6 3.8 2 6.7 4.2 -10.6 -7.8 -7.9 2.8 0	-3.9 -5.7 1.7 7.2 6.4 .8 5.8 -3 -10.9 -11.1 -11.6 2 0	-3.6 -2.7 -1.0 14.4 4.6 9.8 8.8 -1.8 16.3 15.7 15.4 6	1.8 -6.6 8.4 -2.6 8.3 -10.9 -9.0 -4.7 -3.6 -3.8 -5.3 -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 Corporate profits tax accruals Indirect business tax and nontax accruals Contributions for social insurance Federal grants-in-aid	166.7 33.0 458.2 69.1 188.4	-3.8 .6 1.9 .6 6	5.3 2.3 5.9 .7 6.7	1.7 7 5.7 .5 5.8	2.1 4.3 7.0 .6 8.8	2.6 -1.4 5.5 .8 -9.0
Expenditures	917.2	11.4	20.6	15.9	13.8	7.5
Purchases	730.8 106.2 270.3 -44.9 11.1 -27.9 .5 28.4	5.6 -1.9 5.7 .2 0 3 0	14.1 7.4 6.9 .2 .2 4 .1 .4	10.1 4.9 6.2 .1 .1 5 0 .5	8.0 4.2 6.7 .2 .1 7 0 .8	1.6 -7.4 6.4 .1 .2 5 0
Surplus or deficit (-)	-1.8	-12.7	.3	-2.8	8.9	-9.0
Social insurance funds	57.2 -59.0	2.5 -15.3	1 .4	4 -2.4	6 9.5	7 -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 floodand 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. 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

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

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	,,	July 1992 Survey	Aug. 1993 Survey Sept. 1993 Survey
Tables 3.15-3.20 and 9.1-9.6 Tables 7.1, 7.2, and 8.1	" Sept. 1993 Survey	Sept. 1992 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]

			8	Seasonal	ly adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		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 Nondurable goods Services		537.9 1,350.0 2,503.9	1,331.7	1,335.3	1,344.8	1,352.4	1,367.5	
Gross private domestic investment	796.5	891.7	833.3	874.1	874.1	884.0	934.5	966.7
Fixed investment	789.1 565.5 172.6	876.1 623.7 178.7	821.3 579.5 171.1	839.5 594.7 172.4	619.1	876.3 624.9 179.1	927.6 656.0 185.8	946.6 666.6 176.9
equipment	392.9 223.6		408.3 241.8	422.2 244.9			470.2 271.6	489.7 280.0
inventories Nonfarm Farm	7.3 2.3 5.0		12.0 9.5 2.4	34.6 33.0 1.5			6.9 12.0 -5.0	20.1 21.7 –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	640.5 670.1	661.7 725.3	654.7 693.5	651.3 699.6		653.2 725.1	682.4 751.5	681.6 761.3
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 National defense Nondefense State and local	448.8 313.8 135.0 683.0	443.4 303.4 140.1 714.6	452.4 315.7 136.7 691.4	442.7 304.8 137.9 697.0	307.6		440.0 299.2 140.7 729.2	441.8 292.6 149.1 730.8

Table 1.2 —Gross Domestic Product in Constant Dollars

			5	Seasonal	y adjuste	ed at ann	nual rates	6
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
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
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
Durable goods Nondurable goods Services	456.6 1,062.9 1,822.3	490.0 1,088.1 1,875.2	1,081.8	1,076.0	484.2 1,083.1 1,865.4		510.9 1,100.2 1,895.8	
Gross private domestic investment	732.9	820.3	763.0	803.0	803.6	813.4	861.4	885
Fixed investment	726.4 529.2 150.6	591.8	543.7	562.3	790.6 584.3 151.1	806.9 594.8 151.2	852.9 625.7 155.6	866 635 147
equipment Residential Change in business	378.6 197.1	440.2 214.2			433.2 206.2	443.6 212.1	470.0 227.2	487 231
inventories Nonfarm	6.5 2.7 3.8	19.7	7.5			6.5 19.4 –12.9		19 21 –1
Net exports of goods and services	-33.6	–76.5	-38.8	-59.9	-75.2	-86.3	-84.5	–100
ExportsImports	578.0 611.6				593.2 668.4	591.9 678.2		618 719
Government purchases	945.2	938.9	946.9	931.3	941.1	941.7	941.7	933
Federal National defense Nondefense State and local	373.0 261.2 111.8 572.2	242.4 112.5	261.3 112.4	246.0 111.5	246.4	353.7 240.1 113.7 588.0		344 228 116 588

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

			5	Seasonal	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	_	=	==	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 7.3	6,362.3 15.6				6,388.2 7.7		
Goods ¹		2,421.9	-					
Final sales Change in business inventories	2,305.5 7.3	2,406.3 15.6			2,395.0 13.1			
Durable goods Final sales Change in business	975.8	1,047.9 1,037.0	1,008.3	1,003.5	1,037.8	1,032.9	1,073.7	1,097.4
inventories	2.0			15.0		_		
Nondurable goods Final sales Change in business		1,374.0 1,369.3						
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.

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						
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.

Table 1.7.—Gross Domestic Product by Sector

[Billions of dollars]

Gross domestic product	'	6,377.9 5,404.5	·	· ·	l '	·	· ·	l '
Dusilless	3,114.4	3,404.3	3,234.4	3,303.0	3,339.0	3,410.0	3,339.5	3,014.9
Nonfarm Nonfarm less housing Housing Farm Statistical discrepancy		82.4	4,639.6 499.1 83.6	4,674.0 510.8 83.8	4,751.0 512.7 83.3	4,812.8 517.4 73.2	4,926.4 522.8 89.2	4,982.6 541.0 96.1
Households and institutions	267.0	286.3	275.7	280.3	284.7	288.1	292.3	297.9
Private households Nonprofit institutions	10.1 256.9	11.1 275.2			11.0 273.7			
General government	657.1	687.1	664.3	678.4	683.9	691.2	694.7	704.7
FederalState and local	199.8 457.3		198.7 465.6		206.2 477.7	208.3 483.0		210.8 493.9
Addendum: Gross domestic business product less housing	4,608.9							

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

[Billions of 1987 dollars]

			5	Seasonal	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	1	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 6.5	5,121.7 14.3						
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 Change in business inventories	1,999.2 6.5	2,069.5 14.3						
Durable goods Final sales Change in business inventories	914.0 911.7 2.4	970.6	942.6	951.2 938.2 13.0	964.9		1,022.2 1,010.5	1,029.6
Nondurable goods	1,091.7 1,087.6	1,102.6 1,098.9	1,116.0	1,109.0 1,092.7	1,100.2 1,091.1	1,092.4 1,099.8	1,108.7	1,114.0 1,115.0
Services 1		2,586.4						
Structures	445.8			452.7				

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

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

Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,264.1
Less: Exports of goods and services	578.0 611.6						620.0 704.5	618.4 719.2
Equals: Gross domestic purchases ¹			5,107.1				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.

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		3,915.8 405.3 74.4	3,839.3 400.7 79.7	3,844.8 402.6 78.2	3,883.7 404.4 76.2	3,924.0 406.1 67.5	75.7	4,047.1 410.0 77.9
Households and institutions	209.1	217.0	212.4	213.5	216.8	218.4	219.4	221.3
Private households Nonprofit institutions	8.8 200.4							
General government	509.5	511.1	509.8	510.8	511.3	511.5	510.8	511.6
FederalState and local	150.5 359.0					146.9 364.5		144.5 367.0
Addendum: Gross domestic business product less housing	3.864.9							

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

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

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

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

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

				Seasonal	y adjuste	ed at ann	nual rates	S
	1992	1993	1992		19	93		1994
			IV	ı	II	III	IV	ı
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	143.0
income to the rest of the world 2	121.9	131.6	124.8	122.4	132.3	128.7	142.8	146.
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	6,614.0
Less: Consumption of fixed capital	657.9	671.3	648.0	663.2	663.3	679.7	679.0	735.8
consumption allowances Less: Capital consumption	605.7	630.0	612.1	622.3	624.8	636.3	636.4	664.9
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
payments Statistical discrepancy Plus: Subsidies less current	27.6 23.6	27.9 15.2	28.1 32.1	27.0 34.4	27.8 12.0	28.4 13.3	28.3 1.2	28.2 -4.
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 Net interest Contributions for	407.2 442.0	466.6 445.6	439.5 447.7	432.1 450.1	458.1 443.2	468.5 444.6	507.9 444.5	474.4 449.1
social insurance Wage accruals less	555.6	585.3	564.6	568.9	585.9	590.5	595.9	614.0
disbursements Plus: Personal interest income	-20.0 694.3	20.0 695.2	-80.0 694.5	80.0 695.4	0 693.1	0 695.7	0 696.7	0 700.2
Personal dividend incomeGovernment transfer	140.4	158.3	152.3	157.0	157.8	159.0	159.4	160.
payments to persons	836.8	890.2	855.4	873.0	883.7	896.4	907.5	922.
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.
Addenda: Net domestic product Domestic income Gross national income 1. Consists largely of receipts b	5,380.7 4,829.4 6,022.2	5,706.6 5,140.1 6,362.9	4,978.3 6,159.9	5,038.4 6,227.6	5,104.5 6,315.2	5,136.8 6,389.0	5,280.6 6,519.7	5,312.1 6,619.1

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

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

[Billions of 1987 dollars]

			5	Seasonal	ly adjuste	ed at anr	nual rates	8
	1992	1993	1992		19	93		1994
			IV	- 1	II	III	IV	ı
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 97.7							
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 19.7							
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 Domestic income Gross national income	3,969.5	4,107.5	4,048.5	4,043.4	4,085.0	4,103.9	4,623.2 4,197.8 5,222.7	4,190.4

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

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

	1							
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	683.5 689.3	703.0 719.5	690.4 692.4			699.0 718.1	728.5 746.8	
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 parts of goods and services and narments of factor income

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

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

imports of goods and services and payments of factor income.

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

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

Table 1.14.—National Income by Type of Income

	1	[=	or donar	-,				
			9	Seasonal	y adjuste	ed at ann	nual rates	S
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
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 Government Other	2,953.1 567.5 2,385.6	3,100.5 589.7 2,510.8	3,015.8 574.2 2,441.6	3,054.3 584.1 2,470.2	3,082.7 586.3 2,496.3	3,115.4 592.8 2,522.6	3,149.6 595.4 2,554.2	3,201.9 603.0 2,598.9
Supplements to wages and salaries Employer contributions	629.0	671.7	642.8	650.7	668.0	678.5	689.6	706.6
for social insurance Other labor income	306.3 322.7	321.0 350.7	311.3 331.5	312.2 338.5	321.4 346.6	323.8 354.7	326.7 362.9	334.7 371.9
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 CCAdj	51.2 -7.5	53.1 -7.1	54.8 -7.2	62.8 -7.1	54.1 -7.1	32.1 -7.3	63.5 -7.0	65.0 -7.0
Nonfarm Proprietors' income IVA	370.6 358.0 5	397.3 385.3 -1.0	383.6 362.2 7.8	388.4 376.4 -1.6	392.4 380.3 -1.2	397.6 385.4 4	410.6 399.2 9	416.6 406.2 -1.0
CCAdj	13.1	13.0	13.7	13.7	13.3	12.7	12.3	11.4
Rental income of persons with CCAdj	-8.9	12.6	-1.2	7.5	12.7	13.7	16.4	2.5
Rental income of persons CCAdj	57.4 -66.3	75.2 –62.6	57.4 -58.6	71.3 -63.8	73.2 -60.4	77.2 -63.5	79.0 -62.6	88.7 -86.2
Corporate profits with IVA and CCAdj	407.2	466.6	439.5	432.1	458.1	468.5	507.9	474.4
Corporate profits with IVA Profits before tax Profits tax liability Profits after tax Dividends Undistributed profits IVA	390.1 395.4 146.3 249.1 150.5 98.6 -5.3	442.3 449.4 174.0 275.4 169.0 106.4 -7.1	414.8 409.9 155.0 254.9 162.9 92.0 4.9	407.0 419.8 160.9 258.9 167.5 91.4 –12.7	433.4 445.6 173.3 272.3 168.5 103.9 –12.2	444.8 443.8 169.5 274.3 169.7 104.6 1.0	484.0 488.4 192.5 295.9 170.3 125.6 -4.3	454.3 470.3 185.3 284.9 171.8 113.2 –16.0
CCAdj	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 CCAdj Net cash flow with IVA and CAdj Undistributed profits with IVA and CCAdj	260.9 507.0 110.4	292.6 532.4 123.6	284.5 518.2 121.7	271.2 505.9 103.7	284.8 521.5 116.3	299.1 543.3 129.3	315.4 559.0 145.1	289.1 550.6 117.3
Consumption of fixed capital Less: IVA Equals: Net cash flow	396.6 -5.3 512.3	408.8 -7.1 539.5	396.5 4.9 513.2	402.2 -12.7 518.7	405.2 -12.2 533.7	414.0 1.0 542.3	413.9 -4.3 563.3	433.3 -16.0 566.6

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

Corporate Business	iii Guii	CIIL AI			ly adjuste		aual rator	
	1992	1993	1992	Deasonan		93	iuai raies	1994
	1992	1995	IV	ı		III	IV	- 199 4
							10	<u>'</u>
				Billions o	of dollars			
Gross domestic product of corporate								
business	3,571.7	3,784.1 408.8			3,759.2		· ·	
Consumption of fixed capital Net domestic product	396.6 3,175.1		396.5 3,272.3	402.2	405.2 3,354.0	414.0	413.9	433.3 3.501.8
Indirect business tax and nontax liability plus business transfer	5,175.1	3,373.3	5,272.5	3,270.2	0,004.0	3,303.0	3,401.3	3,301.0
payments less subsidies	359.6					380.4		395.3
Domestic income Compensation of	2,815.5		2,904.0		'	3,009.4	3,090.1	
employees Wages and salaries Supplements to wages		2,038.4	1,983.9	2,002.8	2,029.0	2,048.7		2,109.7
and salaries Corporate profits with	396.5	421.8	406.3		419.7	427.0	435.0	446.7
IVA and CCAdj Profits before tax	344.9 333.2	407.9 390.7	384.8 355.2	373.0 360.7	400.0 387.5	405.8 381.1	452.8 433.3	420.9 416.7
Profits tax liability Profits after tax	146.3 186.9	174.0 216.6	155.0 200.2		173.3 214.3	169.5 211.6	192.5 240.8	185.3 231.4
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 CCAdj Net interest	-5.3 17.1 133.2	-7.1 24.3 128.7	4.9 24.7 128.9	-12.7 25.1 129.9	-12.2 24.7 128.1	1.0 23.8 127.9	-4.3 23.9 129.0	-16.0 20.1 129.3
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					3,395.9			
Consumption of fixed capital	352.7 2,890.7	362.2	351.7 2,979.9		359.0 3,036.8	367.0	366.0	384.2 3,174.9
Net domestic product Indirect business tax and nontax liability plus business transfer		3,000.1					0,140.0	3,174.3
payments less subsidies	327.7	345.2	336.0					
Domestic income Compensation of	2,563.1	ļ [*]	2,643.9	ĺ [*]	2,692.8	ĺ .	ļ [*]	,
employees Wages and salaries Supplements to wages	2,149.5 1,782.4	1,866.4		1,840.3	2,244.7 1,857.3	1,873.3	1,894.8	1,925.6
and salaries Corporate profits with	367.0	389.2	375.9		387.4	393.8		
IVA and CCAdj Profits before tax Profits tax liability Profits after tax Dividends Undistributed	278.3 255.1 98.2 156.9 105.2	320.5 291.6 117.0 174.7 126.3	314.1 273.2 105.8 167.4 120.7	268.4 106.4 162.0	291.2	318.2 281.8 112.5 169.3 124.0	356.7 325.2 131.4 193.7 128.4	343.0 325.9 130.7 195.2 127.9
profits IVA CCAdj	51.7 -5.3 28.5	48.4 -7.1 35.9	46.7 4.9 36.0	34.6 -12.7 36.4		45.3 1.0 35.4		67.3 -16.0 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		321.4	327.9	326.5	342.3
Net domestic product Indirect business tax and nontax liability plus	2,503.9				2,595.2			
business transfer payments less subsidies Domestic income	258.7 2,245.2	270.2 2,341.9	264.5 2,305.7	265.7 2,280.8	268.4 2,326.8	271.6 2,349.3	275.1 2,410.5	278.5 2,417.2

2. Personal Income and Outlays_____

Table 2.1.—Personal Income and Its Disposition

[Billions of dollars]

[Billions of dollars]								
			5	Seasonal	y adjuste	ed at anr	nual rates	S
	1992	1993	1992		19	93		1994
			IV	ı	II	III	IV	ı
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 Commodity-producing		3,080.5			3,082.7		3,149.6	3,201.9
industries Manufacturing Distributive industries	756.5 577.6 682.0	706.6	783.3 602.0 709.9	740.7 559.7 682.9	765.1 580.3 709.1	769.4 581.5 714.4	779.3 587.8 720.1	789.6 595.6 733.4
Service industries Government	567.5	1,020.6 589.7	574.2	966.6 584.1	1,022.2 586.3	1,038.8 592.8	1,054.7 595.4	1,075.9 603.0
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 43.7 370.6	46.0	431.2 47.6 383.6	444.1 55.7 388.4	439.4 47.0 392.4	422.5 24.8 397.6	467.0 56.4 410.6	474.6 57.9 416.6
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 Personal interest income	140.4 694.3	158.3 695.2	152.3 694.5	157.0 695.4	157.8 693.1	159.0 695.7	159.4 696.7	160.7 700.2
Transfer payments to	034.3	033.2	034.3	033.4	033.1	033.1	030.7	700.2
persons Old-age, survivors, disability, and health	858.4	912.1	877.4	894.4	905.5	918.5	929.8	944.3
insurance benefits Government unemployment	413.9	438.4	420.8	433.1	435.0	439.4	446.1	457.8
insurance benefits Veterans benefits Government employees	39.2 19.3	34.1 20.0	37.8 19.0	34.5 20.0	34.4 20.2	35.1 20.1	32.3 19.6	27.0 19.9
retirement benefits Other transfer payments Aid to families with	108.3 277.7	115.5 304.1	110.2 289.7	112.8 294.0	114.6 301.3	116.4 307.5	118.3 313.5	118.8 320.8
dependent children Other	23.3 254.4	23.9 280.2	23.5 266.2	23.6 270.4	24.1 277.2	24.0 283.5	24.1 289.4	23.9 296.8
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 expendituresInterest paid by persons	4,139.9 111.1	4,391.8 114.0	4,256.2 111.3	4,296.2 112.5	4,359.9 112.7	4,419.1 114.1	4,492.0 116.8	4,558.0 119.6
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								
dollarsPer capita:	3,632.5 17,615	· .	3,717.6 18,153	3,642.6 17,876	3,694.4 18,196	3,708.7 18,265	3,757.9 18,561	3,782.1 18,699
1987 dollars Population (mid-period,	14,219	14,330	14,490	14,163	14,326	14,341	14,491	14,549
millions) Personal saving as percentage of disposable	255.5	258.3	256.6	257.2	257.9	258.6	259.3	260.0
personal income	5.3	4.0	6.0	3.9	4.4	3.8	4.0	3.5
Note.—Percent changes from pre	cedina pe	riod for se	lected ite	ms in this	table are	shown in	table 8.1.	_

 $\hbox{Note.} -\hbox{Percent changes from preceding period for selected items in this table are shown in table 8.1.}$

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

[Billions of dollars]

[Billions of dollars]								
				Seasonal	ly adjuste	ed at anr	nual rates	3
	1992	1993	1992		19	93		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 Furniture and household	204.3	222.3	213.7	211.7	220.8	221.7	235.1	249.5
equipment Other	194.5 98.5							
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	633.7 228.2 103.4 13.8 321.8	237.3 103.7 15.1	236.1 105.2 13.9	233.1 106.0 15.1	235.2 103.6 14.9	102.4 15.4	242.7 102.9 15.0	101.5 17.0
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 Household operation Electricity and gas Other household	600.0 234.4 105.8	251.2 113.4	245.0 111.0	245.7 111.1	246.7 109.8	116.4	257.3 116.2	255.8 116.6
operation Transportation Medical care Other	128.7 155.4 628.4 723.5	170.0 680.9	162.4 646.9	166.3 662.2	169.1 675.4	170.9	173.8 699.2	177.3 710.3

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

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 Furniture and household	182.3	191.7	188.6	185.7	191.3	189.9	199.7	211.3
equipment Other	194.8 79.5	216.3 82.0	204.2 80.6	206.5 79.7		219.4 83.7	227.1 84.1	227.9 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	520.5 193.7 83.9 11.9 252.9	199.5 84.9 13.0	200.0 84.4 11.9	194.8 83.9 12.9	197.8 84.1 12.6		204.6 85.4 13.1	205.6
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 Household operation Electricity and gas Other household	484.2 211.7 95.3	492.0 218.9 99.0				493.3 220.8 100.6	221.3	
operation	116.4		118.1	118.8		120.2		121.1
Transportation Medical care Other	122.7 449.2 554.4	126.3 463.4 574.6	123.7 453.2 561.7	124.5 458.0 566.8	461.1	126.5 465.1 577.9		129.1 472.8 590.0

3. Government Receipts and Expenditures.

Table 3.2.—Federal Government Receipts and Expenditures
[Billions of dollars]

Seasonally adjusted at annual rates 1992 1993 1994 1992 1993 Ш IV 1 1,339.9 1,269.5 1,218.4 1,268.0 1,275.9 1,183.0 1,221.1 1,315.7 Receipts Personal tax and nontax 490.8 521.3 511.8 502.1 520.7 527.1 535.1 549.1 receipts 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 .. 1.5 1.5 1.7 1.9 1.4 1.6 1.4 1.5 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 15.5 103.5 Other 127.7 111.3 116.7 127.2 124.2 142.8 136.8 Indirect business tax and nontax accruals 87.3 83.5 81.5 86.2 86.7 95.0 93.6 56.6 20.1 54.4 20.3 Excise taxes 46.8 50.3 46.5 47.4 48.5 48.8 18.3 19.8 19.1 18.8 20.4 20.0 Customs duties 18.0 15.3 17.3 17.8 18.3 18.9 Nontaxes 16.2 17.2 Contributions for social insurance 490.7 517.8 498.7 502.3 518.7 522.8 527.5 544.9 ,495.9 ,485.3 1,481.9 490.6 ,488.5 1,504.6 Expenditures 1,459.3 522.6 Purchases 448.8 443.4 452.4 442.7 447.5 443.6 440.0 441.8 National defense 303.4 315.7 304.8 307.6 301.9 299.2 292.6 313.8 Nondefense 135.0 140.1 136.7 137.9 140.0 141.7 140.7 149.1 624.5 651.9 641.7 642.0 645.6 652.8 667.2 664.6 Transfer payments (net) 608.2 636.1 617.1 628.9 632.7 639.1 652.0 To persons 643.7 To rest of the world (net) ... Grants-in-aid to State and 188.4 local governments 171.4 186.2 176.7 176.1 182.8 188.6 197.4 Net interest paid 180.8 181.3 216.4 178.3 182.5 182.2 180.4 175.7 212.4 217.5 Interest paid 219.9 214.1 219.0 219.9 217.2 To persons and business 175.0 172.4 176.7 178.7 175.0 176.9 174.0 167.5 To rest of the world (net) 41.2 42.5 41.4 41.6 43.2 44.8 42.1 43.2 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 . 34.1 36.2 36.1 43.7 35.9 24.8 40.5 36.7 Less: Current surplus of 4.1 27 29 8 3.6 3.4 2.8 2.5 government enterprises . 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

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]

[Billions of dollars]								
			S	Seasonall	y adjuste	ed at ann	ual rates	;
	1992	1993	1992		19	93		1994
			IV	I	=	Ш	IV	1
Receipts	837.8	888.1	861.6	860.2	881.0	894.2	917.0	915.4
Personal tax and nontax receipts	154.0 116.7 18.3 19.0	160.3 120.8 19.7 19.9	158.8 120.8 18.8 19.2	155.0 116.4 19.2 19.5	160.3 121.0 19.5 19.8	162.0 122.1 19.8 20.0	164.1 123.6 20.2 20.3	166.7 125.5 20.5 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 Sales taxes Property taxes Other	421.5 200.8 177.7 43.0	443.1 211.7 186.9 44.5	432.2 205.7 181.4 45.1	434.1 206.5 183.9 43.6	440.0 209.3 186.5 44.3	445.7 212.8 187.9 45.0	452.7 218.2 189.3 45.2	458.2 221.1 190.8 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 Compensation of employees	683.0 457.3	714.6 480.1	691.4 465.6	697.0 472.1	711.1 477.7	721.2 483.0	729.2 487.6	730.8 493.9
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 Interest paid Less: Interest received by	-46.0 66.1	-45.3 68.7	-45.7 67.1	-45.5 67.7	-45.3 68.4	-45.2 69.0	-45.0 69.6	-44.9 70.2
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 . SubsidiesLess: Current surplus of	-24.8 .4	-26.5 .5	-25.5 .4	-25.8 .4	-26.2 .5	-26.7 .5	-27.4 .5	-27.9 .5
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 Other	59.4 -52.2	58.6 -56.7	59.6 -46.0	59.0 -58.2	58.9 -57.8	58.5 -60.2	57.9 -50.7	57.2 -59.0

Table 3.7B.—Government Purchases by Type

			8	Seasonal	ly adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		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 Durable goods Nondurable goods Services Compensation of	313.8 79.0 10.3 218.9	303.4 70.6 9.4 218.1	315.7 78.9 9.8 221.0	9.0 216.4	307.6 75.3 10.2 217.0		299.2 65.1 9.1 219.8	292.6 62.4 8.5 216.5
employees Military Civilian Other services Structures	135.7 90.7 45.0 83.2 5.6	137.0 91.0 46.0 81.2 5.3	133.7 89.2 44.5 87.3 6.0	137.2 91.5 45.7 79.1 5.0	136.4 91.2 45.2 80.6 5.0	137.9 90.7 47.2 81.5 5.8	136.3 90.5 45.8 83.5 5.2	138.3 91.7 46.6 78.2 5.2
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	135.0 7.1 8.6	140.1 7.5 7.2	136.7 7.4 9.3	7.3 7.8	140.0 7.9 7.6	141.7 7.3 7.3	140.7 7.3 6.3	149.1 8.0 7.5
inventory change Other nondurables Services Compensation of	7 9.2 109.0	3 7.5 114.6	0 9.3 109.7	4 8.1 112.2	3 7.9 114.3	2 7.5 116.1	2 6.5 115.6	2 7.7 122.7
employees Other services Structures	64.1 44.9 10.3	70.0 44.6 10.8	65.0 44.7 10.3	69.0 43.2 10.5	69.8 44.6 10.1	70.4 45.7 11.0	70.8 44.8 11.5	72.5 50.2 10.9
State and local	683.0	714.6	691.4	697.0	711.1	721.2	729.2	730.8
Durable goods Nondurable goods Services Compensation of	37.6 60.2 485.3	39.3 62.2 506.9	38.2 60.7 493.5	38.7 61.7 499.6	39.2 63.0 504.4	39.7 62.3 509.9	39.8 61.9 513.9	40.5 63.2 521.0
employees Other services Structures	457.3 28.0 99.8	480.1 26.8 106.2	465.6 27.9 99.0	472.1 27.5 97.1	477.7 26.6 104.5	483.0 26.9 109.4	487.6 26.3 113.6	493.9 27.1 106.2

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

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

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

[Billions of 1987 dollars]

	اطا	1110113 01	1307 001	iaisj				
			9	Seasonall	y adjuste	ed at ann	ual rates	3
	1992	1993	1992		19	93		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
	73.2	63.6	72.6	67.2	67.4	60.9	58.9	56.2
	9.4	8.7	8.6	8.3	9.2	8.7	8.5	8.0
	173.6	165.6	174.7	166.1	165.5	165.4	165.3	159.5
employees Military Civilian Other services Structures	100.9	95.8	99.0	97.7	96.4	95.3	93.8	93.2
	66.4	63.4	65.4	64.4	63.8	63.1	62.2	62.0
	34.5	32.4	33.7	33.3	32.7	32.2	31.6	31.2
	72.7	69.8	75.7	68.4	69.0	70.1	71.5	66.3
	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.4
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	111.8	112.5	112.4	111.5	113.0	113.7	111.8	116.6
	7.5	8.1	7.9	7.8	8.4	8.1	8.2	8.2
	7.9	6.5	8.4	7.2	6.9	6.4	5.4	6.6
inventory change Other nondurables Services Compensation of	4	3	0	2	2	3	3	2
	8.3	6.8	8.4	7.4	7.1	6.7	5.8	6.7
	87.4	88.6	87.2	87.3	88.9	89.8	88.4	92.7
employees Other services Structures	49.6	51.3	49.8	51.0	51.4	51.6	51.3	51.3
	37.8	37.3	37.4	36.3	37.4	38.2	37.2	41.4
	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 Nondurable goods Services Compensation of	33.3	34.1	33.6	33.8	34.0	34.3	34.5	34.8
	52.1	53.5	52.7	53.0	53.4	53.8	54.0	54.5
	395.8	402.6	398.2	400.1	401.9	403.4	405.0	406.9
employees Other services Structures	359.0	363.9	361.0	362.0	363.4	364.5	365.7	367.0
	36.7	38.7	37.3	38.1	38.4	38.9	39.3	39.8
	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

	[Bi	llions of	1987 dol	iarsj				
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 20.2 15.3 10.3 3.4 6.1 11.8 6.1	58.7 17.5 12.7 8.9 2.5 5.8 11.4 4.9	66.3 19.0 15.7 9.8 3.4 6.5 11.9 6.4	62.9 17.7 14.1 9.3 3.6 6.0 12.1 4.4	62.1 18.8 13.2 9.5 2.6 6.2 11.8 5.3	55.9 16.6 12.4 8.3 2.0 5.9 10.8 5.0	53.9 16.7 11.2 8.4 1.8 5.1 10.7 5.0	51.9 16.0 11.3 7.5 1.9 5.0 10.1 4.3
Nondurable goods	9.4	8.7	8.6	8.3	9.2	8.7	8.5	8.0
Petroleum products Ammunition Other nondurable goods	2.9 3.5 3.0	2.8 3.6 2.4	2.4 3.3 2.9	2.7 3.4 2.2	2.9 3.9 2.4	2.9 3.1 2.7	2.6 3.8 2.2	2.5 3.3 2.2
Services	173.6	165.6	174.7	166.1	165.5	165.4	165.3	159.5
Compensation of employees Military Civilian Other services Contractual research and development Installation support ¹ Weapons support ² Personnel support ³ Transportation of material	100.9 66.4 34.5 72.7 23.6 20.6 8.4 10.0 6.1	95.8 63.4 32.4 69.8 23.4 20.1 7.4 9.6 5.4	99.0 65.4 33.7 75.7 24.1 21.2 8.2 9.9 6.6	97.7 64.4 33.3 68.4 23.8 19.4 7.4 8.7	96.4 63.8 32.7 69.0 23.4 19.1 7.8 9.1	95.3 63.1 32.2 70.1 22.4 21.4 7.4 10.0 5.8	93.8 62.2 31.6 71.5 24.2 20.5 6.9 10.6 5.3	93.2 62.0 31.2 66.3 21.6 20.5 6.5 10.0
Travel of persons Other	5.6 -1.6	5.4 -1.6	6.4 8	5.4 -1.6	5.5 –1.1	5.6 -2.5	5.1 -1.0	4.1 -1.0
Structures	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.4
Military facilities Other	3.3 1.7	2.9 1.6	3.5 1.8	2.8 1.6	2.8 1.6	3.3 1.7	2.8 1.7	2.7 1.6

I. 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.

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

^{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.

4. Foreign Transactions_

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

[Billions of dollars]

			Se	easonall	y adjus	ted at a	annual ra	tes
	1992	1993	1992		19	993		1994
			IV	1	II	III	IV	ı
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 Merchandise ¹ Durable Nondurable Services ¹	640.5 448.7 300.8 147.9 191.7	661.7 461.5 314.6 146.9 200.2	654.7 462.0 311.1 150.9 192.8	651.3 453.2 306.9 146.3 198.0	660.0 458.6 314.0 144.6 201.3	653.2 452.2 307.4 144.8 200.9	682.4 482.0 330.2 151.8 200.4	681.6 477.1 330.1 147.0 204.4
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 Merchandise ¹ Durable Nondurable Services ¹	670.1 544.5 346.3 198.2 125.6	725.3 592.1 385.7 206.4 133.2	693.5 564.7 359.7 205.1 128.7		725.0 592.6 379.5 213.1 132.4	725.1 591.9 384.5 207.3 133.3	751.5 614.2 409.8 204.4 137.2	761.3 623.4 419.3 204.1 137.9
Payments of factor income 3	121.9	131.6	124.8	122.4	132.3	128.7	142.8	146.5
Transfer payments (net) From persons (net) From government (net) From business	32.7 10.4 16.3 6.0	32.8 11.0 15.8 6.0	41.2 10.5 24.6 6.1	29.7 11.0 13.1 5.6	29.9 11.0 12.9 6.0	30.9 10.8 13.7 6.3	40.8 11.2 23.5 6.0	30.3 11.6 12.6 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.

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		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
OtherAutomotive vehicles, engines, and parts	110.4 47.1	121.3	114.9	115.9 51.2	118.8	121.9	128.6	129.1 54.6
Consumer goods, event automative	50.4	51.6 53.6	50.9 53.3	51.5	51.3 52.2	48.4 54.2	55.6 56.6	55.2
Consumer goods, except automotive 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 beveragesIndustrial supplies and materials, except	27.9	28.1	27.6	27.4	27.5	28.3	29.0	29.5
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
OtherAutomotive vehicles, engines, and parts	89.8 91.8	102.8 102.4	94.2 95.1	96.2 100.5	101.7 102.1	103.1 100.1	110.2 106.9	117.6 107.6
Consumer goods, except automotive	123.0	134.3	126.5	128.9	132.9	137.6	137.7	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 4.2.—Exports and Imports of Goods and Services and Receipts and Payments of Factor Income in Constant Dollars

			Sea	asonally	tes			
	1992	1993	1992		199	93		1994
			IV	I	II	III	IV	
Exports of goods and services Merchandise ¹ Durable Nondurable Services ¹	578.0 422.7 288.0 134.7 155.4	440.5 306.5	437.3 300.0 137.3	430.2 296.5 133.7	434.5 302.4 132.1	434.1 302.2 131.9	463.0 324.9 138.1	459.0 326.8 132.2
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 Merchandise Durable Nondurable Services Important Nondurable	611.6 511.9 332.5 179.4 99.7	571.4	530.3 348.0 182.4	545.9 360.5 185.5	565.7 372.1 193.6	574.9 381.0	598.9 404.5 194.4	613.0 415.2 197.8
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.

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

III (iii Constant Donars								
[Bil	lions of	1987 d	ollars]						
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 97.5 32.1 65.4 178.4 30.9 51.0 96.6 41.9 43.5 22.7 20.8 25.6 12.8	35.4 95.1 31.1 64.0 192.7 26.1 60.8 45.6 45.9 24.3 21.7 25.7 12.9	37.7 96.6 31.9 64.7 186.8 30.0 56.4 100.5 45.1 45.5 23.4 22.2 25.5 12.8	36.4 94.7 31.1 63.6 184.3 26.6 55.9 101.8 45.3 44.1 23.2 21.0 25.4 12.7	35.2 94.0 30.6 63.4 189.5 29.0 57.0 103.4 45.3 44.9 24.1 20.8 25.7 12.8	33.7 94.3 31.4 63.0 190.5 21.6 62.5 106.3 42.8 46.5 24.4 22.1 26.3 13.1 13.1	36.4 97.4 31.2 66.2 206.5 27.2 67.6 111.7 49.1 48.2 25.4 22.8 25.5 12.8	33.0 95.8 31.0 64.8 210.3 26.8 70.5 113.0 47.9 47.1 25.1 21.9 25.0 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 72.0 34.1 37.9 51.2 148.4 10.3 59.7 78.3 79.7 105.2 55.6 49.6 29.5 14.7	25.8 78.0 37.2 40.8 56.5 179.3 9.0 82.5 87.8 414.7 60.8 53.9 29.7 14.9	25.6 73.3 34.8 38.5 52.8 160.0 10.5 68.2 81.9 106.7 56.2 50.5 30.1 15.0	26.1 75.3 35.3 40.0 53.4 165.3 8.5 73.1 83.8 87.0 110.2 58.6 51.6 28.5 14.2 14.2	25.6 76.0 34.9 41.1 57.8 175.8 9.4 79.0 87.4 113.0 58.9 54.1 30.0 15.0	25.7 78.8 37.6 41.1 56.7 181.4 85.8 87.2 85.3 117.8 62.0 55.8 29.3 14.6 14.6	25.8 81.9 41.1 40.8 58.1 194.5 92.0 92.0 92.0 92.7 89.8 117.6 63.6 54.0 31.2 15.6 15.6	26.3 86.7 42.9 43.8 56.7 204.1 8.8 95.9 99.4 89.8 117.5 62.4 55.0 31.8 15.9 15.9	
Addenda: Exports of agricultural products 1 Exports of nonagricultural products Imports of nonpetroleum products	39.7 382.9 460.8	38.5 402.0 514.8	41.1 396.1 477.6	38.7 391.5 492.5	38.8 395.7 507.9	37.3 396.8 518.2	39.1 423.9 540.7	36.5 422.5 556.2	

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

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

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

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

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

5. Saving and Investment_

Table 5.1.—Gross Saving and Investment

[Billions of dollars]

			5	Seasonall	y adjuste	ed at ann	nual rates	 S
	1992	1993	1992		19	93		1994
			IV	_	II	III	IV	ı
Gross saving	717.8	780.2	718.8	762.0	766.7	774.3	817.8	858.4
Gross private saving Personal saving Undistributed corporate profits with inventory valuation and capital	986.9 238.7	1,004.8 189.9	969.4 279.7	1,024.8 177.9	988.3 208.7	988.7 179.7	1,017.5 193.4	1,024.9 171.8
consumption adjustments Undistributed profits Inventory valuation	110.4 98.6	123.6 106.4	121.7 92.0	103.7 91.4	116.3 103.9	129.3 104.6	145.1 125.6	117.3 113.2
adjustment Capital consumption	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-16.0
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
of fixed capital	261.3 -20.0	262.5 20.0	251.5 -80.0	261.0 80.0	258.1 0	265.7 0	265.1 0	302.5 0
Government surplus or deficit (-), national income and product accounts Federal State and local	- 269.1 -276.3 7.2	- 224.6 -226.4 1.8	- 250.6 -264.2 13.5	- 262.8 -263.5	- 221.5 -222.6 1.1	- 214.4 -212.7 -1.7	- 199.7 -207.0 7.2	- 166.5 -164.7 -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 –55.1	891.7 -96.2	833.3 -82.4	874.1 -77.6	874.1 -95.4	884.0 -96.4	934.5 -115.5	966.7 -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]

			Sea	asonally	adjuste	d at ar	nual ra	tes
	1992 1993 1992 1993							1994
			IV	1	II	Ш	IV	ı
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 Nonresidential buildings, including farm	172.6 114.6	178.7 119.4	171.1 111.9		177.6 117.1	179.1 119.6	185.8 125.9	176.9 120.2
Utilities Mining exploration, shafts, and	35.8	36.5	36.9	35.1	36.6	36.6	37.8	35.9
wellsOther structures	12.4 9.8	13.7 9.2	12.6 9.7	12.8 9.7	14.0 9.8	14.4 8.6	13.5 8.6	13.1 7.7
Producers' durable equipment Information processing and related	392.9	445.0	408.3	422.2	441.6	445.8	470.2	489.7
equipmentComputers and peripheral	135.5	151.9	139.7	142.7	147.0	154.6	163.4	168.0
equipment ¹ Other	39.8 95.7	48.1 103.9	40.7 98.9	45.8 96.9	46.1 100.9	49.5 105.1	50.9 112.5	52.4 115.6
Industrial equipment Transportation and related	87.2	97.8	91.2	92.4	95.9	98.7	104.0	107.2
equipment Other	90.7 79.5	105.4 89.9	96.1 81.3	101.3 85.8	110.1 88.5	101.9 90.6	108.3 94.5	117.3 97.2
Residential	223.6	252.4	241.8	244.9	241.9	251.3	271.6	280.0
Structures Single family Multifamily Other structures	216.3 116.5 13.1 86.7	244.6 133.8 10.8 100.1	234.3 124.3 11.7 98.3	237.3 132.4 10.3 94.6	234.2 127.5 10.3 96.4	243.4 131.1 11.4 100.9	263.5 144.0 11.1 108.4	272.0 151.8 11.2 109.0
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

[Bill	ions of	1987 d	ollars]					
			Sea	sonally	adjuste	ed at an	nual ra	tes
	1992	1993	1992		19	93		1994
			IV	ı	II	Ш	IV	1
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 Nonresidential buildings, including	150.6	151.5	148.0	148.2	151.1	151.2	155.6	147.1
farm	100.8 30.9	101.8 30.6	97.5 31.6	99.3 29.9	100.5 30.6	101.5 30.5	106.0 31.2	100.5 29.4
wellsOther structures	10.0 8.9	11.1 8.1	10.3 8.6	10.4 8.6	11.4 8.7	11.7 7.5	10.9 7.5	10.5 6.7
Producers' durable equipment Information processing and related	378.6	440.2	395.7	414.1	433.2	443.6	470.0	487.9
equipmentComputers and peripheral	159.9	195.2	168.5	178.6	186.8	200.9	214.6	222.2
equipment ¹	71.2 88.7 72.7	100.4 94.8 80.2	77.2 91.3 75.7	89.5 89.0 76.7	94.5 92.3 78.8	105.1 95.9 80.5	112.4 102.2 84.7	117.2 105.0 87.1
equipmentOther	77.7 68.3	88.8 76.1	82.1 69.4	85.7 73.2	92.8 74.9	85.7 76.5	91.0 79.7	97.0 81.5
Residential	197.1	214.2	210.6	211.4	206.2	212.1	227.2	231.4
Structures Single family Multifamily Other structures	190.1 102.7 11.8 75.6	206.8 113.1 9.3 84.4	203.3 107.9 10.4 85.0	204.1 113.9 9.1 81.1	198.9 108.7 9.0 81.2	204.6 110.0 9.8 84.8	219.6 119.6 9.4 90.5	223.8 125.1 9.4 89.3
Producers' durable equipment	7.0	7.4	7.2	7.3	7.3	7.5	7.7	7.6
1 Includes now computers and paripheral of		a m lu						

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

Table 5.10.—Change in Business Inventories by Industry

			Sea	asonally	adjuste	ed at ar	nnual ra	tes
	1992	1993	1992		1994			
			IV	ı	II	III	IV	_
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 8.8 –6.4		9.5 3.3 6.2	33.0 51.7 –18.7	16.8 34.8 –18.0			21.7 43.2 –21.5
Manufacturing Durable goods Nondurable goods	-6.0 -10.6 4.6	8 -1.7 .9		-1.8 -5.5 3.7	4.2 .4 3.9	2.9 2.6 .2		4.0 .9 3.1
Wholesale trade Durable goods Nondurable goods	6.1 3.9 2.2	4.2 1.3 2.8	13.5 3.8 9.7		6.8 .6 6.3	7.0	1.4 1.0 .4	-3.5 -1.1 -2.4
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	6.3 4.4 1.8 2 5	3.9 1.0 2.9 .2 .3 1	15.0 5.5 9.5 -1.5 -1.7	3 -3.7 3.5 .9 .5	6.1 1.8 4.2 .8 -1.3 2.0	3.7 -2.2 .8	2 .2 1.4	-5.5 -2.7 -2.7 2.0 1.6
Retail trade	6.5 4.8 7 5.5 1.6	12.2 8.7 3.2 5.5 3.5	10.5 6.5 -1.9 8.4 4.0	27.6 21.9 19.0 2.9 5.8	3.0 .4 6 1.0 2.6	4 -8.4	12.9	12.9 16.6 12.4 4.2 -3.7
Other	-4.3 3.8 -8.1	5.6 2.6 3.0	2 5.5 -5.8	6.5 1.9 4.6	2.8 1.4 1.4		6.5 1.4 5.1	8.3 5.3 3.0

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

[Billions of dollars]

[Billions of dollars]										
	5	Seasonally adjusted quarterly totals								
	1992		19	93		1994				
	IV	ı	II	III	IV	I				
Inventories 1	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 Durable goods Nondurable goods	1,003.9 580.9 423.0	1,020.4 590.7 429.7	1,024.2 592.1 432.2	1,035.8 600.3 435.5	1,042.1 607.5 434.6	1,051.6 616.9 434.7				
Manufacturing Durable goods Nondurable goods	400.9 251.0 149.9	402.0 250.8 151.2	402.4 250.7 151.7	407.0 254.2 152.8	405.0 253.8 151.2	407.4 256.5 150.9				
Wholesale trade Durable goods Nondurable goods	247.9 155.4 92.5	249.6 155.9 93.7	251.3 156.6 94.7	254.6 159.1 95.5	256.7 160.3 96.4	257.0 161.2 95.8				
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	221.4 139.4 82.0 26.5 16.0 10.4	222.6 139.5 83.1 27.0 16.4 10.6	224.1 140.5 83.7 27.2 16.1 11.1	227.6 142.5 85.0 27.0 16.6 10.4	229.4 143.3 86.0 27.3 17.0 10.4	228.9 143.5 85.4 28.1 17.7 10.4				
Retail trade	269.5 129.4 62.5 67.0 140.1	280.1 137.0 68.2 68.7 143.1	281.2 138.0 69.3 68.7 143.3	282.7 138.2 66.9 71.3 144.5	286.6 143.0 68.5 74.5 143.6	291.2 147.6 72.0 75.6 143.6				
Other	85.6	88.7	89.3	91.5	93.8	96.0				
Final sales of domestic business 2	436.9	439.0	445.5	450.7	461.1	466.2				
Final sales of goods and structures of domestic business ²	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 2.30	2.55 2.32	2.51 2.30	2.51 2.30	2.46 2.26	2.46 2.26				
structures	4.17	4.24	4.20	4.21	4.11	4.11				

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

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

[Billions of 1987 dollars]

		1007 0						
		'	Sea	asonally	adjuste	ed at an	nual ra	tes
	1992	1993	1992	1	19	993		1994
		!	IV	I	II	III	IV	ı
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 Durable goods Nondurable goods	-4.7 -8.9 4.2		-15.1	8 -4.6 3.8	5.0 1.4 3.6	2.8	-5.3 -1.7 -3.6	6.0 2.6 3.5
Wholesale trade	5.4 3.6 1.8	1.3	3.4	.7 -2.8 3.6	6.6 .6 6.1	6.3	1.2 1.1 0	-2.2 6 -1.5
Merchant wholesalers	5.6 4.0 1.6 2 4	.9 2.5 .3 .4	5.0 7.7 -2.1 -1.6	1 -3.3 3.2 .8 .4 .4	5.9 1.7 4.2 .7 –1.2 1.8	5.6 2.9 -2.1 .8	4 3 1 1.6 1.4	-4.1 -2.3 -1.8 1.9 1.7
Retail trade Durable goods Automotive Other Nondurable goods	5.9 4.3 6 4.9 1.6	7.6 2.9 4.8	5.9 -1.7 7.6	24.0 18.9 16.6 2.3 5.1	3.0 .8 5 1.2 2.3	1 -7.1 7.0	11.1 11.0 2.4 8.6 .1	10.5 13.8 10.4 3.4 -3.3
Other	-3.9 3.4 -7.3		4.9	5.4 1.6 3.8	2.4 1.2 1.2	4.8	5.9 1.2 4.7	6.8 4.4 2.4

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

[Billions of	1987 dol	lars]								
	5	Seasonally adjusted quarterly tot								
	1992		19	93		1994				
	IV	I	II	III	IV	ı				
Inventories 1	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	897.2 525.3 371.8	904.5 528.6 375.9	908.8 529.6 379.2	913.6 533.0 380.6	916.8 535.9 380.9	922.1 541.0 381.1				
Manufacturing Durable goods Nondurable goods	365.9 231.9 134.0	365.7 230.7 135.0	366.9 231.1 135.8	367.7 231.8 135.9	366.4 231.4 135.0	367.9 232.0 135.9				
Wholesale trade Durable goods Nondurable goods	217.7 138.5 79.2	217.9 137.8 80.1	219.6 138.0 81.6	221.2 139.5 81.6	221.5 139.8 81.7	220.9 139.7 81.3				
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	193.8 124.0 69.8 23.9 14.6 9.4	193.8 123.1 70.6 24.2 14.7 9.5	195.3 123.6 71.7 24.3 14.4 9.9	197.4 125.0 72.4 23.8 14.6 9.2	197.3 124.9 72.4 24.2 14.9 9.3	196.3 124.3 71.9 24.7 15.3 9.3				
Retail trade	236.4 115.2 56.5 58.7 121.2	242.4 119.9 60.6 59.3 122.5	243.2 120.1 60.5 59.6 123.0	244.4 120.1 58.7 61.4 124.2	247.1 122.9 59.4 63.5 124.3	249.7 126.3 62.0 64.4 123.4				
Other	77.1	78.5	79.1	80.3	81.8	83.5				
Final sales of domestic business 2 Final sales of goods and structures of	361.5	360.4	363.4	366.8	373.9	376.0				
domestic business 2	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 2.48	2.75 2.51	2.74 2.50	2.72 2.49	2.67 2.45	2.67 2.45				
structures	4.30	4.37	4.34	4.32	4.21	4.22				

^{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

^{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.

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

6. Income, Employment, and Product by Industry_____

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

[Billions of dollars]

			9	Seasonal	ly adjuste	ed at anr	nual rates	3
	1992	1993	1992		19	93		1994
			IV	ı	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 38.5 212.8 895.3 501.7 393.6	40.1 228.0 928.2	104.3 40.1 218.1 919.0 518.8 400.2	112.5 40.2 219.3 909.6 507.6 401.9	39.3 224.7 925.8	84.2 39.6 231.6 922.5 520.8 401.8	41.1 236.4 954.8	
Transportation and public utilities Transportation Communications Electric, gas, and sanitary services	356.1 151.0 103.7	376.1 161.8 107.4	361.4 154.4 106.4 100.6	369.0 157.4 105.4	370.7 158.9 108.2	378.4 164.4 108.5 105.6		
Wholesale trade	283.6 416.7 748.9 1,085.8	444.9 816.0		288.2 432.2 801.2 1,141.1	441.1 805.9	449.1	457.3	
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]

[Billions of dollars]										
			Sea	asonally	adjuste	ed at an	nual ra	tes		
	1992	1993	1992		19	93		1994		
			IV	1	II	III	IV	1		
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		
FinancialNonfinancial	66.7 278.3	87.4 320.5	70.7 314.1	81.0 292.1	85.0 315.0	87.6 318.2	96.1 356.7	77.9 343.0		
Rest of the world	62.3 65.2	58.7 71.3	54.7 60.5	59.0 66.7	58.1 71.4	62.7 74.0	55.1 73.2	53.5 75.4		
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 Financial Federal Reserve banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Motor vehicles and equipment Other Nondurable goods Food and kindred products Chemicals and allied products	327.8 78.1 17.8 60.3 249.8 115.5 48.3 .6 7.4 6.6 12.1 3.5 18.1 67.2 17.0	383.6 99.0 16.2 82.8 284.6 131.7 60.2 1.4 6.5 7.2 14.6 9.0 21.4 71.6 15.1	360.1 82.0 16.7 65.3 278.1 128.0 0 6.6 7.8 17.6 4.9 21.0 70.0 15.2	348.0 92.3 16.6 75.7 255.7 118.9 48.0 5 5.5 5.7 14.9 3.1 19.4 70.9 18.0	375.3 96.4 16.2 80.2 278.9 132.5 58.4 2.5 6.9 6.2 12.1 10.0 20.7 74.2 14.8	382.1 99.3 16.0 83.3 282.8 126.7 59.9 1.1 6.3 8.8 14.4 8.1 21.3 66.8 14.6	7.6 8.0 17.2 15.0 24.1 74.5 13.0			
Petroleum and coal products Other Transportation and public utilities Wholesale and retail tradeOther Rest of the world	6.1 28.5 52.0 46.3 36.0 62.3	11.9 27.7 57.8 54.4 40.6 58.7	5.0 32.1 50.4 57.7 42.0 54.7	7.2 27.3 53.3 46.0 37.5 59.0	13.5 29.5 53.9 55.4 37.2 58.1	12.0 25.6 59.0 55.1 42.1 62.7	14.9 28.6 64.9 61.4 45.8 55.1			

7. Quantity and Price Indexes_____

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

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				Sea	asonally	adjuste	ed						Seasonally adjusted				
	1992	1993	1992		199	93		1994		1992	1993	1992		19	93		1994
			IV	I	Ш	Ш	IV	Ι				IV	I	II	III	IV	I
Gross domestic product: Current dollarsQuantity indexes:	133.0	140.5	136.4	137.9	139.4	140.9	143.8	145.8	Nonresidential: Current dollars	113.6	125.3	116.4	119.5	124.4	125.5	131.8	133.9
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	109.8 109.5 109.4	112.5	111.6 111.3 111.1	111.9 111.4 111.2	112.4 111.9 111.7	113.2 112.5 112.3	115.1 114.2 114.0	116.0 115.0 114.8	Quantity indexes: Fixed 1987 weights Chain-type annual weights	106.3 103.3	113.3	109.2 105.7	108.4	117.4 112.4	113.4	125.7 119.0	120.5
Price indexes: Fixed 1987 weights Chain-type annual weights	122.1 121.5		123.5 122.6	124.8 123.8	125.6 124.7	126.3 125.3	127.0 126.0	128.0 127.0	Benchmark-years weights Price indexes: Fixed 1987 weights	111.4				113.5	113.6		
Benchmark-years weights Implicit price deflator Personal consumption expenditures:	121.7 121.1		122.9 122.2	124.1 123.3	124.9 124.0	125.6 124.5	126.3 124.9		Chain-type annual weights Benchmark-years weights Implicit price deflator	109.9 109.1 106.9	110.2	110.1 109.4 106.6		110.9 110.1 106.0	110.5	111.4 110.6 104.8	111.2
Current dollars Quantity indexes: Fixed 1987 weights	135.6 109.5		139.4 111.3	140.8 111.5	142.8 112.5	144.8 113.7	147.2 114.9	149.3 116.2	Structures: Current dollars	100.7	104.3	99.9	100.6	103.7	104.5	108.4	103.3
Chain-type annual weights Benchmark-years weights Price indexes:	109.0 109.1	112.4		110.9 110.9	111.7 111.8				Quantity indexes: Fixed 1987 weights Chain-type annual weights	87.9 87.9	88.5 88.5	86.4 86.4	86.5 86.5	88.2 88.3	88.3 88.3	90.8	85.9
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator	124.9 124.4 124.5 123.9	128.0 128.1	126.5 125.8 125.9 125.3	127.5 126.8 127.0 126.2	128.4 127.7 127.9 127.0	128.9 128.2 128.3 127.4	129.8 129.1 129.2 128.1	130.5 129.8 129.9 128.5	Benchmark-years weights . Price indexes: Fixed 1987 weights	87.9 114.6		86.4 115.6		88.3 117.4		90.9	120.2
Durable goods: Current dollars Quantity indexes:	123.2		128.0	127.6	131.7	134.2	139.4	143.2	Chain-type annual weights Benchmark-years weights Implicit price deflator	114.6 114.6 114.6		115.6 115.6 115.7		117.4 117.4 117.5	118.4 118.3 118.5	119.3 119.3 119.4	120.2
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	113.1 111.6 111.8	118.9	117.3 115.5 115.7	116.9 114.8 115.0	119.9 117.7 117.9	122.1 119.5 119.8	126.6 123.6 123.8	129.7 126.3 126.6	Producers' durable equipment: Current dollars	120.3	136.3	125.1	129.3	135.3	136.6	144.0	150.0
Fixed 1987 weights	111.5 110.4 110.2 108.9	112.2 112.1	112.1 110.8 110.7 109.1	112.6 111.2 111.1 109.2	113.5 112.0 111.9 109.8	114.1 112.5 112.4 109.9	114.9 113.2 113.1 110.1	115.4 113.6 113.5 110.4	Fixed 1987 weights	116.0 111.8 112.8	134.9 127.0 128.3	121.2 116.4 117.6	120.4	132.7 125.8 127.1	135.9 127.2 128.6	144.0 134.5 136.0	139.6
Nondurable goods: Current dollarsQuantity indexes:	128.7	133.5	131.7	132.1	133.0	133.8	135.2	136.7	Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	109.7 107.6 106.7	110.9 107.7 106.9	110.1 107.5 106.7		110.9 107.8 107.0		111.2 107.7 106.9	108.1
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	105.1 104.9 104.9	107.2	107.0 106.7 106.7	106.4 106.1 106.1	107.1 106.8 106.8	108.1 107.7 107.7	108.8 108.4 108.4	109.9 109.5 109.5	Implicit price deflator Residential:	103.8	101.1	103.2	102.0	101.9	100.5	100.0	100.4
Price indexes: Fixed 1987 weights Chain-type annual weights	122.7	124.5	123.8 123.5	124.9 124.5	125.0 124.6 124.7	124.5 124.2	125.1 124.8	125.2 124.9	Current dollarsQuantity indexes: Fixed 1987 weights	99.3 87.5	95.1	107.4 93.5	108.7 93.8	107.4 91.6	111.6 94.2	120.6 100.9	
Benchmark-years weights Implicit price deflator Services:	122.4	124.1	123.5 123.1	124.5 124.1	124.2	124.3 123.7	124.8 124.3	124.9 124.3	Chain-type annual weights Benchmark-years weights Price indexes:	87.5 87.5	95.1 95.2	93.5 93.5	93.8 93.9	91.6 91.6	94.1 94.2	100.9 101.0	
Current dollarsQuantity indexes: Fixed 1987 weights	143.0	114.5	147.1	149.4	151.7 113.9	154.2 115.0	156.5 115.8	116.7	Fixed 1987 weights Chain-type annual weights Benchmark-years weights	113.4 113.5 113.4	117.7 117.8 117.7	114.8 114.9 114.8	115.9	117.2 117.3 117.2		119.5 119.5 119.4	121.0
Chain-type annual weights Benchmark-years weights Price indexes:	111.0	114.0	112.0 112.1 131.6	112.8 112.9 132.8	113.4 113.5	114.4 114.5 135.2	115.2 115.2 136.3	116.1 116.1 137.4	Implicit price deflator Exports of goods and services:	113.4	117.8	114.9	115.8	117.3	118.5	119.5	121.0
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator	128.9	133.9 134.2	130.9	132.1 132.4	134.2 133.5 133.8 133.1	134.5 134.7	135.6 135.9 135.1	136.7 137.0	Current dollars Quantity indexes: Fixed 1987 weights	158.8	164.4		161.6	163.0	162.6	170.4	169.9
Gross private domestic investment: Current dollars		119.0			116.7		124.7	129.0	Chain-type annual weights Benchmark-years weights Price indexes:	155.9 156.8		160.0	158.9		158.8	164.9 166.0	165.0
Fixed 1987 weights	97.8 96.2 96.5	105.9	101.8 99.9 100.4	107.2 104.4 104.9	107.2 104.1 104.6	108.6 104.6 105.1	110.6		Fixed 1987 weights	113.7 112.9 112.3 110.8	115.4 113.9 113.4 110.6	113.2 112.6	112.9	114.1 113.5	114.1 113.5		115.1
Fixed 1987 weights Chain-type annual weights Benchmark-years weights									Imports of goods and services: Current dollars	132.2	143.0	136.8	138.0	143.0	143.0	148.2	150.1
Implicit price deflator Fixed investment: Current dollars	109.1	121.2	113.6	116.1	119.1	121.2	128.3	130.9	Fixed 1987 weights	120.6 116.6 117.7		124.3 119.5 120.9	122.3	125.8		138.9 131.6 133.1	134.1
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	100.5 98.4 98.9	107.6	104.3 101.9 102.6	103.8	109.3 105.9 106.6	111.6 107.3		119.8 114.9	Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	117.7 115.1 113.4 112.3	115.0 112.8	115.9 114.1	114.5	115.6	114.8 112.5	115.1	114.6 112.0
Fixed 1987 weights	111.0 110.3	112.9 112.3	111.5 110.9		114.4 112.7 112.1 108.9	113.3 112.7	113.7 113.1	116.6 114.5 113.9 109.3	Implicit price deflator			110.0			106.9		

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

				Se	asonally	/ adjust	ed	
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
Government purchases:	400.4	404.4	400.0	400.0	404.4	400.4	400.0	400
Current dollarsQuantity indexes:	128.4	131.4	129.8	129.3	131.4	132.1	132.6	133.
Fixed 1987 weights	107.2 107.0	106.5 106.4	107.4 107.2	105.6 105.6	106.8 106.6	106.8 106.6	106.8 106.6	105. 105.
Chain-type annual weights Benchmark-years weights	106.9	106.4	107.2	105.4	106.5	106.5	106.5	105.
Price indexes: Fixed 1987 weights	120.6	124.3	121.7	123.2	124.0	124.8	125.1	126.
Chain-type annual weights	120.0	123.5	121.0	122.4	123.2	123.9	124.4	125.
Benchmark-years weights	120.2	123.7	121.3	122.6	123.5	124.2	124.6	125.
Implicit price deflator	119.7	123.3	120.8	122.4	123.1	123.7	124.1	125.
Federal: Current dollars	116.6	115.2	117.5	115.0	116.3	115.2	114.3	114.
Quantity indexes:	00.0	00.0	07.4	02.0		04.0	00.7	00
Fixed 1987 weights Chain-type annual weights	96.9 96.6	92.2 92.2	97.1 96.8	92.9 92.9	93.4 93.4	91.9 91.9	90.7 90.8	89 90
Benchmark-years weights	96.3	92.0	96.5	92.7	93.2	91.6	90.5	89
Price indexes: Fixed 1987 weights	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128
Chain-type annual weights	120.7	124.8	121.5	123.6	124.3	125.4	125.9	127
Benchmark-years weights Implicit price deflator	121.0 120.3	125.3 124.9	122.0 121.1	124.1 123.8	124.8 124.5	125.9 125.4	126.4 126.1	127. 128.
National defense:	120.0	121.0	121	120.0	12 1.0	120.1	120.1	120
Current dollars	107.4	103.9	108.1	104.4	105.3	103.4	102.5	100
Quantity indexes: Fixed 1987 weights	89.4	83.0	89.5	84.2	84.4	82.2	81.2	78
Chain-type annual weights	88.6	82.5	88.5	83.8	84.0	81.6	80.8	78
Benchmark-years weights	88.7	82.7	88.6	83.9	84.1	81.8	80.9	78
Price indexes: Fixed 1987 weights	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129
Chain-type annual weights	121.2	125.8	122.2	124.4	125.3	126.6	126.9	128
Benchmark-years weights Implicit price deflator	121.2 120.1	125.9 125.1	122.2 120.8	124.5 123.9	125.4 124.8	126.6 125.7	127.0 126.2	128 128
Nondefense:								
Current dollars	145.4	150.8	147.2	148.4	150.7	152.5	151.5	160
Quantity indexes: Fixed 1987 weights	120.4	121.1	121.1	120.1	121.7	122.4	120.4	125
Chain-type annual weights	122.1	123.0	122.9	121.8	123.5	124.4	122.5	128
Benchmark-years weights Price indexes:	120.7	121.6	121.5	120.4	122.0	122.9	121.1	126
Fixed 1987 weights	120.2	123.0	120.9	122.5	122.5	123.4	123.6	125
Chain-type annual weights	119.1	122.3	119.7	121.6	121.8	122.5	123.3	125
Benchmark-years weights Implicit price deflator	120.5 120.8	123.8 124.5	121.2 121.6	123.0 123.6	123.3 123.9	124.0 124.6	124.8 125.9	126 127
State and local:								
Current dollars	137.5	143.9	139.2	140.4	143.2	145.2	146.8	147.
Quantity indexes: Fixed 1987 weights	115.2	117.6	115.4	115.5	117.1	118.4	119.4	118
Chain-type annual weights	115.0	117.3	115.3	115.4	116.8	118.0	118.9	118
Benchmark-years weights Price indexes:	115.1	117.4	115.3	115.4	116.9	118.1	119.0	118
Fixed 1987 weights	119.6	122.8	120.9	121.8	122.7	123.2	123.6	124
Chain-type annual weights	119.6 119.5	122.7 122.6	120.8 120.7	121.7 121.6	122.6	123.1	123.5 123.4	124. 124.
Benchmark-years weights Implicit price deflator	119.5	122.0	120.7	121.5	122.5 122.3	123.0 122.7	123.4	124

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

Page	linde	x numbe	mbers, 1987=100]								
Cross domestic product:					Se	asonally	adjust	ed			
Gross domestic product: Current dollars Quantity indexes: Fixed 1987 weights Denothmark-years we		1992	1993	1992		19	93		1994		
Current dollars				IV	Ι	II	III	IV	I		
Quantity indexes: 109.8 113.1 111.6 111.9 112.4 113.2 115.1 116.0 Chain-type annual weights 109.4 112.3 111.1 111.2 111.7 112.3 114.0 114.8 116.0 114.8 114.											
Chain-type annual weights 109.5 112.5 111.3 111.4 111.9 112.5 114.2 115.0 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 121.5 125.0 122.6 123.8 124.7 125.3 124.0 125.7 Implicit price deflator 121.1 124.2 122.2 123.3 124.0 124.5 124.9 125.7 Fixed 1987 weights 133.6 141.0 137.0 138.0 139.9 141.5 144.4 146.2 Cuarnert dollars 109.9 112.8 111.6 111.2 111.2 112.7 113.7 115.6 116.2 Chain-type annual weights 109.9 112.7 111.5 111.2 112.7 113.7 115.6 116.2 Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 Benchmark-years weights 121.1 124.2 122.2 123.3 124.0 125.7 Fixed 1987 weights 121.1 124.2 122.2 123.3 124.0 125.7 Benchmark-years weights 121.1 124.2 122.2 123.3 124.0 125.7 Benchmark-years weights 121.1 124.2 122.2 125.0 125.6 126.4 127.1 Benchmark-years weights 121.1 124.2 122.2 123.3 124.1 124.5 125.0 Gross domestic purchases 129.6 137.6 133.1 134.7 136.5 138.1 140.8 143.0 Chain-type annual weights 106.7 110.2 108.4 108.9 109.7 110.6 111.6 113.4 114.6 Chain-type annual 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 106.7 110.3 108.5 108.9 109.7 110.5 112.1 113.2 Final sales to domestic purchasers 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Fixed 1987 weights 121.5 124.9 122.8 123.8 124.6 125.2 125.9 126.7 Fixed 1987 weights 107.7 111.6 109.5 109.7 110.9 110.1 113.1 Price indexes: Fixed 1987 weights 107.7 111.6 109.5 109.7 110.9 110.1 113.8 Fixal sales to domestic purchasers 121.5 124.9 122.8 123.8 124.6 125.2	Quantity indexes:	133.0	140.5	136.4	137.9	139.4	140.9	143.8	145.8		
Benchmark-years weights 109.4 112.3 111.1 111.2 111.7 112.3 114.0 114.8 Price indexes: Fixed 1987 weights 121.5 125.0 122.6 123.8 124.7 125.3 126.0 127.0 Benchmark-years weights 121.1 125.2 122.2 123.3 124.0 125.6 126.3 127.0 Benchmark-years weights 121.1 125.2 122.2 123.3 124.0 125.6 126.3 127.3 Implicit price deflator 121.1 124.2 122.2 123.3 124.0 125.6 126.3 127.3 Final sales of domestic product 1.1 11.2 11.2 11.2 11.2 125.5 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 109.9 112.8 111.6 111.3 112.2 112.9 114.6 115.2 Benchmark-years weights 122.1 125.0 123.6 124.9 125.7 126.4 127.1 Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 Benchmark-years weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 Implicit price deflator 121.1 124.2 122.2 123.3 124.1 124.5 125.0 125.6 Gross domestic purchases 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 106.7 110.2 108.4 108.9 109.7 110.5 112.1 113.2 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 106.7 110.2 108.4 108.9 109.7 110.5 112.1 113.2 Fixed 1987 weights 122.0 125.6 123.4 124.4 125.3 125.9 126.6 127.4 Chain-type annual weights 122.0 125.6 123.4 124.4 125.3 125.9 126.6 127.4 Chain-type annual weights 107.7 111.6 109.5 109.7 110.9 112.1 113.8 114.8 Chain-type annual weights 107.7 111.6 109.5 109.7 110.9 112.1 113.8 Fixed											
Fixed 1987 weights	Benchmark-years weights										
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 product 121.1 124.2 122.2 123.3 124.0 124.5 124.9 125.7 Final sales of domestic product 133.6 141.0 137.0 138.0 139.9 141.5 144.4 146.2 Quantity indexes: Fixed 1987 weights 109.9 112.8 111.6 111.3 112.2 112.9 114.6 115.2 Benchmark-years weights 109.9 112.8 111.6 111.3 112.2 112.9 114.6 115.2 Benchmark-years weights 122.1 126.0 123.6 124.9 125.7 126.4 127.1 128.1 Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.4 Implicit price deflator 121.1 124.2 122.2 123.3 124.1 124.5 125.0 125.6 Gross domestic purchases 122.6 137.6 133.1 134.7 136.5 138.1 140.8 143.0 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 106.7 110.2 108.4 108.9 109.7 110.5 112.1 113.2 Frice indexes: Fixed 1987 weights 122.0 125.6 123.4 124.4 125.3 125.9 126.6 127.4 Chain-type annual weights 106.7 110.3 108.5 108.9 109.7 110.5 112.1 113.2 Final sales to domestic purchasers 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator		122 1	125 9	123.5	124 8	125 6	126.3	127 0	128 0		
Implicit price deflator	Chain-type annual weights	121.5	125.0	122.6	123.8	124.7	125.3	126.0	127.0		
Final sales of domestic product ¹: 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 109.9 112.7 111.5 111.2 112.1 112.2 112.9 114.6 115.2 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 121.6 125.0 122.7 123.9 124.7 125.6 126.4 127.4 Implicit price deflator 121.1 124.2 122.9 124.2 125.0 125.6 126.4 127.4 Implicit price deflator 121.1 124.2 122.9 124.7 125.6 123.3 124.1 124.5											
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 109.9 112.8 111.5 111.2 112.1 112.2 112.9 114.6 115.2 Benchmark-years weights 122.2 126.0 123.6 124.9 125.7 126.4 127.1 128.1 Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 128.1 Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 128.1 Benchmark-years weights 121.1 124.2 122.2 123.9 124.7 125.4 126.1 127.1 128.1 Gross domestic purchases 2: 121.1 124.2 122.2 123.3 124.1 124.5 125.0		121.1	127.2	122.2	120.0	124.0	124.0	124.5	120.7		
Fixed 1987 weights	Current dollars	133.6	141.0	137.0	138.0	139.9	141.5	144.4	146.2		
Benchmark-years weights 109.9 112.7 111.5 111.2 112.1 112.8 114.5 115.1	Fixed 1987 weights										
Price indexes: 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 purchases 2: Current dollars 0uantity indexes: 100.7 110.3 109.7 110.6 111.6 113.4 140.8 143.0 Quantity indexes: 106.7 110.2 108.4 108.9 109.7 110.6 111.6 113.4 114.6 Chain-type annual weights 106.7 110.2 108.4 108.9 109.7 110.6 111.6 113.4 114.6 Chain-type annual weights 106.7 110.3 108.5 108.9 109.7 110.6											
Chain-type annual weights 121.6 125.0 122.7 123.9 124.7 125.4 126.1 127.1 121.5 122.3 122.9 124.2 125.0 125.6 126.4 127.4 127.4 127.5 12	Price indexes:							-			
Benchmark-years weights 121.7 125.3 122.9 124.2 125.0 125.6 126.4 127.4 129.6 121.1 124.2 122.2 123.3 124.1 124.5 125.0 125.8 12											
Gross domestic purchases 2: 129.6 137.6 133.1 134.7 136.5 138.1 140.8 143.0 Quantity indexes: Fixed 1987 weights 107.2 111.3 109.1 109.7 110.6 111.6 113.4 144.8 143.0 Fixed 1987 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 121.5 124.9 122.8 123.8 124.6 125.2 125.9 126.6 127.4 Chain-type annual weights 121.5 124.9 122.8 123.8 124.6 125.2 125.2 126.6 127.4 Chain-type annual weights 121.5 124.9 122.8 123.8 124.6 125.2 125.2	Benchmark-years weights	121.7	125.3	122.9	124.2	125.0	125.6	126.4	127.4		
Current dollars ' 129.6 137.6 133.1 134.7 136.5 138.1 140.8 143.0 Quantity indexes: Fixed 1987 weights 107.2 111.3 109.1 109.7 110.6 111.4 114.6 113.4 114.6 114.6 113.4 114.6 114.6 113.4 114.6 114.6 114.6 110.4 112.0 113.1 109.7 110.6 111.0 112.0 113.1 113.1 109.7 110.6 111.4 112.0 113.1 113.2 113.1 109.7 110.6 110.4 112.0 113.1 113.1 113.2 113.1 113.2 <td>Implicit price deflator</td> <td>121.1</td> <td>124.2</td> <td>122.2</td> <td>123.3</td> <td>124.1</td> <td>124.5</td> <td>125.0</td> <td>125.8</td>	Implicit price deflator	121.1	124.2	122.2	123.3	124.1	124.5	125.0	125.8		
Quantity indexes: Incomplete indexes Incomple		129 6	137 6	133 1	134 7	136.5	138 1	140.8	143.0		
Chain-type annual weights 106.7 110.2 108.4 108.9 109.6 110.4 112.0 113.1 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 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.5 123.8 124.2 124.8 Final sales to domestic purchasers 3: Current dollars 130.2 138.0 133.6 134.8 137.0 138.7 141.5 Quantity indexes: Fixed 1987 weights 107.7 111.6 109.5 109.7 110.9 112.1 113.8 Benchmark-years weights 107.2 110.6 108.9 108.9 109.9 110.8 112.5 113.4 Price indexes: Fixed 1987 weights 122.1 125.7 123.4 124.5 125.4 126.0 126.7 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 Benchmark-years weights 121.5 124.9 122.8 123.8 124.7 125.2 126.0 126.8	Quantity indexes:										
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 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.5 123.8 124.2 124.8 Final sales to domestic purchasers 3 :											
Fixed 1987 weights 122.0 125.6 123.4 124.4 125.3 125.9 126.6 127.4 Chain-type annual weights 121.5 124.9 122.8 123.8 124.6 125.2 125.9 126.6 127.4 Benchmark-years weights 121.5 124.9 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.2 125.2 126.9 126.8 Final sales to domestic purchasers 3: 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 107.1 110.5 108.7 108.9 109.9 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0											
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 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Final sales to domestic purchasers 3: Current dollars 130.2 138.0 133.6 134.8 137.0 138.7 141.5 143.4 Quantity indexes: Fixed 1987 weights 107.7 111.6 109.5 109.7 110.9 112.1 113.8 144.8 Chain-type annual weights 107.1 110.5 108.7 108.8 109.9 110.0 112.4 113.4 Price indexes: Fixed 1987 weights 122.1 125.7 123.4 124.5 125.0 126.0 126.7 127.5 Chain-type annual weights 121.6 124.9 122.8 123.8 124.7 125.2 126.0 126.8 Benchmark-years weights 121.6 124.9 122.8 123.8 124.		100.0	10F.C	400.4	1011	105.0	105.0	100.0	107.4		
Benchmark-years weights 121.5 124.9 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 125.9 126.7 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 125.2 124.8 Implicit price deflator 120.9 123.6 122.1 122.8 123.8 124.6 124.8 Implicit price deflator 120.9 123.6 123.8 124.6 125.2 123.8 Implicit price deflator 120.8 133.6 124.8 123.8 124.7 141.5 Implicit price deflator 120.8 133.6 124.8 123.8 124.7 125.2 124.8 Implicit price deflator 120.8 120.9 120.8 123.8 124.7 Implicit price deflator 125.9 123.8 124.8 Implicit price deflator 125.2 126.8 Implicit price deflator 125.2 125.8 Implicit price deflator 125.2 126.8 Implicit price deflator 125.2 126.8											
Final sales to domestic purchasers 3: 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 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	Benchmark-years weights	121.5	124.9	122.8	123.8	124.6	125.2	125.9	126.7		
Current dollars 130.2 138.0 133.6 134.8 137.0 138.7 141.5 143.4 Quantity indexees: Fixed 1987 weights 107.7 111.6 109.5 109.7 110.9 112.1 113.8 144.8 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		120.9	123.6	122.1	122.8	123.5	123.8	124.2	124.8		
Quantity indexes: Indexes		130.2	138 N	133.6	134.8	137 0	138 7	141 5	143.4		
Chain-type annual weights 107.1 110.5 108.7 108.8 109.9 110.8 112.4 113.3 Benchmark-years weights 107.2 110.6 108.9 108.9 110.0 111.0 111.0 112.5 113.4 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	Quantity indexes:					107.0		-	170.7		
Benchmark-years weights 107.2 110.6 108.9 108.9 108.0 110.0 111.0 112.5 113.4 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											
Price indexes: 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											
Chain-type annual weights	Price indexes:							-			
Benchmark-years weights											
Implicit price deflator	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		

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

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

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

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

			Seasonally adjusted							
	1992	1993	1992		19	93		1994		
			IV	I	II	III	IV	1		
Gross national product: Current dollars	133.0	140.3	136.3	137.8	139.2	140.9	143.5	145.6		
Fixed 1987 weights	109.9 109.6 109.5	112.4		111.3		112.5	114.0	115.8 114.9 114.7		
Fixed 1987 weights	122.1 121.4 121.6 121.1	124.9	123.4 122.5 122.8 122.2	124.7 123.8 124.0 123.3	124.6	125.2		127.9 127.0 127.2 125.6		
Less: Exports of goods and services and receipts of factor income: Current dollarsQuantity index, fixed 1987 weights	164.1 145.7	169.2 149.9		165.0 146.3	168.8 148.9	168.1 149.0	174.8 155.3	175.9 155.9		
Plus: Command-basis exports of goods and services and receipts of factor income: Current dollarsQuantity index, fixed 1987 weights	176.0 147.0		179.9 147.6	178.9 149.3	181.3 151.9	179.5 153.1	187.5 159.2	187.3 161.2		
Equals: Command-basis gross national product: Current dollars Quantity index, fixed 1987 weights	133.0 110.0		136.3 111.6	137.8 112.1	139.2 112.6	140.9 113.7	143.5 115.3	145.6 116.4		

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]

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 Furniture and household equipment Other	112.2 104.0 124.2	115.8 104.3 126.8	113.3 104.2 124.3					117.9 105.3 128.3
Nondurable goods	123.0	124.9	123.8	124.9	125.0	124.5	125.1	125.2
Food	122.0 117.9 123.3 116.5 128.8	124.3 119.1 122.2 116.1 131.6	122.7 118.2 124.7 117.3 130.3	116.2	119.0 123.1 117.4	124.3 118.9 118.8 116.5 131.5	118.8 120.4 114.3	
Services	129.5	134.7	131.6	132.8	134.2	135.2	136.3	137.4
Housing Household operation Electricity and gas Other household operation Transportation Medical care Other	129.5 124.1 112.5 111.0 113.8 128.3 140.9 132.2	127.8 115.6	131.6 125.4 113.9 112.7 114.9 131.9 144.0 134.4	126.5 113.5 112.2 114.6 134.4	127.6 115.3 114.2 116.2 134.9 147.9	128.1 116.4 115.8 116.9 136.0	129.0 117.1 116.0 118.0 136.7	130.3 117.4 115.5 119.2
Housing	124.1 112.5 111.0 113.8 128.3 140.9	127.8 115.6 114.6 116.4 135.5 148.5	125.4 113.9 112.7 114.9 131.9 144.0	126.5 113.5 112.2 114.6 134.4 145.9 135.4	127.6 115.3 114.2 116.2 134.9 147.9 136.6	128.1 116.4 115.8 116.9 136.0 149.3 137.6	129.0 117.1 116.0 118.0 136.7 150.7 139.1	130.3 117.4 115.5 119.2 138.5 152.1

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

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

[Index numbers, 1987=100]

				Se	asonally	/ adjust	ed	
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
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 Nonresidential buildings, including	114.6	117.8	115.6	116.3	117.4	118.4	119.3	120.2
farmUtilities	113.7 115.6	117.2 119.3	114.8 116.4	115.6 117.3	116.5 119.4	117.8 119.8	118.8 120.8	119.7 122.1
wellsOther structures	123.5 110.7	123.3 113.6	123.1 112.6	122.9 112.3	123.6 113.7	123.3 113.6	123.3 114.7	124.6 115.1
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
equipment ¹	59.6 107.9 120.2	53.0 109.6 122.5	57.0 108.5 120.9	55.7 109.0 121.1	53.6 109.5 122.3	52.2 109.7 123.2	50.5 110.2 123.4	49.8 110.5 123.4
equipment Other	116.8 117.1	119.2 119.1	117.3 118.0	118.4 118.2	119.1 119.1	119.6 119.4	119.6 119.6	121.4 120.1
Residential	113.4	117.7	114.8	115.8	117.2	118.5	119.5	120.9
Structures Single family Multifamily Other structures	113.6 113.4 111.3 114.7	118.1 118.3 115.6 118.6	115.0 115.2 112.5 115.7	116.1 116.2 113.5 116.7	117.5 117.3 114.6 118.7	118.8 119.2 116.4 119.1	119.8 120.4 117.6 119.7	121.2 121.4 118.5 121.9
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 Benchmark-years weights	111.0 110.3	112.9 112.3	111.5 110.9	112.0 111.4	112.7 112.1	113.3 112.7	113.7 113.1	114.5 113.9

^{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

Exports of goods and services	113.7	115.4	114.3	114.7	115.5	115.7	115.9	117.0
Merchandise ¹ Durable Nondurable Services ¹	109.6 109.3 110.2 123.7	110.7	109.8 109.5	110.3 109.4	109.3	110.8	110.8 110.4	111.4
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 Durable Nondurable Services ¹	112.1 112.8 110.7 128.9	114.3 108.0	113.5 112.4	113.3 108.6	110.3	114.3	115.4 105.7	111.3 115.8 103.4 129.4
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	112.9 112.3		113.2 112.6					
Chain-type annual weights Benchmark-years weights			114.1 113.0					

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

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

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

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

		-, -,						
			Seasonally adjusted					
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	1
Exports of merchandise	109.6	110.4	109.7	110.0	110.5	110.5	110.7	111.9
Foods, feeds, and beverages	114.5 108.3 116.5 104.6 105.8 122.1 58.9 116.5 112.3 118.0 114.5 120.9 113.0 113.0	116.1 109.2 125.2 101.9 105.9 125.6 52.1 117.9 113.2 119.8 115.0 124.0 113.9 113.9	111.7 108.8 118.7 104.4 105.8 123.5 56.3 117.0 118.8 115.0 122.1 113.4 113.4	113.1 109.1 122.3 103.1 105.8 124.6 54.9 117.1 113.3 119.6 115.4 123.3 113.4 113.4	113.1 110.4 127.5 102.6 106.0 125.4 52.7 117.9 113.3 119.7 114.9 123.9 114.1 114.1	118.2 109.1 126.2 101.3 105.7 125.1 51.2 118.1 119.7 114.8 124.1 113.8 113.8	120.1 108.3 124.9 100.8 106.0 126.8 49.7 118.6 113.3 120.1 114.8 124.8 114.1 114.1	125.9 110.5 127.8 102.6 106.1 127.2 48.9 118.8 113.9 120.5 115.4 124.9 114.7 114.7
Imports of merchandise	112.1	112.0	113.1	111.6	112.7	111.8	111.9	111.3
Foods, feeds, and beverages	108.1 114.2 115.3 113.1 100.8 107.3 122.2 61.4 116.5 114.8 118.3 116.9 120.1 114.7	107.9 114.3 117.0 111.5 91.4 108.0 125.6 118.4 116.9 119.4 120.7 116.9 115.9	107.2 114.4 114.7 114.0 104.0 123.5 117.8 115.9 119.8 117.9 122.3 115.8 115.8	105.7 114.8 117.6 111.9 95.5 106.9 124.6 57.8 116.5 115.1 118.8 117.9 119.8 114.8	106.6 115.0 117.4 112.4 99.1 107.7 125.4 56.3 117.8 116.5 119.7 120.9 115.8 115.8	108.8 113.4 115.5 111.1 88.5 108.6 125.2 55.0 119.3 117.0 119.5 118.4 120.8 116.0 116.0	110.7 114.0 117.3 110.4 81.6 109.0 126.9 53.4 120.1 118.9 119.7 118.6 121.1 117.3 117.3	110.9 115.1 119.3 110.7 73.7 127.2 52.4 119.8 119.6 119.6 117.2 117.2
Addenda: Exports of agricultural products ¹ Exports of nonagricultural products Imports of nonpetroleum products	111.5 109.4 113.4	113.3 110.0 114.3	109.8 109.7 114.2	111.1 109.8 113.4	110.5 110.5 114.3	115.0 109.9 114.4	116.6 109.9 115.3	122.6 110.6 115.6

^{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

	A HUIHID	JIJ, 13C	,, = 100]					
				Sea	asonally	/ adjuste	ed	
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	1
Government purchases	ases						126.3	
Federal	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128.4
National defense Durable goods Nondurable goods Services Compensation of employees Military Civilian Other services Structures	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129.4
	113.7	117.6	115.3	117.1	117.9	117.9	117.6	117.5
	115.6	113.1	117.8	113.0	115.9	112.6	110.8	106.4
	127.1	132.9	128.0	131.2	132.1	134.0	134.4	136.9
	134.6	143.1	135.1	140.6	141.7	144.7	145.4	148.5
	136.6	143.8	136.6	142.3	143.3	143.9	145.7	148.0
	130.6	141.7	132.0	137.1	138.3	146.5	144.9	149.5
	116.4	118.5	117.8	117.8	118.5	118.8	118.8	120.3
	114.0	117.7	116.2	117.2	117.4	117.3	118.8	120.0
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	120.2	123.0	120.9	122.5	122.5	123.4	123.6	125.3
	101.2	93.1	96.9	94.0	94.0	94.1	90.3	92.3
inventory change Other nondurables Services Compensation of employees Other services Structures	107.9	105.9	106.0	106.0	106.3	106.0	105.2	106.6
	124.5	129.0	125.5	128.0	128.3	129.3	130.4	132.6
	129.3	136.4	130.6	135.2	135.7	136.4	138.2	141.3
	117.9	118.7	118.4	118.1	118.1	119.3	119.5	120.6
	113.7	116.5	114.8	115.1	116.2	116.8	117.7	118.3
State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures	119.6	122.8	120.9	121.8	122.7	123.2	123.6	124.7
	113.2	115.3	113.6	114.5	115.4	115.8	115.6	116.6
	115.4	116.0	114.9	116.2	117.9	115.6	114.2	115.6
	122.6	126.1	124.0	125.0	125.7	126.6	127.2	128.3
	127.5	132.1	129.2	130.6	131.6	132.7	133.5	134.7
	69.3	60.5	67.0	63.9	60.3	60.1	57.8	57.5
	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
	120.2	123.7	121.3	122.6	123.5	124.2	124.6	125.8
defense purchases: Chain-type annual weights Benchmark-years weights Price indexes for Federal nondefense	121.2	125.8	122.2	124.4	125.3	126.6	126.9	128.1
	121.2	125.9	122.2	124.5	125.4	126.6	127.0	128.1
purchases: Chain-type annual weights Benchmark-years weights Price indexes for State and local purchases:	119.1	122.3	119.7	121.6	121.8	122.5	123.3	125.1
	120.5	123.8	121.2	123.0	123.3	124.0	124.8	126.7
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

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

			Seasonally adjusted					
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
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 Aircraft Missiles Ships Vehicles Electronic equipment Other Other durable goods	114.4 118.4 98.6 118.4 120.9 109.2 116.6 106.5	118.8 125.7 98.3 121.7 128.0 109.8 118.2 106.1	116.2 121.8 97.4 119.2 124.1 109.6 117.9 106.3	118.2 124.8 99.1 120.7 126.0 109.7 118.2 106.3	119.1 125.3 99.9 121.4 130.8 109.6 118.2 106.2	119.0 127.0 96.8 122.7 126.9 109.6 117.9 105.8	118.8 125.8 97.5 122.1 128.3 110.0 118.3 106.0	118.6 127.3 90.5 123.3 129.4 110.4 118.6 106.3
Nondurable goods	115.6	113.1	117.8	113.0	115.9	112.6	110.8	106.4
Petroleum products Ammunition Other nondurable goods	119.7 108.5 117.9	112.5 111.4 115.3	124.2 111.5 116.8	111.1 111.3 116.7	119.7 111.1 116.2	110.8 112.6 114.3	108.3 110.5 113.8	94.0 111.8 114.6
Services	127.1	132.9	128.0	131.2	132.1	134.0	134.4	136.9
Compensation of employees Military Civilian Other services Contractual research and	134.6 136.6 130.6 116.4	143.1 143.8 141.7 118.5	135.1 136.6 132.0 117.8	140.6 142.3 137.1 117.8	141.7 143.3 138.3 118.5	144.7 143.9 146.5 118.8	145.4 145.7 144.9 118.8	148.5 148.0 149.5 120.3
development Installation support Weapons support Personnel support Transportation of material Travel of persons Other	111.9 113.5 120.5 134.7 104.6 110.6	113.1 115.7 124.4 136.0 105.2 116.4	113.5 114.5 122.1 136.8 104.5 111.3	113.8 113.8 123.1 134.9 104.9 115.6	113.6 115.4 124.0 136.4 104.8 115.6	113.2 116.8 124.4 136.0 105.8 116.2	111.7 116.9 126.1 136.9 105.3 118.2	113.8 117.3 127.6 139.6 105.3 119.6
Structures	114.0	117.7	116.2	117.2	117.4	117.3	118.8	120.0
Military facilitiesOther	106.1 128.6	108.3 135.0	107.5 132.2	108.1 133.9	108.0 134.8	107.7 135.0	109.4 136.0	110.7 136.9
Addenda: Price indexes for national defense purchases: Chain-type annual weights Benchmark-years weights	121.2 121.2	125.8 125.9	122.2 122.2	124.4 124.5	125.3 125.4	126.6 126.6	126.9 127.0	128.1 128.1

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

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

[Index numbers, 1987=100]

Gross domestic product	121.1	124.2	122.2	123.3	124.0	124.5	124.9	125.7
Plus: Receipts of factor income from the rest of the world ¹		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 Statistical discrepancy	131.3 119.8		131.0 120.9					133.9 123.9
Equals: National income	121.6	125.1	122.9	124.5	124.9	125.1	125.7	126.7
Addenda: Net domestic product Domestic income	122.5 121.7	125.1	123.7 123.0	124.9 124.6		126.1 125.2	126.5 125.8	127.4 126.8

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

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

[Index numbers, 1987=100]

				Se	asonally	/ adjust	ed	
	1992	1993	1992		19	93		1994
			IV	ı	Ш	III	IV	Ι
Gross domestic product	121.1	124.2	122.2	123.3				125.7
Business	119.8	122.6	120.9	121.8	122.5	122.9	123.2	123.9
Nonfarm Nonfarm less housing Housing Farm Statistical discrepancy	120.1 119.5 125.5 106.1 119.8	122.8 122.4 127.3 110.7 122.6	121.2 120.8 124.5 104.9 120.9	126.9 107.1	126.8 109.3	122.7 127.4 108.3	128.1 117.8	123.9 123.1 131.9 123.3 123.9
Households and institutions	127.7	131.9	129.8	131.3	131.3	131.9	133.2	134.6
Private households Nonprofit institutions	115.7 128.2	119.4 132.5	117.4 130.4					121.7 135.2
General government	129.0	134.4	130.3	132.8	133.8	135.1	136.0	137.8
FederalState and local	132.8 127.4	140.6 131.9						145.9 134.6
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 product 1	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 .908 .762	.118 .923 .768	.116 .916 .761	.116 .921 .772	.118 .923 .770	.118 .922 .769	.118 .925 .762	.119 .926 .769
consumption adjustments Profits tax liability Profits after tax with inventory valuation and capital	.099 .035	.109 .040	.109 .037	.102 .037	.108 .040	.108 .038	.118 .044	.113 .043
consumption adjustments Net interest	.064 .048	.069 .046	.072 .046	.065 .047	.068 .046	.070 .045	.075 .044	.070 .044

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

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

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

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

8. Supplementary Tables_

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

[Percent]																	
			Sea	sonally	adjuste	d at an	nual rat	tes				Sea	sonally	ally adjusted at annual rates			
	1992	1993	1992		19	93		1994		1992	1993	1992		19	93		1994
			IV	I	II	Ш	IV	I				IV	I	II	III	IV	I
Gross domestic product: Current dollars	5.5	5.6	9.2	4.4	4.3	4.4	8.4	5.7	Structures: Current dollarsQuantity indexes:	-5.5	3.5	.7	3.1	12.6	3.4	15.8	-17.8
Fixed 1987 weights Chain-type annual weights Benchmark-years weights . Price indexes:	2.6 2.3 2.4	3.0 2.7 2.7	5.7 5.5 5.5	.8 .4 .4	1.9 1.8 1.8	2.9 2.2 2.2	7.0 6.2 6.2	3.0 2.8 2.8	Fixed 1987 weights	-6.0 -6.0 -6.0	.6 .7 .7	-1.9	.5 .6 .6	8.1 8.4 8.4	.3 .3 .3	12.2 11.9 11.9	-20.1 -20.2 -20.2
Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	3.3 3.1 3.2	3.1 2.9 2.9	3.1 2.8 2.9	4.3 4.1 4.1	2.8 2.7 2.7	2.1 2.1 2.1	2.3 2.4 2.4	3.1 3.1 3.1	Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	.6 .6 .6	2.8 2.8 2.8	2.8	2.5 2.4 2.4	3.8 3.9 3.9	3.4 3.3 3.3	3.2 3.3 3.3	3.1 3.0 3.0
Personal consumption expenditures: Current dollars	6.0	6.1	9.9	3.8	6.1	5.5	6.8	6.0	Producers' durable equipment: Current dollars	5.3	13.3	10.3	14.3	19.7	3.9	23.8	17.6
Fixed 1987 weights	2.6 2.3 2.5	3.3 3.0 3.1	5.6 5.1 5.2	.8 .6 .6	3.4 3.2 3.2	4.4 4.0 4.0	4.4 3.9 3.9	4.6 4.2 4.2	Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	6.9 4.7 5.7	16.3 13.5 13.8		19.9 14.5 14.5	19.8 19.1 19.1	10.0 4.7 4.7	26.0 25.0 25.0	16.1 16.0 16.0
Fixed 1987 weights	3.7 3.6 3.6	3.0 2.9 2.9	3.1 2.9 3.0	3.4 3.3 3.3	2.9 2.9 2.9	1.4 1.5 1.5	2.8 2.8 2.8	2.1 2.2 2.2	Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	1.3 .5 .8	1.1 .1 .2	2 -1.1 9	1.2 .3 .3	1.8 .8 .8	1.0 .3 .3	.1 5 5	1.8 1.5 1.5
Durable goods: Current dollars Quantity indexes:	8.6	8.2	13.1	-1.0	13.3	8.0		11.2	Residential: Current dollarsQuantity indexes:	17.9	12.9	37.5	5.2	-4.8	16.5	36.4	13.0
Fixed 1987 weights	7.0 6.7 6.8	7.3 6.5 6.6	13.2 12.1 12.2	-1.3 -2.2 -2.2	10.8 10.4 10.4	7.6 6.4 6.4	15.2 14.1 14.1	10.2 9.3 9.3	Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	16.3 16.3 16.3	8.7 8.7 8.7	32.8 32.9 32.8	1.5 1.6 1.6	-9.5 -9.4 -9.4	11.9 11.8 11.8	31.7 31.9 31.9	7.6 7.6 7.6
Fixed 1987 weights	2.2 1.8 2.0	2.0 1.7 1.7	1.1 1.0 1.1	1.8 1.4 1.4	3.3 2.8 2.8	2.0 1.8 1.8	2.6 2.4 2.4	1.9 1.5 1.5	Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.3 1.4 1.4	3.8 3.8 3.8	3.7 3.6 3.6	3.5 3.4 3.4	5.0 5.1 5.1	4.6 4.3 4.3	3.2 3.1 3.1	4.8 5.0 5.0
Nondurable goods: Current dollarsQuantity indexes:	3.4	3.8	8.2	1.1	2.9	2.3	4.5	4.3	Exports of goods and services: Current dollars	6.5	3.3	8.8	-2.1	5.5	-4.1	19.1	5
Fixed 1987 weights	1.4 1.4 1.4	2.4 2.2 2.3	7.3 7.0 7.0	-2.1 -2.2 -2.2	2.7 2.5 2.5	3.7 3.5 3.5	2.7 2.5 2.5	4.2 4.1 4.1	Fixed 1987 weights	6.4 5.6 6.0	3.5 2.6 2.7		-2.4 -2.7 -2.7	3.6 3.3 3.3		20.4 19.3 19.3	-1.0 -2.5 -2.5
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	2.1 2.0 2.1	1.6 1.5 1.5	1.3 1.1 1.2	3.5 3.4 3.4	.5 .4 .4	-1.6 -1.3 -1.3	1.8 1.9 1.9	.3 .3 .3	Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.2 .8 1.0	1.5 .9 1.0	1.4 .8 .9	1.5 .8 .8	2.8 2.4 2.4	.6 0 0	.7 .3 .3	4.1 3.1 3.1
Services: Current dollarsQuantity indexes:	6.9	6.9	10.1	6.4	6.3	6.8		5.8	Imports of goods and services: Current dollars	7.9	8.2	8.2	3.6	15.3	.1	15.4	5.3
Fixed 1987 weights	2.2 2.0 2.1	2.9 2.7 2.8	2.9 2.6 2.8	3.1 2.8 2.8	2.1 2.0 2.0	3.9 3.8 3.8	2.6 2.5 2.5	3.3 3.1 3.1	Fixed 1987 weights	8.7 7.2 7.9	10.3 8.7 8.9	5.6 5.0 5.2	11.6 9.8 9.8	13.3 11.8 11.8	6.0 3.8 3.8	16.4 15.3 15.3	8.6 7.8 7.8
Fixed 1987 weights	5.0 4.8 4.9	4.0 3.9 4.0		3.7 3.7 3.7	4.3 4.2 4.2	2.9 2.9 2.9	3.4 3.4 3.4	3.3 3.3 3.3	Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.2 .6 .8	5		-5.3		-3.1	1.1 .2 .2	-1.7 -2.1 -2.1
Gross private domestic investment: Current dollars Quantity indexes:	8.1	12.0	16.4	21.1	0	4.6		14.5	Government purchases: Current dollars	3.0	2.3	1.7	-1.4	6.8	2.2	1.5	1.2
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	8.5 7.4 7.9	11.9 10.2 10.3	13.3 13.8 13.8	22.7 19.3 19.3	.3 -1.2 -1.2	5.0 2.0 2.0	25.1	11.7 11.4 11.4	Fixed 1987 weights	1 2 2	7 6 6		-6.4 -5.9 -5.9	4.3 4.0 4.0	.3 0 0	0 .1 .1	-3.6 -2.8 -2.8
Fixed 1987 weights Chain-type annual weights Benchmark-years weights									Fixed 1987 weights Chain-type annual weights Benchmark-years weights	3.4 3.1 3.2	3.1 2.9 3.0	2.6 2.5 2.5	5.0 4.6 4.6	2.6 2.7 2.7	2.5 2.4 2.4	1.0 1.5 1.5	4.0 3.9 3.9
Fixed investment: Current dollars Quantity indexes:	5.8	11.0		9.2	10.6	7.3		8.4	Federal: Current dollarsQuantity indexes:	.7	-1.2	4	-8.3	4.4	-3.4	-3.2	1.6
Fixed 1987 weights	6.2 5.1 5.6	11.0 9.4 9.5	14.0 14.1 14.3	10.7 7.7 7.7	9.0 8.2 8.2	8.5 5.7 5.7	24.1 24.1	6.5 5.8 5.8	Fixed 1987 weights	-3.5 -3.4 -3.5	-4.9 -4.6 -4.5	-2.1	-16.2 -15.0 -15.0	2.0 2.2 2.2	-6.2 -6.5 -6.5	-5.2 -4.7 -4.7	-4.9 -3.3 -3.3
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.1 .8 .9	2.4 1.8 1.8	1.7 1.1 1.2	2.2 1.7 1.7	3.3 2.7 2.7	2.7 2.1 2.1	1.9 1.4 1.4	3.1 2.8 2.8	Fixed 1987 weights Chain-type annual weights Benchmark-years weights	4.5 4.2 4.4	3.6 3.4 3.5	1.8	7.5 7.2 7.2	2.3 2.3 2.3		.5 1.5 1.5	4.5 4.5 4.5
Nonresidential: Current dollarsQuantity indexes:	1.7	10.3	7.4	10.9	17.4	3.8		6.6	National defense: Current dollarsQuantity indexes:	-2.7	-3.3			3.7	-7.2	-3.5	
Fixed 1987 weights	2.9 1.2 2.0	11.8 9.6 9.8	7.6 7.4 7.6	14.4 10.3 10.3	16.6 16.0 16.0	7.4 3.4 3.4		6.1 5.1 5.1	Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	-7.1 -7.1 -7.1	-7.2 -6.8 -6.7	-3.0	-21.4 -19.6 -19.6	.7 .8 .8		-4.9 -4.1 -4.1	-12.7 -12.7
Fixed 1987 weights Chain-type annual weights Benchmark-vears weights	1.1 .5 .7	1.7 .9 1.0	.8 .1 .2	1.6 1.0 1.0	2.5 1.8 1.8	1.9 1.2 1.2	1.2 .6 .6	2.3 2.0 2.0	Fixed 1987 weights Chain-type annual weights Benchmark-vears weights	4.9 4.7 4.8	4.0 3.8 3.9		8.1 7.6 7.6	3.0 2.9 2.9	3.5 4.0 4.0	.5 1.0 1.0	4.2 3.8 3.8

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

[Percent]

[Percent]												
			Sea	Seasonally adjusted at annual rates								
	1992	1993	1992		19	93		1994				
			IV	ı	II	Ш	IV	ı				
Nondefense:												
Current dollarsQuantity indexes:	9.4	3.8	1.8	3.6	6.2	4.9	-2.8	26.1				
Fixed 1987 weights Chain-type annual weights	6.2 6.2	.6 .8	4 1	-3.2 -3.5	5.5 5.5	2.5 2.9	-6.5 -5.9	18.3 19.1				
Benchmark-years weights Price indexes:	6.2	.8	1	-3.5	5.5	2.9	-5.9	19.1				
Fixed 1987 weights Chain-type annual weights	3.1 3.1	2.4 2.7	1.9 1.9	5.7 6.3	0 .8	2.9 2.3	.6 2.6	5.5 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 Benchmark-years weights	2.1 2.1	2.0 2.0	.1 .1	.4 .4	5.2 5.2	4.2 4.2	3.1 3.1	-2.5 -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 Benchmark-years weights	2.4 2.4	2.6 2.6	2.9 2.9	2.9 2.9	3.0 3.0	1.6 1.6	1.4 1.4	3.5 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				
Fixed 1987 weights Chain-type annual weights	2.3 2.0	2.8 2.6	5.8 5.6	8 -1.1	3.2 3.0	3.4 2.7	6.8 6.1	2.2 2.0				
Benchmark-years weights	2.1	2.5	5.5	-1.1 -1.1	3.0	2.7	6.1	2.0				
Price indexes: Fixed 1987 weights	3.3 3.1	3.1 2.9	3.2	4.3	2.8 2.7	2.1	2.3 2.4	3.2 3.1				
Chain-type annual weights Benchmark-years weights	3.1	3.0	2.7 2.8	4.1 4.1	2.7	2.1 2.1	2.4	3.1				
Gross domestic purchases: Current dollars Quantity indexes:	5.7	6.2	9.1	5.0	5.4	4.8	8.1	6.3				
Fixed 1987 weights Chain-type annual weights	2.9 2.5	3.8 3.3	5.4 5.1	2.5 1.7	3.1 2.7	3.7 3.0	6.7 6.0	4.2 3.9				
Benchmark-years weights Price indexes:	2.7	3.3	5.1	1.7	2.7	3.0	6.0	3.9				
Fixed 1987 weights	3.3 3.1	2.9 2.8	2.8 2.7	3.5 3.4	2.9 2.8	1.8 1.7	2.3 2.4	2.6 2.6				
Chain-type annual weights 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 Benchmark-years weights	2.2 2.4	3.2 3.2	5.2 5.2	.3 .3	4.0 4.0	3.5 3.5	5.8 5.8	3.1 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 Benchmark-years weights	3.1 3.2	2.8 2.8	2.7 2.7	3.3 3.3	2.8 2.8	1.7 1.7	2.4 2.4	2.6 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 Benchmark-years weights	2.2 2.3	2.6 2.6	4.9 4.8	.6 .6	1.7 1.7	2.7 2.7	5.4 5.4	2.9 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 weightsBenchmark-years weights	3.1 3.2	2.9 2.9	2.7 2.8	2.7 4.1 2.7 2.1 2.4								
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				

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

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

[Dollars]

			[Donai	٥١										
			Seasonally adjusted at annual rates 993 1992 1993											
	1992	1993	1992		19	93		1994						
			IV	Ι	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						
product Personal income . Disposable personal	23,665 20,139	24,697 20,864		24,347 20,430	24,536 20,837									
income Personal consumption	17,615	18,225	18,153	17,876	18,196	18,265	18,561	18,699						
expenditures Durable goods Nondurable	16,205 1,947	17,006 2,083		16,704 2,004	16,907 2,062		17,321 2,170	17,534 2,223						
goods Services	5,092 9,166	5,227 9,695		5,192 9,508	5,215 9,631	5,229 9,763	5,273 9,878							
Constant (1987) dollars:														
Gross domestic product	19,518	19,888	19,754	19,744	19,786	19,869	20,150	20,250						
product Disposable personal	19,548	19,897	19,755	19,754	19,793	19,898	20,143	20,251						
income Personal consumption	14,219	14,330	14,490	14,163	14,326	14,341	14,491	14,549						
expenditures Durable goods Nondurable	13,081 1,787	13,372 1,897		13,234 1,835			13,523 1,970							
goods Services	4,161 7,133	4,213 7,261	4,216 7,179	4,184 7,216			4,242 7,310							
Population (mid- period, thousands)	255,472	258,254	256,569	257,197	257,872	258,612	259,334	259,951						

Table 8.3.—Auto Output

[Billions of dollars]

		Seasonally adjusted at annual re										
	1992	1993	1992		19	93		1994				
			IV	-	II	III	IV	I				
Auto output	133.2	142.5	136.4	142.8	145.9	134.6	146.7	164.7				
Final sales Personal consumption expenditures New autos Net purchases of used autos Producers' durable equipment New autos Net purchases of used autos Net exports Exports Imports Government purchases	133.5 126.7 87.3 39.5 37.6 62.2 -24.6 -32.8 14.3 47.0 2.0	134.3 91.3 43.0 39.1 67.0 -28.0 -37.7 14.5 52.2	40.6 37.1 62.7 -25.6 -32.6 15.9 48.4	127.7 86.8 40.9 36.9 61.8 -24.9 -35.3 14.5	133.6 90.3 43.3 42.2 72.6 -30.4 -37.0 14.9	135.4 90.2 45.2 38.9 67.4 -28.5 -39.3 13.2	140.7 98.1 42.6 38.2 66.4 -28.2 -39.2 15.4	41.4 73.4 –32.0				
Change in business inventories of new and used autos New	- .3 .3 6	4.9 3.4 1.4	7	11.4 12.0 7			5.5 3.5 2.0	4.0 6.0 -2.0				
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	104.1 60.1											

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

Table 8.5.—Truck Output

[Billions of dollars]

Truck output 1	83.3	101.3	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 8.4.—Auto Output in Constant Dollars

[Billions of 1987 dollars]

			Sea	asonally	adjuste	ed at ar	d at annual rates			
	1992	1993	1992		19	93		1994		
			IV	1	II	III	IV	1		
Auto output	117.4	121.1	120.1	122.5	123.4	113.5	125.0	136.4		
Final sales Personal consumption expenditures New autos Net purchases of used autos Producers' durable equipment New autos Net purchases of used autos Net exports Exports Imports Government purchases	117.8 113.9 77.9 36.0 32.8 55.5 -22.7 -30.5 12.7 43.3 1.7	115.5 79.5 36.0 34.7 58.4 -23.7 -34.1 12.7	79.9 35.9 32.7 55.5 -22.8 -30.4 14.1	112.2 76.5 35.7 32.6 54.5 –21.9	115.5 78.9 36.6 37.5 63.5 -26.0 -33.5 13.1 46.6	115.4 78.2 37.2 34.6 58.5 -23.9 -35.4 11.6	118.8 84.4 34.0 57.1 -23.2 -34.9 13.6	36.1 62.8 -26.7 -29.9 14.6		
Change in business inventories of new and used autos New	- .4 .1 6	3.4 2.2 1.2	. 5 .6 –.1	8.5 9.1 –.6	2.2 7 3.0	- 2.9 -3.7 .8	5.8 4.2 1.6	. 8 2.4 -1.6		
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	92.8 53.6	96.3 55.8	96.8 53.6	99.9 52.5	96.5 57.3	85.8 60.4	102.9 53.2	110.7 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.

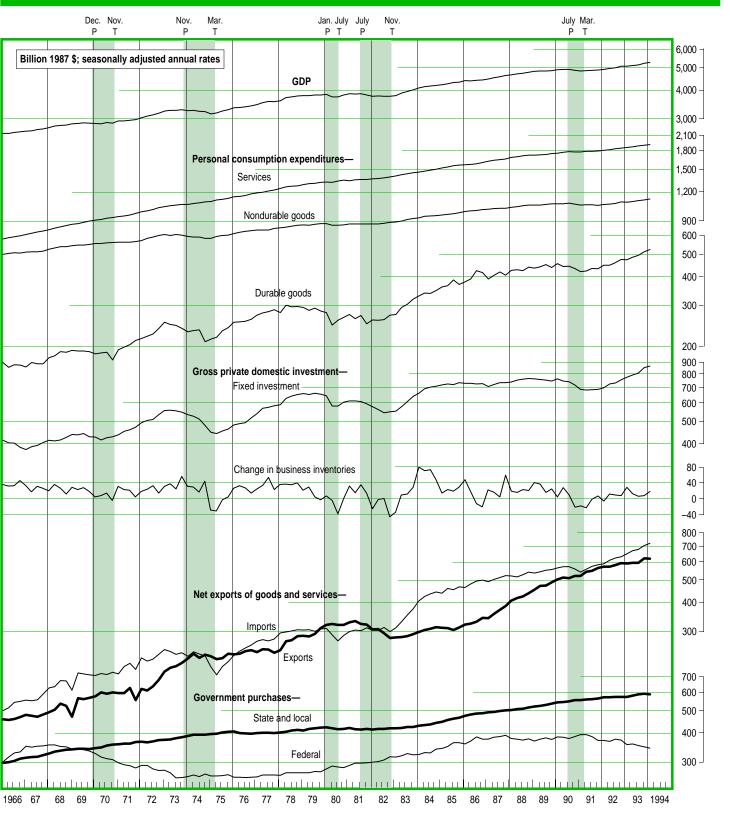
Table 8.6.—Truck Output in Constant Dollars

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.

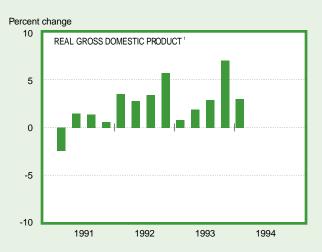
NIPA Charts

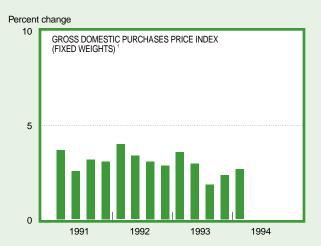
REAL GDP AND ITS COMPONENTS: TRENDS AND CYCLES

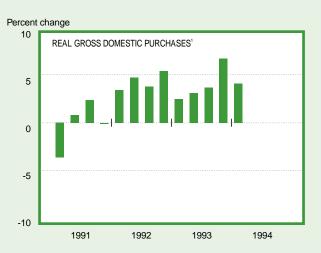


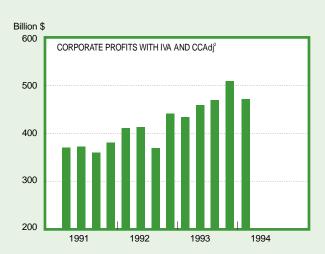


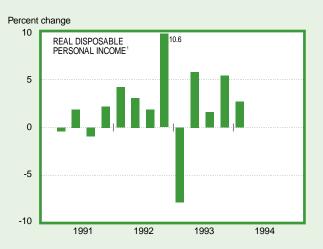
SELECTED SERIES: RECENT QUARTERS













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

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

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]

				Seasonally adjusted at annua rates					
	1991	1992	1993		1993		1994		
				II	III	IV ^r	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		
Less: Contribution of supplements to wages and salaries per hour	.5	.4	.3	1.2	.6	.5	.6		
Plus: Contribution of wages and salaries per hour of persons in housing and in nonprofit institutions	0	.1	0	1	0	.1	1		
Less: 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		
Less: Contribution of wages and salaries per hour of nonproduction workers in manufacturing	1	.1	1	1	2	2	4		
Less: 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		

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				
	1992	1993	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. r	Feb. r	Mar. r	Apr. P			
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 disbursments	2,973.1 2,405.6 756.5 577.6 682.0 967.0 567.5	3,080.5 2,490.8 763.6 577.3 706.6 1,020.6 589.7	2,975.8 2,392.9 740.8 559.6 683.0 969.0 583.0	3,068.3 2,483.8 765.2 582.1 704.9 1,013.6 584.5	3,093.8 2,507.3 766.7 580.3 713.1 1,027.5 586.4	3,086.0 2,497.9 763.3 578.4 709.2 1,025.4 588.1	3,101.6 2,511.3 766.8 579.5 713.2 1,031.3 590.3	3,124.3 2,531.8 769.4 581.2 717.3 1,045.1 592.6	3,120.4 2,524.9 772.1 583.7 712.8 1,040.0 595.5	3,137.7 2,543.3 774.6 584.0 719.0 1,049.7 594.4	3,147.1 2,552.0 779.4 587.5 718.4 1,054.1 595.1	3,164.0 2,567.2 783.9 591.8 722.9 1,060.4 596.8	3,192.3 2,590.6 785.6 592.1 731.4 1,073.6 601.7	3,199.4 2,596.1 790.5 597.1 731.5 1,074.0 603.3	3,213.9 2,610.0 792.8 597.6 737.2 1,080.0 603.9	3,225.7 2,620.5 794.7 596.3 738.7 1,087.1 605.2			
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 CCAdj Farm Nonfarm	414.3 43.7 370.6	443.2 46.0 397.3	470.2 82.0 388.2	449.4 59.7 389.7	437.9 45.2 392.7	430.8 36.0 394.8	403.8 10.6 393.1	430.5 31.1 399.4	433.2 32.7 400.4	449.8 43.9 406.0	470.4 60.0 410.4	480.8 65.3 415.4	464.2 52.9 411.3	476.9 59.9 417.0	482.6 61.0 421.6	485.5 61.8 423.7			
Rental income of persons with CCAdj	-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 Old-age, survivors, disability, and health insurance benefits Government unemployument insurance benefits	858.4 413.9 39.2 405.2	912.1 438.4 34.1 439.6	898.3 432.5 36.0 429.7	901.7 434.7 34.0 433.0	904.5 435.1 32.8 436.7	910.2 435.3 36.4 438.4	914.3 438.9 34.3 441.1	919.4 438.4 36.2 444.7	921.8 441.0 34.7 446.2	925.9 444.1 32.0 449.8	927.5 444.3 31.8 451.4	936.2 450.0 32.9 453.2	940.6 455.0 28.6 456.9	945.7 458.4 27.1 460.2	946.5 460.0 25.1 461.4	951.5 462.6 23.4 465.5			
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 Total farm income ¹	5,080.1 64.8	5,320.0 68.3	5,185.1 104.0	5,283.7 81.9	5,312.8 67.6	5,315.0 58.6	5,332.2 33.0	5,378.7 53.6	5,385.4 55.3	5,412.1 66.6	5,428.4 82.8	5,459.9 88.3	5,424.7 76.0	5,515.8 83.1	5,546.3 84.4	5,570.5 85.3			

P Preliminary.

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

CCAdj Capital consumption adjustment IVA Inventory valuation adjustment

Table 2.—The Disposition of Personal Income

[Monthly estimates seasonally adjusted at annual rates]

	1992	1993					19	93						199	94	
	1002	1000	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan. r	Feb. r	Mar. r	Apr. P
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 Durable goods Nondurable goods Services	4,139.9 497.3 1,300.9 2,341.6	4,391.8 537.9 1,350.0 2,503.9	4,286.1 506.7 1,327.2 2,452.2	4,335.8 526.6 1,342.3 2,466.9	4,358.7 532.7 1,344.1 2,481.8	4,385.3 535.6 1,348.1 2,501.6	4,403.3 540.0 1,349.6 2,513.7	4,419.2 544.1 1,350.5 2,524.6	4,434.8 541.6 1,357.1 2,536.1	4,477.9 559.4 1,366.3 2,552.1	4,490.8 562.1 1,366.0 2,562.7	4,507.4 566.8 1,370.0 2,570.5	4,503.7 567.8 1,359.7 2,576.1	4,568.1 577.3 1,387.7 2,603.2	4,602.1 588.8 1,398.9 2,614.4	4,595.3 581.1 1,395.1 2,619.1
Interest paid by persons Personal transfer payments to rest of world	111.1 10.4	114.0 11.0	112.7 11.0	112.7 11.0	112.2 11.0	113.1 11.0	113.5 10.8	114.0 10.8	114.8 10.8	115.6 11.2	116.6 11.2	118.3 11.2	119.2 11.6	119.4 11.6	120.3 11.6	120.7 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 Per capita: Current dollars 1987 dollars Population (thousands) Personal consumption expenditures: Total, billions of 1987 dollars Durable goods Nondurable goods Services Implicit price deflator, 1987=100 Personal saving as percentage of disposable personal income 2	3,632.5 17,615 14,219 255,472 3,341.8 456.6 1,062.9 1,822.3 123.9 5.3	3,700.9 18,225 14,330 258,254 3,453.2 490.0 1,088.1 1,875.2 127.2	3,660.4 17,988 14,220 257,403 3,388.4 464.4 1,067.4 1,856.6 126.5	3,694.2 18,196 14,339 257,631 3,416.7 479.5 1,079.0 1,858.3 126.9	3,697.7 18,216 14,339 257,870 3,431.2 485.2 1,081.7 1,864.3 127.0	3,691.2 18,176 14,301 258,115 3,450.2 487.9 1,088.8 1,873.6 127.1 3.9	3,678.5 18,113 14,238 258,356 3,461.2 491.8 1,089.8 1,879.6 127.2	3,721.3 18,335 14,389 258,612 3,468.2 494.9 1,090.0 1,883.3 127.4 3.8	3,726.3 18,348 14,395 258,869 3,479.2 492.5 1,099.1 1,887.7 127.5	3,740.2 18,463 14,435 259,106 3,500.9 506.6 1,100.4 1,894.0 127.9	3,755.5 18,557 14,481 259,336 3,504.4 509.9 1,098.3 1,896.1 128.1	3,778.1 18,663 14,556 259,556 3,515.5 516.3 1,101.8 1,897.3 128.2 3.8	3,740.7 18,432 14,401 259,757 3,518.7 515.9 1,094.0 1,908.0 128.0	3,797.2 18,786 14,607 259,949 3,552.1 522.9 1,116.5 1,912.7 128.6	3,808.3 18,880 14,639 260,146 3,568.3 531.5 1,123.9 1,912.9 129.0 3.6	3,790.6 18,826 14,559 260,356 3,553.8 524.6 1,120.2 1,909.0 129.3
							Percent	change fror	m precedino	g 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 1987 dollars	6.4 2.9	4.6 1.9	.8 .7	1.2 .9	.2 .1	1 2	3 3	1.3 1.2	.2 .1	.7 .4	.6 .4	.7 .6	-1.2 -1.0	2.0 1.5	.6 .3	2 5
Personal consumption expenditures: Current dollars	6.0 2.6	6.1 3.3	6 8	1.2 .8	.5 .4	.6 .6	.4 .3	.4 .2	.4 .3	1.0 .6	.3 .1	.4 .3	1 .1	1.4 .9	.7 .5	1 4

^p Preliminary.

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

Revised.

Revised.

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

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]

	4000	1000					19	93					1994					
	1992	1993	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			
Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments ¹	440,138 40,209 109,307 176,709 47,080 50,382 24,476 -8,026	456,771 40,391 111,953 183,037 51,691 53,413 24,288 -8,002	38,382 3,468 9,238 15,579 4,307 4,351 1,951 -513	37,841 3,411 9,109 15,226 4,424 4,242 2,067 -638	38,249 3,310 9,676 15,278 4,298 4,501 1,866 -681	36,977 3,151 8,833 15,255 4,115 4,291 1,994 -662	36,577 3,223 9,327 14,336 3,792 4,442 1,989 -532	37,224 3,053 8,967 15,296 4,170 4,491 2,073 -826	38,134 3,432 9,581 14,999 4,125 4,597 2,151 -751	39,371 3,499 9,893 15,579 4,521 4,559 2,041 -721	39,451 3,472 9,681 15,565 4,740 4,791 1,987 -785	41,469 3,666 9,792 17,186 4,635 4,666 2,288 -765	38,528 3,314 8,977 16,097 4,425 4,515 1,979 -778	37,406 3,187 8,695 15,280 4,515 4,447 2,020 -738	42,169 3,432 10,639 17,306 4,709 4,845 2,038 -800			
Services Travel Passenger fares Other transportation Royalties and license fees Other private services Transfers under U.S. military agency sales contracts 2 U.S. Government miscellaneous services	179,710 53,861 17,353 22,773 20,238 53,601 11,015 869	186,792 56,501 17,849 23,508 20,414 56,434 11,259 827	15,708 4,668 1,491 2,026 1,646 4,774 1,039 63	15,727 4,796 1,522 2,000 1,725 4,588 1,002 94	15,497 4,690 1,491 1,942 1,746 4,543 985 99	15,586 4,700 1,517 1,951 1,752 4,606 963 97	15,822 4,911 1,542 1,916 1,732 4,683 971 68	15,507 4,705 1,475 1,893 1,725 4,703 947 60	15,526 4,669 1,459 1,951 1,718 4,761 912 56	15,586 4,726 1,476 2,052 1,709 4,728 832 63	15,284 4,531 1,416 1,938 1,705 4,829 802 63	15,781 4,874 1,507 2,009 1,705 4,836 787 63	15,767 4,898 1,539 2,005 1,719 4,703 838 66	15,833 4,817 1,503 1,985 1,721 4,902 835 69	16,162 4,942 1,535 2,123 1,725 4,937 829 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			
Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments ¹	536,276 27,857 138,273 134,193 91,779 122,973 17,590 3,611	589,210 28,050 145,021 152,788 102,447 133,852 18,354 8,699	50,168 2,389 12,643 12,379 8,850 11,489 1,598 821	49,331 2,240 12,643 12,426 8,777 11,094 1,481 671	48,059 2,304 12,265 12,302 8,159 10,671 1,605 753	50,076 2,341 12,753 13,094 8,589 11,307 1,614 378	48,334 2,316 12,096 12,822 7,769 11,001 1,529 800	48,871 2,331 11,734 12,456 8,523 11,680 1,373 774	50,702 2,437 12,193 13,004 8,742 11,612 1,518 1,196	52,015 2,563 12,493 13,653 8,995 11,740 1,547 1,025	50,802 2,348 12,283 13,283 8,811 11,504 1,687 887	50,217 2,343 11,561 13,966 8,912 11,080 1,740 616	49,877 2,457 11,566 14,181 8,466 11,266 1,538 403	50,922 2,356 12,001 13,951 8,821 11,440 1,565 789	54,208 2,561 12,863 14,498 9,620 11,664 1,884 1,119			
Services Travel Passenger fares Other transportation Royalties and license fees Other private services Direct defense expenditures 2 U.S. Government miscellaneous services	123,299 39,872 10,943 23,454 4,986 27,988 13,766 2,290	131,114 42,329 11,256 24,511 4,748 33,595 12,286 2,388	10,869 3,494 933 2,149 369 2,668 1,058 198	10,921 3,521 944 2,088 393 2,718 1,067 191	10,588 3,366 894 2,003 401 2,674 1,060 190	10,811 3,376 905 2,093 407 2,791 1,050 190	10,956 3,503 911 2,080 410 2,843 1,000 210	10,904 3,457 918 2,020 411 2,901 983 213	11,141 3,634 960 2,044 412 2,905 975 212	11,402 3,715 1,008 2,133 409 2,954 984 199	11,388 3,698 1,004 2,085 409 3,013 983 196	11,181 3,613 951 2,036 409 2,995 983 194	11,061 3,555 948 1,987 414 2,989 972 196	11,470 3,622 1,000 1,984 683 3,025 961 195	11,582 3,707 1,028 2,162 421 3,118 952 194			
Memoranda: Balance on goods Balance on services Balance on goods and services	-96,138 56,411 -39,727	-132,439 55,678 -76,761	-11,787 4,839 -6,948	-11,491 4,806 -6,684	-9,810 4,909 -4,901	-13,098 4,775 -8,323	-11,757 4,866 -6,891	-11,647 4,603 -7,044	-12,568 4,385 -8,183	-12,643 4,184 -8,460	-11,351 3,896 -7,455	-8,748 4,600 -4,148	-11,349 4,706 -6,643	-13,517 4,363 -9,153	-12,040 4,580 -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

May 1994

Pollution Abatement and Control Expenditures, 1972-92

- Estimates for 1992
- Revised Estimates for 1972–91

By Gary L. Rutledge and Christine R. Vogan

DEAL SPENDING for pollution abatement and $oldsymbol{\mathcal{K}}$ 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

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

				Mil	lions of co	onstant (1	987) doll	ars				Perce	nt chang	ge from p	orecedin	g year
			Le	vel				Change f	rom prece	eding year	r	1988	1989	1000	1001	1000 n
	1987	1988	1989	1990	1991	1992 ^p	1988	1989	1990	1991	1992 <i>p</i>	1900	1909	1990	1991	1992 <i>P</i>
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 8,799 2,276	12,067 10,039 2,028	10,438 9,467 971	8,657 8,460 197	6,755 6,755 0	7,019 7,019 0	992 1,240 –248	-1,629 -572 -1,057	-1,781 -1,007 -774	-1,902 -1,705 -197	264 264 0	9.0 14.1 -10.9	-13.5 -5.7 -52.1	-17.1 -10.6 -79.7	-22.0 -20.2	3.9 3.9
Business On capital account Motor vehicle emission abatement Plant and equipment Other On current account Motor vehicle emission abatement Plant and equipment Public sewer systems ¹ Cost recovered Other	45,432 14,354 4,926 7,312 2,116 31,078 1,613 19,861 7,792 -1,473 3,285	47,805 14,854 5,791 7,285 1,778 32,951 1,437 21,321 8,269 -1,778 3,702	48,782 14,795 5,226 7,866 1,703 33,987 737 22,251 8,803 -1,609 3,805	51,881 16,622 5,276 9,742 1,604 35,259 218 23,282 9,430 -1,697 4,026	52,658 17,260 5,268 10,708 1,284 35,398 0 22,350 10,251 -1,404 4,201	55,994 18,233 5,244 11,572 1,417 37,760 0 23,710 10,934 -1,531 4,647	2,373 500 865 -27 -338 1,873 -176 1,460 477 -305 417	977 -59 -565 581 -75 1,036 -700 930 534 169 103	3,099 1,827 50 1,876 -99 1,272 -519 1,031 627 -88 221	777 638 -8 966 -320 139 -218 -932 821 293 175	3,336 973 -24 864 133 2,362 0 1,360 683 -127 446	5.2 3.5 17.6 4 -16.0 6.0 -10.9 7.4 6.1 20.7 12.7	2.0 4 -9.8 8.0 -4.2 3.1 -48.7 4.4 6.5 -9.5 2.8	6.4 12.3 1.0 23.9 -5.8 3.7 -70.4 4.6 7.1 5.5 5.8	1.5 3.8 2 9.9 -19.9 .4 -4.0 8.7 -17.3 4.3	6.3 5.6 5 8.1 10.4 6.7 6 6.1 6.7 9.0
Government	17,842 10,035 7,807	18,158 9,629 8,529	18,908 9,412 9,496	20,169 9,822 10,347	20,589 9,340 11,249	21,315 9,305 12,010	316 -406 722	750 -217 967	1,261 410 851	420 -482 902	726 -35 761	1.8 -4.0 9.2	4.1 -2.3 11.3	6.7 4.4 9.0	2.1 -4.9 8.7	3.5 4 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.} 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

^{1.} Spending to operate public sewer systems is classified in the national income and product accounts as busi-

^{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). vised 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 spend-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

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

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

^p Preliminary.

^{2.} Operation of $_{\rm PA}$ capital refers to operation, maintenance, and minor repairs of $_{\rm PA}$ capital.

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. 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.

Percent

П

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

Millions of constant (1987) dollars

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

		cent	II				WIIIIONS OF	constant (19	or) uollais			
	1972–80 average annual growth rate	1980–92 average annual growth rate	1972	197	73 1	974	1975	1976	1977	1978	1979	1980
Pollution abatement and control	4.5	2.4	46,0	32 49	9,683	52,098	57,246	60,139	61,703	64,680	65,878	65,590
Personal consumption	9.8 21.1 1.2	3 3.6		94	4,543 1,425 3,118	4,950 1,394 3,555	6,172 2,528 3,644	6,736 3,199 3,536	7,158 3,606 3,552	3,795	7,165 4,001 3,164	7,297 4,602 2,694
Business	3.0 1.2 23.9 0 -3.5 4.3 7.3 4.8 6.0 -2.8	3.0 1.4 6.0 .7 -3.8 3.8 	14,1; 44 10,66 3,00 17,5- 1,1; 10,6- 3,1!	38 14 59 54 10 55 3 48 18 77 41 10 57 3	3,482 4,830 711 0,865 3,254 8,651 1,578 0,832 3,510 2,732	33,881 15,039 840 11,226 2,973 18,842 1,990 10,644 3,614 2,594	34,270 15,001 1,374 11,626 2,001 19,269 2,157 11,112 3,722 2,278	35,995 15,315 1,623 11,509 2,183 20,680 2,146 12,382 4,032 2,120	38,424 15,822 1,902 11,392 2,528 22,602 2,244 13,661 4,399 2,302	15,620 2,172 10,667 2,781 24,380 2,361 14,763 4,763	41,154 16,140 2,498 10,889 2,753 25,015 2,230 15,353 4,997 2,436	40,173 15,512 2,609 10,635 2,268 24,661 2,068 15,469 5,100 2,024
Government Public sewer system fixed capital 3 Other 4	6.6 9.8 3.4	2.2 7 5.0	4,80)1	1,658 5,136 6,522	13,267 6,451 6,816	16,803 9,426 7,377	17,409 9,945 7,464	16,122 8,456 7,666	9,508	17,558 9,710 7,848	18,121 10,148 7,973
					Mill	ions of co	onstant (1987	') dollars				
	1981	1982	1983	1984	1985	1986	6 198	7 1988	1989	1990	1991	1992 <i>p</i>
Pollution abatement and control	63,613	61,714	63,836	68,913	72,813	77,	,487 77	,649 81,	465 81,	83,90	1 83,348	87,594
Personal consumption	8,472 5,893 2,579	8,494 5,834 2,660	9,990 7,105 2,885	11,040 8,186 2,855	11,935 8,961 2,973	9,	,710 8	,075 12, ,799 10, ,276 2,	039 9,4	138 8,65 167 8,46 1971 19	6,755	7,019
Business On capital account Motor vehicle emission abatement Plant and equipment Other On current account Motor vehicle emission abatement Plant and equipment Public sewer systems 1 Other 2	39,010 15,241 3,306 10,209 1,726 23,770 2,040 14,839 5,297 1,594	37,615 13,968 3,170 9,397 1,401 23,647 2,064 14,069 5,616 1,898	38,461 13,106 3,807 7,309 1,990 25,355 2,147 15,369 5,959 1,880	41,635 15,099 5,057 7,852 2,190 26,537 2,130 16,289 6,149 1,969	43,874 15,189 5,282 7,711 2,196 28,686 2,156 17,482 6,550 2,498	14, 5, 7, 2, 31, 2, 19, 7,	953 14 152 4 475 7 326 2 135 32 179 1 098 19 285 7	,354 14, ,926 5, ,312 7, ,116 1, ,198 34, ,613 1, ,861 21, ,792 8,	791 5,285 7,1778 1,778 35,437 22,269 8,4	795 16,62 226 5,27 366 9,74 703 1,60 122 36,09 737 21	17,260 5,268 2 10,708 4 1,284 4 36,398 8 0 12 22,350 10,251 4 3,797	1,417 38,714 0 23,710 10,934 4,070
Government	16,131 8,270 7,861	15,605 7,679 7,926	15,385 7,063 8,322	16,238 7,791 8,447	17,003 8,124 8,879	8,	807 10			112 9,82	2 9,340	23,628 9,305 14,323

^p Preliminary

^{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.

^{1.} Spending to operate public sewer systems is classified in the national income and product accounts as busi-

For this table, private purchases for research and development are included with business pollution abatement spending on current account.

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.

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

	Per	rcent					Millions of	constant (1987) dollars			
	1972–80 average annual growth rate	1980–92 average annual growth rate	1972	197	73 1	974	1975	1976	1977	1978	1979	1980
Pollution abatement and control	4.5	2.4	46,0	032	49,683	52,098	57,246	60,139	61,703	64,680	65,878	65,590
Pollution abatement	4.6	2.7	42,8	314	46,166	48,460	53,587	56,230	57,485	60,279	61,423	61,305
Air 1	5.1	2	16,4		18,272	19,004	21,291	21,903	22,855	23,713	24,429	24,486
Mobile sources ² Emission abatement devices	11.3 22.1	.2 4.5		096 463	6,832 2,136	7,780 2,235	9,703 3,902	10,505 4,822	11,300 5,508	11,959 5,967	11,893 6,498	11,973 7,211
Operation of these devices	3.4		3,6	533	4,696	5,545	5,802	5,682	5,792	5,992	5,395	4,762
Stationary sources	1.3 .5	6 -1.0	11,3	203	11,440 6,499	11,224 6,895	11,588 6,988	11,399 6,225	11,555 5,938	11,754 5,842	12,536 6,181	12,513 6,446
Industrial 3	0	7	6,0	047	6,348	6,729	6,781	6,014	5,655	5,628	5,892	6,044
Other ⁴ Operation of facilities	12.6 2.1	-5.5 2		156 123	151 4,941	167 4,329	208 4,600	211 5,174	283 5,617	214 5,912	290 6,355	402 6,068
Industrial	2.3	2	4,8	319	4,673	4,069	4,318	4,849	5,320	5,646	6,063	5,782
Other ⁵ Water ⁶	8 4.5	-1.7 1.8	18,7	303	268 19,732	259 21,012	281	325 25,907	297 25,483	266 26,744	292 27,255	285 26,622
Point sources	6.0	2.3	14,		15,542	17,159	20,923	22,797	22,103	23,146	23,628	23,456
FacilitiesIndustrial ³	5.7 -1.3	5		365 986	8,929 3,709	10,183 3,633	13,604 4,093	14,738 4,701	13,329 4,769	13,812 4,167	13,786 3,964	13,828 3,586
Public sewer systems	9.8	.3 7 -7.7	4,8	301	5,136	6,451	9,426	9.945	8,456	9,508	9,710	10,148
Other 7 Operation of facilities	2.4 6.3	-7.7 5.2		78 386	84 6,613	99 6,976	85 7,387	92 8,060	104 8,774	138 9,334	111 9,842	95 9,628
Industrial	6.6	3.4	2,4	182	2,756	2,896	3,066	3,498	3,838	4,010	4,296	4,131
Public sewer systems Other ⁵	6.0 8.5	6.6 3.2		197 207	3,510 347	3,614 466	3,722 599	4,032 531	4,399 537	4,763 560	4,997 549	5,100 398
Nonpoint sources	-2.8	-2.7		989	4,190	3,853	2,932	3,110	3,380	3,598	3,627	3,166
Solid waste	4.0	7.7		528	9,037	9,426	9,499	9,744	10,512	11,318	11,356	11,850
Industrial Other ⁸	6.5 1.6	6.7 8.8	3,9	971 657	4,211 4,826	4,543 4,884	4,481 5,018	4,831 4,913	5,471 5,041	5,979 5,339	6,026 5,330	6,562 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
Äir Water	2.8 9.2	3 -1.1		387 375	420 464	430 558	441 576	405 639	450 679	483 695	490 679	483 757
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 8	-3.1 -2.9		259 466	2,327 1,510	2,297 1,397	2,313 1,225	2,507 1,336	2,705 1,476	2,779 1,590	2,747 1,598	2,413 1,375
Water	-2.5	-1.5	:	388	431	353	345	353	364	371	383	317
Solid waste Other ⁹	0 8.8	4.4 -6.3		74 331	76 311	81 466	87 656	76 742	71 794	61 757	60 707	74 648
			Ш			Millions of con	stant (1987) d	ollare				
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992 <i>p</i>
Pollution abatement and control	63,614	61,714	63,836	68,913	72,813	77,48	37 77,6	49 81,4	465 81,66	4 83,901	83,348	87,594
Pollution abatement	59,681	58,115	60,465	65,812	69,772		1	1 '	1	1	1 '	84,328
Air ¹	25,688	24,976	25,906	28,164	29,050						22,903	23,900
Mobile sources ² Emission abatement devices	13,818 9,199	13,728 9,003	15,943 10,911	18,228 13,243	19,373 14,244							12,264 12,264
Operation of these devices	4,619	4,724	5,032	4,985	5,129	5,30	00 3,8	89 3,4	1,70	414	0	0
Stationary sources	11,896 6,283	11,248 5,761	9,963 4,325	9,936 4,246	9,677 3,692				9,580 328 3,379		10,880 5,009	11,637 5,740
Industrial 3	5,851	5,301	3,879	3,900	3,409	3,65	54 3,4	82 3,	138 3,18	1 3,879	4,814	5,538
Other ⁴ Operation of facilities	432 5,587	460 5,487	445 5,639	346 5,690	283 5,986	6,37			190 199 332 6,20			203 5,897
Industrial	5,360 226	5,263 224	5,353 286	5,418 272	5,730 256	6,14	42 5,8		089 5,969 243 230			5,664 233
Other ⁵ Water ⁶	23,892	23,227	23,328	24,900	26,017							32,993
Point sources	21,259	20,896	20,429	21,791	22,926	24,48	39 26,4	38 26,0	644 27,61	2 30,058	29,892	30,704
FacilitiesIndustrial ³	11,657 3,306	10,912 3,145	9,705 2,564	10,676 2,807	10,997 2,771				218 12,510 539 3,040			13,044 3,702
Public sewer systems	8,270	7,679	7,063	7,791	8,124	8,80	07 10,0	35 9,6	629 9,41	9,822	9,340	9,305
Other 7 Operation of facilities	9,602	9,984	77 10,724	78 11,115	102 11,929	13,02		62 73 14,4	50 5: 426 15,10:		16,544	36 17,661
IndustrialPublic sewer systems	4,011 5,297	4,062 5,616	4,231 5,959	4,389 6,149	4,590 6,550			5,4	467 5,613 269 8,803		5,623 10,251	6,146 10,934
Other 5	293	306	534	577	789	78	30 7	24	680	668	670	581
Nonpoint sources	2,633	2,331	2,899	3,109	3,091		1 '		582 2,553		2,158	2,289
Solid waste	11,698 6,521	11,135 5,694	12,401 6,651	13,922 7,628	15,666 8,694							28,713 14,232
Other ⁸	5,177	5,441	5,750	6,294	6,972				392 10,970			14,481
Other 9	-1,597	-1,222	-1,170	-1,173	-961							-1,279
Regulation and monitoring	1,810	1,709 400	1,608 383	1,506 390	1,361 376	1,58			543 1,65° 430 45°		1,654 488	1,619 467
Water	445 677	606	548	525	566	60	06 5	83	617 610	597	608	467 660
Solid waste Other ⁹	286 401	294 409	186 491	202 390	277 143				371 369 225 220			993 152
Research and development	2,123	1,890	1,763	1,596	1,678				792 1,879			1,648
Air	1,178	1,061	952	916	1,086	1,08	38 1,0	1,1	103 1,114	4 866	992	961
WaterSolid waste	292 81	281 80	273 98	238 91	234	11	19 1	13	241 26: 119 15:	3 150	135	266 124
Other 9	572	468	440	350	261				329 350		302	298

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). 2, table 7).

<sup>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</sup>

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.

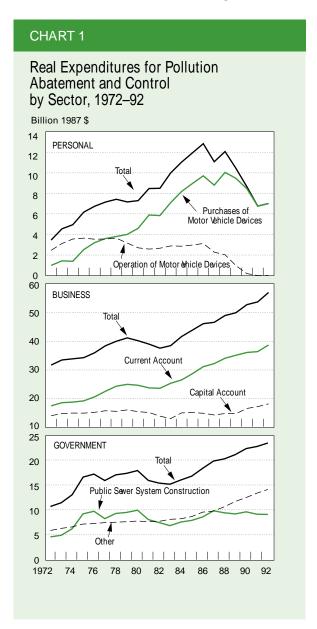
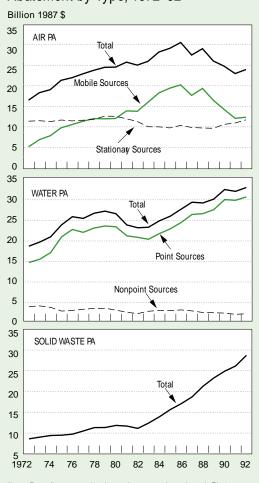


CHART 2

Real Expenditures for Pollution Abatement by Type, 1972–92



Note.—Expenditure categories abevare the same as those shown in able 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. 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

			197	2-91					197	2-80					1980)-91		
	Cı	rrent doll	ars	Cor	nstant dol	lars	Cu	rrent dolla	ars	Coi	nstant doll	ars	Cu	rrent doll	ars	Con	stant doll	ars
	Previ- ously pub- lished	Re- vised	Revi- sion	Previ- ously pub- lished	Re- vised	Revi- sion	Previously published	Re- vised	Revi- sion	Previ- ously pub- lished	Re- vised	Revi- sion	Previ- ously pub- lished	Re- vised	Revi- sion	Previ- ously pub- lished	Re- vised	Revi- sion
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 Regulation and monitoring Research and development	9.3 8.8 7.4	9.8 8.9 4.8	.5 .1 –2.6	3.1 2.8 1.0	3.3 2.9 –1.5	.2 .1 –2.5	15.0 17.1 9.9	15.1 17.1 9.9	.1 0 0	4.9 8.7 .8	4.6 8.7 .8	3 0 0	5.4 3.1 5.7	6.1 3.4 1.3	.7 .3 –4.4	1.8 -1.4 1.1	2.4 -1.1 -3.2	.6 .3 -4.3
By sector:																		
Personal consumption Business Government	9.3 9.0 9.9	9.4 9.3 10.4	.1 .3 .5	3.5 2.7 3.6	3.6 2.8 4.0	.1 .1 .4	21.9 13.4 15.8	21.8 13.5 15.6	1 .1 2	9.8 3.4 6.7	9.8 3.0 6.6	0 4 1	.9 5.9 5.8	1.1 6.4 6.7	.2 .5 .9	9 2.2 1.3	7 2.7 2.2	.2 .5 .9
By major type:																		
Air Water Solid waste	8.0 9.1 11.6	7.8 9.0 12.9	2 1 1.3	1.6 2.9 4.9	1.5 2.8 6.0	1 1 1.1	17.0 14.2 13.2	16.7 14.2 12.7	3 0 5	4.9 4.5 5.0	4.7 4.5 4.2	2 0 8	2.0 5.5 10.5	1.8 5.4 13.0	2 1 2.5	6 1.8 4.9	7 1.6 7.4	1 2 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

CHART 3 Expenditures, Real Expenditures, and Fixed-Weighted Price Index for Pollution Abatement and Control, 1972-92 Billion \$ (Ratio Scale) 100 90 80 **EXPENDITURES** 70 Previously Published 60 50 40 Revised 30 20 Billion 1987 \$ (Ratio Scale) REAL EXPENDITURES 100 90 80 Previously Published 70 60 50 40 Revised 30 Index (1987=100) (Ratio Scale) 150 FIXED-WEIGHTED PRICE INDEX Revised 100 90 80 70 60 Previously Published 50 40 30 1972 74 76 78 80 82 84 86 88 90 Note.—Pollution Abatement Control APC) expenditures consist ofxpenditures for the direct abatement of pollution (P, for regulation and monitoring, and for U.S. Department of Commerce, Bureau of Economic Analysis

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

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

BOC Bureau of Census BEA Bureau of Economic Analysis

DOE Department of Energy

purchasers' and suppliers' data is difficult to de-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 informa-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

		LIXE	a-vveig	iileu r	nice in	uexes,	1912-	·32								
Line									Total 1							
		1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
								Mill	ions of dol	lars						
1	Pollution abatement and control	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 4 5	Personal consumption	1,350 473 877	1,867 679 1,188	2,331 702 1,629	3,235 1,384 1,851	3,783 1,863 1,920	4,293 2,211 2,082	4,780 2,506 2,274	5,430 2,855 2,575	6,558 3,552 3,006	8,122 4,823 3,299	8,287 4,964 3,323	9,742 6,201 3,541	10,839 7,354 3,485	11,991 8,309 3,682	12,385 9,385 3,000
6 7 8	Business On capital account	10,639 5,463 5,176	12,261 6,239 6,022	14,680 7,195 7,485	16,554 8,004 8,551	18,453 8,659 9,794	21,067 9,520 11,547	23,463 10,119 13,343	26,927 11,493 15,434	29,706 12,089 17,617	32,370 13,055 19,315	33,092 12,567 20,525	34,804 12,026 22,779	39,032 14,214 24,818	42,058 14,598 27,460	43,954 14,659 29,295
9 10 11	Private Government enterprise Costs recovered	4,404 1,151 -379	5,078 1,342 –398	6,388 1,635 –538	7,348 1,896 -693	8,461 2,221 -887	9,906 2,608 -966	11,365 3,053 -1,074	13,272 3,522 -1,360	15,149 4,078 –1,610	16,402 4,701 -1,788	16,675 5,314 -1,463	18,375 5,805 -1,402	20,056 6,228 -1,465	21,972 6,722 -1,233	23,382 7,359 -1,446
12 13 14	Government Federal State and local	3,409 139 1,311	3,883 203 1,433	4,958 294 1,592	6,896 432 1,752	7,619 469 1,834	7,378 490 1,965	8,698 472 2,212	9,915 548 2,461	11,088 494 2,768	10,660 506 3,144	10,942 550 3,484	11,346 795 3,842	12,690 944 4,280	14,220 1,225 4,858	15,772 1,346 5,515
15 16 17	Government enterprise purchases of fixed capital	1,959 367 200	2,246 490 278	3,072 595 346	4,713 653 381	5,316 725 402	4,924 833 429	6,015 949 507	6,906 1,067 593	7,825 1,296 793	7,011 1,378 818	6,908 1,397 820	6,709 1,385 806	7,466 1,362 743	8,137 1,279 575	8,912 1,532 715
18	State and local	167	212	248	272	323	404	442	474	502	560	577	579	619	705	817
19 20 21 22	Research and development Private Federal State and local	823 519 205 99	903 569 269 65	988 608 342 39	1,104 609 448 47	1,279 706 528 45	1,478 849 578 51	1,647 999 592 57	1,777 1,143 564 71	1,751 1,096 591 64	1,711 1,037 646 28	1,641 1,009 604 28	1,595 920 640 35	1,501 879 590 32	1621.1 1,010 591 20	1,746 1,063 651 31
							N	fillions of o	constant (1	987) dolla	rs					
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 26 27	Personal consumption	3,450 994 2,456	4,543 1,425 3,118	4,950 1,394 3,555	6,172 2,528 3,644	6,736 3,199 3,536	7,158 3,606 3,552	7,426 3,795 3,631	7,165 4,001 3,164	7,297 4,602 2,694	8,472 5,893 2,579	8,494 5,834 2,660	9,990 7,105 2,885	11,040 8,186 2,855	11,935 8,961 2,973	12,831 9,710 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 30	On capital account On current account	14,138 16,105	14,830 17,166	15,039 17,419	15,001 17,986	15,315 19,288	15,822 21,039	15,620 22,694	16,140 23,255	15,512 23,161	15,241 22,491	13,968 22,494	13,106 24,348	15,099 25,610	15,189 27,645	14,953 30,049
31 32 33	Private Government enterprise Costs recovered	13,745 3,344 –985	14,402 3,658 -893	14,654 3,760 -994	15,335 3,833 -1,182	16,568 4,167 -1,447	17,999 4,526 -1,487	19,323 4,902 -1,531	19,800 5,160 -1,705	19,643 5,285 -1,766	18,837 5,453 -1,799	18,189 5,769 -1,464	19,622 6,119 -1,392	20,721 6,310 -1,421	22,154 6,707 -1,217	24,095 7,447 -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 36 37	Federal	402 3,693 5,027	539 3,723 5,364	688 3,660 6,705	937 3,782 9,708	953 3,701 10,237	917 3,717 8,832	809 3,878 9,852	840 3,917 10,106	679 4,015 10,641	627 4,070 8,780	649 4,287 8,224	911 4,527 7,583	1,048 4,803 8,212	1,300 5,200 8,505	1,402 5,726 9,149
38 39 40	Regulation and monitoring	959 483 476	1,190 628 562	1,340 735 605	1,346 741 606	1,403 736 666	1,514 736 778	1,622 825 796	1,708 906 801	1,873 1,110 763	1,810 1,040 770	1,709 982 727	1,608 922 685	1,506 814 693	1,361 608 754	1,589 744 845
41 42 43 44	Research and development Private Federal State and local	2,259 1,443 549 268	2,327 1,485 676 166	2,297 1,423 782 92	2,313 1,283 926 104	2,507 1,392 1,022 93	2,705 1,563 1,043 99	2,779 1,686 990 103	2,747 1,760 870 117	2,413 1,500 816 97	2,123 1,279 805 39	1,890 1,153 701 36	1,763 1,007 713 43	1,596 927 632 37	1,678 1,041 615 22	1,788 1,086 670 32
							Sel	ected fixed	d-weighted	price inde	exes					
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 49	BusinessOn capital account	35.9 41.3	38.4 43.5	44.8 48.2	49.5 53.3	52.9 56.7	56.7 60.3	60.7 64.9	67.5 71.1	75.8 77.5	84.6 84.7	89.3 88.9	92.0 91.5	95.3 94.0	97.7 96.2	97.7 98.0
50 51	On current account Government	33.4 37.7	36.1 40.6	43.2 44.8	47.7 47.8	51.1 51.1	55.0 54.6	58.8 59.4	65.9 66.1	75.0 71.8	84.5 78.9	89.5 83.1	92.2 87.1	95.9 90.2	98.5 94.8	97.5 96.9
52	Regulation and monitoring	37.7	40.6	43.7	47.7	51.1	54.6	58.1	62.0	68.4	75.4	81.2	85.7	90.2	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
								Mill	ions of dol	lars						
E 4	Addardum: Rucinocs capital agraymation allows		T		T	T		Ī	T		Ī	П		T	T	
54 55	Addendum: Business capital consumption allowances: 5 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

	Fixe	d-Weig	ghted	Price I	ndexe	s, 1972	-92—C	ontinu	ed							
				1987					1988					1989		
Line		Total 1	Air	Water	Solid waste	Other and un- allocat- ed ²	Total ¹	Air	Water	Solid waste	Other and un- allocat- ed ²	Total ¹	Air	Water	Solid waste	Other and unallocated 2
								Mill	ions of do	llars						
1	Pollution abatement and control	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 4 5	Personal consumption Durable goods ³ Nondurable goods ⁴	11,075 8,799 2,276	11,075 8,799 2,276				12,284 10,247 2,037	12,284 10,247 2,037				10,944 9,865 1,079	10,944 9,865 1,079			
6 7	Business On capital account	45,432 14,354	16,005 8,408	18,168 4,493	12,731 1,452	-1,472	49,107 15,276	17,000 9,176	18,850 4,209	15,121 1,890	-1,865	52,217 15,670	16,136 8,884	20,792 4,777	17,062 2,010	-1,773
8 9	On current account Private	31,078 24,602	7,597 7,456	13,675 5,867	11,278 11,278	-1,472	33,831 27,151	7,824 7,656	14,641 6,264	13,231 13,231	-1,865	36,547 28,820	7,252 7,091	16,015 6,677	15,052 15,052	-1,773
10 11	Government enterprise Costs recovered	7,949 -1,473	141	7,808	(*)	1 -1,473	8,547 -1,867	168	8,377	(*)	2 -1,867	9,502 -1,775	161	9,338	(*)	2 -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 14 15	Federal State and local Government enterprise purchases of fixed capital	1,237 6,266 10,339	80 15 246	707 452 10,094	250 5,718	200 82	1,402 7,283 10,167	65 10 200	707 484 9,967	300 6,734	330 55	1,379 8,705 10,299	70 12 213	729 489 10,086	300 8,138	280 65
16 17 18	Regulation and monitoring	1,519 700 819	410 110 300	583 250 333	300 120 180	226 220 6	1,695 850 845	440 120 320	635 300 335	385 200 185	235 230 5	1,803 860 943	490 130 360	670 310 360	400 180 220	243 240 3
19 20	Research and development	1,781 1,120	1,089 887	253 113	113 19	326 101	1,872 1,179	1,155 934	252 119	123 20	342 106	2,044 1,241	1,216 984	285 125	165 21	379 112
21 22	Federal State and local	630 31	200	120 20	90	220	665	220 1	115 18	100	230	770	230	140 20	140 4	260 7
							l l	fillions of o	constant (1	1987) dolla	ars					
23	Pollution abatement and control	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 27	Durable goods ³ Nondurable goods ⁴	8,799 2,276	8,799 2,276				10,039 2,028	10,039 2,028				9,467 971	9,467 971			
28 29	Business	45,432 14,354	16,005 8,408	18,168 4,493	12,731 1,452	-1,472	47,805 14,854	16,625 8,928	18,444 4,089	14,512 1,836	-1,776	48,782 14,795	15,273 8,411	19,539 4,510	15,577 1,874	-1,607
29 30 31	On current account	31,078 24,602	7,597 7,456	13,675 5,867	11,278 11,278	-1,472 	32,951 26,274	7,696 7,526	14,355 6,073	12,676 12,676	-1,776 	33,987 26,620	6,862 6,702	15,029 6,214	13,703 13,703	-1,607
32 33	Government enterprise	7,949 -1,473	141	7,808	(*)	1 -1,473	8,455 -1,778	170	8,283	(*)	-1,778	8,977 -1,609	160	8,815	(*)	-1,609
34 35	Government Federal	17,842 1,237	341 80	11,252 707	5,968 250	282 200	18,158 1,340	263 64	10,781 675	6,753 292	361 309	18,908 1,271	271 66	10,625 670	7,701 283	311 252
34 35 36 37	State and local Government enterprise purchases of fixed capital	6,266 10,339	15 246	452 10,094	5,718	82	6,953 9,866	10 190	431 9,676	6,461	52	7,982 9,655	11 195	495 9,460	7,418	59
38	Regulation and monitoring	1,519	410	583	300	226	1,643	430	617	371	225	1,657	452	616	369	220
39 40	FederalState and local	700 819	110 300	250 333	120 180	220 6	814 829	115 315	287 329	192 180	220 5	780 877	118 334	281 334	163 206	218 3
41 42	Research and development	1,781 1,120	1,089 887	253 113	113 19	326 101	1,792 1,123	1,103 890	241 113	119 19	329 101	1,879 1,135	1,114 899	262 114	153 19	350 102
43 44	Federal State and local	630	200	120 20	90 4	220	643	213	111 17	97	222	715	213	130	130	241
							Sel	ected fixed	d-weighted	price ind	exes					
45	Pollution abatement and control	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 49	Business	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0	102.8 102.9	102.4 103.0	102.2 102.9	104.2 102.9	105.0	107.0 105.9	106.0 105.9	106.4 105.6	109.6 107.2	110.3
50	On current account	100.0	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 53	Regulation and monitoring Research and development	100.0	100.0	100.0	100.0	100.0	103.1	102.4 105.0	102.9 104.2	103.6 103.7	104.4	108.8	108.5 109.4	108.8 108.7	108.3 108.2	110.2 108.3
ວວ	позвани ани истонринени	100.0	100.0	100.0	100.0	100.0	104.4	100.0	104.2	103.7	103.8	100.0	109.4	100.7	100.2	100.3
								Mill	ions of do	llars						
54	Addendum: Business capital consumption allowances: 5															
55 56	Valued at replacement cost in current dollars	15,505 15,285					15,929 15,276					15,880 14,708				
	- a.a.a.a. at representative cost in constant (1901) deliais	10,200					10,210					1-7,700				

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

	Fixe	d-Weig	ghted	Price I	ndexe	s, 1972	-92—C	ontinu	ed							
				1990					1991					1992 <i>P</i>		
Line		Total 1	Air	Water	Solid waste	Other and un- allocat- ed ²	Total 1	Air	Water	Solid waste	Other and un- allocat- ed ²	Total ¹	Air	Water	Solid waste	Other and unallocated 2
								Mill	ions of do	llars						
1	Pollution abatement and control	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 4 5	Personal consumption Durable goods 3 Nondurable goods 4	9,238 8,943 295	9,238 8,943 295				7,394 7,394 0	7,394 7,394 0				7,896 7,896 0	7,896 7,896 0			
6 7	Business On capital account	57,492 17,904	17,064 9,820	23,430 5,720	18,920 2,364	-1,922	59,618 19,043	17,610 11,128	23,580 5,395	19,997 2,520	-1,569	64,825 20,508	18,667 12,095	25,067 5,332	22,804 3,081	-1,712
8	On current account Private	39,588 31,077	7,244 7,083	17,710 7,438	16,556 16,556	-1,922	40,574 30,912	6,482 6,320	18,185 7.116	17,476 17,476	-1,569	44,318 34,009	6,571 6,411	19,735 7,875	19,723 19,723	-1,712
10 11	Government enterprise Costs recovered	10,435 -1,924	161	10,272	(*)	2 -1,924	11,233 -1,571	162	11,069	(*)	2 -1,571	12,022 -1714	160	11,860	(*)	2 -1714
12	Government	22,587	289	12,079	9,870	349 281	23,906	308	12,013	11,252	334	25,414	327	12,095	12,692	300
13 14 15	Federal State and local Government enterprise purchases of fixed capital	1,391 10,161 11,035	71 13 205	734 514 10,831	304 9,565	68	1,417 11,547 10,942	73 16 219	753 537 10,723	341 10,911	250 83	1,215 13,086 11,113	75 22 230	656 556 10,883	281 12,411	203 97
16	Regulation and monitoring	1,784	476	649	408	250	1,868	533	677	427	231	1,848	526	741	401	180
17 18	Federal	877 907	133 343	307 342	191 217	245 5	900 968	175 358	301 376	201 226	223 8	842 1,006	185 341	290 451	191 210	176 5
19 20	Research and development	1,772 945	982 749	284 95	171 16	336	2,013 1,176	1,174 932	315 118	162 20	362.1 106	1,971 1,131	1,144 896	320 114	149 19	358 102
21 22	Federal State and local	777 51	231	151 38	151 4	336 85 244 7	790 47	240	160 36	139	250 6	803 37	247 1	178 28	127	252 4
23	Pollution abatement and control						'					'		_ ^	,	- 829 -1,279
24 25	Pollution abatement	8,657	8,657	32,509	24,905	-1,395	6,755	6,755	32,050	20,171	-1,123	7,019	7,019	32,993	20,713	-1,279
26 27	Durable goods ⁴ Nondurable goods ⁴	8,460 197	8,460 197				6,755	6,755 0				7,019 0	7,019 0			
28 29 30	Business On capital account	51,881 16,622	15,772 9,155	21,437 5,323	16,367 2,144	-1,695	52,658 17,260	15,877 10,082	21,432 4,950	16,751 2,227	-1,402	55,994 18,233	16,596 10,782	22,478 4,794	18,448 2,658	-1,529
31	On current account	35,259 27,362	6,618 6,464	16,114 6,675	14,222	-1,695 	35,398 26,384	5,795 5,644	16,482 6,216	14,524 14,524	-1,402 	37,760 28,192	5,814 5,664	17,685 6,738	15,790 15,790	-1,529
32 33	Government enterprise Costs recovered	9,594 -1,697	154	9,439	(*)	-1,697	10,418 -1,404	150	10,266	(*)	-1,404	11,099 -1,531	151	10,946	(*)	-1,531
34 35	Government Federal	20,169 1,228	258 62	11,073 656	8,538 269	300 241	20,589 1,220	271 63	10,618 652	9,421 296	279 209	21,315 1,041	285 64	10,514 565	10,265 242	251 170
36 37	State and local	8,864 10,077	11 185	524 9,892	8,269	59	9,770 9,599	14 195	562 9,404	9,125	70	10,734 9,540	18 203	613 9,337	10,023	81
38 39	Regulation and monitoringFederal	1,636 771	446 117	597 270	372 168	220 216	1,654 761	488 148	608 255	363 170	195 188	1,619 709	467 156	660 245	339 161	152 148
40	State and local	865	330	327	204	4	893	340	354	193	6	909	311	416	179	4
41 42	Research and development	1,560 835	866 662	249 84	150 14	295 75	1,692 1,000	992 792	263 101	135 17	302 90	1,648 954	961 756	266 96	124 16	298 86
43 44	Federal State and local	681 43	203 1	132 33	133 3	214 6	654 39	199 2	133 29	115 3	207 5	664 30	204 1	147 23	105 2	208 3
						'	Sele	ected fixed	d-weighted	price ind	exes					
45	Pollution abatement and control	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 49	BusinessOn capital account	111.1 107.5	109.7 107.4	109.2 107.0	115.7 110.3	113.4	113.5 110.1	112.3 110.4	110.2 108.4	119.5 113.1	111.9	115.8 112.0	113.5 112.2	111.7 110.5	123.9 115.9	112.0
50	On current account	112.7	112.3	110.0	116.4	113.4	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 53	Regulation and monitoring	109.0 113.5	106.7 113.1	108.5 113.9	109.5 114.0	114.0 113.8	113.4 118.9	108.8 117.7	111.7 119.5	119.1 120.3	118.5 119.9	115.1 119.5	111.9 118.6	113.2 120.0	120.1 120.6	119.0 120.2
JJ	посостат апи истопуннин	113.3	113.1	113.8	114.0	113.0	110.8	11/./	118.0	120.3	113.3	118.0	110.0	120.0	120.0	120.2
								Mill	ions of do	llars						
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				4. Nonduro	10,064	to of open	ding to on	oroto mot	or vahiola	10,173	otomont (
" PI	eliminary.					4. INONGUľa	bles consist	is ui sden	uitiu to ob	erate mot	ui venicie	ennission at	atement (JEVICES.		

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

<sup>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.</sup>

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
							Milli	ions of dolla	irs				,		
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) Motor vehicle emission abatement Plant and equipment ² Residential systems ³ Agricultural business ⁴	5,207 220 3,954 1,030 3	5,902 334 4,263 1,302	6,794 416 5,103 1,268 7	7,601 747 5,901 946 7	8,205 939 6,135 1,123	8,928 1,160 6,347 1,412	9,529 1,429 6,412 1,683	10,731 1,779 7,096 1,852	11,258 2,011 7,606 1,637	12,069 2,706 8,017 1,344	11,598 2,699 7,772 1,124	11,125 3,325 6,051 1,747	13,027 4,546 6,478 1,999	12,987 4,901 6,065 2,018	13,277 4,982 6,158 2,135
On current account (line 8) Private (line 9) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 Government enterprise (line 10)	3,813 2,662 420 2,034 209	4,497 3,155 603 2,327 225	5,754 4,120 925 2,955 240	6,790 4,896 1,106 3,533 256	7,895 5,676 1,172 4,228 274	9,304 6,697 1,316 5,081 296	10,656 7,603 1,477 5,800 322	12,687 9,166 1,803 7,008 351	14,477 10,399 2,262 7,749 384	15,835 11,135 2,536 8,185 408	16,881 11,568 2,513 8,612 436	17,950 12,145 2,581 9,090 468	18,946 12,719 2,555 9,642 513	20,240 13,519 2,631 10,321 559	20,922 13,564 2,094 10,909 553
Agricultural dusiness Government enterprise (line 10)	(*) 1,151 26 1,124 (*)	1,342 33 1,308	1,634 62 1,571 1	1,895 53 1,842 (*)	2,220 66 2,153	3 2,607 69 2,537 (*)	3,053 83 2,970	5 3,521 118 3,403 1	5 4,078 161 3,917 (*)	6 4,700 153 4,547 1	5,313 153 5,159 2	5,805 161 5,642 2	6,227 165 6,059 2	6,721 161 6,557 3	7,358 154 7,201 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) Federal except highways Highway erosion abatement State and local (line 14) State and local except highways Highway erosion abatement Government enterprise fixed capital (line 15) Publicly owned electric utilities Public sewer systems 5	131 126 2 171 (*) 171 1,959 92 1,867	181 176 5 171 (*) 171 2,246 97 2,149	252 248 4 189 (*) 189 3,072 128 2,945	358 353 5 211 1 210 4,713 159 4,553	362 357 5 205 1 204 5,316 174 5,142	385 379 6 189 1 188 4,924 237 4,687	406 400 7 218 (*) 218 6,015 232 5,783	450 442 9 257 (*) 257 6,906 291 6,615	369 362 7 299 (*) 299 7,825 397 7,429	305 293 12 286 (*) 286 7,011 444 6,567	325 316 8 277 (*) 276 6,908 501 6,407	579 572 8 294 4 290 6,709 487 6,222	607 599 8 351 14 337 7,466 409 7,057	823 816 7 403 12 391 8,137 373 7,765	795 788 6 440 14 426 8,912 337 8,575
							Millions of o	constant (19	87) 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) Motor vehicle emission abatement Plant and equipment ² Residential systems ³ Agricultural business ⁴	13,431 469 10,033 2,923 6	13,940 711 10,057 3,166 6	14,093 840 10,362 2,881 10	14,171 1,374 10,874 1,914	14,444 1,623 10,715 2,097	14,778 1,902 10,424 2,442 10	14,670 2,172 9,795 2,698	15,028 2,498 9,856 2,670	14,430 2,609 9,630 2,189	14,113 3,306 9,157 1,648	12,936 3,170 8,446 1,318	12,152 3,807 6,444 1,900	13,844 5,057 6,706 2,078	13,530 5,282 6,180 2,065	13,564 5,152 6,241 2,168
On current account (line 30) Private (line 31) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 Government enterprise (line 32)	12,297 8,954 1,177 7,301 475	13,156 9,499 1,578 7,430 491	13,218 9,462 1,990 6,965 505	13,888 10,057 2,157 7,384 514	15,183 11,018 2,146 8,347 523	16,460 11,936 2,240 9,158 534	17,470 12,568 2,361 9,657 547	18,313 13,154 2,230 10,360 559	17,841 12,557 2,068 9,914 572	17,445 11,993 2,040 9,371 579	17,742 11,973 2,064 9,326 579	18,440 12,321 2,147 9,584 586	18,846 12,537 2,130 9,808 592	19,787 13,081 2,156 10,319 597	21,335 13,889 2,179 11,101 601
Agricultural dusiness Government enterprise (line 32) Publicly owned electric utilities Public sewer systems ⁵ Other	(*) 3,343 145 3,197	3,657 145 3,510 2	3,756 139 3,614 3	3,831 109 3,722	4,165 132 4,032	4,524 125 4,399 1	4,901 137 4,763	5,159 161 4,997 1	5,284 184 5,100 (*)	5,452 154 5,297	5,768 151 5,616 2	6,118 157 5,959 2	6,309 158 6,149 3	6,706 153 6,550 3	7,446 159 7,285 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) Federal except highways Highway erosion abatement State and local (line 36) State and local except highways Highway erosion abatement Government enterprise fixed capital (line 37) Publicly owned electric utilities Public sewer systems 5	380 363 17 576 (*) 576 5,027 227 4,801	480 466 14 521 1 520 5,364 228 5,136	591 581 10 460 1 459 6,705 254 6,451	780 768 12 496 1 495 9,708 282 9,426	731 718 13 480 2 478 10,237 292 9,945	717 704 13 393 1 392 8,832 376 8,456	695 684 11 344 (*) 344 9,852 344 9,508	686 674 13 386 (*) 386 10,106 396 9,710	504 494 10 397 (*) 397 10,641 493 10,148	377 360 17 394 (*) 394 8,780 510 8,270	385 372 13 423 (*) 423 8,224 545 7,679	661 651 10 409 4 404 7,583 520 7,063	676 665 11 445 16 429 8,212 421 7,791	875 867 8 436 13 423 8,505 381 8,124	834 827 7 467 14 453 9,149 342 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

Table 0.—Business and Covernin		penun	ui co i	O A II (unu **	uici i i	-	חטמונ	-	iii Cuii	Cit ai	14 5011	Juil L	Jonai 3	, 1312	32 0	on and	
		1987			1988			1989			1990			1991			1992 <i>p</i>	
	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 o	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) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 On current account (line 8) Private (line 9) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 Government enterprise (line 10) Publicly owned electric utilities Public sewer systems 3	12,901 4,926 6,049 1,924 3 21,272 13,323 1,613 11,101 601 8 7,948 153 7,792	8,408 4,926 3,482 	4,493 	13,386 5,910 5,901 1,572 3 22,465 13,920 1,446 11,824 642 8,545 181 8,363	9,176 5,910 3,267 	4,209 	13,661 5,446 6,699 1,512 4 23,267 13,768 817 12,260 682 10 9,500 173 9,325	8,884 5,446 3,437 7,252 7,091 817 6,273	4,777 	15,540 5,578 8,554 1,405 3 24,954 14,521 301 13,497 714 9 10,432 168 10,262	9,820 5,578 4,243 	5,720 	16,523 5,766 9,672 1,081 3 24,667 13,436 0 12,678 749 9 11,231 176 11,052	11,128 5,766 5,362 	5,395 	17,427 5,902 10,334 1,188 3 26,306 14,286 0 13,488 789 9 12,020 170 11,845	12,095 5,902 6,194 	5,332 4,140 1,188 3 19,735 7,875 7,077 789 9 11,860 10 11,845
Other	3 11,592	341	3 11,252	11,433	275	2 11,158	3 11,599	295	3 11,305	12,368	289	2 12,079	12,321	308	3 12,013	5 12,421	327	5 12,095
Federal (line 13) Federal except highways Highway erosion abatement State and local (line 14) State and local except highways Highway erosion abatement Government enterprise fixed capital (line 15) Publicy owned electric utilities Public sewer systems 5	787 780 7 467 15 452 10,339 304 10,035	80 80 15 15 15 246 246	707 700 7 452 452 10,094 58 1,035	772 765 7 494 10 484 10,167 248 9,918	65 65 10 10 200 200	707 500 7 484 484 9,967 49 9,918	799 795 4 501 12 489 10,299 265 10,034	70 70 70 12 12 213 213	729 725 4 489 	805 802 4 528 13 514 11,035 281 10,755	71 71 13 13 205 205	734 730 4 514 514 10,831 76 10,755	826 822 4 553 16 537 10,942 289 10,653	73 73 73 16 16 16 219 219	753 749 4 537 537 10,723 70 10,653	731 727 4 578 22 556 11,113 265 10,848	75 75 75 22 22 22 230 230	656 652 4 556 556 10,883 35 10,848
								Millions	of consta	nt (1987) d	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) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 On current account (line 30) Private (line 31) Motor vehicle emission abatement Plant and equipment 2 Residential systems 3 Agricultural business 4 Government enterprise (line 32) Publicly owned electric utilities Public sewer systems 5 Other	12,901 4,926 6,049 1,924 3 21,272 13,323 1,613 11,101 601 8 7,948 153 7,792 3	8,408 4,926 3,482 	4,493 2,566 1,924 3 13,675 5,867 	13,018 5,791 5,677 1,548 3 22,051 13,598 1,437 11,557 598 7 8,453 182 8,269 2	8,928 5,791 3,138 	4,089 2,539 1,548 3 14,355 6,073 5 5,467 598 7 8,283 12 8,269 2	12,921 5,226 6,230 1,461 3 21,891 12,916 737 11,578 594 8,975 170 8,803 2	8,411 5,226 3,184 	4,510 3,046 1,461 3 15,029 6,214 	14,477 5,276 7,862 1,337 3 22,732 13,139 218 12,327 588 7 9,592 160 9,430 2	9,155 5,276 3,879 	5,323 3,983 1,337 3 16,114 6,675 6,081 588 7 9,439 7 9,430 2	15,033 5,268 8,755 1,007 3 22,276 11,860 0 11,268 586 7 10,416 162 10,251 3	10,082 5,268 4,814 	4,950 3,941 1,007 3 16,482 6,216 	15,575 5,244 9,240 1,088 3 23,499 12,402 0 11,810 584 8 11,097 159 10,934 4	10,782 5,244 5,538 5,538 5,664 0 5,664 	4,794 3,702 1,088 3,7685 6,738 6,146 584 8 10,946 8 10,934 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) Federal except highways Highway erosion abatement State and local (line 36) State and local except highways Highway erosion abatement Government enterprise fixed capital (line 37) Publicly owned electric utilities Public sewer systems 5	787 780 7 467 15 452 10,339 304 10,035	80 80 15 15 246 246	707 700 7 452 452 10,094 58 1,035	738 732 6 441 10 431 9,866 896 9,629	10 10 10 190 190	675 669 6 431 431 9,676 47 9,629	736 732 4 505 11 495 9,655 243 9,412	66 66 11 11 195 195	670 666 4 495 495 9,460 48 9,412	718 715 4 536 11 524 10,077 254 9,822	62 62 11 11 185 185	656 653 4 524 524 9,892 70 9,822	715 711 4 575 14 562 9,599 259 9,340	63 63 14 14 195 195	652 648 4 562 562 9,404 65 9,340	628 624 4 631 18 613 9,540 235 9,305	64 64 	565 560 4 613 613 9,337 32 9,305

4. Feedlot operations only; see footnote 1 to table 7.

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

<sup>P Preliminary.
Less than \$500,000.
Consists of air and water pollution abatement expenditures only.
Consists of amanufacturing companies and of privately and cooperatively owned electric utilities and other non-amanufacturing companies.

Consists of private sentic systems and sewer connections linking household plumbing to street sewers.</sup>

^{4.} Peediot Operations only, see routine 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.

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

By Mahnaz Fahim-Nader

Joseph F. Cherry, III, assisted by Michelle L. Games, Erik A. Kasari, Edward J. Kozerka, Nicole Leiker, and Deborah A. Martin, conducted the survey from which the data were drawn. Angela Roberts programmed the tables.

I N 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.

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. 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

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

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

r Revised.

^{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.

^{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).

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. 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-

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

	1987	1988	1989	1990	1991	1992 ^r	1993 <i>P</i>
Total	978	1,424	1,580	1,617	1,091	941	1,009
\$2 billion or more \$1 billion—\$1.9 billion \$100 million—\$999	1 5	5 7	4 6	5 6	1 1	0	1 1
million \$10 million—\$99 million Less than \$10 million	70 291 611	98 429 885	110 483 977	74 499 1,033	45 273 771	28 252 661	47 281 679

Revised.

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

	1988	1989	1990	1991	1992 ^r	1993 <i>p</i>
Investment outlays Number of investments	80 46	-2 11	-7 2	-61 -33	-40 -14	71 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

Revised.

filiate 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.

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 bank-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]

			[Millions of do	llarsj						
			1992 ^r					1993 ^p		
	-	By type of	investment	By type o	f investor	-	By type of	investment	By type o	f investor
	Total	Acquisitions	Establish- ments	Foreign di- rect investors	U.S. affiliates	Total	Acquisitions	Establish- ments	Foreign di- rect 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 Petroleum and coal products manufacturing Other	463 (*) 463	433 (*) 432	30 0 30	9 (*) 8	454 0 454	774 (D) (D)	708 (D) (D)	(D) (D)	31 7 24	743 (D) (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 13	265 3	139 10	(D) (D)	(D) (D)	1,387 650	1,380 650	7 0	4 4	1,383 646
Other	391	263	128	28	363	738	731	7	(*)	738
Chemicals and allied products Industrial chemicals and synthetics Drugs Soap, cleaners, and tollet goods Other	1,644 492 (^D) (P) 472	1,494 414 186 (^D) (^D)	150 78 (P) 0 (P)	(^D) (*) 0 (^D) 5	(D) 492 (D) (D) 467	5,729 (D) 874 (D) (D)	5,729 (D) 874 (D) (D)	0 0 0 0	77 (D) 62 0 (D)	5,651 (D) 812 (D) (D)
Primary and fabricated metals Primary metal industries Ferrous Nonferrous	1,187 840 691 150	793 494 344 150	393 347 347 0	646 592 592 0	540 249 99 150	1,388 597 (D)	1,165 (P) (P) (P)	223 (D) (D) 0	89 (D) 0 (D)	1,299 (D) (D) (D)
Fabricated metal products	346	300	46	54	292	791	(Þ)	(^D)	(D)	(D)
Machinery Machinery, except electrical Office and computing machines Other Electric and electronic equipment Audio, video, and communications equipment Electronic components and accessories Other	1,002 577 38 539 425 69 167 189	760 355 34 321 406 58 162 186	242 223 5 218 19 10 6	373 175 37 138 198 (*) 68 129	629 402 1 401 227 68 99 59	1,952 779 455 324 1,173 (D) (D)	1,944 773 451 321 1,171 (P) (D)	7 4 3 2 2 0 0	488 443 397 46 45 3 43 (*)	1,464 337 58 278 1,128 (P) (D)
Other manufacturing Textile products and apparel Lumber, wood, furniture, and fixtures Paper and allied products Printing and publishing Newspapers Other Rubber products Miscellaneous plastics products Stone, clay, and glass products Transportation equipment Motor vehicles and equipment Other transportation equipment Instruments and related products Other	1,778 78 (P) (P) 3 (P) (P) 302 (P) 158 21 137 314	1,269 76 (P) (P) 3 (P) 0 233 58 136 1 135 291 88	508 2 2 (P) 2 0 2 (†) 69 (P) 22 20 2 23 313	563 37 0 0 1 1 52 2 2 2 2 2 3 15	1,214 41 (P) (P) 3 (P) 0 250 (P) (P) (P) 1995 86	1,962 406 (P) 256 (P) (P) 206 229 (P) (P) (P) (P) 88	1,737 398 (P) 254 (P) 206 227 (P) 3 (P) 260 85	225 8 0 (P) 2 2 0 2 0 (°) (P) (P) (P) (P) (P) (P) (P) (P) (P) (P	290 3 0 0 7 7 0 7 (*) 1 1 178 6 3 3 7 88	1,672 404 (P) (P) 250 (P) 0 206 51 (P) (P) (P) (P) 184 71
Wholesale trade Motor vehicles and equipment Professional and commercial equipment and supplies Metals and minerals, except petroleum Electrical goods Machinery, equipment, and supplies Other durable goods Groceries and related products Farm-product raw materials Other nondurable goods	698 27 24 17 102 76 48 100 1 303	532 15 12 9 86 36 45 70 0 259	166 12 12 8 16 40 4 30 1	243 27 7 4 29 27 4 31 1 113	456 0 17 13 73 49 44 69 0	758 (P) 3 0 117 (P) 82 40 0 429	667 28 0 0 112 (P) (P) 40 0 423	90 (P) 3 0 5 (P) (P) 0 0	460 (P) (*) 0 80 (P) 59 0 0 310	298 32 3 0 37 43 24 40 0 119
Retail trade General merchandise stores Food stores Apparel and accessory stores Other	256 (D) 44 (D) 183	245 0 42 (D) (D)	11 (D) 3 0 (D)	42 4 14 2 21	214 (^D) 30 (^D) 162	1,560 0 (P) 1 (P)	1,511 0 (D) 0 (D)	49 0 0 1 48	170 0 (P) 1 (P)	1,390 0 (P) 0 (P)
Banking ¹	529	529	0	24	505	1,071	1,046	25	36	1,036
Finance, except banking ¹	797	258	539	287	510	1,166	709	457	692	473
Insurance	291	120	171	18 761	273 1 401	921	559 410	361 1 200	361	560
Real estate Services Hotels and other lodging places Business services Computer and data processing services Other business services Motion pictures, including television tape and film Engineering, architectural, and surveying services Accounting, research, management, and related services Health services Other services Other services	2,161 2,023 606 437 137 300 (P) 24 (P) 134 207	400 1,683 381 384 130 254 (P) 24 (P) 132 159	1,762 340 225 53 7 46 7 0 6 2	761 389 229 37 31 5 3 19 6 0 96	1,401 1,634 377 400 106 295 (P) 5 (P) 134	1,610 3,934 424 (P) 255 (P) (P) (P) 134 113 828	3,790 385 (P) 252 (P) 19 121 109 767	1,200 144 40 (P) 3 (P) (P) (P) 12 5	2,577 268 (P) 75 (P) (P) 0 (P) 57 57	981 1,357 157 329 179 149 0 (D) (D) 56 774
Other industries Agriculture, forestry, and fishing Mining Coal Other Construction Transportation Communication and public utilities	2,101 58 934 (P) (P) (P) (P) 874	1,834 6 898 (D) (D) (D) 709	267 52 35 7 28 0 14 165	266 44 5 0 5 (D) 195	1,835 14 929 (D) (D) (D) (D) (D) 679	1,971 (P) (P) 62 98 (P) 560	1,700 0 (P) (P) 30 98 (P) 361	271 (P) 32 0 32 (*) (P) 199	692 6 9 0 9 15 (P)	1,279 (D) (D) (D) (D) 53 84 2 (D)

 $[^]r$ Revised. $^\rho$ Preliminary. $^\mathrm{D}$ 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). 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.

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 country 2:							
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)	(P)
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	30,741	1.119	458	561
UFLU	1,077	1,919	430	301	1,119	400	301

Revised.

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

Preliminary

P Preliminary.
D Suppressed to avoid disclosure of data of individual companies.

 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.
 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 the line through 190? 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]

			Manufacturing													
	All industries	Petrole- um	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Ma- chinery	Other manu- factur- ing	Whole- sale trade	Retail trade	Bank- ing ¹	Fi- nance, except bank- ing ¹	Insur- ance	Real estate	Serv- ices	Other industries
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	(D)	(D)	87	41	5	(D)	(D)	256	168	(D)
Europe	8,344	115	3,577	337	1,411	421	665	743	183	160	(D)	311	244	873	1,052	(D)
Austria Belgium Denmark Finland France	6 (D) 3 9 406	0 0 0 0	0 2 0 333	0 0 0 0	0 0 0 0 1	0 0 0 0 (D)	0 0 0 0 5	0 0 2 0 (D)	0 0 0 9 (P)	0 0 0 0	0 0 0 0 1	2 0 0 0 0	0 0 0 0 (D)	(P) 0 0 0	0 0 1 0 (D)	0 (^D) (*) 0 11
Germany	1,964 17 228 (P) 5 1,331	(*) 0 0 0 0	1,223 1 (^D) 0 0 456	0 0 4 0 0 (P)	781 0 (*) 0 0 (^D)	35 0 0 0 0 3	370 0 0 0 0 (D)	37 1 (D) 0 0 (D)	(D) 0 2 0 0 (D)	4 0 0 0 0 (P)	0 0 0 0 0 (P)	87 0 0 0 0 2	0 0 0 0 0 (D)	318 12 0 0 5 186	13 4 (^D) 3 0 76	(D) 0 0 (D) 0 (D)
Norway Spain Sweden Switzerland United Kingdom Other	(P) (D) 152 1,259 2,255	0 0 0 0 115 0	4 0 (^D) 148 1,150 0	0 0 0 (P) (P)	4 0 1 0 (P) 0	0 0 (P) 3 129 0	0 0 (P) 30 210 0	0 0 57 (P) (P) 0	0 0 (P) 6 31 1	0 0 0 (D) 83 0	0 0 0 0 (P)	0 (*) 5 (D) (D) 0	0 0 0 0 (P)	(D) 0 2 108 210 0	0 (D) (D) (D) 211 0	0 (D) 0 (D) (D) 0
Latin America and Other Western Hemisphere	1,438	(*)	425	(D)	(D)	0	0	(D)	(D)	6	(D)	(D)	(D)	162	209	(D)
South and Central America Brazil Mexico Panama Venezuela Other	1,152 25 979 73 (D)	(*) 0 0 0 (*)	(D) 0 (D) (D) (D) (D)	(D) 0 0 0 0 (P)	(D) 0 0 0 (D) 0	0 0 0 0 0	0 0 0 0	(D) 0 (D) (D) 0	3 0 2 0 0 1	6 3 0 0 0 3	(D) 0 5 0 0 (D)	4 0 4 0 0 0	0 0 0 0 0	108 13 (^D) (^D) 0 3	119 (^D) 109 0 (^D)	(D) (D) (D) 0 0
Other Western Hemisphere Bahamas Bermuda Netherlands Antilles United Kingdom Islands, Caribbean Other	286 29 58 (^D) 151 (^D)	0 0 0 0 0	(D) 0 0 0 (D) (*)	(*) 0 0 0 0 (*)	0 0 0 0 0	0 0 0 0 0	0 0 0 0	(D) 0 0 0 (D) 0	(D) 0 0 0 (D) 0	0 0 0 0 0	0 0 0 0 0	(D) 0 0 0 (D) 0	(D) 0 (D) 0 0 0	54 6 1 0 47 0	91 (D) (D) (D) (D) (D)	21 (D) (*) 0 (*) (D)
Africa	(D) 16 (D)	(D) 0 (D)	(D) (D) 0	0 0 0	(D) (D) 0	0 0 0	0 0 0	0 0 0	(D) (D) 0	0 0 0	0 0 0	0 0 0	0 0 0	1 0 1	0 0 0	(*) 0 (*)
Middle East Israel Kuwait Lebanon Saudi Arabia United Arab Emirates Other	238 (D) 83 (D) 85 0 (D)	0 0 0 0 0	(D) 1 0 (D) 0 0	(D) (D) 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	(D) (D) 1 0 (D) 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	(D) 0 15 0 (D) 0	0 0 0 0 0	136 (*) 67 (D) 48 0 (D)	(D) 0 0 0 (D) 0	0 0 0 0 0
Asia and Pacific Australia Hong Kong Japan Korea, Republic of Malaysia New Zealand Philippines Singapore Taiwan Other	3,716 164 338 2,921 20 (P) 0 (P) 120 102 45	(P) 0 0 (P) 0 0 0 0 0 0 0 0 0 0 3	1,422 157 5 1,235 0 (P) 0 0 7 (P) (E)	(P) 0 0 (P) 0 0 0 0	123 0 0 (P) 0 0 0 0 0 (P)	736 (P) 0 (P) 0 0 0 0	(P) (D) 5 230 0 (P) 0 7 1	(P) 0 (P) 0 0 0 0 0 0 0 (*)	332 (D) 165 8 0 0 0 (D) (D) 7	48 0 0 45 3 0 0 0 0	(P) 0 0 (P) 0 0 0 0 0 (P)	418 0 (P) 406 0 0 0 0 (P) 0	(P) 0 0 (P) 0 0 0 0	734 (*) 107 577 (P) 0 (P) (P) (P) 3	584 3 199 358 0 0 0 0 0 (P)	80 2 0 53 (P) 0 0 0 (P) 0
United States ²	(D)	0	(D)	(D)	0	0	0	0	(D)	0	0	0	0	0	(D)	0
Addenda: European Communities (12) 3 OPEC 4	6,862 458	115 (^D)	3,301 89	327 (^D)	1,406 (^D)	387 0	600 0	582 (^D)	157 2	132 3	(D) (D)	152 18	244 0	735 118	409 4	(^D)

D 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]

			Manufacturing													
	All industries	Petrole- um	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Ma- chinery	Other manu- factur- ing	Whole- sale trade	Retail trade	Bank- ing ¹	Fi- nance, except bank- ing ¹	Insur- ance	Real estate	Serv- ices	Other indus- tries
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	(D)	(D)	999	(D)	306	(D)	2	0	5	0	175	(D)	(D)
Europe	17,127	(D)	10,130	1,355	5,638	365	1,457	1,314	268	740	(D)	786	918	950	(D)	1,548
Austria Belgium Denmark Finland France	0 (D) (D) 82 1,078	0 0 0 0 4	0 0 71 369	0 0 0 0 3	0 0 0 (^D)	0 0 0 0 (P)	0 0 0 (^D) 104	0 0 0 (P)	0 0 0 0 18	0 0 0 0 (^D)	0 0 0 0	0 1 0 0 38	0 0 0 0 (^D)	0 0 0 0 4	(D) (D) (D) (D)	0 0 (^D) 30
Germany	3,140 (^D) 168 3 (^D) 1,528	(D) 0 0 0 0	2,146 (D) 62 0 (D) (D)	0 (P) 0 0 (D)	(^D) 0 0 0 0 5	(D) 0 (P) 0 0 (D)	(D) 0 (P) 0 0	219 (D) (D) (D) (D) (D)	(D) (D) 3 0 3 (D)	168 0 0 0 0 (^D)	0 0 0 0	(P) 0 (P) 0 0 (P)	0 0 0 0 (D)	188 0 (P) 3 5 284	(P) 0 0 0 0 (P)	108 0 9 0 0 (^D)
Norway Spain Sweden Switzerland United Kingdom Other	(P) (P) 130 872 9,031 (P)	0 0 0 0 (D)	0 2 (D) (D) 6,205 0	0 0 0 (P) 755 0	0 0 (P) (P) 0	0 0 0 0 246 0	0 2 (D) (D) 62 0	0 0 0 8 (D)	(P) 0 0 (P) 118 0	0 0 0 0 304 0	0 (P) 0 0 (P) 0	0 0 3 2 (D)	0 0 0 (P) 5	0 (P) (P) 18 (P) 0	(D) 0 3 0 234 0	0 (D) 0 13 1,362 (D)
Latin America and Other Western Hemisphere	779	(D)	(D)	23	0	(D)	(D)	(D)	125	(D)	0	(D)	2	45	48	(D)
South and Central America Brazil Mexico Panama Venezuela Other	545 27 67 (P) 440 (P)	(D) 0 0 0 (D) 0	(D) 0 5 0 (D) 0	(D) 0 (D) 0 0	0 0 0 0	(D) 0 0 0 (D) 0	(*) 0 (*) 0 0	(D) 0 (D) 0 0	6 0 6 0 0	(D) 0 0 0 (D) 0	0 0 0 0	(D) 0 (D) 0 0	2 0 2 0 0	36 (D) (D) (D) (D) (D)	(P) (P) 2 0 0 0	(D) 0 0 0 (D) 0
Other Western Hemisphere Bahamas Bermuda Netherlands Antilles United Kingdom Islands, Caribbean Other	234 (P) 68 54 39 (P)	4 0 (P) 0 (P) 0	39 0 (P) (P) (D) (D)	(D) 0 (D) 0 (D) 0 (D)	0 0 0 0	0 0 0 0 0	(D) 0 0 (D) 2 0	(D) 0 0 0 0 (D)	119 (D) (D) 2 0	(P) 0 0 0 (P) 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	9 0 0 0 9	(D) 0 (*) (D) 0 (P)	(D) 0 0 (D) 0
Africa South Africa Other	(D) (D) (D)	(D) 0 (D)	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	(D) (D) 0	0 0 0	0 0 0	0 0 0	0 0 0	3 (*) 3	0 0 0	(D) (D) 0
Middle East Israel Kuwait Lebanon Saudi Arabia United Arab Emirates Other	1,369 (P) 7 0 70 0 (P)	(D) (D) 0 0 0 (D)	379 379 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	(D) (D) 0 0 0 0	(D) (D) 0 0 0 0	0 0 0 0 0	(P) 0 0 0 0 0 (P)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	53 0 7 0 (D) 0 (D)	9 9 0 0 0	(D) 0 0 0 (D) 0
Asia and Pacific Australia Hong Kong Japan Korea, Republic of Malaysia New Zealand Philippines Singapore Taiwan Other	39 46 (*) 0 114	19 0 0 (P) 0 (P) 0 0 0	(P) 0 281 7 (P) 0 96 (P) (D)	(P) 0 0 (P) 0 0 0 0	50 0 40 (P) 0 0 0 (P)	(P) 0 0 (P) 0 0 0 0 0 (P)	94 0 0 66 (P) (D) 0 0 (P) 7	325 (P) 0 163 0 0 0 (P) (*) (b)	290 (P) (P) (P) (P) (P) (P) (P) (P)	(D) 0 0 (D) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(P) 0 0 3 0 0 0 0 (P)	318 0 2 316 0 0 0 0 0	0 0 0 0 0 0 0	385 1 108 271 0 0 0 0 0 0	1,098 (D) (D) 682 (D) (D) (*) 0 (*) 0 (D) (D) (*)	93 0 0 72 0 0 (*) 0 (P)
United States ²	(D)	0	(D)	0	(D)	0	0	0	3	2	0	(D)	0	0	(D)	(D)
Addenda: European Communities (12) ³ OPEC ⁴	15,999 561	(^D) 98	9,684 (^D)	1,264 0	5,401 0	365 (^D)	1,394 0	1,261 (^D)	225 0	740 (^D)	1,058 0	781 0	(^D)	830 50	533 (^D)	1,521 (^D)

 $^{^{\}rm D}$ Suppressed to avoid disclosure of data of individual companies. * Less than \$500,000.

See footnote 1, table 3.
 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 uво'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.

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

		19	992 ^r			19	93 <i>p</i>	
	M	illions of dolla	ars	Funds from	М	illions of dolla	rs	Funds from
	Total outlays	Funds from for- eign par- ent groups	Other	foreign par- ent groups as a percent of total	Total outlays	Funds from for- eign par- ent groups	Other	foreign par- ent groups as a percent of total
Total	15,333	7,808	7,525	51	26,182	11,818	14,364	45
By industry: Petroleum Manufacturing Wholesale trade Retail trade Banking ¹ Finance, except banking ¹ Insurance Real estate Services Other industries	463 6,014 698 256 529 797 291 2,161 2,023 2,101	(P) 3,669 439 155 (P) 269 64 1,283 1,132 473	(P) 2,345 259 1011 (P) 528 227 878 891 1,628	(P) 61 63 61 (P) 34 22 59 56 23	774 12,418 758 1,560 1,071 1,166 921 1,610 3,934 1,971	274 6,016 408 377 131 626 781 607 1,666 932	500 6,402 350 1,183 940 540 1,003 2,268 1,039	35 48 54 24 12 54 85 38 42 47
By country 2: Canada Europe France Germany United Kingdom Other Latin America and Other Western Hemisphere Africa Middle East Asia and Pacific Japan Other United States 3	1,351 8,344 406 1,964 2,255 3,719 1,438 (P) 238 3,716 2,921 795 (P)	613 4,310 299 909 1,309 1,793 735 (P) 183 1,947 1,557 390	738 4,034 107 1,055 946 1,926 (P) 55 1,769 1,364 (P)	45 52 74 46 58 48 51 (P) 77 52 53 49 (P)	3,999 17,127 1,078 3,140 9,031 3,878 779 (P) 1,369 2,744 1,848 896 (P)	1,685 7,674 656 1,438 3,488 2,092 321 (P) 751 1,308 813 495 (P)	2,314 9,453 422 1,702 5,543 1,786 458 (P) 618 1,436 1,035 401 (P)	42 45 61 46 39 54 41 (P) 55 48 44 55 (P)
Addenda: European Communities (12) 4 OPEC 5	6,862 458	3,363 200	3,499 258	49 44	15,999 561	6,749 135	9,250 426	42 24

Revised

^{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.

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, 1987-93 1

Year of	Number	Percen	Percent of affiliates with return on sales in the indicated range ²												
acquisi- tion	of affili- ates	-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 1988 1989 1990 1991 1992 1993	504 828 782 799 529 438 377	8 9 12 13 11 11	4 4 4 7 6 7 6	25 19 22 21 23 24 22	50 49 42 40 42 38 41	8 11 10 10 10 9	5 7 10 9 8 10 6								

^r Revised

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

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.

^{1.} The figures in this table exclude investments in real estate, in which the return to investors 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.

^{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.

1992—had returns on sales of 10 percent or more (table 7). 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

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. 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.

^{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).

^{11.} For a discussion of these and other possible reasons for low rates of return on foids, 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

G. 2003.		[Millions of dollars unless otherwise indicated]										
	Total assets of all U.S.		U.S. busin	ess enterprise	es acquired		U.S. business enterprises established					
	business en- terprises ac- quired or es- tablished	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 (D) (D)	1,001 (D) (D)	(D) (D) (D)	80 (*) 80	1,184 (^D) (^D)	215 (D) (D)	38 0 38	7 0 7	−5 0 −5	(D) 0 (D)	0 0 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 26 639	300 6 294	477 2 475	17 (*) 17	3,131 (D) (D)	364 (D) (D)	366 20 346	474 (D) (D)	14 -1 15	1,085 (D) (D)	128 (D) (D)	
Chemicals and allied products Industrial chemicals and synthetics Drugs Soap, cleaners, and toilet goods Other	1,896 501 (^D) (^D) 731	1,793 (P) (P) (P) 714	1,820 417 (P) (P) 951	53 -2 -11 (^D)	7,573 (^D) 1,004 (^D) 4,151	1,391 (P) 0 (P) 949	104 (P) (P) 0 17	(D) 1 (D) 0 3	1 (D) (D) 0 -4	98 (D) (D) 0 (D)	(D) (D) (D) (D) 0	
Primary and fabricated metals Primary metal industries Ferrous Nonferrous Fabricated metal products	1,581 1,042 (^D) (^D) 539	1,134 650 (P) (P) 485	1,615 890 (P) (P) 725	-40 -44 (P) (P) 4	9,624 5,229 (D) (D) 4,395	2,367 2,046 (^D) (^D) 321	447 392 392 0 55	(D) (D) (D) (D) 0 24	-8 (D) (D) 0 (D)	536 304 304 0 232	(D) (D) (D) (D) 0 (D)	
Machinery Machinery, except electrical Office and computing machines Other Electric and electronic equipment Audio, video, and communications equipment Electronic components and accessories Other	1,408 976 57 919 432 54 178 201	787 422 52 371 365 (D) (P) 200	916 441 77 364 475 64 217	-23 -12 -24 12 -11 -4 -9 2	7,921 3,468 588 2,880 4,453 421 2,097 1,935	879 (D) (D) 130 (D) 0 (D) (D)	621 554 6 548 67 (D) (D)	879 823 7 815 56 3 (P) (P)	29 28 (*) 28 2 -1 1	4,146 (D) (D) (D) (D) (D) (D) (D)	295 256 (P) (P) 39 0 (P) (P)	
Other manufacturing Textile products and apparel Lumber, wood, furniture, and fixtures Paper and allied products Printing and publishing Newspapers Other Rubber products Miscellaneous plastics products Stone, clay, and glass products Transportation equipment Motor vehicles and equipment Other transportation equipment Instruments and related products Other	2,650 588 (P) (D) 339 4 334 2 299 (P) 170 22 148 228 93	1,880 586 (P) (P) 3336 4 332 0 223 84 152 5 146 (P)	2,681 (P) (P) (P) (P) 238 2 237 82 295 2 293 206 146	-261 (P) (*) (P) 1 1 1 0 13 -6 -13 (*) -13 -8	27,201 (P) (P) (P) (P) 1,894 (P) (P) 0 2,015 (P) (P) (P) 2,021 1,425	816 291 (P) (P) (P) (P) (P) 0 104 (P) (P) (P) (P) 29	769 2 (P) (P) 2 0 2 2 76 (P) 19 17 2 (P) (P)	1,059 (P) (P) 0 (*) 0 (*) 1 (P) (P) 37 37 (*) (P)	33 (*) (*) 0 -1 0 -1 (*) -7 (P) 3 3 0 (P)	7,102 (P) (P) (P) 0 0 0 (P) (P) (P) (P) (P) (P) (P)	99 0 (P) 0 0 0 0 0 (P) 0 28 (P) (P) (P) (P) (P)	
Wholesale trade Motor vehicles and equipment Professional and commercial equipment and supplies Metals and minerals, except petroleum Electrical goods Machinery, equipment, and supplies Other durable goods Groceries and related products Farm-product raw materials Other nondurable goods Retail trade General merchandise stores	1,712 48 (P) (P) 793 176 96 102 (P) 252 1,003	962 (P) 12 (P) (P) (P) 90 (P) 0 199	1,816 (P) (P) 87 968 80 319 88 0 238 2,629	22 2 -3 (*) 9 2 -1 5 0 8	6,139 (P) (P) 98 3,838 640 148 (P) 0 1,126 28,197	223 0 (P) (D) (D) (D) (O) 0 36 114	749 (P) (P) (P) (P) (P) (P) 6 (P) 53	1,321 (P) (P) (P) (P) (P) 14 (P) (P) 108	46 -5 -8 (*) (P) (P) (*) -7 (*) -1	1,556 (P) (P) 30 (P) 96 (P) (P) (P) (P)	20 (P) (P) (P) (P) (P) (P) (O) 0	
Food stores Apparel and accessory stores Other Banking ²	182 (^D) 793 7,450	(D) (D) 787 7,450	(P) (P) 1,549 (P)	(D) (D) (D)	(D) (D) 17,851 2,999	(D) 0 (D) (D)	(P) 0 5	(D) (D) 0 (D)	1 0 (*)	(D) (D) (P)	0 0 0	
Finance, except banking ²	3,725	885	145	8	517	(D)	2,840	(D)	6	118	(D)	
Insurance	2,839	(D)	196	5	782	0	(D)	133	6	(D)	(D)	
Real estate	2,610	(D)	77	-64	370	(D)	(D)	221	15	326	21,629	
Services Hotels and other lodging places Business services Computer and data processing services Other business services Motion pictures, including television tape and film Engineering, architectural, and surveying services Accounting, research, management, and related services Health services Other services Other services	2,242 858 657 119 538 (P) 16 (P) 104 277	1,795 611 570 101 470 (D) 16 (D) (D) (D) 196	1,214 109 575 194 381 (^D) 47 (^D) 160 182	-43 -9 -34 -20 -13 3 -1 -6 3	12,860 2,576 6,124 1,890 4,234 (P) 365 (P) 1,723 1,251	894 87 234 0 234 (D) 0 0 (D) 560	247 86 18 68 (D) 0 10 (D) 81	263 119 91 (D) (D) 15 0 9 15 13	-3 1 5 1 4 -1 0 1 (*) -8	3,922 2,219 1,165 (D) (D) (D) 0 140 (P) 285	707 (P) 111 (P) (D) 0 (P) (P) (P)	
Other industries Agriculture, forestry, and fishing Mining Coal Other Construction Transportation Communication and public utilities	4,831 65 2,244 (D) (D) (D) (D) (D) 1,543	(D) (D) 2,207 (D) (D) (D) (D) (1,278	4,306 1,000 (D) (D) (D) (D) (D) (D)	116 -1 114 (P) (D) (D) (D) (D) (D) -32	12,103 (P) 3,388 (P) (P) (P) (P) 1,837	(D) (D) (D) (D) (D) (D) (D) (D)	(D) (D) 37 (D) (D) 0 36 266	142 2 (*) (*) (*) (*) (*) (D) (D)	-21 (D) (*) (*) (*) (*) (D) (D)	599 (P) 0 0 0 0 (P) 18	69,216 55,240 (P) (D) (D) (D) (D) (D)	

D 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							U.S. business enterprises established					
	of all U.S. business en- terprises ac- quired or es- tablished	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 (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	950 (D) (D)	(D) (D) 5	(D) (D) 1	(D) (D) -3	(D) (D) (D)	(D) (D) (D)		
Manufacturing	15,771	15,192	14,219	-26	86,817	(D)	580	481	25	2,480	638		
Food and kindred products	1,244 723 521	(D) 723 (D)	1,406 371 1,035	-8 23 -31	6,919 1,389 5,530	(D) (D) 230	(D) 0 (D)	(D) 0 (D)	(D) 0 (D)	(D) 0 (D)	0 0 0		
Chemicals and allied products Industrial chemicals and synthetics Drugs Soap, cleaners, and toilet goods Other	7,109 (D) 246 (D) 1,020	7,109 (P) 246 (P) 1,020	3,043 (P) 139 (P) 592	(D) (D) -1 3 -5	15,687 (^D) 1,176 (^D) 2,803	10,154 (^D) 35 (^D) 3,113	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0		
Primary and fabricated metals Primary metal industries Ferrous Nonferrous Fabricated metal products	1,359 597 (^D) (^D) 762	1,133 (D) (D) (D) (D)	1,088 144 (^D) (^D) 944	(D) 4 (*) 4 (D)	7,415 737 (^D) (^D) 6,678	1,907 (P) (P) (P) (P)	226 (D) (D) 0 (D)	26 (D) (D) 0 (D)	4 4 4 0 (*)	(D) 0 0 0 (D)	174 (P) (P) 0 (P)		
Machinery Machinery, except electrical Office and computing machines Other Electric and electronic equipment Audio, video, and communications equipment	3,277 1,543 551 992 1,734 61	(P) (P) (P) 987 (P)	5,354 3,559 1,508 2,051 1,795 57	103 6 -1 7 96	29,647 12,800 3,924 8,876 16,847	1,373 (P) (P) 273 (P) 0	(D) (D) (D) (D) 5 (D) (D)	(P) (P) (P) 0 1	(D) (*) (*) (*) 0 (D) (D)	116 (P) (P) (P) (P) (P)	0 0 0		
Electronic components and accessories Other	(D)	(D) (D)	(D) (D)	(D) (D) (D)	2,006 (D)	(D) (D)	0	0) ó 0	0 0	0 0		
Other manufacturing Textile products and apparel Lumber, wood, furniture, and fixtures Paper and allied products Printing and publishing Newspapers Other Rubber products Miscellaneous plastics products Stone, clay, and glass products Transportation equipment Motor vehicles and equipment Other transportation equipment Instruments and related products Other	2,783 402 (P) 5555 295 (P) (D) 1 218 5355 (P) (P) (P) (P) (P) 78	2,456 (P) (P) 233 (P) 15 215 533 533 (P) (P) 426 77	3,327 972 (P) 429 (P) 3 290 377 (P) 405 106	(P) (P) (P) (P) (P) (P) (*) (*) (*) 1 1 11	27,149 9,227 (P) 4,620 (P) 2,236 3,584 (P) (P) (P) (P) 3,078 873	8,706 107 (P) (P) (P) (P) 138 7,931 (P) 128 (P)	327 (P) 0 (P) 2 0 2 0 2 (P) (P) 5 2	441 (P) 0 (*) (P) 0 (P) 0 (*) 1 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	29 (P) 0 1 1 0 (*) (*) (*) (*) (*) (*)	2,245 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	464 0 0 (P) 0 0 0 0 (P) 0 157 (P) (P) 0		
Wholesale trade Motor vehicles and equipment Professional and commercial equipment and supplies Metals and minerals, except petroleum Electrical goods Machinery, equipment, and supplies Other durable goods Groceries and related products Farm-product raw materials Other nondurable goods	1,299 41 (P) 0 (P) (P) 218 44 0 369	1,074 31 0 0 (D) (D) (D) (P) 44 0 362	2,209 (D) 0 919 (D) 130 152 0 885	16 -1 0 0 4 -1 (*) 3 0 11	7,381 (P) 0 0 (P) (D) 652 1,044 0 912	925 0 0 0 (D) 0 (D) (D) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	225 11 (P) 0 20 (P) (P) 0 0 7	(P) (D) (D) (E) (*) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D	-19 (*) (*) 0 -1 (P) (P) 0 0 (*)	735 (P) (D) 0 112 8 (D) 0 0 9	0 0 0 0 0 0 0 0		
Retail trade General merchandise stores Food stores Apparel and accessory stores Other	(D) 0 (P) 1 1,139	(P) 0 (P) 0 1,079	4,306 0 (D) 0 (P)	42 0 3 0 39	33,653 0 (D) 0 (D)	(D) 0 (D) 0 (D)	62 0 0 1 60	74 0 0 (*) 74	- 14 0 0 (*) -14	316 0 0 (D) (D)	0 0 0 0		
Banking ² Finance, except banking ²	10,941 7,731	10,595 4,141	829 660	-48 8	4,234 (^D)	(D) (D)	346 3,589	9 (D)	-2 (D)	73 464	0		
Insurance	9,812	(D)	(D)	(D)	1,584	(D)	(D)	5	_ 4	(D)	0		
Real estate	(D)	(D)	(D)	10	(D)	(D)	1,279	(D)	20	(D)	8,184		
Services Hotels and other lodging places Business services Computer and data processing services Other business services Motion pictures, including television tape and film Engineering, architectural, and surveying services Accounting, research, management, and related services Health services Other services	(P) 499 566 331 235 (P) 40 125 272 1,018	(D) 454 533 326 207 (D) (D) 113 (D) 951	14,575 170 455 183 272 (D) (D) (P) 281 409	46 11 (P) (D) 2 (P) -1 -5 8 -16	78,475 2,964 8,393 2,171 6,222 (P) (D) 1,838 5,045 8,365	1,385 19 9 (D) (D) (D) (D) (D) 1,223	195 45 33 5 28 (P) (D) 11 (P) 67	237 13 83 (D) (D) (D) (D) (D) (T) (T) (T) (T)	- 5 2 1 3 -2 (*) -3 -1 -1	1,269 406 290 (P) (P) (D) (D) (D) 111 0 (P)	(P) 6 0 0 0 0 0 0 0 0 0		
Other industries Agriculture, forestry, and fishing Mining Coal Other Construction Transportation Communication and public utilities	11,082 22 (P) (P) 82 167 (P) 870	10,481 0 (D) (D) (D) (D) 165 (P) 373	9,994 0 (D) (D) (D) 499 (P) 230	(D) 0 (D) (D) (D) (D) 10 (D) 9	68,013 0 (D) (D) (D) 2,298 (D) 1,170	(D) (D) (D) (D) (D) (D) (D) (D)	601 22 (D) 0 (D) 2 (D) 497	35 5 (*) 0 (*) 3 0 28	-42 (*) (*) 0 (*) (*) (*) -42	258 74 (D) 0 (D) (D) (D) 0 155	24,882 22,003 (P) 0 (P) 0 (P)		

D 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 (1-0) 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 1-0 accounts; it presented, and illustrated how to use, the 1-0 make table (table 1) and use table (table 2). This report presents, and illustrates how to use, the three remaining basic 1-0 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 $_{\text{TV}}$ broadcasting industry (column $_{67}$) has direct requirements for 1.60 cents (calculated as $_{100} \times _{0.01601}$ from the table) of the *commodity* radio and $_{\text{TV}}$ broadcasting (row $_{67}$) and $_{0.28}$ cent of the *commodity* advertising (row $_{73\text{D}}$).

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. 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 × 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 × 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 manufacturing

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 \times 0.15029) of its own products (row 37 in table 3.1) plus \$585 (\$45,881 \times 0.01275) of general industrial machinery and equipment (row 49), \$976 (\$45,881 \times 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.

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 ($\$1,000,000 \times 1.00512$) of household appliances (row 54) from all industries. Similarly, it would require \$24,830 ($\$1,000,000 \times 0.02483$) of paperboard containers and boxes (row 25), \$41,080 ($\$1,000,000 \times 0.04108$) 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-

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 1-0 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
Diskettes (3 1/2 inch HD)		
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	51-94-40-003 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.

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

^{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).

Table 3.1.—Commodity-by-Industry

												ts per dollar
Commodity number	For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non- metallic minerals mining	Con- struction	Ordnance and access- ories	Food and kindred products
Som	Industry number	1	2	3	4	5+6	7	8	9+10	11+12	13	14
1	Livestock and livestock products	0.19224	0.01826	0.00355	0.05633							0.18658
2	Other agricultural products	.27179	.04444	.02250	.09409 .00144					.00039		.06829 .00624
4 5+6	Agricultural, forestry, and fishery services	.04576	.07542	.17281	.00037	.00006 .07622	.00002	.00002	.00014	.00525	.00005	.00002
7	Coal mining					.00154	.10724		.00473	(*)	.00014	.00032
9+10	Crude petroleum and natural gas	.00007	.00292		.00010	.00106	.00127	.03738	.03484	.00781		.00003
11 12	New construction	.00524	.00819	.01111	.01299	.01285	.00766	.02189	.00895	.00007 .00055	.00660	.00249
13 14	Ordnance and accessories Food and kindred products	.13220		.00394	.00150	.00018	.00002	.00004	.00015	.00002	.02860	.16779
15	Tobacco products											
16 17	Broad and narrow fabrics, yarn and thread mills	.00029	.00051 .00030	.00960	.00515	.00009	.00070		.00027	.00284	.00013 .00004	.00004
18 19	Apparel		.00102	.00414	.00355	.00006	.00031	.00005	.00027	.00019 .00036	.00039 .00001	.00003 .00022
20+21	Lumber and wood products	.00041	.00340			.00557	.00242	(*)	.00019	.05417	.00085	.00019
22+23 24	Furniture and fixtures Paper and allied products, except containers	.00125	.00160	.00013	.00047	.00012	.00033	.00009	.00292	.00205 .00191	.00023	.00964
25 26A	Paperboard containers and boxes	.00006 .00010	.00384 .00012	.00017 .00007	.00834 .00014	.00003 .00004	.00004	.00002 .00003	.00031 .00184	.00007 .00008	.00068	.01797 .00003
26B	Other printing and publishing	.00011	.00012	.00539	.00109	.00047	.00046	.00038	.00059	.00033	.00069	.00577
27A 27B	Industrial and other chemicals Agricultural fertilizers and chemicals	.00117 .00162	.00074 .05311	.00181 .00535	.00033 .13389	.02993 .00013	.00540 .00008	.00994	.01700 .00003	.00212 .00001	.00402 .00018	.00462 .00058
28 29A	Plastics and synthetic materials	.00227			.00005						.00097	.00037 .00273
29B	Cleaning and toilet preparations	.00062						.00008	.00012	.00002	.00005	.00273
30 31	Paints and allied products	.00383	.01355	.00056 .03948	.00968	.01861	.01534	.00007 .00343	.01495	.00758 .01813	.00013 .00099	.00113
32 33+34	Rubber and miscellaneous plastics products	.00186 .00029	.00412	.00026	.00160 .00011	.01205	.00969 .00001	.00031 .00001	.00942	.01079 .00005	.00631 .00002	.01614
35	Glass and glass products	.00007		.00024	.00045	.00021	.00001	.00010	.00031	.00161	.00008	.01204
36 37	Stone and clay products	.00015	.00115 .00018		.00055	.00339 .01972	.00316 .00075	.00315 .00309	.00014 .00328	.05018 .01620	.00160 .01504	.00006 .00001
38 39	Primary nonferrous metals manufacturing			.00236		.00220	.00052		.00536	.01001	.01787	.02664
40	Heating, plumbing, and fabricated structural metal products	.00019	.00022			.00633	.00259	.00054	.00470	.05064		
41 42	Screw machine products and stampings Other fabricated metal products	.00031 .00078	.00176	.00712	.00118	.00510 .00125	.00572 .00324	.00455	.00253 .00288	.00045 .01307	.00601 .01468	.00203 .00313
43 44+45	Engines and turbines	.00285	.00764	.00192 .00276	.00196 .00352	.00548 .01892	.00435 .04259	.00026 .00283	.00439 .01954	.00229	.00088	
46	Materials handling machinery and equipment					.00507	.00371		.01093	.00229		(*)
47 48	Metalworking machinery and equipment	.00095	.00106	.00003	.00007	.00113	.00030	.00091	.00064	.00032	.00276	.00012 .00028
49 50	General industrial machinery and equipment	.00031 .00053	.00058 .00142	.00109 .00036	.00016 .00020	.01152 .00181	.01680	.00186 .00043	.01263 .00143	.00245 .00020	.00747 .00380	.00068 .00028
51	Computer and office equipment				.00007							
52 53	Service industry machinery	.00012	.00031			.00395	.00352	.00197	.00491	.01073 .00443	.00078	.00002
53 54 55 56 57	Household appliances Electric lighting and wiring equipment	.00022	.00050	.00016	.00034	.00057	.00110	.00022	.00063	.00243 .01599	.00005	.00002
56	Audio, video, and communication equipment Electronic components and accessories				.00001		(*)	.00001		.00325	.02780	(*)
58	Miscellaneous electrical machinery and supplies	.00173	.00466	.00008	.00046	.00081	.00008	.00003	.00042	.00137	.02769 .00059	.00001
59A 59B	Motor vehicles (passenger cars and trucks)	.00103	.00251	.00067	.00179	.00185	.00034	.00008	.00027	.00067	.00004	.00006
60	Aircraft and parts Other transportation equipment				.00002	.00071					.10162	
61 62	Scientific and controlling instruments			.02096 .00207	.00052 .00003	.00074	.00011	.00003	.00008	.00230	.01264	.00010
63 64	Ophthalmic and photographic equipment	.00017	.00019	.00005 .00012	.00034 .00064	.00013	.00010 .00015	.00012 .00006	.00013 .00047	.00019 .00142	.00061 .00021	.00006 .00006
65A 65B	Railroads and related services; passenger ground transportation	.00942 .02188	.00287 .01487	.00098 .00319	.00414 .00935	.00297 .00768	.02561 .00625	.00053 .00183	.00278 .01402	.00252 .01337	.00058 .00488	.00565 .01574
65C	Water transportation	.00123	.00053	.00326	.00146	.00106	.00211	.00122	.00090	.00049	.00006	.00153
65D 65E	Air transportation	.00023 .00004	.00115 .00017	.00090 .00028	.01881 .00015	.00361 .00024	.00073 .00024	.00103 .00005	.00373 .00020	.00138	.00461	.00148 .00001
66 67	Communications, except radio and TV	.00253	.00284	.00047	.00002	.00134	.00083	.00143	.00171	.00374	.00460	.00137
68A	Electric services (utilities)	.01111	.00594	.00046	.00266	.09506	.02401	.01534	.05023	.00169	.00828	.00844
68B 68C	Gas production and distribution (utilities)	.00127	.00189 .00425	.00017 .00082	.00007	.01087 .00222	.00043 .00236	.00660 .00156	.01683 .01039	.00052 .00041	.00284 .00098	.00410 .00136
69A 69B	Wholesale trade	.04413 .00086	.04112 .00262	.02497 .00107	.06541 .00301	.01955 .00121	.02830 .00037	.00621 .00007	.02007 .00024	.04277 .03897	.01862 .00013	.05169 .00016
70A	Finance	.00910	.00979	.01037	.00464	.01012	.00663	.00265	.01783	.01147	.00185	.00288
70B 71A	Insurance Owner-occupied dwellings	.00501	.02071	.01369	.00361	.00342	.00122	.00022	.00049	.00318		.00109
71B 72A	Real estate and royalties	.03429 .00056	.08181 .00062	.00182	.00806 .00108	.01249 .00179	.02444	.17382 .00032	.01185 .00817	.00438 .00114	.00840 .00087	.00266 .00064
72B 73A	Personal and repair services (except auto) Computer and data processing services	.00030	.00081	.00093	.00819	.00029	.00017	.00012	.00156	.00022	.00039	.00059
73B	Legal, engineering, accounting, and related services	.00124	.00140	.03376	.01096	.01663	.00813	.00951	.00737	.05866	.01034	.00266
73C 73D	Other business and professional services, except medical	.00414 .00021	.01100 .00024	.01776 .00043	.00927 .00414	.00558 .00075	.00322 .00179	.00171 .01012	.00867 .00144	.02416 .00039	.01102 .01958	.00553 .02656
74 75	Eating and drinking places Automotive repair and services	.00018	.00020	.00146 .01761	.00362 .02648	.00118	.00073 .00775	.00082	.00174	.00233	.00280	.00110 .00146
76	Amusements				.01269	.02743	.00002	.00226	.00026	.00007	.00006	.00002
77A 77B	Health services Educational and social services, and membership organizations	.00850		.00286	.00182	.00206	.00166	.00034	.00113	.00004	.00029	.00025
78 79	Federal Government enterprises State and local government enterprises	.00013 .00017	.00015 .00036	.00078	.00226 .00078	.00143	.00011	.00003	.00131	.00039	.00021	.00072 .00088
80	Noncomparable imports		.00019		.00167	.00451	.00072	.00940	.00071	.00001	.00059	.01551
81 82	Scrap, used and secondhand goods									.00002		
83 84	Rest of the world adjustment to final uses											
85	Inventory valuation adjustment 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
Т	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 .000005.

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

of industry	output, at p	roducers' price	es]														
Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscel- laneous 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 prepar- ations	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	Com
.06472	0.00686 .08346	.00210	0.00020 .00048 .00460		.08060		.00132				.00102			0.00237 .00076 .00016	0.00046	.00128	1 2 3
.00002	.00007	.00003	.00006	.00025	.00030	.00002	.00007 .00018 .00522	.00001	.00001	.00002	.00003 .00754 .00323	.00004	.00002 .00015 .00325	.00004	.00001	.00358	4 5+6 7
							.00370				.01236 .00682	.04084	.00010		.00027	.00104 .00141	8 9+10
.00146	.00469	.00297	.00201	.00244	.00580	.00785	.00484	.00343	.00375	.00273	.00682	.00409	.00388	.00363		.00381	11 12
.00004	.00001 .00002	.00140	.00002	.00024	.00001 .00009	.00040	.00419	.00011	.00006	.00011	.00412	.00684	.00130	.00168	.01680	.01327	13 14 15 16 17 18
	.25878 .00905	.22654 .04274	.20317	.22810 .07441	.00007 .00187	.03361 .02645	.00826 .00434		.00009	.00107 .00061			.00301		.00054		16 17
	.00004	.00066 .00106 .00008	.18879 .02346	.00945 .03248 .00306	.00017 .00023 .28756	.00035 .00159 .08781	.00014 .00001 .05859		.00002 .00001 .00004	.00006 .00001	.00028 .00057	.00002 .00007	.00013 .00001	.00001 .00001	.00002 .00006 .00019	.00002	10
.00498	.00063	.00591	.00174	.00306	.00098	.00398	.00001	.45268	.13042	.16745	.00057	.00356	.01138	.00448		.00015	20+21 22+23 24 25 26A
.03608	.00342 .00005	.00617 .00006	.00312 .00006	.01177 .00009	.00383 .00010	.01509 .00011	.01327 .00005	.00209 .00005	.00024 .00890	.00385 .00236	.00485	.00410 .00004	.00660 .00005	.00871 .00003	.03448 .00005	.00003	25 26A
.01429 .00193	.00029 .02227	.00046 .03719	.00084 .00122	.00175 .00606	.00052 .01164 .00255	.00089 .00584	.00134 .04201 .00250	.00052 .01924	.06752 .00763	.08073 .02734	.00062 .21601 .00433	.01405 .10145 .18749	.00036 .33215 .00232	.00505 .01937 .00150	.01038 .08941	.00216 .19337	26B 27A 27B
	.13730	.23932	.02378	.02999	.00451	.00309	.02446	.02183		.00147	.00898		.03615	.10434	.01409	.11933	28
.00067	.00230 .00004	.00487 .00007	.00458 .00001		.00001 .00529	.01022	.00471 .00024	.00257		.00044	.00124 .00484	.00187	.00565 .00219	.00059	.04618 .00189	.00040 .02083	29B 30
.00132 .00269	.00272 .00519 .00004	.00196 .00733	.00174 .00471 .00487	.00078 .02922 .01351	.00612 .00946 .00012	.00229 .03256 .00282	.00689 .02438 .00001	.00713 .00285 .00012	.00163 .00066 .00003	.00272 .01849 .00015	.01199 .01178 .00003	.00509 .00853	.00254 .04143	.00107 .02081 .00001	.00989 .05155	.00659 .00009	31 32 33+34
.00002	.00542	.00036 .00009	.00467	.00007	.00289	.00371	.00001	.00012		.00013	.0005	.00289	.00065 .00034	.00648	.00696	.00062	35 35 36
.00003	.00005	.00027	(*)	.00006	.00042 .00073	.04155 .01274	.00003 .00057	.00265 .00210	.00003	.00007 .00204	.00210 .00069	.00001	.00001 .00005	.00003	.00005	.00132 .00058	37 38
					.00657 .01382	.01012				.00001	.00547	.00409		.00384 .00033 .00179	.01304 .00047 .00591	.04422	39 40 41
.00702	.00004	.00004	.00012	.00008	.02065	.03748	.00612	.00483	.00001	.00061	.00770	.00294	.00032	.00179	.01173	.00175	42 43
.00004	.00032		.00002		.00054		.00001										44+45 46
	.00036 .00286	.00029 .01399	.00014	.00035 .00107	.00202	.00215	.00053	.00072 .00391	.00013	.00026	.00041		.00051 .00021	.00009			47 48
.00027 .00053	.00081	.00061	.00011	.00045	.00155 .00261	.00193 .00103	.00068 .00116	.00105	.00004 .00026 .00015	.00002 .00046 .00053	.00025 .00091	.00121	.00205 .00118	.00047 .00027 .00023	.00176 .00076	.00003	50 51
					.00031 .00061	.00160				(*)	.00025 .00049						52 53
.00001	.00001 .00003 .00001	.00001	.00001 .00002	.00001 .00004 .00001	.00202 .00157 .00001	.00015	.00006	.00002	.00003 .00002	.00003	.00004	.00002			.00001	.00001	54 55
.00002	.00001	.00001	(*)			.00002		.00003	.00002	.00003	.00001	.00001		.00001			57 58
.00014	.00012	.00003	.00008		.00262	.00024	.00037	.00031	.00026	.00040	.00004	.00010	.00002	.00013	.00008	.00003	59A 59B
.00017	.00010	.00006	.00006	.00015	.00008 .00017	.00039	.00047	.00027	.00087	.00197	.00099	.00045	.00013	.00078	.00017	.00019	29A 29B 30 31 32 33+34 35 36 37 38 39 40 41 44 46 47 48 49 50 51 52 55 56 59A 59B 60 61 62 63 63 63
.00006	.00010	.00013 .00012	.00009	.00013	.00019	.00028	.00014	.00011	.00243	.00604	.00024	.00007	.00013	.00014	.00016	.00013	63 64
.00039 .00415	.00196 .00724	.00271 .01488	.00028 .00436	.00087 .00724	.00910 .01408	.00434 .01002	.01010 .01984	.01123 .02236	.00350 .00658	.00493 .01150	.01076 .01771	.02081 .05778	.01168 .01401	.00074	.00337 .01112	.01310 .02321	65A 65B
.00011 .00110 .00001	.00023 .00075 .00003	.00170 .00056 .00003	.00011 .00177 .00001	.00042 .00124	.00152 .00111 .00007	.00040 .00227 .00002	.00131 .00472 .00011	.00067 .00189 .00004	.00009 .01891 .00003	.00035 .00422 .00005	.00185 .00275 .00049	.00363 .00110 .00009	.00322 .00145 .00029	.00034 .00155 .00003	.00115 .00241 .00006	.00157 .00088 .00015	65C 65D 65E
.00107	.00125	.00177	.00148	.00171	.00172	.00242	.00186	.00282	.00415	.00275	.00246	.00291	.00224	.00350	.00239	.00332	65E 66 67
.00329	.02844	.01354 .00700	.00809	.00618	.01433	.00936	.02796 .01212	.01087	.00495	.00830	.03378	.02246	.02370 .01895	.00801	.00568	.00609	68A 68B
.00032 .02032 .00031	.00297 .04726 .00028	.00165 .02708 .00013	.00052 .03383 .00029	.00308 .05600 .00004	.00250 .05223 .00100	.00178 .05543 .00045	.01310 .04437 .00097	.00115 .03917 .00063	.00042 .01572 .00054	.00088 .03525 .00079	.00377 .03723 .00044	.00833 .05528 .00019	.00366 .04286 .00024	.00095 .03996 .00026	.00143 .04764 .00015	.00062 .02840 .00002	68C 69A 69B
.00497	.00278	.00377	.00438	.00761	.00612	.01032 .00157	.00370	.00162	.00515	.00513	.00324	.01671	.00255	.00517	.00265	.00133	70A 70B
.00296	.00185	.00356	.00600	.00603	.00419	.00699	.00270	.00464	.01452	.01113	.00522		.00291	.00585	.00451	.00480	71A 71B
.00031 .00025 .00042	.00007 .00499 .00080	.00014 .00327 .00064	.00024 .00224 .00020	.00092 .00406 .00022	.00030 .00045 .00030	.00051 .00074 .00042	.00204 .00155 .00224	.00006 .00044 .00113	.00174 .00106 .00907	.00397 .00055 .00304	.00048 .00045 .00079	.00023 .00030 .00041	.00075 .00200 .00041	.00037 .00132 .00014	.00076 .00063 .00020	.00056 .00006 .00008	72A 72B 73A
.00230 .00368	.00238 .01218	.00228 .00619	.00273 .00533	.00268 .00800	.00316 .00749	.01146 .02036	.00250 .00549	.00269 .00723	.01805 .03910	.00705 .01217	.02016 .01379	.00615 .02476	.02551 .00880	.04353 .02974	.00507 .01188	.00447 .00513	73B 73C
.02968 .00072	.00593 .00198	.02146 .00202	.01545 .00297	.01187 .00297	.01354 .00299	.01986 .00436	.01045 .00161	.00156 .00209	.01747 .00403	.01214 .00610	.01345 .00261	.01435 .00124	.01178 .00139	.01017 .00183	.02566 .00182	.00459 .00145	73A 73B 73C 73D 74 75 76
.00384 .00006	.00296 .00002	.00124 .00004	.00455 .00004	.00025 .00002	.00689 .00007	.00483 .00042	.00893	.00721 .00003	.00657 .00011	.01006 .00018	.00137 .00006	.00223 .00002	.00225 .00003	.00307 .00006	.00165 .00005	.00057	75 76 77A
.00044 .00205	.00057	.00020 .00150	.00040 .00232	.00572 .00225	.00240 .00097	.00170 .00170	.00075 .00087	.00014 .00085	.00156 .01179	.00142 .00680	.00029	.00076 .00040	.00130 .00047	.00478	.00114 .00154	.00036 .00066	77A 77B 78
.00029 .00178	.00047 .00065	.00046 .01039	.00018 .00092	.00518	.00035 .00018	.00037 .00087	.00187 .00103	.00030 .00007	.00017 .00111	.00024 .00268	.00080 .00753	.00048 .00748	.00047 .00361	.00047 .02158	.00056 .00562	.00007 .00536	78 79 80 81
							.01011										81 82 83
																	84 85
.36341 .63659 1.00000	.68257 .31743 1.00000	.72757 .27244 1.00000	.57928 .42072 1.00000	.59293 .40707 1.00000	.64428 .35572 1.00000	.53071 .46930 1.00000	.58188 .41812 1.00000	.65481 .34519 1.00000	.41606 .58394 1.00000	.48333 .51667 1.00000	.55820 .44180 1.00000	.75105 .24895 1.00000	.64682 .35319 1.00000	.38431 .61569 1.00000	.46895 .53105 1.00000	.53877 .46123 1.00000	VA T

Table 3.1.—Commodity-by-Industry

									abic o	[Direct		ts 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 miscel- laneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing	Primary nonferrous metals manu- facturing	Metal con- tainers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products
Com	Industry number	31	32	33+34	35	36	37	38	39	40	41	42
1	Livestock and livestock products											
2	Other agricultural products											
4 5+6	Agricultural, forestry, and fishery services Metallic ores mining	.00001	.00003		.00003	.00006 .00074	.00002 .02892	.00003 .06975	.00002	.00001 .00029	.00001	.00002
7 8	Coal mining	.00015 .55103	.00029 .00088	.00013	.00012	.00912	.02128 .00014	.00060	.00005	.00012	.00037	.00048
9+10 11	Nonmetallic minerals mining New construction	.00355	.00041	.00017	.01144	.08032	.00339	.00031		.00011		.00018
12	Maintenance and repair construction	.00691	.00458	.00324	.00806	.00751	.01901	.00484	.00276	.01179	.01013	.01243
13 14	Ordnance and accessories	.00031	.00020	.10266	.00008	.00131 .00057	.00030 .00009	.00010	.00003	.00014	.00008	.00010
15 16	Tobacco products Broad and narrow fabrics, yarn and thread mills		.00949	.02742		.00288		.00076				
17 18	Miscellaneous textile goods and floor coverings	.00029 .00001	.01044 .00014	.02265 .00043	.00017	.00003 .00014	.00012	.00002 .00006	.00007	.00003	.00008	.00002 .00022
19 20+21	Miscellaneous fabricated textile products Lumber and wood products	.00043	.00028 .00221	.00270	.00002 .01473	.00005 .00218	.00002 .00200	.00267	.00096	.00314	.00323 .00100	.00398
22+23 24	Furniture and fixtures	.00007	.00922	.00074	.00095	.01260	.00041 .00022		.00034		.00098	.00022
25 26A	Paperboard containers and boxes Newspapers and periodicals	.00138	.01154 .00010	.00762	.04394	.00324	.00117	.00184	.00233	.00525 .00010	.00414	.00741
26B 27A	Other printing and publishing Industrial and other chemicals	.00013	.00116	.00055	.00153	.00057	.00051	.00044	.01851	.00062	.00048	.00064
27B	Agricultural fertilizers and chemicals	.01275	.04564	.03114	.06106	.02902			.00516	.00270	.00756	.01671
28 29A	Plastics and synthetic materials	.00044	.18645	.01251		.00432		.01390	.00143	.00075	.00153	.00380
29B 30	Cleaning and toilet preparations	.00303 .00005	.00034 .00076	.00382	.00121	.00223 .00159	.00002 .00034	.00001 .00054	.00054 .01646	.00035 .00554	.00047 .00247	.00037 .00770
31 32	Petroleum refining and related products	.07204 .00449	.00275 .04761	.00109 .02878	.00281 .01077	.00544 .00286	.00487 .00204	.00646 .01147	.00145 .00164	.00237 .00967	.00126 .00302	.00265 .01933
33+34 35	Footwear, leather, and leather products Glass and glass products	.00002 .00201	.00005 .00526	.18407	.00012 .08137	.00001 .00162	.00003 .00008	.00085	.00002	.00002 .00739	.00173	.00257
36 37	Stone and clay products Primary iron and steel manufacturing	.00037	.00289 .00351	.00081	.01987	.11687	.01462 .15029	.00466 .00913	.00105 .21596	.00283 .18879	.00238 .24725	.00384
38 39	Primary nonferrous metals manufacturing Metal containers	.00121	.00134		.00008	.00054	.02159	.30618	.25264	.07272	.03065	.04613
40	Heating, plumbing, and fabricated structural metal products		.00052			.00016				.02268		.00009
41 42	Screw machine products and stampings Other fabricated metal products	.00288	.00513 .01005	.00108 .00495	.00219 .00012	.00229 .00502	.00403 .01134	.00160 .00936	.00128 .01338	.02753 .03357	.01488 .01828	.01641 .05522
43 44+45	Engines and turbines		.00017			.00004 .00029	.00016			.00003		.00073
46 47	Materials handling machinery and equipment	.00014	.00006 .00188	.00002 .00051	.00541	.00003 .00057	.00024 .00769	.00018 .00865	.00146	.00913	.02978	.00576
48 49	Special industry machinery and equipment	.00001	.00273 .00034	.00014 .00002	.00067 .00027	.00072	.01275	.00986	.00023	00460	.00005 .00197	.00068
50 51	Miscellaneous machinery, except electrical	.00030	.00298	.00100	.00305	.00110	.00304 .00006	.00202	.00170	.00262	.01157	.00421
52 53	Service industry machinery		.00015		.00208	.00027	.00006	.00583	.00008	.00076 .00250	.00155	.00487
54 55	Household appliances Electric lighting and wiring equipment	.00009	.00140	.00008	.00033	.00073	.00015	.00004	.00001	.00008	.00002	.00006
56 57	Audio, video, and communication equipment Electronic components and accessories	(*)	.00001		.00001	.00001	(*)	(*)	.00001	.00002	.00001	.00001
58	Miscellaneous electrical machinery and supplies	.00001	.00027		.00003	.00002	.00005	.00002	.00002	.00003		.00024
59A 59B	Motor vehicles (passenger cars and trucks)	.00040	.00015	.00002	.00022	.00022	.00010	.00021	.00016	.00021 .00025	.00065	.00024
60 61	Aircraft and parts Other transportation equipment						.00006					
62 63	Scientific and controlling instruments	.00017 .00004	.00050 .00022	.00013 .00016	.00098 .00021	.00036 .00024	.00031 .00017	.00025 .00015	.00009 .00010	.00217 .00026	.00017 .00017	.00029 .00023
64 65A	Miscellaneous manufacturing	.00002 .00111	.00022 .00705	.00948 .00212	.00010 .01151	.00091 .01472	.00016 .01687	.00009 .00595	.00007 .00346	.00051 .00311	.00013 .00334	.00033 .00241
65B 65C	Motor freight transportation and warehousing	.00408 .00645	.02724 .00134	.01015 .00039	.01378 .00073	.05778 .00352	.01345 .00469	.03027 .00101	.01593 .00024	.01548 .00030	.01353 .00040	.01241 .00047
65D 65E	Air transportation	.00049 .03978	.00148 .00007	.00275 .00002	.00415 .00009	.00139 .00006	.00114 .00007	.00181 .00004	.00421	.00292 .00004	.00085 .00001	.00352 .00004
66 67	Communications, except radio and TV	.00135	.00291	.00258	.00760	.00674	.00220	.00196	.00094	.00266	.00266	.00389
68A 68B	Electric services (utilities)	.01199 .00914	.02137 .00597	.00782 .00214	.02974 .03606	.02651 .01804	.04131 .02787	.04436 .01431	.01164 .00587	.00861 .00362	.01323 .00517	.01542 .00590
68C 69A	Water and sanitary services Wholesale trade	.00152	.00236 .04952	.00109	.00210	.00275	.00718	.00169	.00219	.00078 .05642	.00247	.00123 .05182
69B 70A	Retail trade	.00014	.00037	.00005	.00039	.00065	.00034	.00047	.00029	.00067	.00010	.00046
70B	Finance	.00894 .00262	.00212	.00109	.00429	.00655 .00208	.00363	.00473 .00198	.00321	.00423 .00191	.00179	.00192
71A 71B	Owner-occupied dwellings	.00446	.00629	.00514	.00536	.00497	.00230	.00326	.00449	.00648	.00435	.00497
72A 72B	Hotels and lodging places	.00019 .00039	.00027 .00138	.00495 .00138	.00090 .00074	.00039 .00127	.00015 .00111	.00064 .00151	.00087 .00042	.00471 .00045	.00034 .00126	.00068 .00111
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	.00092 .00273	.00310 .00678	.00052 .00346	.00142 .00328	.00203 .00385	.00158 .00280	.00063 .00248	.00087 .00194	.00051 .00407	.00254 .02243	.00235 .00520
73C 73D	Other business and professional services, except medical	.00838 .00233	.00801 .00823	.01032 .01493	.00576 .02331	.00933 .01977	.01830 .02952	.00996 .00953	.00396 .02021	.00931 .00634	.00704 .00829	.01082 .01849
74 75	Eating and drinking places Automotive repair and services	.00037	.00287 .00372	.00318	.00232	.00278	.00174	.00162 .00506	.00119	.00317 .00559	.00215	.00301 .00512
76 77A	Amusements Health services	.00002	.00008	.00002	.00047	.00004	.00003	.00004	.00002	.00011	.00004	.00005
77B 78	Educational and social services, and membership organizations Federal Government enterprises	.00105 .00052	.00347	.00026	.00052	.00090	.00019	.00066	.00076	.00086 .00106	.00305	.00091 .00118
79 80	State and local government enterprises	.00032	.00036	.00093	.00043	.00025	.00063	.00044	.00050	.00031 .00045	.00034	.00116 .00064 .00146
81	Noncomparable imports Scrap, used and secondhand goods			.00021	.00538 .00445		.00124 .03794	.04215	.00062	.00093		.00076
82 83	General government industry											
84 85	Household industry											
V <u>A</u>	Total intermediate inputs	.82405 .17595	.56032 .43968	.57683 .42317	.48960 .51040	.52980 .47020	.62741 .37259	.74788 .25212	.71260 .28740	.56748 .43252	.55629 .44371	.49871 .50129
Т	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

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

output, at producers' prices Farm, Materials Metal-construct handling working industry industrial laneous computer Service to the construction of the construction o	Materials Metal- handling working industry industrial laneous Computer Service	Metal- working industry industrial laneous Computer Service	industry industrial laneous Computer Service	industrial laneous Computer Service	laneous Computer Service				Electrical industrial	Household	Electric lighting	Audio, video, and	Electronic components	Miscel- laneous	Motor vehicles	Truck and bus bodies,	umber
tion, a mini machi	ng	machinery and equipment	machinery and equipment	machinery and equipment	machinery and equipment	machinery, except electrical	and office equipment	industry machinery	equipment and apparatus	appliances	and wiring equipment	communi- cation equipment	and accessories	electrical machinery and supplies	(passenger cars and trucks)	trailers, and motor vehi- cles parts	Commodity number
	44+45	46	47	48	49	50	51	52	53	54	55	56	57	58	59A	59B	8
																	1 2 3
004	.00006	.00001	.00003	.00002	.00003	.00004	.00002	.00002	.00005	.00001	.00003	.00004	.00004	.00004 .00428	.00003	.00004	4 5+6
28 	.00046	.00004				.00006		.00010	.00024		.00011	8		.00011	.00047	.00025	7 8 9+10
 55	.00834	.01031	.00598	.00756	.00669	.00961	.00777	.00607	.00818	.00472	.00605	.00376	.01014	.00534	.00321	.00680	11 12 13
6	.00010	.00028	.00017	.00017	.00010	.00005	.00001	.00008	.00011	.00012	.00010	.00002	.00010	.00006	(*)	.00002	13 14 15
16	.00005	.00006	.00011	.00006	.00585 .00015	.00086	.00003	.00008	.00017	.00222	.00060	.00024	.00026	.00038 .00014	.00087 .00245 .00010	.00003 .00162 .00004	16 17 18
	.00173	.00156 .00008	.00001	.00168	.00109	.00001 .00026	.00001 .00002 .00001	.00479	.00127	.00638 .00108	.00164	.00001 .00066 .01097	.00001	.00001 .00005 .00011	.02625 .00003 .01251	.00070 .00288 .00005	19 20+21 22+23
9	.00026 .00240	.00028 .00063	.00029	.00026 .00179	.00111	.00037 .00320 .00011	.00141 .00161 .00011	.00048 .00578 .00007	.00529 .00583 .00010	.00227 .02003	.00028 .01354	.00248 .00336 .00008	.00070 .00164	.00061 .00672	.00074 .00042	.00040 .00167	20+21 22+23 24 25
3	.00008 .00066 .00132	.00011 .00475 .00133	.00012 .00092 .00789	.00009 .00076 .01188	.00010 .00074 .00079	.00074	.00127	.00054	.00085	.00008 .00077 .00625	.00012 .00086 .00564	.00251 .00262	.00009 .00067 .01622	.00017 .00122 .01874	.00003 .00032 .00452	.00005 .00047 .00312	26A 26B 27A
					.00175	.00180	.00100	.00428	.00394	.02383	.02320	.00257	.00348	.00531	.00041	.00529	27B 28 29A
4	.00273 .00162	.00103 .00252	.00110 .00313	.00201	.00016 .00191	.00004 .00014 .00170	.00037	.00293	.00303 .00650	.00729	.00171 .00171	.00064 .00058	.00002 .00087	.00006 .00225	.01204 .00176	.00012 .00321 .00210	29A 29B 30 31 32
8	.02718 .00009	.01403	.00711 .00001	.01579	.01398	.00423 .00002	.01873 .00003	.01942 .00001	.02064	.04178	.02112	.03483 .00002	.05218 .00003	.04310 .00001	.06258 .00004	.03128 .00001	32 33+34
1 1 8 8	.00002 .00214 .11169	.00175 .08434	.00001 .01105 .06912	.00260 .00282 .06255	.00005 .00426 .09187	.00004 .00734 .06689	.00006 .00022 .00601	.00089 .00436 .05485	.00005 .00977 .04928	.01078 .00453 .07446	.03636 .00134 .04239	.00057 .00034 .00288	.00829 .00109 .00267	.00004 .00091 .01170	.00963 .00184 .00535	.00123 .00531 .06408	36 37
	.00842	.01323	.02012	.02247	.02749	.04547	.01269	.05086	.05356		.04578	.01031	.04019	.05788	.00064	.04415	38 39 40
39 55 14 33	.01474 .01646 .04669	.01868 .03618 .00922	.00841 .00800	.00634 .01330 .00367	.00812 .00925 .00355	.00942 .01266 .00060	.00347 .00542	.02168 .01735 .00133	.01764 .00972 .00459	.01579 .03691	.03167 .01577	.00795 .01010	.00910 .03583	.01022 .02279	.07407 .01227 .01768	.03305 .02006 .00083	41 42 43
 48	.03629 .00084 .00456	.05318 .00516	.03991			.01416	.00063	.00545	.00269	.00240	.00300	.00093	.00181	.00232	.00010	.00012	33+34 355 36 377 38 39 40 41 42 42 43 44+45 46 47 48 49 50 51 52 53 54 55 56 57 58 59A 59A 59B 60 61 62 63 64
 80 88	.02648	.03126 .02298	.00614	.02287 .02336 .02627		.01052 .05379	.00049	.01777	.00394	.00655	.00001		.00258 .00025 .00221	.00228	.00051	.02045	48 49 50
9	.00438	.03991	.02832	.00020 .00012 .06023	.00036 .00003 .04200	.00004	.02505	.05897	.00014	.02084 .03853	.02346	.00266 .00012 .00583	.00350	.00098	.02068	.00256	51 52 53
	.00028	.00008	.00027	.00004 .00004 .00001	.00003	.00085	.00370 .01636	.00634	.00282	.00518 .01236 .00001	.02753		.00160	.00782	(*) .00369 .01005	.00040 .00020	54 55
3	.00481	.00670	.00058	.00183	.00189	.00228	.07278	.00028	.02576	.00889	.00554	.20131	.00074 .09505 .00054	.06263 .04922	.00638 .02788	.00552 .01263	57 58
9	.00032 .00268	.00015	.00043	.00015	.00017	.00012 .00110	.00016	.00005	.00019		.00017	.00005	.00007	.00027	.01154 .29829 .00038	.00266 .09072	59A 59B 60
 11 20	.00017 .00026	.00018 .00029	.00021 .00033	.00017 .00028		.00015 .00033	.00030 .00027	.01769	.00176 .00028	.01971 .00018	.00017 .00031	.00132 .00024	.00400 .00028	.00043 .00043	.00016 .00920 .00013	.00020 .00039 .00020	61 62 63
10 54 16	.00043 .00143 .01142	.00049 .00100 .00812	.00032 .00127 .00710	.00012 .00130 .00516	.00015 .00093 .00567	.00011 .00108 .00498	.00042 .00047 .00196	.00141 .00135 .00694	.00074 .00270	.00700 .00202	.00212 .00178	.00032 .00050	.00022 .00094 .00440	.00019 .00172	.00044 .00426 .01616	.00017 .00251	64 65A 65B
3	.00056 .00448	.00024 .00281	.00025 .00431	.00017 .00557	.00025 .00529	.00020 .00322	.00012 .01325	.00036 .00536	.00689 .00023 .00972	.01083 .00020 .00509	.00826 .00011 .00837	.00340 .00008 .00540	.00021 .00611	.00724 .00034 .01156	.00032 .00511	.01357 .00038 .00281	65C 65D
4	.00002	.00001 .00409	.00004	.00003 .00466	.00002 .00433	.00001	.00003 .00344	.00002 .00337	.00003 .00556	.00233	.00006 .00370	.00001 .00391	.00004 .00384	.00005 .00391	.00002 .00119	.00003 .00449	65E 66 67
87 09 97	.00998 .00432 .00108	.00745 .00275 .00150	.01267 .00268 .00077	.00946 .00244 .00098	.01249 .00346 .00076	.01263 .00213 .00039	.00605 .00054 .00081	.00828 .00227 .00167	.01274 .00359 .00088	.00880 .00447 .00119	.01053 .00305 .00099	.00606 .00127 .00050	.01622 .00204 .00070	.01110 .00247 .00199	.00366 .00255 .00084	.01059 .00378 .00085	68A 68B 68C
13 13 55	.06511 .00029	.06394 .00035	.03692 .00071	.05717 .00035	.04961 .00034	.02824 .00034	.07429 .00032	.06810 .00016	.06207 .00037	.07255 .00005	.06463 .00030	.04840 .00012	.04367 .00015	.06621 .00054	.07863 .00092	.05346 .00062	69A 69B
5	.00389	.00445	.00509	.00653 .00174	.00473	.00830	.00646	.00262	.01087 .00180	.00715 .00147	.00926 .00155	.00400 .00146	.00925 .00144	.01064 .00214	.00368 .00257	.00231 .00206	70A 70B 71A
92 05 50	.00296 .00092 .00128	.00530 .00072 .00125	.00832 .00189 .00102	.00784 .00176 .00095	.00559 .00165 .00125	.00938 .00100 .00108	.00933 .00603 .00039	.00373 .00159 .00060	.00530 .00563 .00110	.00266 .00212 .00107	.00593 .00493 .00104	.00800 .00074 .00437	.00799 .00309 .00080	.00693 .00643 .00098	.00087 .00059 .00077	.00231 .00035 .00115	71B 72A 72B
67 18 35	.00299 .00638 .00742	.00184 .00614 .00894	.00194 .00638 .00965	.00137 .00690 .00924	.00249 .00609 .00955	.00278 .00749 .02424	.00093 .00741 .00848	.00122 .00489 .00588	.00185 .00566 .00975	.00128 .00276 .00766	.00170 .00620 .00941	.00237 .00578 .01104	.00176 .00652 .01205	.00177 .00907 .01174	.00079 .00164 .00405	.00133 .00307 .00702	73A 73B 73C
740 158	.02286 .00277	.02070 .00329	.01674 .00427	.01675 .00348	.01250 .00328	.01588 .00421	.00270 .00356	.01542 .00250	.03419 .00338	.02068 .00229	.01523 .00376	.01921 .00228	.00953 .00323	.02889 .00567	.01815 .00144	.02619 .00218	73D 74 75 76
36 11	.00130	.00165	.00866	.00389	.00337	.00571	.00411	.00117	.00446 .00004	.00102 .00002	.00390	.00122	.00146 .00047	.00659 .00115	.00359	.03183	77A
3 0 7	.00023 .00160 .00027	.00029 .00163 .00006	.00089 .00102 .00033	.00038 .00176 .00012	.00082 .00141 .00024	.00101 .00079 .00022	.00051 .00039 .00015	.00088 .00038 .00022	.00040 .00114 .00031	.00165 .00324 .00049	.00048 .00117 .00032	.00120 .00194 .00020	.00252 .00070 .00040	.00074 .00095 .00047	.00189 .00110 .00048	.00117 .00249 .00060	77B 78 79
	.00627	.00168	.00356 .00054	.00413	.00251 .00047	.00216 .00034	.01909	.00036	.00627	.00341	.00179 .00009	.00573	.00400	.00354 .00519	.00217	.01330 .00225	80 81 82
···																	83 84
 33 37 00	.55700 .44300	.53996 .46004	.41252 .58748	.47119 .52881	.46633 .53367	.40816 .59184	.56655 .43345	.53492 .46508	.48779 .51221	.57072 .42928	.48436 .51564	.50032 .49968	.44721 .55279	.54607 .45393	.81356 .18644	.61922 .38078	85 I V <u>A</u>
	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	Т

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

Partic companion of public standards, machine causes for tall and any engine of public companions as industry, machine causes for tall and any engine of public companions as industry, machine causes for tall and any engine of public companions as industry, machine causes for tall and any engine of public companions are industry										[Direc	t requireme	ents per dollar
Contract of the service products	nmodity number	For the composition of inputs to an industry, read the column for that industry		portation	and controlling	and photo- graphic	laneous manu-	related services; passenger ground	transportation and	transpor-	transpor-	freight forwarders, and related
Common	8	Industry number	60	61	62	63	64	65A	65B	65C	65D	65E
Person of their year services	1									0.00005		
Part Contact		Forestry and fishery products										
Commence of the process of the commence of t	4 5+6	Agricultural, forestry, and fishery services		(*)		.00007		.00006	.00005	.00013		.00007
April Committee meretic me	7	Coal mining		.00013	.00007		.00010	(*)				00000
Contraction of four control of the	9+10	Nonmetallic minerals mining										.00300
1		New construction			.00477	.00459			.00377	.00532	.00616	.01704
1						.00005	.00198		.00001			
Modelmones teals goods of floor coverings	15	Tobacco products										
19	17	Miscellaneous textile goods and floor coverings	.00117	.00508	.00461		.00130	.00002	.00004		(*)	
## Timbe and flushes and containing ## DOCK DOCK	19	Miscellaneous fabricated textile products	.00199	.00755	(*)		.00381		.00011			.00447
200 Person and field goodunts associated continued in the process of the proc		Furniture and fixtures							.00013			.00137
April	24 25	Paper and allied products, except containers										
Additional and other effencies	26A	Newspapers and periodicals	.00005	.00006	.00012	.00011	.00021	.00015	.00021	.00011	.00019	.00032
23 Partis and all old products 100	27A	Industrial and other chemicals			.00348	.02383	.01018	.00197	.00069	.00073	.00022	
Comparison Com	28	Plastics and synthetic materials	.00117	.00766	.00671	.00622						
Second products	29A 29B	Drugs			.00003			.00002	.00003		.00005	
2.5 Claster and miscellamences placetic growted: 0.00065 0.00005 0	30	Paints and allied products					.00433					
Signate and glass products	32	Rubber and miscellaneous plastics products	.00856	.01200	.01690	.02040	.02863	.00330	.00963	.00315	.00024	.00253
37 Pinnay from and state manufacturing	35	Glass and glass products	.00018	.00980	.00227	.00503	.00085	.00085	.00005		.00001	.00030
Metal continuers	37	Primary iron and steel manufacturing	.01643	.03878	.01510	.00148	.01657	.00190	.00001	.00001	.00004	
Heating, Funthing, and fathicited structural metal products 0.0023 0.0171 0.0036 0.0037 0.0038 0.0071 0.0038 0.0072 0.0038 0.0073 0.0073 0.0073 0.0074 0.	38 39	Primary nonferrous metals manufacturing	.04310	.01815								
Other babicated metal products	40	Heating, plumbing, and fabricated structural metal products			.00514		.00002				00063	
4445 Farm. construction, and mining machinery	42	Other fabricated metal products	.01130	.01987	.01535	.01192	.00872	.00615	.00226	.02075	.00073	
47 Meshavenking machinery and equipment	44+45	Farm, construction, and mining machinery		.00458								
General industrial maturininy and squipment 0,00006 0,00287 0,0007	47	Metalworking machinery and equipment				.00117						.00005
	48 49	Special industry machinery and equipment	.00200	.02087		.00096		.00670	.00066	.02381	.00005	.00449
Service industry machinery	50 51	Miscellaneous machinery, except electrical	.00940		.00224	.00190	.00376	.00357	.00022	.00652	.00057	.00071
Household appliances	52	Service industry machinery					.00080	.00003	.00018	.00003	.00002	
Miscellaneous electrical machinery and supplies 0.0094 0.00536 0.00254 0.0014 0.00036 0.00177 0.0060 0.00138 0.00033 0.00173	54	Household appliances		.00615					(*)	.00055	(*)	
Miscellaneous electrical machinery and supplies 0.0094 0.00536 0.00254 0.0014 0.00036 0.00177 0.0060 0.00138 0.00033 0.00173	55 56	Audio, video, and communication equipment	.01171	.00055	.00023	.00002	.00011	.00001	.00003		.00009	.00029
Motor vehicles (passenger cars and trucks)	57 58	Electronic components and accessories				.07973 .00144		.00025 .00127				
66 Aircraft and parts	59A	Motor vehicles (passenger cars and trucks)	00006	.02501		00011			.00016		00017	
Scientific and controlling instruments	60	Aircraft and parts		.00166								
Miscellaneous marufacturing	62	Scientific and controlling instruments		.00292			.00025	.00005	.00003	.00135		.00005
Best Railroads and related services; passenger ground transportation .00048 .00028 .00038 .00028 .00038	64	Miscellaneous manufacturing	.00018	.00020	.00054	.00023	.03681	.00032	.00026	.00202	.00048	.00092
650 Water transportation		Railroads and related services; passenger ground transportation										
65E Pipelines, freight forwarders, and related services .00004 .00002 .00004 .00002 .00004 .00002 .00166 .00169 .01227 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .01427 .00471 .01216 .00886 .00688 .00688 .00688 .00688 .00688 .00688 .00681 .00885 .00688 .006		Water transportation										
67 Radio and TV broadcasting 68A Electric services (Utilities) 68B Gas production and distribution (utilities) 68C Water and sanitary services 68C Water and s	65E	Pipelines, freight forwarders, and related services	.00004	.00001	.00002	.00004	.00002	.01656	.03052	.05922	.06322	.04193
68B Gas production and distribution (utilities) .0015 .001014 .00176 .00229 .00077 .00038 .0015 .00014 .00176 .00329 .00077 .00036 .00415 .00014 .00176 .00329 .00077 .00036 .00415 .00041 .00047 .00501 .00041 .00176 .00329 .00077 .00036 .00414 .00176 .00329 .00031 .0068 .00461 .02727 .00506 .00507 .00033 .00685 .00461 .02728 .00773 .00421 .05419 .00726 .0033 .0068 .00773 .00421 .05419 .02767 .03980 .00773 .00421 .05419 .02767 .03980 .00824 .00733 .00681 .00753 .00421 .05419 .02767 .03980 .00824 .00733 .00681 .00753 .00214 .00436 .00421 .05419 .00776 .00330 .00731 .00683 .00143 .00033 .00731 .00683 .00143 .	67	Radio and TV broadcasting										
69A Wholesale trade .01889 .05513 .03759 .03651 .05230 .01814 .01541 .02347 .02972 .00506 .00102 70A Finance .01075 .00206 .00529 .01053 .00766 .00773 .00421 .05419 .02767 .03960 71B Insurance .00175 .00206 .00559 .01053 .00766 .00773 .00421 .05419 .02767 .03960 71B Competer and class and repairs services .00359 .01437 .00955 .00214 .00436 .00844 .00322 .00486 .02048 71B Real estate and royalties .00559 .01437 .00905 .00439 .00731 .00683 .01865 .03301 .01318 .03611 72A Chretes and lodging places .00056 .00056 .00105 .00044 .00083 .00078 .00050 .00332 72B Computer and data processing services (except auto) .00056 .00155 .00044	68B	Gas production and distribution (utilities)	.00175	.00110	.00155	.00204	.00192	.00005	.00037	.00015	.00019	.00144
Total Finance	69A	Wholesale trade	.01889	.05513	.03759	.03651	.05230	.01814	.01541	.02347	.02972	.00506
Total Insurance										.05419		
Real estate and royalties 0.0559 0.1437 0.0905 0.0439 0.0731 0.0693 0.1865 0.3301 0.1318 0.3611 72A Hotels and lodging places 0.0056 0.0056 0.0056 0.0056 0.0072 0.0188 0.0078 0.0068 0.0056 0.00332 72B Personal and repair services (except auto) 0.0056 0.0056 0.0056 0.0015 0.0044 0.0094 0.0083 0.0078 0.0096 0.0552 0.0194 73A Computer and data processing services 0.0125 0.0059 0.0116 0.0097 0.0042 0.0804 0.0294 0.0122 0.0994 0.0773 73B Legal, engineering, accounting, and related services 0.0619 0.0373 0.0939 0.0591 0.0006 0.0395 0.0471 0.0395 0.0472 0.0478 0.0235 0.0471 0.0395 0.0472 0.0478 0.0235 0.0471 0.0395 0.0472 0.0478 0.0235 0.0472 0.0478 0.0235 0.0472 0.0478 0.047	70B	Insurance					.00214			.00032		
Personal and repair services (except auto)	71B	Real estate and royalties					.00731					
Table Legal, engineering, accounting, and related services .00619 .00373 .00939 .00591 .01104 .00395 .00471 .00303 .00460 .01700 .01700 .01700 .01700 .01700 .00478 .00238 .01408 .01269 .00730 .00460 .01700 .002477 .00360 .002477 .00586 .00079 .00205 .01021 .02283 .02487 .00760 .02475 .02477 .05086 .00079 .00205 .01021 .02283 .02487 .00760 .02475 .02477 .05086 .00079 .00205 .01021 .02283 .02487 .00760 .00760 .00760 .00760 .00775 .00476 .00775 .00876 .00775 .00876 .00775 .00876 .00775 .00876 .00775 .00877 .00876 .00775 .00876 .008775 .00877	72B	Personal and repair services (except auto)	.00056	.00056	.00105	.00044	.00094	.00083	.00078	.00096	.00552	.00194
Advertising	73B	Legal, engineering, accounting, and related services	.00619	.00373	.00939	.00591	.01004	.00395	.00471	.00303	.00460	.01700
Table Tabl	73D	Advertising	.02349	.00760	.02475	.02477	.05086	.00079	.00205	.01021	.02283	.02487
76 Amusements .00025 .00050 .00033 .00062 .00033 .00010 .00013 .00005 .00041 77A Health services .00149 .00032 .00182 .00565 .00376 .00306 .00048 .00256 .00010 .00444 7B Educational and social services, and membership organizations .00149 .00032 .00182 .00565 .00376 .00306 .00048 .00256 .00010 .00444 7B State and local government enterprises .00021 .00016 .00024 .00033 .00274 .00133 .00127 .00029 .00028 .0016 .00022 .0016 .00028 .00029<	74 75	Eating and drinking places		.00155	.00360	.00299	.00713	.00412	.00478	.00235	.03001	.01838
77B Educational and social services, and membership organizations .00149 .00032 .00182 .00565 .00376 .00366 .00048 .00265 .00010 .00444 78 Federal Government enterprises .00146 .00044 .00034 .00033 .00274 .00133 .00127 .00029 .00009 .00229 79 State and local government enterprises .00021 .00016 .00028 .00020 .00025 .00143 .00116 .00029 .00029 80 Noncomparable imports .00120 .00068 .00398 .01553 .02925 .00413 .0008 .11975 .05589 .00236 81 Scrap, used and secondhand goods	76	Amusements				.00062	.00033	.00010				
State and local government enterprises 0.0021 0.0016 0.0028 0.0020 0.0025 0.0143 0.0116 0.0002 0.0029 0.002	77B	Educational and social services, and membership organizations				.00565	.00376					
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 1 Total intermediate inputs 85 Inventory valuation adjustment 1 Total intermediate inputs 95 S2680 42532 42898 52426 338598 44251 68209 53832 40911 96 VA Value added 96 48105 47320 57468 57103 47574 61402 55749 31791 46168 59089	79	State and local government enterprises	.00021	.00016	.00028	.00020	.00025	.00143	.00116	.00002	.00029	.00029
82 General government industry	81	Scrap, used and secondhand goods									.05589	.00236
84 Household industry Household industry 85 Inventory valuation adjustment .51895 1 Total intermediate inputs .51895 VA Value added .48105 .47320 .57468 .57103 .47574 .61402 .55749 .31791 .46168 .59089	82	General government industry										
I Total infermediate inputs	84	Household industry										
T Total 1.000000 1.00000 1.00000 1.00000 1.00000 1.000000 1.000000 1.000000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.	- 1	Total infermediate inputs	.51895	.52680	.42532	.42898	.52426	.38598	.44251			
				1.00000		1.00000	1.00000		1.00000			

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

of industry	output, at p	roducers' p	rices]														
Communications, except radio and TV	Radio and TV broad- casting	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, ex- cept medical	Advertising	Commodity number
66	67	68A	68B	68C	69A	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D	Com
										.00005	0.00004 .00008				0.00012		1 2
.00002	.00013	.00015	.00003	.00052	.00034	.00020	.00010	.00004	.00795	.00527	.00003 .00529	.00015	.00006	.00006	.00026	.00004	1 2 3 4
		.10035	.24304	.00044	.00006	.00002				(*)	.00018	.00006			.00002		5+6 7 8
																	9+10 11
.04145 (*) .00001	.00971	.06621 (*) (*)	.00962	.00037	.00665 .00004 .00016	.01365 (*) .00226	.00686 (*) .00001	.00299 (*) .00001		.05700 (*) .00003	.03618 .00001 .00254	.00975	.00271	.00176 .00004 .00005	.00664 .00093 .00064	.00558	12 13 14 15 16 17 18
.00045	.00001	.00003	(*)	.00011	.00014 .00015	.00006				(*) (*)	.00116 .00019 .00235	.00286 .00023 .00512	(*)	.00001	.00003 .00035	.00001	16 17 18
.00001	.00001	(*)	(*)	.01258	.00039 .00315	.00011 .00013	.00045	.00007		.00001	.01294 .00012	.00542 .00038	.00001 .00015	(*) .00018	.00005 .00013	.00111 .00007	19 20+21
.00049	.00046	.00027	.00007	.00605	.00001 .00412 .01000	.00001 .00701 .00125	.00290	.00083		.00001 .00119 .00006	.00001 .00719 .00014	.00002 .00458 .00033	.00002 .00600 .00019	.00002 .00359 .00020	.00002 .00407 .00016	.00001 .00329 .00054	20+21 22+23 24 25 26A 26B
.00011 .00427	.00022 .00180	.00005 .00092	.00002 .00026	.00020 .00177	.00022 .00895	.00021 .00043	.00106 .01279	.00014 .00803		.00004 .00338	.00082 .00809	.00033 .01039	.00028 .03398	.00018 .00853	.00035 .01339	.00021 .04330	26A 26B
.00058	.00100		.00006	.04520 .00020	.00016	.00006	.00004	.00003	.00083	.00006 .00029	.00012 .00518	.00353	.00006	.00008	.00351 .00132	.00020	27A 27B 28
.00032			.00008		.00009	.00007	.00010			.00010	.00589	.01354	.00014	.00021	.00021 .00325	.00007	29A 29B
.00068 .00073 .00244	.00032	.02325	.00500	.02308	.00651 .00277	.00502 .00100	.00146	.00057 .00012	.00023	.00102 .00142	.00589	.00002 .00468 .01669	.00199	.00257	.00062 .00312 .00794	.00006 .00290 .00118	29A 29B 30 31 32 33+34 35 36 37 38 39 40
.00003	.00008	.00001 .00009	.00001 .00001	.00004 .00306	.00015 .00039	.00005 .00002	.00007 .00015	.00010 .00001		.00003 .00002	.00021 .01168	.01042	.00007 .00005	.00021 .00019	.00009 .00082	.00007	33+34 35
.00001 .00001 .00027		.00007 .00001 .00083	.00001	.00107	.00026 .00008	.00004 .00002	.00004 (*)	.00001		.00008 (*)	.00073 .00002	.00372 .00006 .00044	.00001 .00001	.00001 .00002	.00027 .00008	.00001 .00004	36 37 38
		.00011			.00149 .00009				.00031	.00016					.00112		39 40
.00204 .00113 .00150	.00002	.00074 .00015 .00472	.00003	.02770	.00056	.00142	.00005	.00001		.00019	.00062	.00092 .00277	.00043	.00060	.00069 .00097 .00046	.00027	41 42 43
		.00009			.00006 .00062	(*)			.00060	.00001					.00231 .00117		44+45 46
.00002		.00061	.00003	.00020	.00023 .00001 .00002	.00008 .00002 .00003	.00001	(*)		(*) (*) .00006	.00004 .00001	.00020 .00001	.00004 .00002	.00004 .00002	.00265 .00124 .00328	.00003 .00001	41 42 43 44+45 46 47 48 49 50 51 52 53 54 55 56 57 58
.00004	.00008	.00035	.00007	.00044	.00051 .00012	.00017 .00009	.00022	.00001		.00001	.00008	.00081	.00009	.00024 .00146	.00119 .00160	.00006	50 51
.00164	.00074	.00150	(*)	.00028	.00029 (*)	.00021	.00003	(*)		.00016	.00018	.00237 .00059 .00992	.00145	(*)	.00115 .00253 .00013		52 53
.00034 .01352	.00001 .00172	.00098	.00014	.00212 .00004	.00009	.00009	.00014 .00013	.00003 .00014		.00017	.00299	.00040 .00036	.00011	.00037 .00009	.00082 .00043	.00006 .00007	55 56
.01044 .00128	.02646 .00156	.00161	.00004 .00147	.00012 .00162	.00005 .00050	.00001 .00031	.00074 .00128	.00005 .00098		.00036	800008	.02425 .00042	.02871 .00725	.00008 .00191	.01511 .00288	.00106	57 58 594
.00009	.00008	.00010	.00008	.06445	.00082	.00057	.00017	.00024		.00013	.00040	.00047	.00024	.00100	.00051	.00061	59A 59B 60 61
.00009 .00006 .00042	.00007 .00074 .00648	.00006 .00071 .00020	.00003 .00025 .00009	.03534 .00046	.00016 .00045	.00005 .00028	.00023 .00003 .00365	.00001 .00003 .00147		.00001 .00024	.00015 .00082 .00044	.00039	.00061 .00048	.00003 .00404	.00119 .00062 .00633	.00011	61 62 63 64
.00058 .00045	.00036 .00116	.00017 .02682	.00008	.00087	.00091	.00098 .00172	.00143 .00196	.00082 .00188	.00003	.00035 .00117	.00283 .00257	.02130 .00118	.00040 .00102	.00213	.00160 .00166	.00127 .00176	64 65A
.00088 .00009 .00145	.00210 .00005 .00716	.00308 .00314 .00254	.00023 .00037 .00160	.00646 .00123 .00248	.00228 .00026 .01023	.00273 .00013 .00185	.01839 .00008 .00728	.00235 .00004 .00290	.00004 .00001 (*)	.00157 .00004 .00112	.00422 .00025 .00112	.00457 .00031 .00282	.00186 .00006 .00906	.00126 .00013 .00940	.00309 .00057 .01484	.00231 .00015 .00268	65B 65C 65D
.00001 .20595	.00002 .00646	.00011 .00144	.00430 .00037	.00039 .00654	.00093 .01315	.00008 .01087	.00003 .01812	.00040 .01391		.00030 .00405	.00119 .01433	.00007 .01479	.00004 .02582	.00005 .01239	.00007 .01542	.00004 .01324	65E 66
.00298	.01601 .00083 .00011	.00020	.00245	.00329	.00773 .00432	.02363	.00594	.00057		.00081	.03116 .01474	.01797	.00486	.00262	.00577	.02854 .00271 .00062	67 68A 68B
.00705 .00548	.00112 .00523	.00152 .01014	.00036 .00431	.05416 .03193	.00073 .02349	.00163 .00403	.00102 .00435	.00172 .00160	.00044	.00020 .00130	.00906 .01361	.00218 .02289	.00023 .01486	.00095 .00674	.00038 .01376	.00020 .00441	68C 69A
.00025 .01178 .00040	.00013 .00998 .00012	.00036 .01167 .00719	.00029 .00658 .00075	.00513 .01410 .09486	.00180 .01364 .00117	.00214 .00874 .00127	.00047 .16855 .01144	.00027 .03374 .31305	.00079 .00498 .02985	.00060 .01655 .01663	.00123 .04711 .00115	.00125 .01273 .00109	.00067 .00893 .00059	.00125 .00794 .00177	.00117 .01138 .00339	.00112 .00969 .00120	69B 70A 70B
.01741	.05335	.00383		.00710		.05778	.03310	.02795	.03758	.08499	.03716	.05681	.03372	.04960	.02888	.06731	71A 71B
.00050 .00250 .01022	.00113 .01178 .00418	.00031 .00203 .00686	.00011 .00054 .00354	.00333 .01262 .00786	.00703 .00416 .00094	.00142 .00471 .00466	.00281 .00149 .04361	.00606 .00111 .00667		.00239 .00201 .00020	.00069 .01668 .00043	.00126 .02165 .00537	.00143 .00092 .11605	.01758 .00313 .04656	.00476 .00125 .02734	.01201 .00287 .00133	72A 72B 73A
.00441 .00657	.01365 .01598	.00384 .00392	.00146 .00253	.01217 .01188	.01156 .04882	.03367 .01777	.02525 .04543	.01633 .01136	.00510 .00414	.00576 .01936	.01537 .06561	.04170 .03387	.00807 .02752	.08644 .08999	.02394 .06352	.01257 .02751	73B 73C
.00730 .00312 .00325	.00278 .00786 .00134	.00059 .00102 .00358	.00029 .00053 .00323	.00160 .00476 .00032	.02002 .01365 .02130	.04968 .01308 .01633	.01238 .01171 .00542	.01171 .01652 .00462		.01647 .00878 .00363	.01604 .00123 .01319	.02250 .00697 .01312	.00876 .00778 .00763	.00277 .00642 .01527	.01051 .01149 .01093	.00579 .01255 .01999	73B 73C 73D 74 75 76
.00434	.31920	.00004	.00002	.00012	.00244	.00047	.00042	.00038		.00019	.00040	.00028	.00018	.00068	.00069	.00774	77A
.00143 .00156 .00021	.00441 .00075 .00089	.00262 .00246 .00015	.00034 .00191 .00012	.00089 .00385 .00008	.00155 .00206 .00089	.00101 .00346 .00102	.00270 .02482 .00015	.00036 .00398 .00014		.00051 .00123 .00030	.00317 .00461 .00567	.01355 .00460 .00184	.00565 .00426 .00032	.00518 .00763 .00064	.00607 .00706 .00054	.00236 .00399 .00147	77B 78 79
.02332	.00118	.00005	.00012	.00008	.00640	.00032	.01360	.00358		.00030	.00146	.00015	.00295	.00261	.00420	.00147	80 81
																	82 83 84
.41072	.54212	.35253	.61028	.66387	.29688	.30277	.49550	.50002	.14182	.26254	.45824	.48745	.41188	.41167	.37290	.31110	85 I
.58928 1.00000	.45788 1.00000	.64747 1.00000	.38972 1.00000	.33613 1.00000	.70312 1.00000	.69724 1.00000	.50450 1.00000	.49998 1.00000	.85818 1.00000	.73746 1.00000	.54176 1.00000	.51255 1.00000	.58812 1.00000	.58833 1.00000	.62710 1.00000	.68890 1.00000	VA T

Table 3.1.—Commodity-by-Industry Direct Requirements, 1987 Benchmark—Continued [Direct requirements per dollar of industry output, at producers' prices]

	[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	Eating and drinking places	notive repair and services	Amuse- ments	Health services	and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	General government industry	Household industry	Inventory valuation adjustment	
Com	Industry number	74	75	76	77A	77B	78	79	82	84	85	
1 2	Livestock and livestock products	0.00187 .00691		0.00026 .00011	0.00018 .00036	0.00054 .00062	0.00009 .00032	.00001				
3 4	Forestry and fishery products Agricultural, forestry, and fishery services	.00799	.00013	.00005	.00008	.00020 .00317	.00034 .00006	.00180				
5+ <u>6</u>	Metallic ores mining											
8	Coal mining	.00002	.00005	.00002	.00002	.00005	.02336	.01528				
9+10 11	Nonmetallic minerals mining					.00002		.00036				
12 13	Maintenance and repair construction Ordnance and accessories	.00877	.00501	.01301	.00810 .00001	.04686 .00003	.01259 .00001	.23160 .00001				
14 15	Food and kindred products	.22463	.00005	.00837	.00897	.01945	.00865	.00006				
16 17	Broad and narrow fabrics, yarn and thread mills	.00012	.00012	.00088	.00005	.00030 .00006	.00032 .00010	.00014				
18 19	Apparel		.00129 (*)	.00177 .00116	.00111 .00229	.00159 .00045	.00002 .00171	.00044				
20+21 22+23	Lumber and wood products Furniture and fixtures	.00013	.000Ò7 (*)	.00267	.00014	.00131 .00001						
24 25	Paper and allied products, except containers Paperboard containers and boxes	.00351 .00415	.00145 .00012	.00195	.00456	.01001 .00079	.00070 .00032	.00073				
26A	Newspapers and periodicals	.00003	.00033	.00036	.00053	.00378	.00007	.00009				
26B 27A	Other printing and publishing	.00141 .00030	.00061 .00045	.00495 .00214	.00774 .01925	.06383 .00148	.00843 .00017	.00233 .01637				
27B 28	Agricultural fertilizers and chemicals			.00012		.00040		.00171				
29A 29B	Drugs	.00056	80000.	.00014	.01910 .00248	.00083 .00124	.00001 .00064	.00005 .00075				
30 31	Paints and allied products Petroleum refining and related products	.00061	.00600 .02802	.00003 .00133	.00272	.00025 .00644	.01412	.00001 .06116				
32 33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	.00698	.01018	.00494	.02314	.00678	.00108	.00165				
35	Glass and glass products	.00162	.00648	.00004	.00233	.00165	.00007	.00013				
36 37	Stone and clay products	.00018	.00028	.00003 .00001	.00085 .00002	.00003 .00012		.00205 (*)				
38 39	Primary nonferrous metals manufacturing	.00010		.00035		(*)	.00002					
40 41	Heating, plumbing, and fabricated structural metal products Screw machine products and stampings	.00004	.02549	.00038	.00072	.00003 .00110	.00002 .00198	.00003 .00005				
42 43	Other fabricated metal products Engines and turbines	.00025	.03684	.00075	.00052	.00189	.00018	.00044				
44+45	Farm, construction, and mining machinery			.00002		(*)		.00304				
46 47	Materials handling machinery and equipment	(*)	.00014	.00023	.00002	.00007	.00009 .00012	.00022				
48 49	Special industry machinery and equipment	.00025 .00044	.00010 .00041	.00002 .00002	.00001	.00001	.00038	.00018				
50 51	Miscellaneous machinery, except electrical	.00055 .00002	.00958 .00008	.00018	.000ò6 .00013	.00021 .00070	.00030	.00618				
52	Service industry machinery Electrical industrial equipment and apparatus	.00007	.00516	.00070	.00003	.00007 .00005	.00049	.00028 .00726				
54	Household appliances	(*)		.00002	.000ÒŹ	.00009	.00007	.00072				
53 54 55 56 57	Electric lighting and wiring equipment	.00042 .00003	.00730 .00138	.00085	.00091	.00132 .00080	.00058 .00012	.00151				
58	Electronic components and accessories	.00002	.00407	.00009 .00046	.00007 .00092	.00124 .00110	.00014 .00083	.00057 .00163				
59A 59B	Motor vehicles (passenger cars and trucks)	.00011	.07633	.00013	.00032	.00078	.00589	.00279				
60 61	Aircraft and parts Other transportation equipment		.00026	.00131	.00001	.00006	.00074	.00186				
62 63	Scientific and controlling instruments	.00003	.00028 .00031	.00017 .00238	.01979 .00202	.00081 .00326	.00009 .00029	.00024 .00021				
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	.00140	.00036	.00234	.00077	.00502 .00155	.00116 .01594	.00062 .00633				
65B	Motor freight transportation and warehousing	.00736	.00614	.00241	.00249	.00518	.03561	.00445				
65C 65D	Water transportation	.00030	.00086 .00371	.00052 .00300	.00025 .00282	.00027 .01705	.00169 .02041	.00288 .00141				
65E 66	Pipelines, freight forwarders, and related services	.00001 .00384	.00070 .00781	.00002 .00841	.00006 .00819	.00015 .01154	.00023 .00322	.00108 .00336				
67 68A	Radio and TV broadcasting	.02123	.00770	.01407	.00937	.01335	.00619	.06452				
68B 68C	Gas production and distribution (utilities)	.00174 .00157	.00398 .00063	.00282 .00160	.00443 .00086	.00632 .00167	.00182 .00182	.04435 .00437				
69A 69B	Wholesale trade Retail trade	.04442	.03596	.00637	.01955	.01612 .00086	.00829	.02254				
70A	Finance	.01068	.03214	.00918	.00428	.01366	.00099	.00580				
70B 71A	Insurance	.00016	.01731	.00099	.00361	.00468	.00096	.00708				
71B 72A	Real estate and royalties Hotels and lodging places	.04250 .00013	.03553 .00117	.05301 .00294	.06437 .00138	.10665 .00689	.01166 .00057	.00987 .00073				
72B 73A	Personal and repair services (except auto)	.00272 .00103	.01369 .00013	.00527 .00418	.00291 .01407	.00268 .00918	.00020 .00066	.00025 .00374				
73B 73C	Legal, engineering, accounting, and related services Other business and professional services, except medical	.01063 .01977	.00585 .03081	.02735 .04947	.00641 .02847	.01519 .03354	.00174 .00994	.03169 .01232				
73D 74	Advertising Eating and drinking places	.02211	.01161	.03332	.00269	.02133 .00762	.00006	.00150 .00163				
75	Automotive repair and services	.00193	.01915	.00608	.00997	.00851	.01145	.00259				
76 77A	Amusements	.00461	.00014	.20386	.00026 .01997	.00635	.00085	.00005				
77B 78	Educational and social services, and membership organizations	.00143 .00057	.00129 .00404	.00485 .00467	.00212 .00551	.00233 .01368	.00028 .00839	.00117 .00101				
79 80	State and local government enterprises	.00089 .00035	.00286 .00009	.00109 .00197	.00067 .00013	.00148 .00560	.00054 .02389	.00008				
81 82	Scrap, used and secondhand goods General government industry		.00129									
83	Rest of the world adjustment to final uses											
84 85	Household industry	40045										
VA	Total intermediate inputs	.48045 .51955	.52263 .47738	.51974 .48026	.35364 .64636	.52456 .47545	.25633 .74367	.60063 .39937	1.00000	1.00000	1.00000	
Т	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	

*Less than .000005.

Table 3.2.—Input Components by Industry: Direct Requirements, 1987 Benchmark [Direct requirements per dollar of total industry output, at producers' prices]

	[Direct requirements per	donar or total in	Value		ı				
Industry				Indirect business		Total intermediate	Total	Industry	
number		Total	Compensation of employees	tax and nontax liability	Other value added	inputs	rotai	number	
1	Livestock and livestock products	0.17231	0.03754	0.01247	0.12231	0.82769	1.00000	1	
2 3	Other agricultural products	.53862 .49729	.06478 .10449	.02923 .02123	.44461 .37157	.46138 .50271	1.00000 1.00000	2	
4 5+6	Agricultural, forestry, and fishery services	.44809 .51061	.44779 .26965	.07363	.00030 .16733	.55191 .48939	1.00000 1.00000	4 5+6	
7	Coal mining	.60852	.32937	.07986	.19929	.39148	1.00000	7	
8 9+10	Crude petroleum and natural gas	.65874 .63355	.13889 .30914	.04676 .05306	.47308 .27136	.34126 .36645	1.00000 1.00000	8 9+10	
11+12	Construction	.47026	.30704	.00725	.15597	.52974	1.00000	11+12	
13 14	Ordnance and accessories	.60207 .30830	.39347 .13438	.00746 .02217	.20113 .15176	.39794 .69170	1.00000 1.00000	13 14	
15	Tobacco products	.63659	.10812	.17817	.35029	.36341	1.00000	15	
16 17	Broad and narrow fabrics, yarn and thread mills	.31743 .27244	.21999 .17078	.00616 .00638	.09129 .09528	.68257 .72757	1.00000 1.00000	16 17	
18 19	Apparel Miscellaneous fabricated textile products	.42072 .40707	.27269 .23828	.00373 .00491	.14430 .16388	.57928 .59293	1.00000 1.00000	18 19	
20+21	Lumber and wood products	.35572	.22187	.01717	.11668	.64428	1.00000	20+21	
22+23 24	Furniture and fixtures	.46930 .41812	.31030 .20152	.00626 .01641	.15273 .20019	.53071 .58188	1.00000 1.00000	22+23 24	
25	Paperboard containers and boxes	.34519	.24971	.00802	.08746	.65481	1.00000	25	
26A 26B	Newspapers and periodicals	.58394 .51667	.30950 .31472	.00513 .01095	.26931 .19100	.41606 .48333	1.00000 1.00000	26A 26B	
27A 27B	Industrial and other chemicals	.44180 .24895	.18468 .14431	.02162 .01670	.23551 .08794	.55820 .75105	1.00000 1.00000	27A 27B	
28	Agricultural fertilizers and chemicals	.35319	.16128	.01883	.17308	.64682	1.00000	28	
29A 29B	Drugs	.61569 .53105	.23026 .15973	.00423 .00553	.38119 .36579	.38431 .46895	1.00000 1.00000	29A 29B	
30	Paints and allied products	.46123	.20750	.00263	.25109	.53877	1.00000	30	
31 32	Petroleum refining and related products	.17595 .43968	.04973 .27384	.07681 .01954	.04941 .14630	.82405 .56032	1.00000 1.00000	31 32	
33+34 35	Footwear, leather, and leather products	.42317 .51040	.27146 .30307	.00317 .01357	.14854 .19376	.57683 .48960	1.00000 1.00000	33+34 35	
36	Stone and clay products	.47020	.27331	.01837	.17852	.52980	1.00000	36	
37 38	Primary iron and steel manufacturing Primary nonferrous metals manufacturing	.37259 .25212	.26280 .18522	.01738 .01046	.09241 .05644	.62741 .74788	1.00000 1.00000	37 38	
39	Metal containers	.28740	.16959	.00712	.11069	.71260	1.00000	39	
40 41	Heating, plumbing, and fabricated structural metal products	.43252 .44371	.29073 .35169	.01119 .01602	.13059 .07600	.56748 .55629	1.00000 1.00000	40 41	
42 43	Other fabricated metal products	.50129 .44167	.33126 .28186	.01127 .01244	.15877 .14737	.49871 .55833	1.00000 1.00000	42 43	
44+45	Farm, construction, and mining machinery	.44300	.27951	.01678	.14671	.55700	1.00000	44+45	
46 47	Materials handling machinery and equipment Metalworking machinery and equipment	.46004 .58748	.33485 .46371	.00919 .01295	.11600 .11083	.53996 .41252	1.00000 1.00000	46 47	
48	Special industry machinery and equipment	.52881	.37816	.01005	.14060	.47119	1.00000	48	
49 50	General industrial machinery and equipment	.53367 .59184	.36769 .46946	.01127 .01252	.15471 .10986	.46633 .40816	1.00000 1.00000	49 50	
51 52	Computer and office equipment Service industry machinery	.43345 .46508	.24338 .29362	.00787 .00674	.18220 .16473	.56655 .53492	1.00000 1.00000	51	
53	Electrical industrial equipment and apparatus	.51221	.34937	.01074	.15210	.48779	1.00000	52 53 54 55	
54 55	Household appliances Electric lighting and wiring equipment	.42928 .51564	.23829 .29800	.00824 .00899	.18275 .20865	.57072 .48436	1.00000 1.00000	54 55	
56 57	Audio, video, and communication equipment Electronic components and accessories	.49968 .55279	.27968 .38079	.00879 .01751	.21121 .15449	.50032 .44721	1.00000 1.00000	56 57	
58	Miscellaneous electrical machinery and supplies	.45393	.31595	.01126	.12672	.54607	1.00000	58	
59A 59B	Motor vehicles (passenger cars and trucks)	.18644 .38078	.11354 .27637	.01572 .02314	.05719 .08127	.81356 .61922	1.00000 1.00000	59A 59B	
60	Aircraft and parts	.48105	.36531	.00747	.10827	.51895	1.00000	60	
61 62	Other transportation equipment Scientific and controlling instruments	.47320 .57468	.36180 .39191	.00486 .01118	.10654 .17159	.52680 .42532	1.00000 1.00000	61 62	
63 64	Ophthalmic and photographic equipment	.57103 .47574	.21677 .26101	.01113 .00933	.34313 .20540	.42898 .52426	1.00000 1.00000	63 64	
65A	Railroads and related services; passenger ground transportation	.61402	.42909	.03637	.14856	.38598	1.00000	65A	
65B 65C	Motor freight transportation and warehousing	.55749 .31791	.35059 .23829	.02655 .02855	.18035 .05108	.44251 .68209	1.00000 1.00000	65B 65C	
65D	Air transportation	.46168	.30466	.07539	.08163	.53832	1.00000	65D	
65E 66	Pipelines, freight forwarders, and related services	.59089 .58928	.30664 .22815	.02478 .07392	.25947 .28721	.40911 .41072	1.00000 1.00000	65E 66	
67 68A	Radio and TV broadcasting	.45788 .64747	.33629 .14696	.02039 .06982	.10119 .43070	.54212 .35253	1.00000 1.00000	67 68A	
68B	Gas production and distribution (utilities)	.38972	.12770	.04665	.21537	.61028	1.00000	68B	
68C 69A	Water and sanitary services	.33613 .70312	.31170 .41227	.05185 .13622	02741 .15463	.66387 .29688	1.00000 1.00000	68C 69A	
69B	Retail trade	.69724	.44662	.12616	.12446	.30277	1.00000	69B	
70A 70B	Finance	.50450 .49998	.38188 .36059	.02902 .07191	.09360 .06749	.49550 .50002	1.00000 1.00000	70A 70B	
71A 71B	Owner-occupied dwellings	.85818 .73746	.07161	.15677 .13997	.70142 .52588	.14182 .26254	1.00000 1.00000	71A 71B	
72A	Hotels and lodging places	.54176	.26010	.09020	.19147	.45824	1.00000	72A	
72B 73A	Personal and repair services (except auto)	.51255 .58812	.31868 .41832	.01791 .01076	.17596 .15903	.48745 .41188	1.00000 1.00000	72B 73A	
73B	Legal, engineering, accounting, and related services	.58833	.44407	.00460	.13966	.41167	1.00000	73B	
73C 73D	Other business and professional services, except medical	.62710 .68890	.41735 .46615	.01790 .00795	.19185 .21480	.37290 .31110	1.00000 1.00000	73C 73D	
74 75	Eating and drinking places Automotive repair and services	.51955 .47738	.39117 .22184	.04588 .03290	.08250 .22263	.48045 .52263	1.00000 1.00000	74 75	
76	Amusements	.48026	.31601	.03653	.12772	.51974	1.00000	76	
77A 77B	Health services Educational and social services, and membership organizations	.64636 .47545	.52626 .44604	.00562 .00274	.11449 .02667	.35364 .52456	1.00000 1.00000	77A 77B	
78 79	Federal Government enterprises State and local government enterprises	.74367 .39937	.68457 .27771	.00037	.05910	.25633 .60063	1.00000	78 79	
82	General government industry	1.00000	1.00000		.12130		1.00000	82	
84 85	Household industry	1.00000 1.00000	1.00000		1.00000		1.00000 1.00000	84 85	
	,								

^{*} Less than 0.000005.

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

								[]	Total require	ements, dire	ect and indire	ct, per dollar
Commodity number	Each entry represents the output required, directly and indirectly, of the commodify named at the beginning of the row for each dollar of delivery to final demand of the commodify named at the head of the column	Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	Agri- cultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non- metallic minerals mining	New con- struction	Maintenance and repair construction	Ordnance and accessories
Com	Commodity number	1	2	3	4	5+6	7	8	9+10	11	12	13
1 2 3 4 5+6 7 8 9+10	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 Nonmetallic minerals mining	1.31121 .39050 .00213 .09131 .00089 .00362 .01734 .00511	0.03283 1.06613 .00092 .08382 .00069 .00220 .02007 .00981	0.03001 .03557 1.01892 .14880 .00079 .00151 .02738 .00309	0.08195 .12721 .00209 1.01938 .00089 .00256 .02529 .01289	0.00067 .00079 .00112 .00079 1.08507 .01578 .02745	0.00045 .00058 .00062 .00060 .00134 1.12459 .01668 .00256	0.00050 .00056 .00037 .00147 .00061 .00257 1.04700	0.00061 .00068 .00041 .00067 .00184 .01139 .02352 1.04167	0.00146 .00222 .00665 .00681 .00377 .00385 .01911	0.00149 .00226 .00679 .00694 .00375 .00383 .01921	0.00065 .00072 .00047 .00052 .00485 .00355 .00727
11 12 13 14 15	New construction Maintenance and repair construction Ordnance and accessories Food and kindred products Tobacco products	.02848 .00006 .21258 (*)	.02485 .00005 .00812	.02041 .00329 .05372	.02717 .00006 .02256 (*)	.03185 .00006 .00238	.02190 .00004 .00152	.03962 .00003 .00155	.02313 .00011 .00217	1.00010 .01315 .00020 .00350	1.01322 .00020 .00356	.01631 1.02762 .00236
18 18 20+21 22+23 25 26A 27B 28B 30 30 31 33 34 34 44 45 46 46 55 55 55 55 55 55 56 56 57 58B 59B 6	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes Newspapers 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 Petroleum refining and related products Rubber and miscellaneous plastics products Glass and glass products Stone and caly 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 Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Metalworking machinery and equipment Metalworking machinery and equipment Metalworking machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industrial machinery and equipment Service industrial machinery and equipment Service industry machinery Service industry machi	.00022 .00106 .00704 .00009 .01517 .00865 .00042 .00694 .01729 .04315 .00488 .00434 .00155 .00880 .02259 .01401 .00059 .00255 .00324 .00255 .00324 .00255 .00324 .00255 .00324 .00344 .00315 .00344 .00315 .00324 .00325 .00324 .00325 .00326 .0	.00016 .00160 .00160 .00825 .00088 .00689 .00031 .00489 .01484 .00033 .00072 .00065 .02388 .01017 .00016 .00375 .00669 .00375 .00689 .0035 .00367 .00089 .0035 .00089 .0035 .00089 .00089 .00034 .0009	.00024 .00435 .00370 .00011 .000181 .00027 .01430 .03302 .00565 .00039 .00071 .00128 .04331 .00748 .00383 .00227 .00125 .00333 .00197 .00197 .00197 .00197 .00197 .00199	.00034 .00433 .00413 .00403 .01406 .01209 .00041 .00797 .03146 .000567 .02453 .02453 .01034 .00045 .00216	.00028 .00028 .00025 .01238 .00012 .000524 .00087 .00087 .00087 .00084 .00012 .00054 .00012 .00054 .00013	.00058 .00019 .00674 .00047 .000439 .00164 .00017 .00322 .01419 .00044 .00034 .00077 .02629 .01680 .00078 .00078 .00078 .00087 .00083 .00078 .00083	.00014 .00012 .00376 .00010 .00388 .00073 .00015 .00339 .01614 .00054 .00052 .00064 .00052 .00064 .00052 .00064 .00052 .00064 .00052 .00064 .00069 .00068 .00069 .0	.00051 .00051 .00052 .00072 .00212 .00202 .00412 .00202 .00412 .00452 .00062 .00084 .00084 .00076 .00084 .00073 .00084 .000728 .00084 .000728 .00084 .000728 .00084 .000728 .00084 .000728 .00084 .000728 .00084 .00084 .00087 .00087 .00087 .00087 .00087 .00088 .00	.00046 .00069 .07938 .00244 .01030 .00359 .00033 .00503 .01299 .00188 .00088 .00086 .02869 .02869 .02869 .01937 .00021 .0407 .05991 .04086 .05362 .02869 .01937 .00021 .00086 .00335 .00086 .00335 .00086 .00335 .00086 .00335 .00086 .00335 .00086 .00335 .00086 .00335 .00386 .00	.00047 .00070 .08105 .00288 .01045 .00364 .00304 .00510 .00201 .00189 .00886 .00081 .00954 .02880 .01982 .00021 .00414 .04069 .02867 .00088 .05423 .00617 .02272 .00069 .00250 .00543 .00250 .00543 .00250 .00543 .00272 .01767 .00379 .00361 .00247 .00379 .00361 .00272 .00779 .00361 .00272 .0079 .00379 .00361 .00272 .00379 .00361 .00272 .00379 .00361 .00272 .00379 .00361 .00242 .00044	.00071 .00052 .00459 .00048 .00754 .00279 .00031 .00454 .01622 .00060 .00067 .00006 .00044 .00110 .00739 .01680 .00125 .00426 .00247 .00247 .00125 .00498 .03645 .00247 .00125 .00498 .00247 .00154 .00155 .00247 .00154 .00154 .00154 .00154 .00154 .00154 .00154 .00155 .00247 .00154 .00154 .00154 .00154 .00154 .00154 .00154 .00154 .00155 .00156 .0
61 62 63 64 65A 65B 65C 65D 66E 66 67 68A 68B 69A 69B 70A	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 Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance	.00061 .00068 .00082 .00101 .01947 .05508 .00343 .00671 .00408 .01348 .00013 .02775 .01027 .00534 .11019 .00619 .03145	.00032 .00040 .00066 .00079 .00802 .03178 .00179 .00594 .00309 .01010 .00008 .01581 .01148 .00650 .06977 .00583 .02445	.00085 .00214 .0085 .00082 .00504 .01694 .00715 .00354 .00723 .0008 .00975 .00654 .00227 .05566 .00417 .02266 .02395	.00129 .00094 .00056 .00119 .00152 .01207 .03423 .00330 .02333 .00454 .00881 .00014 .01761 .01454 .00355 .10251 .00728 .02178	.00034 .00134 .00078 .00088 .00989 .01841 .00272 .00759 .00346 .00756 .00008 .11361 .00498 .04581 .00487 .02302 .01068	.00079 .00048 .00057 .00058 .03300 .01435 .00353 .00296 .00538 .00088 .00419 .00682 .00370 .05087 .00263	.00012 .00031 .00036 .00043 .00251 .00609 .00182 .00284 .00112 .00534 .00014 .01991 .01317 .01232 .00232 .00232 .00232	.00045 .000625 .00062 .00070 .00099 .00694 .02641 .00217 .00725 .00329 .00752 .00088 .05837 .02748 .01163 .04080 .00259 .02559 .02559	.00042 .00313 .00123 .00235 .00804 .03035 .00193 .00636 .00310 .01314 .00012 .01683 .01047 .00251 .07547 .04162 .04440	.00042 .00319 .00125 .00240 .00800 .03067 .00194 .00658 .00313 .01329 .00012 .01697 .01048 .00252 .07607 .04242 .02482 .02482	.1072 .00026 .01599 .00134 .00071 .00385 .01432 .00084 .01041 .00177 .01117 .0027 .01979 .01106 .00238 .04535 .0185 .0185 .0185
71A 71BA 72B 73A 73B 73C 73D 74 75 76 77A 77B 80 80 81 82	Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods General government industry	.10419 .00349 .00591 .00591 .01449 .03171 .01627 .00636 .01253 .00368 .01156 .00150 .00303 .00112				.03306 .00373 .00210 .01162 .02930 .02232 .00990 .00507 .03590 .00143 .00001 .00358 .00381 .00138	.04150 .00166 .00136 .00394 .01667 .01579 .00934 .00386 .01335 .00135 .00135 .00278 .00165 .00050 .00382	20414 .00166 .00112 .00277 .01768 .01309 .01686 .00413 .00560 .00204 .00001 .00098 .00128 .00026 .01132	.02818 .00984 .00305 .01494 .01636 .02178 .00945 .00504 .00662 .00165 .00001 .00223 .00315 .00053	.02767 .00447 .00233 .00874 .07446 .04852 .01454 .00788 .01908 .00230 .00002 .00192 .00332 .00078 .00442 .00313	.02748 .00455 .00237 .00888 .07589 .04930 .01460 .00800 .01942 .00232 .00002 .00195 .00337 .00079 .00448	.02102 .00380 .00189 .00477 .01883 .02671 .03236 .00638 .00389 .00001 .00170 .00220 .00058 .00482 .00360
83 84 85	Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total commodity output multiplier	2.83998	1.92381	1.92452	2.17862	1.93812	1.72605	1.55934	1.70436	2.03525	2.04637	1.79317

*Less than .000005.

Total Requirements, 1987 Benchmark of delivery to final demand, at producers' prices]

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Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscel- laneous textile goods and floor coverings	Apparel	Miscel- laneous 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	Agri- cultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet prepar- ations	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	Com
0.29427 .17841 .00864 .03001 .00190 .00412 .01403 .00296 	0.00284 .08046 .00051 .00659 .00038 .00220 .00572 .00115 	0.01661 .12293 .00066 .01077 .00163 .00868 .02155 .00289 	0.00570 .03525 .00089 .00356 .00238 .00839 .02619 .00283 	0.00580 .03398 .00621 .00409 .0084 .00436 .01170 .00121 	0.00696 .04147 .00104 .00406 .00116 .00528 .01431 .00164 	0.00436 .00518 .11541 .01783 .00180 .00486 .01869 .00249 	0.00223 .00668 .01072 .00261 .00456 .00543 .01235 .00185 	0.00282 .00394 .01023 .00242 .00174 .01327 .02386 .00654 	0.00179 .00250 .00484 .00140 .00180 .00838 .02220 .00360 	0.00117 .00122 .00162 .00080 .00060 .00300 .00942 .00126	0.00142 .00178 .00214 .00092 .00120 .00450 .01245 .00180 	0.00270 .00605 .00158 .00133 .01063 .01070 .08991 .01055 	0.00339 .00303 .00076 .00113 .00304 .00772 .09042 .08471 	0.00248 .00928 .00098 .00143 .00511 .01129 .04428 .00501 .02245 .00005	0.00515 .00351 .00060 .00093 .00095 .00261 .00897 .00115 	0.00658 .00487 .00085 .00116 .00242 .00379 .02214 .00247 .01342 .00005 .02459	0.00514 .00506 .00206 .00129 .00859 .00551 .03369 .00572 	1 2 3 4 5+6 7 8 9+10 11 12 13
(*) .00184 .00116 .00025 .00086 .00766 .00007 .03851 .02686 .00039 .01407 .02431 .01861 .00912 .00475	1.16115 .00099 .00043 .00019 .00022 .00479 .00003 .03927 .04390 .00033 .02149 .01156 .00662 .00416	(*) 1.36175 .01410 .00108 .00058 .00497 .00007 .01558 .00990 .00030 .00530 .12349 .01141 .00038 .00535 .00535	(*) .31716 1.04613 .00152 .00667 .00007 .02886 .01336 .00035 .00635 .00635 .30257 .00550 .00550 .00550	(*) .35141 .00687 1.23173 .02996 .00363 .00005 .01467 .00848 .00029 .00541 .05207 .00368 .08798 .00019	(*) .35797 .07607 .01270 1.03020 .00900 .00007 .02207 .01752 .00035 .00690 .07704 .00447 .11463 .00024	(*) .00291 .00442 .00051 .00113 1.40510 .00148 .01313 .00879 .00040 .00626 .03754 .00883 .01521 .00015	(*) .05678 .02924 .00073 .00205 .12839 1.00414 .02028 .01940 .00038 .00623 .03835 .00189 .03112 .00013 .00105 .01222	.00005 .01686 .00645 .00047 .00037 .10251 .00018 1.20376 .01925 .00030 .00693 .09110 .00562 .04453 .00025 .00087	.00827 .00315 .00036 .00029 .04797 .00012 .54557 1.01252 .00027 .00578 .07897 .00305 .04706 .00021	.00001 .00292 .00125 .00023 .00027 .01545 .00006 .16668 .00467 1.01058 .11150 .02875 .00117 .00813 .00010	.000592 .00246 .00029 .00030 .02042 .00007 .22192 .00987 .00375 1.09425 .05733 .00159 .01644 .00015	.00152 .00068 .00020 .00053 .00602 .00008 .02265 .00884 .00032 .00596 1.26727 .00893 .01978 .00231	(*) .00134 .00070 .00028 .00043 .000543 .0008 .02254 .00917 .00053 .02127 .17960 1.22105 .00916 .00125	(*) .00993 .00131 .00035 .00039 .00576 .00007 .02991 .01132 .00031 .00583 .41361 .00695 1.06491 .00110	(*) .00111 .00061 .00019 .00329 .00004 .01859 .01212 .00024 .01040 .04204 .00304 .00753 1.11168	(*) .00268 .00183 .00021 .00035 .00571 .00005 .03542 .03937 .00032 .01642 .13962 .00195 .03178 .00306	.00188 .00049 .00019 .00028 .00381 .00006 .01316 .00492 .00023 .00722 .30295 .00311 .13322 .00068 .00244	16 17 18 19 20+21 22+23 24 25 26A 26B 27A 27B 28 29A 29B
.00133 .01558 .02872 .00025 .01702 .00288 .01432 .01608 .03404 .00160 .00411 .00876 .00061 .00297 .00025	.00049 .00692 .00744 .00007 .00100 .00321 .00220 .00038 .00063 .00079 .01060 .00021 .00090 .00014	.01712 .02218 .00030 .00919 .00275 .00513 .00343 .00168 .00134 .00432 .00064 .00184	.00213 .01680 .02993 .00024 .00384 .00282 .00686 .00450 .00173 .00157 .00546 .0063 .00110 .00038	.00541 .05207 .00368 .08798 .00019 .00771 .00816 .01098 .01721 .00815 .00291 .00345 .00082 .00104 .00113 .00308 .00037 .00032 .00095 .000095 .000095 .00000 .000000 .000000 .000000 .0000000	.00117 .01161 .04200 .01562 .00409 .00215 .00457 .00359 .00105 .00131 .00447 .00043 .00039 .00039	.00876 .02296 .02097 .00038 .00573 .01184 .01966 .01060 .00134 .02214 .03589 .00090 .00105 .00104	.01287 .04349 .00364 .00592 .00851 .06400 .02787 .00117 .00260 .01457 .04697 .00057 .00072 .00073	.00206 .02214 .03925 .00016 .00178 .00469 .00758 .00643 .00120 .00244 .00331 .01490 .00069 .00113 .00038	.00413 .02371 .02488 .00027 .00134 .00332 .01030 .00909 .00112 .00189 .00237 .01416 .00059 .00079 .00029	.00069 .01143 .01121 .00019 .00075 .00156 .00304 .00106 .00127 .00387 .00030 .00044 .00019	.01274 .02936 .00038 .00105 .00205 .00443 .00734 .00070 .00125 .00167 .00614 .00038 .00048 .00020	.00648 .03020 .02256 .00014 .00297 .00400 .01128 .00827 .00728 .00203 .00180 .01282 .00090 .00179 .00051	.00210 .02583 .02297 .00013 .00460 .00585 .00907 .00721 .00703 .00245 .00256 .00997 .00118 .00268 .00125	.00476 .02057 .05126 .00015 .00258 .00335 .00744 .00535 .00359 .00172 .00165 .00807 .00072 .00124	.00071 .00680 .02897 .00012 .00855 .00151 .00473 .00404 .00506 .00121 .00312 .00488 .00025 .00042	.00349 .01941 .06275 .00012 .00937 .00245 .01169 .00975 .01497 .00148 .00754 .01730 .00038 .00038 .00021	1.02389 .02177 .01425 .00009 .00217 .01479 .01920 .02192 .04734 .00139 .00797 .00056 .00093 .00030	30 31 32 33+34 35 36 37 38 39 40 41 42 43 44+45 46 47
.00104 .00254 .00220 .00040 .00046 .00144 .00013 .00091 .00033 .00188 .00216 .00003 .00278 .00040 .00066 .00066	.00061 .00089 .00141 .00022 .00020 .00054 .00005 .00038 .00011 .00110 .00078 .00001 .00015 .00021 .00012	.00541 .00176 .00287 .00048 .00050 .00153 .00019 .00090 .00032 .00208 .00137 .00002 .00284 .00034 .00034		.00489 .00117 .00182 .00035 .00035 .00103 .00013 .00060 .00027 .00181 .00071 .00002 .00178 .00034 .00030 .00061	.00448 .00132 .00227 .00040 .00140 .00120 .00018 .00073 .00031 .00201 .00084 .00002 .00169 .00038 .00032	.00215 .00432 .00596 .00042 .00106 .00304 .00295 .00316 .00200 .00120 .00010 .00682 .00043 .00256 .00101	.00173 .00469 .00354 .00048 .00059 .00404 .00037 .00119 .00038 .00251 .00084 .00003 .00266 .00043 .00058 .00102	.00644 .00273 .00345 .00047 .00056 .00192 .00033 .00115 .00038 .00098 .00084 .00355 .00065 .00068 .00069	.00719 .00209 .00347 .00042 .00051 .00187 .00020 .00094 .00034 .00176 .00081 .00047 .00065 .000112 .00085	.00341 .00109 .00146 .00112 .00038 .00110 .00012 .00065 .00039 .00321 .00178 .00002 .00224 .00143 .00031	.00611 .00128 .00200 .00118 .00039 .00140 .00012 .00074 .00035 .00273 .00107 .00002 .00277 .00054 .00035 .00265	.00564 .00264 .00256 .00052 .00073 .00012 .00093 .00033 .00223 .00084 .00003 .00170 .00046 .00053 .00161	.00167 .00457 .00237 .00061 .00062 .00260 .00014 .00107 .00041 .00109 .00005 .00268 .00043 .00088	.00322 .00373 .00300 .00054 .00057 .00194 .00013 .00089 .00034 .00205 .00088 .00003 .00184 .00041 .00060 .00110	.00066 .00131 .00116 .00087 .00030 .00086 .00053 .00029 .00235 .00066 .00001 .00135 .00030 .00019	.00145 .00317 .00228 .00037 .00036 .00130 .00009 .00062 .00028 .00184 .00061 .00002 .00150 .00038 .00031	.00166 .00212 .00174 .00036 .00042 .00179 .00099 .00089 .00029 .00195 .00063 .00003 .00031 .00060 .00088	9+10 111 12 13 14 15 16 16 17 17 18 19 20+21 22+23 24 25 26A 26B 27A 27B 29B 29A 30 311 32 33+34 335 36 37 38 39 41 41 45 47 48 49 50 61 62 65B 59B 60 61 62 65B
.00077 .01541 .04465 .00360 .00696 .00337 .01066 .00036 .02600 .01606 .00478 .11075 .00408 .01941	.00041 .00319 .01286 .00063 .00377 .00119 .00517 .00950 .00493 .00184 .03913 .00188 .01226	.00087 .01079 .02679 .00223 .00564 .00301 .00947 .00017 .05521 .02485 .00714 .09993 .00343 .01579 .01089	.00089 .01324 .03734 .00430 .00571 .00373 .01037 .00030 .04539 .03320 .00628 .0389 .0325 .01640 .00920	.00688 .00528 .01785 .00124 .00592 .00196 .00810 .00025 .02934 .01315 .00341 .08018 .00249 .01521	.00689 .00751 .02461 .00194 .00572 .00240 .00937 .00021 .03216 .01765 .00660 .10227 .00254 .01911	.00151 .01782 .03403 .00375 .00607 .00342 .00987 .00024 .03105 .01778 .00526 .10121 .00470 .02111	.00255 .01134 .02652 .00200 .00691 .00251 .01036 .00028 .02706 .01504 .00438 .09419 .00331 .02260	.00081 .01897 .04004 .00322 .00965 .00407 .00933 .00019 .04822 .03238 .01806 .08348 .00463 .01563	.00077 .02248 .04873 .00278 .00821 .00421 .01099 .00014 .03833 .02378 .01008 .08815 .00467 .01350	.00109 .00800 .01800 .00099 .02680 .00325 .01159 .00027 .01558 .00773 .00354 .04217 .00275 .01626	.00270 .01104 .02659 .00148 .00961 .00270 .00973 .00020 .02331 .01189 .00522 .06566 .00343 .01531	.00068 .01772 .03329 .00422 .00710 .00756 .00981 .00020 .05091 .05469 .00658 .06867 .00332 .01598	.00083 .03225 .09354 .00643 .00711 .00669 .01354 .00024 .04950 .07333 .01264 .09530 .00523 .03345 .01024	.00074 .02098 .03384 .00535 .00668 .00498 .01043 .00021 .05002 .05044 .00713 .08044 .00328 .01478	.00065 .00388 .01095 .00104 .00530 .00142 .01008 .00015 .01627 .01308 .00233 .05894 .00181 .01315	.00193 .00935 .02629 .00258 .00658 .00309 .00912 .00030 .02095 .01931 .00380 .07782 .00232 .01168	.00060 .02193 .04405 .00381 .00511 .00511 .00456 .01047 .00015 .02587 .00366 .06629 .00290 .01099	65C 65D 65E 66 67 68A 68B 68C 69A 69B 70A 70B 71A
.04816 .00326 .00293 .00533 .01445 .02883 .04306 .00642 .01137 .00554 .00266 .00171 .00322 .00176 .02348	.01943 .00149 .00130 .00306 .00773 .01409 .03910 .00327 .00867 .00450 .00003 .00118 .00374 .00066 .00382	.03265 .00232 .00896 .00623 .01973 .03783 .02011 .00740 .01169 .00285 .00015 .00238 .00355 .00128 .00617	.02854 .00253 .007722 .00643 .02368 .03250 .03663 .00772 .01039 .00447 .00005 .00225 .00422 .00138 .01692 .00130	.02518 .00202 .00619 .00430 .01444 .02595 .02970 .00804 .01221 .00368 .00005 .00200 .00498 .00082 .00513	.02734 .00297 .00806 .00527 .01642 .03205 .02561 .00823 .00874 .00337 .00006 .00697 .00491 .00080 .01044	.02555 .00271 .00260 .00572 .01843 .03060 .02898 .00893 .01925 .00339 .00006 .00500 .00368 .00152	.02543 .00273 .00298 .00298 .02398 .04186 .03382 .00957 .01349 .00466 .00002 .00354 .00431 .00100 .00580	.02266 .00426 .00375 .00768 .01543 .02453 .00658 .01882 .00300 .00003 .00256 .00318 .00280 .00603 .01288	.02407 .00295 .00298 .00695 .01507 .02689 .01666 .00727 .01974 .00233 .00002 .00194 .00320 .00183 .00494	.03539 .00504 .00301 .02060 .02960 .06038 .03218 .00915 .01420 .00398 .00001 .00341 .01719 .00083 .00624	.02879 .00615 .00245 .00941 .01721 .02976 .02414 .01036 .01796 .00325 .00001 .00284 .00996 .00107 .00736	.03893 .00287 .00212 .00705 .03496 .03384 .02460 .00700 .00896 .00314 .00003 .00195 .00328 .00138 .01357	.04142 .00352 .00251 .00883 .02566 .05090 .02882 .00752 .01345 .00369 .00003 .00273 .00374 .00128 .01606 .00397	.03006 .00328 .00395 .00729 .04463 .02568 .00681 .01035 .00329 .00002 .00290 .00313 .00132 .01156	.02130 .00265 .00267 .00662 .05838 .04945 .01795 .00542 .00858 .00244 .00005 .00640 .00277 .00089 .02650	.02255 .00265 .00219 .00464 .01815 .02994 .03686 .00608 .00847 .00439 .00006 .00263 .00353 .00114 .01156	.02531 .00250 .00170 .00463 .02141 .02418 .01820 .00572 .00785 .00239 .00005 .00174 .00260 .00077 .01179	71B 72A 72B 73B 73C 73D 74 75 76 77A 77B 80 80 81 82
2.60871	1.66836	2.50729	2.61444	2.30848	2.35527	2.36014	2.11025	2.19749	2.38690	1.86221	1.95455	2.13021	2.49770	2.29152	1.69594	1.94358	2.14382	83 84 85

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

								[Tot	al require	ments, direct a	and indirect	t, 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 miscel- laneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing	Primary nonferrous metals manu- facturing	Metal con- tainers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products
Co	Commodity number	31	32	33+34	35	36	37	38	39	40	41	42
1 2 3 4 5+6 7 8 9+10	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 Nonmetallic minerals mining	0.00078 .00082 .00050 .00122 .00087 .00404 .60401	0.00162 .00439 .00102 .00099 .00259 .00688 .02311	0.05008 .03194 .00195 .00555 .00131 .00378 .01296	0.00092 .00118 .00265 .00094 .00154 .00620 .02602 .01616	0.00109 .00146 .00090 .00077 .00260 .01766 .02302 .09481	0.00079 .00087 .00087 .00078 .04279 .03668 .02542 .00718	0.00091 .00122 .00099 .00077 .10731 .01184 .02538	0.00094 .00106 .00089 .00075 .03790 .01349 .01967 .00283	0.00089 .00092 .00104 .00073 .01766 .01056 .01445	0.00081 .00096 .00070 .00065 .01487 .01242 .01421	0.00088 .00102 .00104 .00070 .01158 .00915 .01452
11 12 13 14	New construction Maintenance and repair construction Ordnance and accessories Food and kindred products	.03730 .00005 .00275	.01937 .00006 .00463	.01573 .00005 .15865	.02298 .00008 .00324	.02364 .00156 .00386	.04090 .00046 .00284	.02551 .00009 .00312	.02510 .00015 .00341	.02939 .00016 .00327	.02844 .00016 .00288	.02743 .00012 .00319
15 16 17 18 19	Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings Apparel Miscellaneous fabricated textile products	.00072 .00070 .00021 .00042	(*) .01993 .01219 .00048 .00062	(*) .05752 .02979 .00241 .00078	(*) .00145 .00070 .00041 .00028	.00491 .00056 .00042 .00031	.00098 .00058 .00042 .00030	.00271 .00072 .00034 .00028	.00151 .00057 .00037 .00030	.00127 .00068 .00030 .00043	.00226 .00081 .00038 .00390	.00171 .00090 .00048 .00035
20+21 22+23 24 25	Lumber and wood products Furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes	.00485 .00010 .00648 .00326	.00912 .00008 .03358 .01676	.00913 .00006 .02014 .01598	.02988 .00011 .03510 .04972	.00885 .00008 .02563 .00583	.00898 .00060 .01047 .00391	.01036 .00010 .01003 .00576	.00870 .00020 .01947 .00652	.01104 .00022 .01156 .00895	.00702 .00039 .01120 .00727	.01092 .00017 .01401 .01022
26A 26B 27A 27B 28	Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals Plastics and synthetic materials	.00022 .00452 .03220 .00069 .00359	.00034 .00596 .15131 .00233 .20865	.00033 .00677 .07570 .00409 .04281	.00034 .00606 .09466 .00120 .00904	.00057 .00507 .05344 .00091 .01016	.00034 .00610 .04817 .00076 .00474	.00031 .00546 .04592 .00085 .02811	.00041 .02700 .04028 .00076 .01457	.00034 .00515 .02674 .00063 .00958	.00031 .00546 .03040 .00059 .00820	.00033 .00551 .04287 .00071 .01450
29A 29B 30 31 32	Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products Rubber and miscellaneous plastics products	.00011 .00376 .00088 1.08356 .00927	.00040 .00250 .00270 .01590 1.06401	.00085 .00597 .00110 .01097 .04715	.00020 .00081 .00274 .01473 .01907	.00014 .00333 .00274 .02240 .01090	.00012 .00065 .00158 .01988 .01036	.00013 .00074 .00188 .02577 .02589	.00011 .00123 .01851 .01832 .01453	.00009 .00092 .00713 .01431 .01905	.00009 .00101 .00385 .01262 .01242	.00012 .00096 .00857 .01334 .02759
33+34 35 36 37	Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00013 .00301 .00566 .00774	.00022 .00715 .00595 .01439	1.21914 .00342 .00308 .00694	.00027 1.08720 .02659 .00777	.00012 .00300 1.13271 .01622	.00016 .00104 .02381 1.18362	.00013 .00236 .01119 .03229	.00014 .00131 .01062 .27527	.00014 .00924 .01140 .24540	.00018 .00299 .01128 .30122	.00013 .00391 .01048 .16230
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00375 .00181 .00267 .00108 .00890	.00905 .00150 .00216 .00715 .01609	.00587 .00504 .00120 .00306 .01049	.00673 .00090 .00194 .00454 .00549	.00672 .00078 .00256 .00453 .01031	.04587 .00068 .00347 .00751 .01931	1.44117 .00072 .00307 .00556 .01924	.38678 1.01851 .00233 .00535 .02542	.12140 .00081 1.02505 .03223 .04394	.06276 .00076 .00303 1.02003 .02790	.07740 .00109 .00304 .01961 1.05936
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment	.00073 .00239 .00027 .00137	.00075 .00074 .00032 .00339	.00038 .00088 .00025 .00164	.00062 .00093 .00039 .00700	.00133 .00348 .00146 .00176	.00167 .00307 .00103 .00913	.00178 .00300 .00114 .01427	.00105 .00171 .00065 .00793	.00099 .00122 .00052 .01432	.00147 .00124 .00046 .03432	.00154 .00102 .00040 .01215
49 50 51 52	Special industry machinery and equipment General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery	.00035 .00264 .00154 .00040 .00057	.00430 .00244 .00509 .00052 .00052	.00161 .00126 .00264 .00038 .00039	.00172 .00195 .00496 .00042 .00048	.00056 .00416 .00292 .00049 .00049	.00049 .01912 .00618 .00068 .00077	.00054 .01845 .00569 .00053 .00061	.00065 .00987 .00539 .00053 .00058	.00045 .01151 .00647 .00049 .00165	.00047 .00892 .01613 .00061 .00093	.00062 .00678 .00791 .00065 .00063
53 54 55 56 57	Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories	.00235 .00016 .00117 .00036 .00146	.00208 .00013 .00219 .00034 .00292	.00108 .00021 .00072 .00030 .00198	.00398 .00051 .00114 .00042 .00199	.00259 .00013 .00172 .00046 .00208	.01121 .00018 .00145 .00043 .00264	.01198 .00015 .00122 .00040 .00375	.00637 .00014 .00102 .00038 .00258	.00794 .00016 .00117 .00042 .00253	.00692 .00016 .00149 .00053 .00264	.00911 .00014 .00115 .00041 .00342
58 59A 59B 60	Miscellaneous electrical machinery and supplies	.00074 .00002 .00169 .00029	.00104 .00003 .00218 .00039	.00083 .00002 .00160 .00042	.00076 .00003 .00215 .00048	.00086 .00004 .00253 .00050	.00106 .00004 .00231 .00045	.00118 .00004 .00324 .00048	.00095 .00003 .00266 .00061	.00088 .00024 .00284 .00076	.00145 .00021 .00766 .00047	.00129 .00004 .00309 .00084
61 62 63 64 65A	Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Aliroads and related services; passenger ground transportation	.00032 .00059 .00077 .00062 .00455	.00046 .00121 .00101 .00087 .01551	.00031 .00064 .00098 .01238 .00863	.00051 .00169 .00092 .00068 .01843	.00062 .00091 .00100 .00155 .02202	.00087 .00108 .00112 .00088 .02696	.00054 .00101 .00103 .00081 .01531	.00051 .00091 .00124 .00085 .01593	.00044 .00291 .00103 .00118 .01230	.00043 .00103 .00105 .00088 .01296	.00036 .00110 .00104 .00101 .01005
65B 65C 65D 65E 66	Motor freight transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services Communications, except radio and TV	.01226 .00893 .00502 .04465 .00912	.04702 .00343 .00605 .00386 .01084	.02961 .00192 .00743 .00262 .01047	.02928 .00208 .00826 .00327 .01588	.08602 .00555 .00542 .00522 .01577	.02959 .00747 .00607 .00369 .01023	.06119 .00312 .00758 .00451 .01117	.04643 .00320 .01029 .00388 .01037	.03510 .00262 .00758 .00296 .01086	.03073 .00289 .00563 .00264 .01086	.02851 .00235 .00782 .00270 .01167
67 68A 68B 68C	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services	.00015 .03039 .02457 .00386	.00018 .04120 .02648 .00543	.00027 .02422 .01393 .00367	.00028 .04434 .06227 .00440	.00025 .04486 .03763 .00576	.00037 .06561 .05598 .01048	.00020 .08500 .04142 .00446	.00035 .05364 .03518 .00657	.00020 .03502 .02423 .00422	.00022 .03830 .02672 .00612	.00027 .03601 .02339 .00398
69A 69B 70A 70B 71A	Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings	.06543 .00277 .02401 .01099	.08549 .00356 .01524 .00834	.08812 .00253 .01792 .00739	.06976 .00320 .01426 .00671	.05476 .00508 .01886 .00823	.09984 .00399 .01617 .00855	.11455 .00483 .01981 .00986	.13234 .00412 .01775 .00931	.10220 .00404 .01601 .00791	.09536 .00324 .01808 .00772	.08911 .00344 .01751 .00731
71B 72A 72B 73A 73B	Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services	.13747 .00236 .00188 .00635 .01927	.02631 .00250 .00355 .00857 .02407	.02689 .00774 .00379 .00518 .01540	.02460 .00274 .00233 .00613 .01386	.02539 .00287 .00304 .00827 .01484	.02439 .00246 .00311 .00780 .01624	.02708 .00332 .00412 .00710 .01705	.02711 .00361 .00321 .00700 .01561	.02435 .00676 .00259 .00579 .01593	.02285 .00277 .00328 .00903 .03490	.02192 .00273 .00297 .00757 .01644
73C 73D 74 75 76	Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services	.02603 .01771 .00581 .00782	.02836 .02136 .00763 .01205	.03113 .03246 .00833 .00880	.02174 .03390 .00652 .01276	.02626 .03001 .00712 .01405	.04107 .04521 .00683 .01106	.03444 .02437 .00748 .01914	.03263 .04245 .00761 .01538	.03224 .02437 .00820 .01448	.03156 .02719 .00716 .01166	.03109 .03238 .00762 .01304
77A 77B 78 79	Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises	.00237 .00001 .00246 .00256 .00048	.00289 .00002 .00503 .00325 .00106	.00402 .00045 .00174 .00649 .00179	.00408 .00001 .00182 .00322 .00096	.00366 .00001 .00232 .00335 .00079	.00532 .00001 .00185 .00386 .00127	.00324 .00001 .00267 .00367 .00126	.00515 .00001 .00261 .00343 .00140	.00327 .00001 .00236 .00346	.00347 .00001 .00454 .00376	.00399 .00001 .00233 .00346 .00121
80 81 82 83 84	Noncomparable imports Scrap, used and secondhand goods General government industry Rest of the world adjustment to final uses Household industry	.01256 .00058	.01921 .00142	.00763	.01055 .00573	.00726	.00707	.02417 .06204	.01068	.00626 .01600	.00575 .01473	.00676
85	Inventory valuation adjustment Total commodity output multiplier	2.36099	2.15093	2.28587	1.95688	2.00218	2.20035	2.55670	2.60633	2.18228	2.15173	2.02586

Total Requirements, 1987 Benchmark—Continued of delivery to final demand, at producers' prices]

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	Engines and turbines	Farm, construc- tion, and mining machinery	Materials handling machinery and equipment	Metal- working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscel- laneous 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 communi- cation equipment	Electronic components and accessories	Miscel- laneous 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	S
•	0.00068 .00071 .00050 .00056 .01356 .00906 .01124 .00213	0.00084 .00087 .00073 .00066 .00863 .00834 .01155 .00193	0.00089 .00086 .00072 .00063 .00802 .00663 .01078	0.00083 .00086 .00058 .00056 .00727 .00651 .01071	0.00085 .00087 .00067 .00059 .00722 .00556 .01035	0.00080 .00097 .00060 .00057 .00883 .00694 .01044	0.00076 .00074 .00047 .00055 .00904 .00592 .00864	0.00087 .00086 .00045 .00061 .00369 .00294 .00763	0.00084 .00092 .00110 .00065 .01040 .00601 .01062 .00269	0.00088 .00093 .00069 .00067 .00946 .00601 .01361	0.00101 .00154 .00142 .00076 .00764 .00688 .01291	0.00093 .00118 .00081 .00067 .00837 .00552 .01190	0.00076 .00092 .00062 .00058 .00358 .00311 .00743	0.00083 .00100 .00049 .00061 .00631 .00433 .00965 .00128	0.00112 .00129 .00062 .00072 .01314 .00478 .01264	0.00124 .00260 .00090 .00087 .00652 .00628 .01432 .00203	0.00088 .00115 .00092 .00071 .01059 .00717 .01318	0.00075 .00101 .00044 .00061 .00758 .00399 .00851	1 2 3 4 5+6 7 8 9+10
	.02236 .00014 .00246	.02348 .00013 .00306	.02461 .00013 .00332	.01835 .00011 .00310	.01998 .00010 .00317	.01980 .00011 .00288	.02089 .00012 .00282	.02003 .00006 .00324	.01973 .00010 .00303 (*)	.02129 .00009 .00322 (*)	.01941 .00011 .00347 (*)	.01885 .00007 .00335 (*)	.01519 .00015 .00273 (*)	.02156 .00006 .00302	.01890 .00019 .00414 (*)	.02169 .00011 .00385 (*)	.02253 .00011 .00309 (*)	.01786 .00217 .00262	12 13 14 15
													(*) 00232 00119 00050 000605 010805 010805 010805 010805 010805 010805 010805 010805 010806 000606 0060606 0060606 0060606 0060606 0060606			(*)			15 15 16 16 17 18 19 20+21 22+23 24 25 26 A 28 29 A 29 B 29 A 29 B 30 31 32 33+34 34 44+46 47 48 49 50 15 12 53 35 56 65 57 58 59 A 65 B 65 C 65 D 65 E 66 67 68 A 65 B 66 C 69 A 66 B
	.00278 .01506 .00692	.00299 .01487 .00764	.00297 .01564 .00718	.00298 .01442 .00689	.00259 .01719 .00646	.00259 .01490 .00647	.00256 .01786 .00574	.00247 .01942 .00611	.00257 .01370 .00636	.00286 .02284 .00689	.00266 .01909 .00685	.00272 .02069 .00653	.00191 .01502 .00581	.00227 .02028 .00594	.00313 .02347 .00781	.00485 .01884 .01047	.00474 .01524 .00877	.00222 .02379 .00600	69B 70A 70B 71A
	.01899 .00281 .00349 .00900 .01411 .02809 .02637 .00655 .01161 .00347 .00001 .00183 .00321 .00099 .00804	.01994 .00332 .00329 .00858 .01775 .02934 .03885 .00795 .00972 .00474 .00001 .00174 .00397 .00087 .01123			.02318 .00409 .00269 .00625 .01693 .02814 .03057 .00806 .01083 .00380 .00001 .00171 .00384 .00063 .00914		.02349 .00279 .00252 .00776 .01669 .04117 .02715 .00806 .01170 .00341 .00001 .00225 .00284 .00064 .00658 .00762		.01996 .00418 .00258 .00607 .01608 .02636 .03172 .00763 .00943 .00398 .00001 .00238 .00261 .00080 .00632		.02069 .00459 .00364 .00677 .01528 .02942 .03696 .00776 .00976 .00455 .00001 .00334 .00559 .00112 .00945 .00674		.02367 .00342 .00601 .00726 .01648 .02942 .03087 .00710 .00765 .00401 .00001 .00308 .00396 .00070 .01134	.02314 .00536 .00244 .00679 .01713 .02936 .02040 .00767 .00328 .00001 .00407 .00275 .00087 .01009 .00409		.02354 .00374 .00400 .00740 .01821 .03237 .04525 .00896 .02460 .00581 .00001 .00461 .00483 .00143 .01341	.02181 .00297 .00377 .00684 .01588 .03035 .04334 .00789 .04232 .00526 .00001 .00306 .00514 .00136 .01963	.02176 .01265 .00243 .00667 .01758 .03156 .03904 .00653 .00730 .00490 .00001 .00311 .00391 .00071 .00672	71B 72A 72B 73A 73C 73D 74 75 76 77A 77B 79 80 81 82
	2.15344	2.10733	2.06216	1.83193	1.91775	1.93167	1.81560	2.07653	2.07545	1.97267	2.14598	1.97194	1.94671	1.88130	2.07118	2.69564	2.27529	2.02757	83 84 85

Table 4.—Commodity-by-Commodity

										ents, direct		t, 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 trans- portation equipment	Scientific and controlling instruments	Ophthalmic and photo- graphic equipment	Miscel- laneous manufac- turing	Railroads and related services; passenger ground transportation	Motor freight transpor- tation and ware- housing	Water transpor- tation	Air transpor- tation	Pipelines, freight forwarders, and related services	Communications, except radio and TV	Radio and TV broad- casting
Com	Commodity number	61	62	63	64	65A	65B	65C	65D	65E	66	67
1 2 3 4 5+6 7 8	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	0.00089 .00151 .00291 .00106 .00669 .00541	0.00112 .00161 .00069 .00066 .00445 .00363	0.00094 .00118 .00102 .00069 .00223 .00437	0.00238 .00427 .00312 .00138 .00770 .00443	0.00090 .00091 .00106 .00128 .00131 .00291	0.00129 .00140 .00033 .00097 .00044 .00224 .03979	0.00193 .00192 .00065 .00108 .00218 .00532 .02668	0.00381 .00275 .00071 .00114 .00071 .00214 .07337	0.00196 .00170 .00072 .00103 .00045 .00564 .01309	0.00063 .00061 .00055 .00080 .00065 .00120	0.00291 .00246 .00064 .00435 .00054 .00160 .00498
9+10 11 12 13 14	Nonmetallic minerals mining New construction Maintenance and repair construction Ordnance and accessories Food and kindred products	.00186 .03339 .00011 .00281	.00104 	.00140 	.00226 .01818 .00007 .00783		.00079 .01601 .00005 .00342	.00097 	.00110 .02503 .00016 .01540	.00070 .03320 .00020 .00756	.00098 .05944 .00004 .00222	.00066 .02807 .00007 .00970
15 16 17 18 19 20+21	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	.00674 .00710 .00048 .00891 .03404	(*) .00773 .00543 .00068 .00028 .00677	(*) .00273 .00204 .00024 .00024 .00950	.00001 .01940 .00306 .00113 .00454 .03490	.00104 .00093 .00059 .00057	.00076 .00046 .00028 .00052 .00258	.00461 .00396 .00562 .00439 .00412	.00101 .00046 .00044 .00084 .00358	.00244 .00076 .00026 .00555 .00560	.00073 .00040 .00084 .00019 .00560	.00161 .00045 .00114 .00080 .00491
22+23 24 25 26A 26B	Furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes Newspapers and periodicals Other printing and publishing	.00308 .00889 .00466 .00027 .00454	.00083 .01526 .00708 .00036 .00618	.00009 .08644 .01194 .00040 .00583	.00041 .03277 .01717 .00056 .00950	.00036 .00640 .00205 .00035 .00825	.00006 .00583 .00201 .00042 .00623	.00013 .00855 .00275 .00045 .00931	.00010 .00885 .00193 .00048 .00811	.00010 .01020 .00220 .00062 .01210	.00033 .00588 .00132 .00030 .00884	.00016 .00865 .00138 .00060 .00904
27A 27B 28 29A 29B 30	Industrial and other chemicals Agricultural fertilizers and chemicals Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products	.02419 .00075 .01974 .00008 .00058 .00827	.02242 .00060 .01793 .00047 .00061 .00147	.05084 .00099 .01853 .00014 .00095	.04287 .00127 .03935 .00015 .00097	.01127 .00141 .00417 .00006 .00084	.00771 .00125 .00394 .00005 .00054 .00088	.01096 .00185 .00571 .00009 .00078 .00284	.00850 .00066 .00232 .00010 .00087 .00066	.00593 .00053 .00284 .00007 .00041	.00605 .00034 .00269 .00048 .00028 .00162	.00813 .00124 .00285 .00009 .00069 .00054
31 32 33+34 35 36	Petroleum refining and related products Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products	.01116 .02535 .00027 .01279 .00874	.00828 .02968 .00020 .00461 .00442	.00928 .03386 .00012 .00719 .00295	.01259 .03935 .00432 .00235 .00817	.08132 .01227 .00014 .00232 .00866	.06901 .01589 .00020 .00105 .00171	.04374 .01064 .00028 .00118 .00320	.12895 .00587 .00024 .00107 .00251	.01235 .00705 .00047 .00105 .00251	.00501 .00824 .00015 .00084 .00393	.00619 .00806 .00071 .00100 .00215
37 38 39 40 41 42	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	.08437 .04891 .00081 .04123 .01667 .03116	.03259 .03833 .00072 .00707 .01577 .02420	.01033 .01938 .00059 .00158 .00637 .01972	.02926 .08597 .00096 .00178 .00688 .01529	.01497 .00924 .00046 .00801 .00302 .01256	.00430 .00292 .00036 .00121 .00229 .00684	.01474 .02123 .00064 .00269 .00251 .02826	.00509 .00617 .00079 .00174 .00229 .00455	.00418 .00333 .00036 .00207 .00130 .00417	.00549 .00535 .00023 .00346 .00391 .00487	.00320 .00467 .00045 .00183 .00143 .00370
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.05144 .00585 .00042 .00603 .00055	.00047 .00046 .00020 .00435 .00082	.00036 .00047 .00019 .00260 .00119	.00062 .00066 .00029 .00445 .00097	.00401 .00083 .00045 .00299 .00027	.00091 .00049 .00016 .00074 .00022	.00975 .00083 .00028 .01012 .00045	.00041 .00064 .00017 .00170 .00028	.00166 .00052 .00018 .00062 .00029	.00225 .00031 .00021 .00062 .00024	.00027 .00040 .00018 .00072 .00037
49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.02712 .00916 .00052 .00500 .02237	.00391 .00451 .01223 .00039 .01791	.00232 .00355 .00209 .00034 .00534	.00341 .00588 .00080 .00136 .00426	.00927 .00557 .00066 .00204 .01725	.00198 .00174 .00057 .00080 .00202	.03070 .00993 .00124 .00061 .00425	.00156 .00218 .00096 .00049 .00138	.00641 .00175 .00159 .00056 .00254	.00323 .00084 .00151 .00081	.00078 .00093 .00203 .00082 .00184
52 53 54 55 56 57 58 59A	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)	.00649 .00529 .00130 .00453 .00826 .02575	.00010 .00344 .00225 .10494 .00350 .00002	.00009 .00250 .00046 .09121 .00221 .00002	.00017 .00136 .00051 .01688 .00110	.00050 .00314 .00069 .00288 .00298 .00057	.00009 .00137 .00059 .00192 .00169 .00023	.00085 .00260 .00053 .00418 .00301 .00045	.00019 .00090 .00143 .00525 .00132 .00001	.0016 .00103 .00104 .00358 .00287 .00003	.00022 .00182 .01800 .02023 .00234 .00001	.00028 .00124 .00237 .03382 .00262 .00003
59B 60 61 62 63	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment	.02535 .00320 1.02583 .00429 .00085	.00197 .00397 .00020 1.02741 .00115	.00156 .00060 .00024 .01057 1.01443	.00264 .00054 .00054 .00093 .00148	.01018 .00047 .02146 .00078 .00092	.00920 .00036 .00029 .00032 .00105	.00200 .00071 .01750 .00212 .00158	.00157 .05540 .00028 .00228 .00119	.00237 .00136 .00063 .00055 .00162	.00134 .00027 .00023 .00064 .00109	.00133 .00068 .00081 .00139 .00866
64 65A 65B 65C 65D 65E	Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services	.00098 .00792 .02365 .00170 .00747 .00224	.00113 .00482 .01422 .00106 .00866 .00176	.00081 .00624 .01705 .00176 .00975 .00214	1.03943 .00822 .03228 .00205 .00708 .00265	.00106 1.05477 .01243 .00246 .00608 .02173	.00083 .00501 1.19695 .00201 .00625 .04166	.00318 .00452 .01315 1.11489 .01001 .07166	.00131 .00353 .00958 .00385 1.06213 .07503	.00164 .00625 .01042 .00197 .02490 1.03990	.00124 .00211 .00604 .00047 .00416 .00086	.00225 .00363 .00870 .00073 .01241 .00162
66 67 68A 68B 68C 69A 69B	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	.01180 .00019 .02463 .01325 .00335 .09799 .00354	.01224 .00029 .02137 .00991 .00272 .06574	.00860 .00028 .01905 .01135 .00415 .06309	.00977 .00050 .02590 .01356 .00584 .08627	.00779 .00008 .02036 .00853 .00229 .04993	.02413 .00009 .01808 .00537 .00173 .03319	.01683 .00019 .03879 .00773 .00643 .04916	.02435 .00029 .01655 .00735 .00231 .05119	.03066 .00029 .04880 .00773 .00705 .01963 .00354	1.26328 .00012 .00833 .00320 .00969 .01928	.01817 1.01646 .01230 .00518 .00274 .02157
70A 70B 71A 71B 72A	Netal rade Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	.00334 .01256 .00646 	.00223 .01493 .00622 	.00225 .02084 .00743 	.00340 .01930 .00794 	.01952 .01264 	.03577 .01715 .01986 	.00240 .08471 .00869 	.00305 .04819 .01452 	.05656 .03438 	.00339 .02284 .00382 	.00245 .02459 .00550 .00613 .00429
72B 73A 73B 73C 73D 74	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places	.00272 .00252 .00519 .01507 .02769 .02308 .00645	.00264 .00575 .01929 .02856 .03497	.00398 .00200 .00577 .01564 .02977 .03445	.00309 .00573 .02230 .03114 .06078 .01203	.00230 .01377 .01915 .03268 .00969	.00275 .00275 .00873 .01459 .02718 .01135	.00307 .00285 .02514 .01674 .09212 .02350 .00941	.00299 .00734 .01854 .01769 .03307 .03512 .03649	.00351 .00356 .02789 .02856 .02938 .03470 .02329	.00410 .01778 .01439 .01889 .01414	.01568 .01275 .03584 .05279 .02365 .01499
75 76 77A 77B 78 79	Automotive repair and services Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises	.01273 .00362 .00001 .00184 .00280 .00073	.01147 .00459 .00001 .00325 .00392 .00074	.00982 .00489 .00001 .00706 .00301 .00076	.01538 .00737 .00002 .00559 .00531 .00085	.01960 .00160 .00001 .00430 .00326	.05007 .00185 .00001 .00176 .00340 .00178	.00873 .00315 .00002 .00495 .00456 .00044	.01001 .00512 .00004 .00199 .00308 .00069	.01458 .00473 .00002 .00571 .00518 .00062	.00746 .00857 .00001 .00264 .00350 .00048	.00848 .40952 .00003 .00789 .00493 .00169
80 81 82 83 84 85	Noncomparable imports Scrap, used and secondhand goods General government industry Rest of the world adjustment to final uses Household industry Inventory valuation adjustment	.00575 .00572	.00866	.01986	.03718	.00753 .00115	.00352	.13780	.06192	.00722 .00046	.03131	.00537
UJ	Total commodity output multiplier	2.08461	1.82380	1.82594	2.03758	1.86626	1.82834	2.20009	2.00944	1.72924	1.72108	2.02597

Total Requirements, 1987 Benchmark—Continued of delivery to final demand, at producers' prices]

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lectric ervices itilities)	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, engi- neering, accounting, and related services	Other business and professional services, ex- cept medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Commodity number
68A	68B	68C	69A	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D	74	75	76	8
0.00045 .00050 .00065 .00095 .00076 .11153 .04220 .00162	0.00042 .00046 .00039 .00109 .00049 .00225 .29405 .00101	0.00125 .00151 .00221 .00347 .00184 .00788 .03692 .00412	0.00149 .00121 .00083 .00108 .00037 .00178 .00924 .00051	0.00206 .00154 .00055 .00116 .00031 .00340 .00759	0.00151 .00121 .00046 .00089 .00032 .00158 .00573	0.00219 .00165 .00049 .00087 .00023 .00077 .00333 .00035	0.00087 .00125 .00040 .00873 .00023 .00031 .00159 .00093	0.00147 .00161 .00068 .00650 .00038 .00093 .00403	0.00212 .00277 .00075 .00651 .00059 .00508 .01495 .00185	0.00202 .00237 .00068 .00128 .00101 .00364 .01124 .00119	0.00111 .00098 .00046 .00073 .00076 .00169 .00584	0.00110 .00091 .00037 .00093 .00035 .00116 .00578	0.00177 .00135 .00048 .00102 .00072 .00176 .00773	0.00173 .00164 .00134 .00176 .00084 .00272 .00831 .00110	0.06932 .04880 .01039 .00933 .00067 .00390 .00773	0.00119 .00111 .00053 .00095 .00224 .00329 .02437 .00109	0.00593 .00513 .00108 .01094 .00052 .00303 .00720 .00089	1 2 3 4 5+6 7 8 9+10
.07791 .00004 .00149	.04552 .00003 .00135	.20297 .00010 .00384 (*)	.01537 .00011 .00567	.02564 .00004 .00813	.01856 .00009 .00578 (*)	.01378 .00005 .00867	.05323 .00002 .00086	.07124 .00005 .00397	.05314 .00012 .00603	.02522 .00008 .00685	.01379 .00006 .00422 (*)	.01318 .00017 .00408	.01680 .00109 .00618	.01843 .00006 .00615	.02227 .00008 .28260 (*)	.02198 .00008 .00443	.00010 .01827	12 13 14 15
		(*) .00147 .00125 .00074 .00052 .02497 .00051 .00160 .00039 .000797 .00655 .00014 .00092 .00158 .00194 .00092 .00159 .00196 .00197 .001655 .00196 .00197 .001655 .00196 .00197 .001655 .00196 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .001655 .00197 .00197 .001655 .00197 .00197 .001655 .00197 .00197 .001655 .00197 .00197 .001655 .00197 .00197 .00197 .001655 .00197 .001655 .00197 .001655 .001657 .00167 .0016	(*) .0003 .00050 .00040 .00067 .00757 .00077 .00077 .001776 .01135 .00048 .00140 .00141 .00140 .0014	(*) .00067 .00037 .00024 .00031 .000402 .00038 .00086 .00054 .00086 .00086 .00086 .00086 .00086 .00087 .00087 .00088 .00089	(*) .00082 .00034 .00018 .00083 .00001 .00006 .01382 .00119 .00155 .02355 .02509 .00054 .00017 .00008 .00046 .00148 .00248 .00024 .00169 .00081 .00029 .00037 .00106 .00037 .00106 .00072 .000107 .000107 .000108 .00039 .000109 .00039 .00037 .00106 .00074 .000109 .00038 .00038 .00038 .00038	.00053 .00014 .00039 .00016 .00035 .00036 .00036 .00036 .00036 .00036 .00036 .00030 .00144 .00047 .0006 .00031 .00			.00603 .00603 .00193 .00836 .00193 .00338 .01376 .00694 .00114 .00115 .01831 .00294 .00115 .009797 .00861 .009797 .00861 .009797 .00866		(*)		(*) .00098 .00048 .00066 .00033 .00331 .00009 .01418 .00192 .00063 .01999 .01258 .00231 .00410 .00128 .01012 .01497 .00129 .00152 .00150 .00450 .00450 .00450 .00450 .00450 .00461 .00117 .00197 .00199 .00580 .00481 .0017 .00197 .00294 .00161 .00148 .00371 .00197 .00290 .00369 .00161 .00481 .00177 .00294 .00255 .00153 .00152 .00250 .00481 .00407 .00255 .00161 .00417 .000255 .00161 .00117 .0018 .00664 .00177 .00244 .00242 .00266 .00197 .00264	(*) .00262 .00100 .00057 .01242 .00100 .00057 .01242 .00361 .00361 .00361 .00361 .00461 .00764 .00111 .0011	(*) .00110 .00078 .00018 .00017 .00488 .00007 .02054 .00109 .00053 .00542 .00493 .00151 .00077 .00066 .00051 .00077 .00074 .00161 .00162 .00077 .00074 .00161 .00167 .00074 .00161 .00167 .00074 .00161 .00167 .00074 .00161 .00167 .00074 .00161 .00167 .00074 .00173 .00380 .00197 .00074 .00161 .00161 .00167 .00074 .00173 .00380 .00197 .00074 .00161 .00167 .00074 .00167 .00074 .00177 .00074 .00177 .00074 .00177 .00074 .00177 .00074 .00177 .00074 .00074 .00074 .00078 .00079		(*) .00372 .00080 .00296 .00190 .00894 .00025 .01366 .00185 .00078 .01341 .00077 .00074 .00014 .00091 .00127 .00108 .0026 .00388 .00076 .00388 .00076 .00017 .00181 .00388 .00076 .00017 .00181 .00388 .00076 .00017 .00181 .00388 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00077 .00198 .00197 .00077 .00198 .00197	11 12 13 14 15 16 16 17 18 20 22 22 26 26 27 28 29 29 30 31 32 29 33 33 33 33 34 44 45 55 55 55 57 58 66 65 65 66 66 66 66 66 66 66 66 66 66
.00157 .00265 .01114 .01549 .01617 .00594 .00379 .00846 .00096 (*) .00331 .00374 .00041	.00140 .00147 .00741 .01558 .01379 .01000 .00364 .00776 .00121 .00338 .00034	.00487 .00704 .01348 .05402 .03853 .01357 .00932 .01600 .00215 .00001 .00280 .00521 .00071	.00858 .00573 .00658 .01991 .06396 .02657 .01736 .02610 .00634 .00001 .00276 .00419 .00128 .00959 .00048	.00325 .00619 .01071 .04404 .03277 .05546 .01638 .02076 .00681 .00002 .00220 .00220 .00571 .00136 .00302 .00043	.03923 .00545 .00318 .06534 .04064 .07190 .02158 .01830 .01272 .00348 .00001 .00483 .03191 .00056 .02057	.01030 .00290 .01958 .03369 .03410 .02334 .02763 .01085 .00374 .00002 .00180 .01057 .00053 .00938 .00027	.04362 .00088 .00046 .00210 .01159 .01047 .00271 .00199 .00212 .00053 .00001 .00033 .00090 .00010	.00375 .00302 .00442 .01669 .03178 .02160 .01192 .00745 .00289 .00001 .00132 .00317 .00054 .00220 .00036	1.00294 .01881 .01006 .03055 .08776 .02531 .00628 .02008 .00378 .00002 .00518 .00613 .00601	.00200 .00416 1.02406 .01408 .05676 .05677 .03411 .01224 .02020 .00465 .00002 .01568 .00780 .00238 .00541 .00086	.00372 .00238 1.12961 .01766 .04522 .01722 .01260 .01321 .00269 .00001 .00731 .00735 .00070	.07473 .02092 .00513 .06367 1.10323 .11738 .01069 .01165 .02198 .00260 .00001 .00741 .01095 .00115	.0476/ .00693 .00281 .03898 .03343 1.08236 .01596 .01656 .00343 .00002 .00765 .00948 .00095	.00599 .00609 .01063 .02948 .04882 1.02233 .01277 .01541 .10725 .00002 .00479 .00892 .00129 .00537	.00230 .00445 .00620 .02108 .03843 .03673 1.00820 .00871 .01027 .00063 .00272 .00346 .00155 .00868 .00071	.00346 .01605 .00777 .01988 .05228 .02659 .01259 1.02903 .00358 .00001 .00312 .00750 .00342 .0056	.00602 .00835 .01367 .04751 .08224 .04964 .01378 .01359 1.25892 .00006 .00774 .00868 .00178 .00619	72A 72B 73A 73B 73C 73D 74 75 76 77A 77B 78 80 81 81
1.70421	2.04044	2.21787	1.54095	1.54285	1.86604	1.95677	1.26319	1.48445	1.85696	1.90215	1.75718	1.71483	1.67547	1.84377	2.03397	2.00287	1.97314	83 84 85

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]

	[Total requirements, direct and inc	direct, per	dollar of deliv	ery to final d	lemand, at p	roducers' pr	ices]				
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
Comi	Commodity number	77A	77B	78	79	80	81	82	83	84	85
1 2 3 4 5+6 7 8 9+10	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 Nonmetallic minerals mining	0.00400 .00326 .00059 .00164 .00065 .00221 .00860 .00088	0.00809 .00612 .00145 .00555 .00070 .00305 .01290	0.00116 .00104 .00030 .00048 .00030 .00151 .00836	0.00116 .00155 .00225 .00498 .00173 .01148 .03390						
11 12 13 14 15	New construction Maintenance and repair construction Ordnance and accessories Food and kindred products Tobacco products	.01946 .00007 .01491 (*)	.06450 .00011 .02938 (*)	.01055 .00004 .00439	.31153 .00011 .00301						
16 17 18 19 20+21 22+23 24 25	Broad and narrow fabrics, yam 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	.00236 .00089 .00158 .00264 .00349 .00008 .01311	.00258 .00089 .00222 .00093 .01063 .00019 .03495 .00369	.00182 .00052 .00017 .00253 .00159 .00004 .00511	.00134 .00136 .00101 .00047 .02579 .00072 .00802						
26A 26B 27A 27B 28 29A 29B 30	Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals Plastics and synthetic materials Drugs Cleaning and toilet preparations	.00072 .01260 .03403 .00101 .00769 .02181 .00322	.00432 .07527 .01375 .00231 .00556 .00110	.00018 .01188 .00338 .00031 .00174 .00005	.00032 .00590 .04060 .00439 .00453 .00012						
31 32 33+34 35 36 37 38	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 noniterrous metals manufacturing	.00064 .00818 .03031 .00021 .00374 .00273 .00364 .00314	.00131 .01641 .01521 .00050 .00318 .00452 .00578	.00039 .01311 .00383 .00059 .00057 .00096 .00291	.00329 .02896 .01057 .00018 .00205 .02255 .01605						
39 40 41 42 43 44+45 46 47	Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment	.00086 .00137 .00225 .00365 .00026 .00039 .00016	.00112 .00377 .00279 .00610 .00037 .00064 .00031	.00023 .00088 .00198 .00242 .00028 .00022 .00020	.00064 .01720 .00281 .00993 .00111 .00611 .00101						
48 49 50 51 52 53 54 55	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	.00050 .00079 .00094 .00121 .00045 .00114 .00015	.00080 .00116 .00135 .00178 .00107 .00144	.00016 .00091 .00124 .00032 .00071 .00075	.00042 .00287 .01068 .00081 .00405 .00340 .00191						
56 57 58 59A 59B 60	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	.00169 .00046 .00467 .00172 .00001 .00203	.00293 .00154 .00507 .00217 .00002 .00300 .00122	.00128 .00027 .00110 .00103 .00005 .01107	.00618 .00140 .00266 .00302 .00004 .00258						
61 62 63 64 65A 65B 65C 65D	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	.00019 .02109 .00278 .00136 .00363 .00918 .00086 .00609	.00034 .00155 .00480 .00617 .00547 .01603 .00115	.00054 .00033 .00060 .00188 .01258 .05850 .00236	.00102 .00151 .00125 .00186 .00810 .01850 .00371						
65E 66 67 68A 68B 68C 69A 69B	Pipelines, freight forwarders, and related services 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	.00145 .01561 .00009 .01622 .01109 .00198 .03568 .00282	.00321 .02215 .00027 .02227 .01439 .00343 .03946 .00508	.00485 .00689 .00004 .01160 .00440 .00176 .01354 .00330	.00331 .01461 .00010 .09514 .07423 .00684 .04489						
70A 70B 71A 71B 72A 72B	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto)	.01285 .00966 	.02854 .01387 .13573 .00946 .00470	.00561 .00479 .02468 .00124 .00116	.02434 .02177 .03689 .00420 .00221						
73A 73B 73C 73D 74 75 76 77A	Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements Health services	.02018 .01568 .04329 .01046 .00944 .01472 .00186 1.02042	.01723 .02992 .05568 .03300 .01357 .01614 .01207 .00007	.00341 .00501 .01920 .00427 .00424 .02024 .00101	.01203 .07539 .04186 .01153 .00709 .01316 .00186						
77B 78 79 80 81 82 83	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods General government industry Rest of the world adjustment to final uses	.00341 .00738 .00103 .00386 .00047	1.00395 .01697 .00202 .01091 .00086	.00091 1.00307 .00096 .01833 .00033	.00301 .00410 1.00054 .00418 .00128	1.00000	1.00000	1.00000	1.00000		
84 85	Household industry Inventory valuation adjustment Total commodity output multiplier	1.63818	1.95864	1.38402	2.21193	1.00000	1.00000	1.00000	1.00000	1.00000 1.00000	1.00000 1.00000

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 agri- cultural products	Forestry and fishery products	Agri- cultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non- metallic minerals mining	New con- struction	Maintenance and repair construction
- ludi	Commodity number	1	2	3	4	5+6	7	8	9+10	11	12
1 1 2 3 3 4 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	Livestock and livestock products Other agricultural products Forestry and lishery products Forestry and lishery products Forestry and lishery products Metallic ores mining Crude petroleum and natural gas Nonmetallic minerals mining Coal mining Coal mining Construction Cordance and accessories Food and kindred products Tobacco products Turbier and thirters Tobacco products Turbier and fixtures Tobacco products Turbier and fixtures Tobacco products Tobacco produc	1.31515 3.9555 0.00167 0.8565 0.0039 0.00362 0.00514 0.0051 0.005	2 0.03468 1.07001 .00072 .07662 .00069 .002247 .00964 .02485 .00010 .0014 .0019 .001	3 0.05975 2.3398 .80076 1.3957 .00079 .00151 .02964 .00318 .00313 .05311 .00313 .05311 .00080 .00031 .00316 .00371 .00961 .00971 .00961	services 4 0.10349 .16885 .00164 .95618 .00177 .00214 .00217 .00014 .02250 .0057 .00513 .00165 .00106 .0017 .00106	5+6 0.00074 .00120 .00088 .00074 1.08467 .01578 .03279 .00392 .03185 .00014 .00062 .00029 .00025 .01234 .00022 .00053 .00030 .00050 .00030 .00050	7 0.00049 .00084 .00057 .00136 1.12441 .01847 .00287 .02190 .00011 .00159 .00019 .00059 .00019 .00057 .00068 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .00019 .00059 .000	Natural gas 8	mining 9+10 0.00066 .00099 .00032 .00063 .00038 .01181 .02851 .99280 .02313 .00017 .00232 .00052 .00052 .00052 .00052 .00058 .00058 .00016 .00493 .00597 .02610 .00493 .00597 .02610 .00493 .00164 .00493 .00597 .02610 .00109 .	111 0.00181 0.00181 0.001823 0.00339 0.00378 0.00352 0.2152 0.01391 1.01325 0.00031 0.00384 0.00360 0.00048 0.00569 0.00364 0.0048 0.00569 0.00574 0.00561	0.00184 .00420 .00533 .00651 .00376 .00383 .02163 .01412 .00331 .00365 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .00396 .0019 .00399 .00390 .00390 .00417 .005981 .00119 .00399 .00417 .005981 .00199 .00477 .005981 .001965 .000277 .005981 .00196 .00274 .00077 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277 .00308 .00277
61 62 63 64 65A 65B 65C 65D 66 67 68A 68B 68C 69A 70A 71B 72A 73B 73C 73D 74 77A	Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Miscellaneous manufacturing Water transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services 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 (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations	.00064 .00094 .00136 .01749 .05475 .00341 .00647 .00489 .01363 .00417 .02348 .00846 .02290 .02790 .02790 .0330 .00454 .03303 .00454 .03303 .00456 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .01448 .03303 .00366 .00	.00036 .00066 .00077 .00102 .03191 .00178 .00573 .00346 .01019 .00253 .00346 .00252 .06977 .00580 .02546 .03771 .00294 .00294 .004183 .00392 .00183 .00183 .00183 .00294 .00294 .00494	.01722 .00237 .00032 .00140 .01690 .00417 .00690 .00381 .00732 .00251 .00252 .00542 .00089 .05666 .00415 .02341 .02331 .02331 .00352 .0	.00097 .00078 .00131 .00188 .01085 .0328 .02250 .00528 .00420 .01490 .01190 .01190 .01391 .00724 .01251 .00724 .01587 .00328 .00499 .0190	.00128 .00162 .00166 .00116 .00887 .01851 .00271 .00732 .00380 .00764 .00254 .00254 .00254 .00380 .00159 .00380 .00159 .00381 .00481 .00211 .00381 .0	.00102 .00076 .00085 .00082 .02954 .01447 .00340 .00330 .00333 .00546 .00240 .02892 .00563 .00143 .00136 .00136 .00136 .00136 .00136 .00136 .00334 .0	.00016 .00041 .00082 .00077 .00226 .00621 .00181 .00274 .00123 .00548 .00432 .01684 .01172 .00088 .01132 .00203 .00113 .00416 .00113 .00116 .0	.00040 .00092 .00182 .00122 .002709 .002716 .00761 .00242 .04388 .02688 .00449 .00495 .00258 .00495 .00258 .00495 .00258 .00495 .00258 .00495 .00258 .00495 .005000 .00500 .00500 .00500 .00500 .00500 .00500 .00500 .00500 .005000 .00500 .00500 .00500 .00500 .00500 .00500 .00500 .00500 .0050	.00055 .00055 .00138 .00278 .03013 .00192 .00613 .00347 .01327 .00373 .01424 .00864 .00988 .07547 .04140 .02483 .00923 .00923 .00923 .00923 .00936 .0	.00055 .00361 .00141 .00283 .00720 .03045 .00193 .00635 .00351 .01342 .00374 .01435 .00865 .00988 .07607 .04219 .02526 .00938 .00838 .00835 .00838 .00835 .00838 .00839 .00938 .0000461 .00238 .00835 .07587 .05043 .00212 .00793 .00230 .00004
78 79 82 83 84 85	Federal Government enterprises State and local government enterprises General government industry Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total industry output multiplier	.00470 .01146	.00352 .00956	.00377 .00505	.00566 .00856 		.00337 .01062 	.00266 .00840 1.54762	.00597 .01531 1.69939		.00444 .00602

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

								[Total	requiremen	nts, direct	and indirec	t, 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	Miscel- laneous textile goods and floor coverings	Apparel	Miscel- laneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes
Indus	Commodity number	13	14	15	16	17	18	19	20+21	22+23	24	25
1	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services	0.00070	0.30678	0.00301	0.01691	0.00587	0.00610	0.00713	0.00778	0.00261	0.00323	0.00200
2		.00095	.18453	.08093	.12372	.03586	.03547	.04204	.03045	.00924	.00646	.00391
3		.00037	.00679	.00040	.00052	.00070	.00488	.00082	.09070	.00843	.00804	.00381
4		.00049	.02815	.00618	.01010	.00334	.00383	.00381	.01673	.00244	.00227	.00132
5+6	Metallic ores mining Coal mining Crude petroleum and natural gas	.00485	.00190	.00038	.00163	.00238	.00084	.00116	.00180	.00456	.00174	.00180
7		.00355	.00412	.00220	.00868	.00839	.00436	.00528	.00486	.00543	.01327	.00838
8		.00913	.01686	.00666	.02587	.03180	.01402	.01734	.02202	.01498	.02937	.02649
9+10	Nonmetallic minerals mining Construction Ordnance and accessories	.00121	.00319	.00127	.00451	.00535	.00190	.00266	.00300	.00238	.00755	.00457
11+12		.01631	.01970	.00777	.02231	.02038	.01367	.01666	.02244	.02163	.02329	.02072
13		.95565	.00012	.00005	.00010	.00010	.00009	.00009	.00048	.00017	.00013	.00011
14	Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills	.00243	1.23314	.00203	.00700	.00803	.00571	.00743	.00963	.00560	.01054	.00700
15		(*)	.00001	1.16027	.00001	.00001	.00001	.00001	(*)	.00001	.00031	.00014
16		.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		.00072	.00027	.00020	.00654	.00277	1.22395	.02405	.00056	.00101	.00053	.00040
19		.00052	.00079	.00022	.00319	.00424	.02801	.90323	.00123	.00260	.00060	.00045
20+21 22+23	Lumber and wood products Furniture and fixtures	.00460 .00068	.00770 .00025	.00479 .00008	.00500 .00021	.00680 .00029	.00366 .00017	.00944 .00206	1.39463 .00423	.13191 .98653	.10202 .00060	.04803
24	Paper and allied products, except containers Paperboard containers and boxes Newspapers and periodicals	.00779	.03828	.03971	.01677	.04054	.01515	.02511	.01436	.02154	1.17906	.53800
25		.00284	.02686	.04354	.00990	.01337	.00848	.01756	.00887	.01939	.02051	1.00311
26A		.01016	.01371	.01266	.00647	.01154	.00937	.00823	.00927	.01072	.00747	.00544
26B	Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01067	.02234	.02854	.00895	.01617	.01113	.01297	.01183	.01292	.01997	.01429
27A		.01558	.02347	.01074	.12741	.19206	.05419	.07834	.03426	.03635	.08300	.07250
27B		.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		.00017	.00570	.00014	.00091	.00125	.00053	.00056	.00031	.00027	.00068	.00051
29B		.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	.00220	.00421
31		.00810	.01650	.00737	.02388	.02737	.01369	.01579	.02437	.01470	.02684	.02757
32		.01663	.02800	.00768	.02372	.03619	.01787	.04310	.02204	.04364	.04423	.03319
33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products	.00034	.00035	.00007	.00036	.00035	.00882	.01624	.00039	.00368	.00018	.00027
35		.00124	.01661	.00047	.00897	.00377	.00286	.00418	.00563	.00592	.00178	.00270
36	Stone and clay products Primary iron and steel manufacturing Primary noniferrous metals manufacturing	.00507	.00314	.00112	.00321	.00535	.00179	.00262	.01321	.00876	.00659	.00424
37		.03740	.01462	.00361	.00533	.00711	.00358	.00475	.02095	.06510	.00819	.01088
38		.04713	.01655	.00226	.00368	.00482	.00295	.00375	.01092	.02830	.00663	.00923
39	Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings	.00037	.03428	.00046	.00140	.00186	.00085	.00110	.00139	.00124	.00126	.00284
40		.00297	.00186	.00076	.00185	.00204	.00116	.00158	.01291	.00503	.00281	.00217
41		.01136	.00420	.00084	.00200	.00184	.00133	.00169	.02177	.01472	.00338	.00247
42	Other fabricated metal products Engines and turbines Farm, construction, and mining machinery	.02272	.00822	.00972	.00430	.00632	.00302	.00435	.03307	.04498	.01610	.01626
43		.00236	.00061	.00021	.00062	.00063	.00037	.00043	.00091	.00064	.00068	.00059
44+45		.00122	.00301	.00093	.00191	.00122	.00079	.00096	.00137	.00108	.00125	.00091
46	Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00028	.00027	.00015	.00072	.00044	.00033	.00040	.00108	.00092	.00041	.00032
47		.00656	.00173	.00079	.00164	.00190	.00100	.00144	.00483	.00464	.00198	.00217
48		.00068	.00106	.00063	.00514	.01591	.00462	.00427	.00226	.00197	.00640	.00694
49	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment	.01130	.00252	.00092	.00186	.00251	.00124	.00147	.00439	.00483	.00290	.00233
50		.00785	.00221	.00143	.00279	.00301	.00179	.00251	.00603	.00389	.00344	.00345
51		.00334	.00065	.00037	.00077	.00084	.00056	.00068	.00072	.00086	.00086	.00076
52	Service industry machinery Electrical industrial equipment and apparatus Household appliances	.00058	.00056	.00025	.00057	.00058	.00041	.00064	.00136	.00211	.00074	.00063
53		.00432	.00141	.00054	.00153	.00228	.00102	.00120	.00297	.00399	.00191	.00184
54		.00017	.00016	.00006	.00027	.00021	.00017	.00029	.00298	.00082	.00036	.00023
55 56	Electric lighting and wiring equipment	.00132 .02627	.00102 .00037	.00042 .00020	.00098 .00036	.00093	.00065 .00058	.00087 .00053	.00334 .00047	.00157 .00082	.00141 .00038	.00111
57	Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks)	.04268	.00189	.00110	.00210	.00238	.00181	.00209	.00211	.00262	.00204	.00183
58		.00259	.00206	.00074	.00139	.00105	.00074	.00087	.00131	.00099	.00092	.00086
59A		.00173	.00023	.00010	.00015	.00014	.00012	.00013	.00074	.00037	.00026	.00023
59B	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment	.01504	.00282	.00153	.00229	.00193	.00178	.00230	.00687	.00344	.00366	.00338
60		.13445	.00047	.00026	.00050	.00053	.00042	.00064	.00063	.00071	.00067	.00058
61		.00093	.00062	.00014	.00037	.00045	.00035	.00075	.00260	.00090	.00071	.00071
62	Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing	.05339	.00097	.00061	.00125	.00405	.00339	.00170	.00144	.00309	.00329	.00206
63		.00149	.00112	.00080	.00136	.00174	.00103	.00129	.00127	.00149	.00270	.00178
64		.00149	.00168	.00120	.00156	.00193	.00819	.00960	.00276	.00473	.00173	.00175
65A	Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00346	.01385	.00287	.00969	.01190	.00475	.00676	.01599	.01018	.01703	.02018
65B		.01432	.04443	.01284	.02704	.03736	.01790	.02485	.03401	.02653	.04110	.04893
65C		.00083	.00358	.00062	.00222	.00427	.00124	.00193	.00373	.00199	.00320	.00276
65D	Air transportation Pipelines, freight forwarders, and related services Communications, except radio and TV	.01004	.00671	.00364	.00544	.00550	.00571	.00552	.00586	.00666	.00931	.00792
65E		.00208	.00389	.00136	.00336	.00418	.00222	.00272	.00388	.00288	.00464	.00483
66		.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		.01674	.02199	.00804	.04671	.03840	.02482	.02721	.02627	.02290	.04081	.03243
68B	Gas production and distribution (utilities) Water and sanitary services Wholesale trade	.00910	.01321	.00407	.02066	.02766	.01090	.01465	.01466	.01241	.02674	.01967
68C		.00093	.00187	.00072	.00277	.00244	.00133	.00255	.00204	.00170	.00700	.00391
69A		.04535	.11075	.03913	.09993	.08389	.08018	.10227	.10121	.09419	.08348	.08815
69B	Retail trade Finance Insurance	.00184	.00406	.00187	.00341	.00323	.00247	.00252	.00468	.00329	.00460	.00465
70A		.01122	.01988	.01250	.01620	.01678	.01549	.01943	.02153	.02293	.01606	.01390
70B		.00471	.01421	.00682	.01060	.00896	.00697	.00811	.01176	.00735	.01018	.00941
71A 71B 72A	Owner-occupied dwellings Real estate and royalties Hotels and lodging places	.02051 .00385	.04701 .00337	.01896 .00153	.03187 .00240	.02786 .00260	.02458 .00208	.02669		.02482 .00279	.02211 .00432	.02349 .00300
72B	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services	.00190	.00294	.00130	.00897	.00723	.00620	.00807	.00261	.00299	.00375	.00299
73A		.00449	.00502	.00288	.00586	.00605	.00404	.00495	.00538	.00591	.00723	.00653
73B		.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		.00470	.00625	.00568	.00292	.00532	.00431	.00372	.00421	.00491	.00337	.00242
74	Eating and drinking places Automotive repair and services Amusements	.00634	.00637	.00324	.00734	.00766	.00798	.00817	.00886	.00949	.00653	.00721
75		.00638	.01134	.00864	.01167	.01037	.01217	.00873	.01918	.01347	.01873	.01966
76		.00387	.00551	.00448	.00283	.00444	.00366	.00335	.00397	.00463	.00299	.00231
77A	Health services Educational and social services, and membership organizations Federal Government enterprises	.00002	.00268	.00003	.00017	.00007	.00007	.00008	.00008	.00005	.00004	.00003
77B		.00182	.00187	.00133	.00246	.00238	.00211	.00706	.00511	.00366	.00265	.00200
78		.00324	.00465	.00428	.00628	.00649	.00649	.00656	.00531	.00574	.00556	.00513
79 82 83	State and local government enterprises General government industry Rest of the world adjustment to final uses	.00539	.01032	.00366	.01375	.01281	.00744	.00980	.01033	.00860	.02120	.01505
84 85	Household industry	1.78562	2.58463	1.66430	2.50089	2.59678	2.30313	2.34455	2.35666	2.10133	2.18030	2.38394
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Total Requirements, 1987 Benchmark—Continued of delivery to final demand, at producers' prices]

periodicals publishing chemicals and chemicals altions products arising and plastics products arising products arising and products arising product arising products arising product ari	of delivery	to final de	mand, at p	roducers' p	ricesj														
	News- papers and periodicals	printing and	and other	cultural fertilizers and	and synthetic	Drugs	and toilet prepar-	allied	refining and related	and miscel- laneous plastics	leather, and leather	glass	clay	iron and steel manu-	nonferrous metals manu-		plumbing, and fabri- cated structural metal	machine products and	stry number
DOTS DOTS	26A	26B	27A	27B	28	29A	29B	30	31	32	33+34	35	36	37	38	39	40	41	snpul
.01420 0.1788 0.0895 0.01344 0.1033 0.0860 0.0846 0.0784 0.0781 0.1020 0.0879 0.171 0.1400 0.1105 0.1907 0.1533 0.1944 0.1163 75 0.0036 0.00327 0.0243 0.00437 0.0238 0.0235 0.0248 0.0400 0.0406 0.0364 0.0500 0.0364 76 0.0005 0.0003 0.0004 0.0006 0.0004 0.0007 0.0008 0.0006 0.0002 0.0003 0.0047 0.0002 0.0003 0	0.00127 0.00127 0.00173 0.00127 0.00175 0.0060 0.00000 0.01093 0.01622 0.01325 0.0017 0.0047 0.0020 0.0030 0.00160 0.00000 0.00100000000000000000	0.00154 0.00168 0.0086 0.00168 0.0086 0.00168 0.0086 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00168 0.00169 0	0.00286 .00667 .00124 .00125 .01063 .01073 .02785 .02496 .00012 .01673 .02785 .02496 .00012 .00081	0.00366 .00392 .00060 .00106 .00106 .00106 .00106 .00107 .00210 .002210 .002220 .002	0.00261 .00979 .00077 .00134 .00511 .01129 .05287 .01060 .002245 .00010 .00909 .00022 .05084 .00141 .00136 .00161 .00190 .00022 .00161 .00190 .00020 .00161 .00190 .00161 .00161 .00161 .00161 .00161 .00161 .00161 .0017 .001	0.00526 0.00376 0.0047 0.0087 0.0087 0.0087 0.0010 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0010 0.0011 0.00110 0.0010 0.0011	0.00686 .00533 .00067 .00109 .00242 .00379 .002574 .00434 .00343 .00397 .00260 .00677 .03120 .00678 .00109 .00678 .00109 .00680 .0069 .0069 .0069 .0069 .0071 .0072 .00160 .0073 .00160 .0069 .00740 .0075 .0076 .0076 .0077 .0076 .0076 .0077	0.00541 .00587 .00162 .00121 .00859 .00551 .00910 .00201	0.00085 .00107 .00040 .00114 .00087 .00097 .00098 .00373 .00098 .00238 .00493 .00088 .00238 .00495 .00107 .00090 .0007 .00090 .0007 .00090 .0007 .00080 .000	0.00171 0.0048 0.0030 0.0033 0.0259 0.00688 0.0268 0.0497 0.0011 0.0050 0.01376 0.0077 0.0014 0.0111 0.0587 0.0015 0.0050	0.05173 0.03314 0.0154 0.0054 0.0053 0.0054 0.0053 0.0059	0.00104 0.00199 0.00208 0.0088 0.0088 0.0088 0.0088 0.0088 0.0089 0.0013 0.00200 0.00200 0.002	0.00117 0.0029 0.0070 0.0072 0.0070 0.0072 0.0086 0.91770 0.0093 0.0081	0.00086 .00131 .00068 .000131 .00068 .00073 .04278 .0368 .03423 .00777 .04090 .00052 .00090 .00033 .00030 .00000 .00033 .01060 .00036 .00139 .01461 .01463 .00159 .02211 .01054 .00166 .00159 .02211 .01054 .00166 .00159 .0231 .00070 .00056	0.00098 0.00190 0.0077 0.0072 0.00184 0.0024 0.00257 0.00251 0.0031 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0033 0.0034 0.0033 0.0036 0.0030 0.00	0.00101 0.00101 0.00101 0.00101 0.0070 0.0070 0.0070 0.0070 0.0070 0.00101 0.0028 0.0030 0.0001 0.0029 0.0068 0.0130 0.0101 0.0068 0.00568	0.00097 .00142 .00082 .00089 .01765 .01056 .010846 .001818 .00293 .00067 .00340 .00168 .00073 .00031 .00067 .00168 .00073 .00031 .00054 .01277 .00210 .01183 .00895 .00911 .00168 .00171 .00168 .00168	0.00087 0.00136 0.0055 0.00061 0.0187 0.0128 0.0038 0.0031 0.0038 0.0031 0.0038 0.0038 0.00710 0.00729 0.0138 0.0038 0.0038 0.0030 0.00101 0.00729 0.0088 0.0038 0.0030 0.00103 0.0030 0.00103 0.0030 0.00103 0.0030	1 2 3 3 4 5+6 7 7 7 8 8 9+100 11+12 13 144 15 15 16 6 17 7 17 18 8 19+20+21 22+23 25 25A 25B 27A 27B 28B 27A 27B 28B 33+34 35 35 35 35 35 35 35 35 35 35 35 35 35
	.01420 .00396 .00005 .00353 .01810 .00668	.01788 .00323 .00003 .00293 .01122 .00869	.00895 .00313 .00004 .00204 .00581 .01498	.01344 .00367 .00006 .00284 .00623 .02010	.01033 .00327 .00004 .00300 .00560 .01511	.00860 .00243 .00007 .00646 .00363 .00528	.00846 .00437 .00008 .00277 .00463 .00762	.00784 .00238 .00006 .00181 .00405 .00953	.00781 .00235 .00002 .00252 .00433 .00996	.01202 .00288 .00003 .00511 .00532 .01154	.00879 .00400 .00047 .00186 .00777 .00840	.01271 .00406 .00002 .00195 .00541 .01284	.01400 .00364 .00003 .00243 .00558 .01374	.01105 .00530 .00003 .00202 .00704 .01921	.01907 .00322 .00003 .00276 .00777 .01657	.01533 .00512 .00003 .00277 .00608 .01429	.01444 .00325 .00003 .00245 .00524 .00980	.01163 .00346 .00003 .00464 .00568 .01122	75 76 77A 77B 78 79 82 83 84

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

								[Tot	al requireme	ents, direct a	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, construc- tion, and mining machinery	Materials handling machinery and equipment	Metal- working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscel- laneous machinery, except electrical	Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus
npul	Commodity number	42	43	44+45	46	47	48	49	50	51	52	53
1 2 3 4 5+6 7 8 9+10 11+12 13	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 Nonmetallic minerals mining Construction Ordnance and accessories	0.00095 .00148 .00082 .00066 .01158 .00915 .01840 .00309 .02743	0.00073 .00102 .00039 .00052 .01356 .00906 .01452 .00239 .02236	0.00090 .00125 .00058 .00062 .00863 .00834 .01480 .00220 .02348 .00069	0.00096 .00121 .00057 .00059 .00802 .00663 .01352 .00198 .02461	0.00089 .00115 .00046 .00053 .00727 .00651 .01328 .00276 .01835	0.00091 .00116 .00053 .00055 .00722 .00556 .01279 .00208 .01998	0.00086 .00126 .00047 .00054 .00883 .00694 .01325 .00209 .01980	0.00081 .00099 .00037 .00051 .00904 .00592 .01088 .00208 .02089	0.00092 .00107 .00036 .00057 .00369 .00294 .00907 .00102 .02003	0.00091 .00135 .00086 .00061 .01040 .00601 .01327 .00300 .01973	0.00094 .00127 .00055 .00063 .00946 .00601 .01650 .00247 .02129 .00033
14 15 16 17 18	Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00341 .00001 .00237 .00122 .00054	.00255 (*) .00154 .00076 .00044	.00319 (*) .00187 .00104 .00042	.00340 (*) .00159 .00100	.00321 (*) .00180 .00063	.00335 (*) .00158 .00089	.00295 (*) .00352 .00627	.00287 (*) .00141 .00135	.00330 (*) .00178 .00078	.00327 (*) .00225 .00104 .00034	.00332 .00001 .00220 .00097
19 20+21 22+23 24 25 26A	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes Newspapers and periodicals	.00087 .01141 .00189 .01809 .01031 .01021	.00037 .00492 .00036 .00970 .00511 .00834	.00038 .00757 .00053 .01146 .00608 .01218	.00031 .00054 .00736 .00196 .01119 .00438	.00034 .00103 .00569 .00034 .01021 .00667 .00897	.00028 .00027 .00675 .00041 .01093 .00534 .00966	.00040 .00061 .00595 .00026 .01152 .00675 .00855	.00026 .00024 .00437 .00035 .00888 .00532 .00861	.00030 .00034 .00401 .00055 .01183 .00538 .00499	.00039 .01187 .00102 .01368 .01009 .01000	.00035 .00038 .00680 .00056 .01920 .00898 .01441
26B 27A 27B 28 29A 29B 30	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	.01368 .03829 .00125 .01391 .00028 .00161 .00844	.00988 .01651 .00066 .00729 .00013 .00075	.01317 .01841 .00080 .00945 .00015 .00084 .00404	.01704 .01612 .00069 .00727 .00014 .00077 .00256	.01035 .02237 .00080 .00871 .00016 .00094 .00217	.01127 .02679 .00088 .00801 .00018 .00092	.01073 .01621 .00069 .00991 .00017 .00083 .00125	.00994 .01282 .00059 .00664 .00011 .00071	.00968 .01422 .00068 .01054 .00013 .00073	.01134 .02283 .00090 .01419 .00030 .00141	.01503 .01987 .00085 .01291 .00016 .00095 .00394
31 32 33+34 35 36 37	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	.01544 .03069 .00017 .00384 .01084 .20138	.01162 .02116 .00012 .00115 .01105 .19121	.01217 .03691 .00024 .00138 .00932 .17180	.01225 .02401 .00013 .00133 .00841 .13906	.01242 .03009 .00018 .00120 .01950 .11609	.01196 .02584 .00015 .00426 .00865 .09713	.01143 .02335 .00011 .00106 .01059 .13313	.00979 .01218 .00011 .00113 .01267 .10012	.00992 .03788 .00015 .00213 .00345 .02214	.01202 .03232 .00013 .00250 .01081 .09684	.01711 .03158 .00013 .00167 .01516 .07837
38 39 40 41 42 43	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products Engines and turbines	.08138 .00118 .01273 .02299 .94446 .00168	.09507 .00049 .01729 .02357 .02405 .98256	.03790 .00066 .04474 .02113 .02787 .04830	.04444 .00058 .03635 .02460 .04569 .01118	.05456 .00057 .01877 .04151 .02143 .00408	.05137 .00055 .02037 .01273 .02203 .00550	.05790 .00047 .01465 .01464 .02412 .00666	.07589 .00040 .01631 .01495 .02632 .00538	.03830 .00051 .00630 .00826 .01565 .00087	.09476 .00072 .01606 .02753 .02712 .00333	.08963 .00066 .00784 .02109 .01980 .01628
44+45 46 47 48 49 50 51	Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment	.00330 .00095 .01424 .00282 .01007 .01672 .00159	.01765 .00061 .01139 .00112 .02950 .03899 .00147	1.00820 .00285 .01381 .00237 .03920 .03186 .00116	.02172 .97644 .01311 .01040 .04481 .03139 .00129	.00639 .00131 .93896 .00608 .01278 .03542 .00165	.00329 .00454 .02298 .95573 .04057 .03083 .00477	.00632 .00305 .01599 .00954 1.00047 .02351 .00329	.00636 .00149 .02400 .00337 .02446 .98897 .00285	.00061 .00032 .00281 .00105 .00256 .00331 1.18959	.00304 .00118 .00991 .00629 .02943 .01594	.00209 .00133 .00889 .00094 .01079 .01518 .00458
52 53 54 55 56 57	Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories	.00212 .00939 .00054 .00409 .00078	.00108 .04025 .00022 .00229 .00081 .00552	.00141 .01143 .00027 .00194 .00067 .00333	.00346 .04477 .00036 .00245 .00157 .00514	.00097 .02867 .00022 .00220 .00053 .00425	.00308 .06296 .00108 .00245 .00076 .01381	.00726 .04828 .00098 .00183 .00063	.00193 .00911 .00033 .00576 .00067 .00582	.00071 .03207 .00015 .00650 .02350 .14252	1.02208 .07022 .01111 .00842 .00095 .00723	.00115 .97115 .00039 .01236 .00358 .03982
58 59A 59B 60 61 62	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	.00185 .00047 .01170 .00346 .00063 .00539	.01244 .00154 .05590 .04306 .00616 .00482	.00610 .00151 .01194 .00306 .00400 .00177	.00761 .00080 .01250 .00887 .00109 .00579	.00182 .00172 .00443 .00193 .00061 .00185	.00217 .00029 .00335 .00583 .00078	.00221 .00038 .01027 .00198 .00057 .00581	.00267 .00039 .01592 .00453 .00107 .00280	.00525 .00022 .00215 .00182 .00039	.00185 .00053 .00606 .00163 .00111	.00543 .00045 .00414 .00782 .00612 .00756
63 64 65A 65B 65C 65D 65E	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	.00130 .00405 .00904 .02846 .00233 .00755	.00114 .00138 .00721 .02374 .00209 .00735 .00262	.00129 .00201 .00749 .02679 .00233 .00921 .00297	.00133 .00207 .00638 .02227 .00174 .00782 .00258	.00121 .00179 .00617 .01968 .00159 .00771	.00380 .00177 .00587 .01721 .00142 .01003 .00253	.00149 .00171 .00615 .01834 .00171 .00956 .00253	.00124 .00146 .00547 .01665 .00141 .00686 .00207	.00819 .00153 .00344 .01153 .00090 .02078 .00306	.00133 .00321 .00664 .02234 .00177 .01047	.00143 .00243 .00740 .02100 .00155 .01416 .00331
66 67 68A 68B 68C 69A 69B	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	.01195 .00830 .03046 .01926 .00155 .08911 .00342	.01116 .00676 .02756 .01646 .00149 .09529 .00277	.01161 .00996 .02470 .01628 .00147 .10658 .00298	.01290 .00947 .02152 .01333 .00151 .10372 .00295	.01102 .00726 .02358 .01236 .00110 .06677 .00296	.01274 .00784 .02126 .01173 .00116 .08968 .00257	.01209 .00691 .02504 .01392 .00118 .08448 .00258	.01059 .00696 .02321 .01082 .00087 .05775 .00254	.01231 .00385 .01633 .00639 .00094 .11785 .00246	.01193 .00813 .02320 .01290 .00156 .11005	.01438 .01181 .02523 .01331 .00119 .09476 .00285
70A 70B 71A 71B 72A 72B	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto)	.01786 .00711 	.01544 .00674 	.01526 .00743 	.01599 .00699 	.01474 .00670 	.01749 .00628 	.01523 .00630 	.01818 .00559 	.01971 .00594 	.01400 .00619 	.02318 .00670
73A 73B 73C 73D 74 75	Personal and repail services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services	.00297 .00712 .01644 .03379 .00470 .00756	.00350 .00847 .01410 .03028 .00383 .00650 .01157	.00330 .00807 .01775 .03259 .00564 .00789	.00321 .00673 .01755 .03348 .00536 .00837 .00988	.00270 .00612 .01613 .02897 .00411 .00805 .01442	.00270 .00587 .01692 .03069 .00444 .00800 .01080	.00303 .00695 .01584 .03045 .00391 .00767	.00253 .00730 .01669 .04339 .00394 .00800 .01169	.00239 .00567 .01902 .03035 .00218 .00927 .01151	.00570 .01607 .02901 .00461 .00757	.00312 .00688 .01658 .03345 .00669 .00823 .01218
76 77A 77B 78 79 82	Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government industry General government industry	.00396 .00003 .00245 .00527 .00968	.00345 .00002 .00193 .00485 .00862	.00471 .00002 .00189 .00547 .00817	.00471 .00003 .00191 .00533 .00735	.00347 .00002 .00223 .00435 .00719	.00378 .00002 .00183 .00515 .00679	.00360 .00002 .00219 .00500 .00747	.00339 .00003 .00235 .00426 .00651	.00238 .00002 .00221 .00355 .00565	.00395 .00002 .00250 .00402 .00781	.00544 .00003 .00211 .00507 .00790
83 84 85	Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total industry output multiplier	2.01018	2.13840	2.08876	2.04968	1.81882	1.90336	1.91831	1.80296	2.04630	2.06395	1.95570

*Less than .000005.

Total Requirements, 1987 Benchmark—Continued of delivery to final demand, at producers' prices]

of delivery	to final de	mand, at p	oroducers' pri	ices]														
Household appliances	Electric lighting and wiring equipment	Audio, video, and communi- cation equipment	Electronic components and accessories	Miscel- laneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehi- cles parts	Aircraft and parts	Other trans- portation equipment	Scientific and controlling instruments	Ophthal- mic and photo- graphic equipment	Miscel- laneous manufac- turing	Railroads and related services; passenger ground transportation	Motor freight transpor- tation and ware- housing	Water transpor- tation	Air transpor- tation	Pipelines, freight forwarders, and related services	Communications, except radio and TV	stry number
54	55	56	57	58	59A	59B	60	61	62	63	64	65A	65B	65C	65D	65E	66	inpul
54 0.00110 .00208 .00111 .00072 .00764 .00688 .01628 .01628 .00279 .01941 .00055 .00373 .00011 .00055 .00373 .00011 .00544 .00044 .00044 .00151 .01366 .05663 .00019 .01301 .01087 .01188 .00400 .00878 .01090 .010	equipment 55 0.00100 .00155 .00064 .00063 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00081 .00082	equipment 56 0.00082 .00118 .00048 .00054 .00054 .00058 .00311 .00903 .00119 .00903 .00129 .00057 .00031 .00023 .01095 .01451 .00701 .00980 .01292 .00168 .00169 .00170	accessories 57 0.00089 .00125 .00039 .00057 .00631 .00433 .01178 .00182 .02156 .00042 .00323 .01178 .00182 .001647 .00102 .01047 .00102 .01047 .00545 .00656 .00871 .03627 .00118 .011791 .00026 .00121 .00	and supplies 58 0.00120	trucks) 59A 0.00132 .000131 .00071 .00082 .00628 .01760 .00257 .02169 .00063 .00071 .00001 .01869 .00705 .00114 .02470 .00011 .01869 .00766 .01419 .01563 .03769 .0166 .01490 .0166	cles parts 59B 0.00095 .00161 .00072 .00067 .01059 .00717 .01647 .00251 .00253 .00057 .00324 .00242 .00233 .00960 .00149 .00140 .00206 .00166 .00188 .00291 .00148 .00291 .00148 .00291 .00148 .00582 .0058	0.00080 0.00080 0.0124 0.0035 0.0057 0.0757 0.0759 0.0134 0.0134 0.0134 0.0134 0.0229 0.0041 0.0252 0.0420 0.0079 0.00129 0.00247 0.01288 0.00247 0.01288 0.0062 0.0046 0.0062 0.0046 0.0062	equipment 61 0.00101 .00233 .00229 .00100 .00689 .00541 .01256 .00218 .03339 .00083 .00883 .00883 .00883 .00883 .00883 .00883 .00886 .00789 .03423 .0348 .00472 .00733 .00910 .02307 .00108 .01766 .0018 .01766 .0018 .01766 .0018 .01766 .0018 .01766 .0018 .01766 .0018 .01766 .0018 .01766 .0018 .00100 .00811 .01222 .02532 .00288 .01256 .00888 .04886 .04911 .00084 .04164 .01688 .02988 .04733 .01594 .00061 .00189 .00199 .00560 .00199 .00560 .00199 .00560 .00199 .00560 .00199 .00560 .00199 .00577 .02920 .007712 .00504 .007712 .00504	62 0.00120 .00189 .00054 .00062 .00445 .00062 .00445 .00135 .01572 .01573 .01572 .01573 .01572 .01573 .015	equipment 0.00102 0.0155 0.0080 0.0064 0.0027 0.0136 0.0027 0.0136 0.0027 0.01475 0.0027 0.01476 0.0011 0.01198 0.0011	turing 64 0.00257 .00523 .00245 .00130 .00770 .00443 .01450 .00721 .00810 .00023 .00281 .00031 .00151 .03515 .00151 .03615 .00151 .03616 .01806 .01806 .01806 .01806 .01806 .01806 .01806 .01806 .00203 .03485 .00041 .00161 .00092 .00161 .00161 .00092 .00161 .00	ground transportation 65A 0.00099 .00128 .00083 .00120 .00131 .00291 .05101 .00252 .12308 .00014 .00323 .00126 .00092 .001657 .00126 .00126 .00092 .00176 .00126 .00092 .00171 .00116 .00146 .00169 .00040 .00053 .00041 .00111 .00111 .0011 .00111 .0010 .00367 .00299 .00347 .00992 .00093 .00347 .00992 .00093 .00342 .00093 .00342 .00093 .00342 .00093 .00342 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00093 .00099 .00011	ware-housing 65B 0.00135 .00991 .00026 .00091 .00048 .00224 .04263 .00091 .01601 .00008 .00031 .00097 .00057 .00057 .00057 .00158 .00097 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00597 .00100 .00007 .00	65C 0.00204 .00221 .00102 .00218 .00532 .00113 .00532 .00710 .00592 .00710 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .003031 .00564 .00100 .00278 .00278 .00278 .00278 .00278 .00181 .00584 .00160 .003031 .00160 .00208 .00116 .003031 .00592 .00656 .00402 .00656 .009033 .02102 .00656 .009033 .02102 .00666 .009033 .02102 .00666 .009033 .000666 .009033 .000666 .000033 .000666 .000008 .0000666 .000008 .0000666 .000008 .0000666 .000008 .0000666 .000008 .000008 .000008 .0000666 .00008 .0000666 .00008 .00008 .0000666 .00008 .0	65D 0.00400 .00304 .00056 .00107 .00071 .00214 .07829 .00125 .02503 .00270 .01525 .02503 .00071 .00046 .00071 .00046 .00071 .00230 .00102 .00066 .012443 .00527 .00618 .00084 .00071 .00092 .00068 .000071 .000109 .0	services	and TV 66 0.00068 .00068 .00068 .00075 .00065 .00120 .0043 .00075 .00105 .00106 .0059 .00106 .0059 .00106 .0059 .00011 .00024 .00141 .00024 .00141 .00049 .00039 .00159 .00040 .00040 .00040 .00049 .00038 .00060 .0007 .00041 .00049 .00038 .00060 .0007 .00040 .000802 .00015 .000802 .00015 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00016 .00030 .000802 .00017 .00014 .00018 .00018	Jaquinu Aisripul 1 2 3 4 4 5 7 8 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
.00185 .01032 .00317 .01122 .00947 .02431 .01678 .00155 .11509 .00265 .01942	.00144 .01281 .00313 .01204 .00747 .02388 .01445 .00127 .09897 .00270 .02101	.00090 .01071 .00219 .01196 .00792 .01697 .00763 .00080 .08231 .00190 .01534	.0011/ .01074 .00248 .01130 .00523 .02580 .01020 .00090 .07558 .00255 .02058	.00155 .01617 .00350 .01306 .01053 .02503 .01218 .00157 .10065 .00312 .02384	.00207 .01219 .00412 .01330 .01160 .02369 .01572 .00156 .14639 .00482 .01926	.00206 .00841 .00330 .01426 .01111 .02697 .01599 .00137 .10303 .00471 .01562	.00107 .02106 .00317 .01320 .01001 .01947 .00892 .00088 .04962 .00220 .02410	.00169 .00720 .00258 .01200 .00592 .02083 .01091 .00130 .09799 .00352 .01284	.00105 .00835 .00204 .01255 .00897 .01808 .00817 .00106 .06574 .00224 .01521	.00175 .00940 .00248 .00890 .00883 .01611 .00943 .00161 .06309 .00224 .02116	.00203 .00683 .00304 .01030 .01558 .02191 .01121 .00226 .08627 .00338 .01963	.00244 .00586 .02851 .00787 .00249 .01722 .00706 .00091 .04993 .01075 .02015	.00200 .00602 .04943 .02423 .00291 .01529 .00446 .00358 .03558 .01783	1.10822 .00966 .07693 .01704 .00603 .03282 .00638 .00248 .04916 .00239 .08554	.00383 1.02442 .09481 .02466 .00901 .01400 .00611 .00090 .05119 .00303 .04898 .01413	.00195 .02402 1.04047 .03097 .00890 .04128 .00636 .00273 .01963 .00352 .05804	.0004/ .00401 .00099 1.26341 .00363 .00706 .00263 .00374 .01928 .00337 .02338	65D 65E 66 67 68A 68B 68C 69A 69B 70A 70B
.02020 .00464 .00365 .00636 .01528 .03251 .00537 .00770 .00974 .00452 .00003 .00348 .00707 .00862	.02177 .00714 .00297 .00646 .01753 .03107 .00423 .00850 .01158 .00373 .00003 .00207 .00486 .00780	.02310 .00347 .00601 .00683 .01647 .03199 .00448 .00705 .00764 .00398 .00002 .00320 .00503		.02500 .00860 .00317 .00726 .02119 .03628 .00596 .01077 .01529 .00630 .00003 .00273 .00511			.02123 .01270 .00244 .00628 .01757 .03482 .00567 .00648 .00730 .00487 .00002 .00326 .00511 .00607	.03002 .00279 .00252 .00488 .01507 .02960 .00335 .00640 .01269 .00360 .00002 .00192 .00410 .00722	.02301 .00319 .00265 .00541 .01929 .03148 .00508 .00763 .01144 .00456 .00003 .0038 .00505 .00600		.02512 .00307 .00310 .00538 .02229 .03626 .00882 .01194 .01532 .00733 .00004 .00581 .00671		.04570 .00327 .00276 .00821 .01459 .02812 .00165 .01002 .04979 .00184 .00003 .00181	.06254 .00322 .00287 .02364 .01673 .09391 .00341 .00881 .00313 .00007 .00504 .00660 .01193	.04639 .00311 .00734 .01743 .01768 .03601 .00510 .03621 .00999 .00509 .00005 .00212 .00432 .02335		.03171 .00186 .00411 .01672 .01439 .02007 .00205 .00632 .00744 .00850 .00002 .00269 .00403	71A 71B 72A 72B 73A 73B 73C 73D 74 75 76 77A 77B 78 82
2.13254	1.95934	1.93327	1.86771	2.05131	2.67846	2.24813	2.01852	2.07465	1.81260	1.80504	1.99597	1.85843	1.82450	2.06097	1.94720	1.72170	1.68937	83 84 85

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

	[Total requirements, direct and indirect, pe											
stry 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 broad- casting	Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner- occupied dwellings	Real es- tate and royalties	Hotels and lodging places
Industry	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 .00050	.00075 .00051	.00062 .00031	.00238 .00174	.00150 .00065	.00178 .00044	.00158	.00188	.00172 .00031	.00208 .00054	.00331
4	Agricultural, forestry, and fishery services	.00408	.00089	.00103	.00326	.00101	.00109	.00084	.00039	.00819	.00610	.00611
5+6	Metallic ores mining	.00054 .00160	.00076 .11151	.00049 .00225	.00184 .00788	.00037	.00031 .00340	.00032 .00158	.00023 .00077	.00023	.00038	.00059 .00508
8	Coal mining	.00593	.05256	.49087	.04801	.00178 .01097	.00340	.00156	.00381	.00180	.00093	.01944
9+10	Nonmetallic minerals mining	.00076	.00176	.00115	.00475	.00058	.00065	.00054	.00039	.00093	.00125	.00199
11+12 13	Construction	.02807 .00014	.07791 .00009	.04552 .00006	.20297 .00038	.01537 .00016	.02564 .00007	.01856 .00014	.01378	.05323	.07124 .00007	.05314 .00016
14	Food and kindred products	.00963	.00153	.00139	.00408	.00564	.00805	.00574	.00858	.00086	.00395	.00606
15 16	Tobacco products	.00178	.00071	.00037	.00178	.00001 .00110	.00001 .00078	.00098	.00061	.00024	.00057	.00001
17	Miscellaneous textile goods and floor coverings	.00047	.00051	.00026	.00127	.00051	.00038	.00036	.00024	.00026	.00041	.00201
18 19	Apparel Miscellaneous fabricated textile products	.00115 .00072	.00023 .00018	.00015 .00014	.00075 .00049	.00041 .00061	.00024 .00028	.00019 .00074	.00015 .00035	.00004	.00014 .00022	.00353 .01210
20+21	Lumber and wood products	.00489	.00719	.00409	.02486	.00753	.00400	.00300	.00216	.00436	.00646	.00697
22+23 24	Furniture and fixtures Paper and allied products, except containers	.00021 .00871	.00023 .00373	.00014 .00315	.00067 .01094	.00011 .01761	.00011 .01697	.00010 .01377	.00007 .00933	.00014 .00142	.00021 .00655	.00032 .01841
25	Paperboard containers and boxes	.00141	.00116	.00067	.00262	.01129	.00232	.00122	.00097	.00039	.00088	.00303
26A 26B	Newspapers and periodicals	.00793	.00205	.00323	.00464	.00881	.01730	.00861	.00798	.00091	.00690	.00911
27A	Other printing and publishing	.01334 .00736	.00476 .00865	.00469 .00904	.00928 .04333	.01877 .00535	.01620 .00454	.02702 .00468	.02148 .00332	.00191 .00181	.01092 .00410	.01950 .01327
27B 28	Agricultural fertilizers and chemicals	.00122	.00050	.00061	.00331	.00061	.00055	.00056	.00049	.00228	.00163	.00731
29A	Plastics and synthetic materials	.00275 .00014	.00213 .00010	.00137 .00007	.00744 .00035	.00258 .00010	.00196 .00009	.00205 .00011	.00137 .00009	.00070 .00004	.00161 .00007	.00802 .00036
29B	Cleaning and toilet preparations	.00082	.00073	.00052	.00174	.00076	.00059	.00075	.00045	.00020	.00053	.00717
30 31	Paints and allied products	.00054 .00645	.00094 .05098	.00063 .01241	.00263 .03761	.00058 .01248	.00053 .01038	.00045 .00847	.00033 .00481	.00052 .00218	.00079 .00544	.00098
32	Rubber and miscellaneous plastics products	.00786	.00577	.00283	.01920	.00695	.00485	.00573	.00372	.00174	.00463	.02567
33+34 35	Footwear, leather, and leather products	.00070 .00099	.00009 .00085	.00007 .00050	.00025 .00296	.00032 .00116	.00021 .00065	.00024	.00028 .00062	.00003	.00012 .00064	.00081 .01354
36	Stone and clay products	.00223	.00570	.00484	.01546	.00170	.00195	.00153	.00110	.00321	.00456	.00506
37 38	Primary iron and steel manufacturing	.00338	.00766 .00561	.00599 .00267	.01710 .01175	.00332 .00279	.00290 .00229	.00243 .00250	.00175 .00173	.00252 .00172	.00374 .00278	.00500
39	Metal containers	.00046	.00038	.00019	.00071	.00192	.00038	.00034	.00035	.00010	.00025	.00061
40 41	Heating, plumbing, and fabricated structural metal products	.00187 .00144	.00493 .00260	.00290 .00085	.01195 .00398	.00122 .00142	.00157 .00122	.00123 .00105	.00089	.00314	.00399 .00087	.00319
42	Other fabricated metal products	.00343	.00397	.00401	.01818	.00310	.00354	.00221	.00155	.00131	.00240	.00435
43 44+45	Engines and turbines	.00028 .00047	.00501 .00539	.00043 .00196	.00100 .00378	.00029 .00051	.00031 .00044	.00029	.00019 .00025	.00011	.00017 .00051	.00049
46	Materials handling machinery and equipment	.00018	.00076	.00018	.00072	.00077	.00015	.00017	.00010	.00016	.00024	.00032
47 48	Metalworking machinery and equipment	.00071 .00040	.00133 .00023	.00085 .00017	.00177 .00064	.00076 .00042	.00049	.00052	.00032 .00026	.00020	.00040 .00022	.00091
49	General industrial machinery and equipment	.00080	.00384	.00169	.00331	.00084	.00072	.00104	.00058	.00040	.00076	.00129
50 51	Miscellaneous machinery, except electrical	.00097 .00322	.00193 .00097	.00131 .00155	.00769 .00159	.00144 .00092	.00096 .00111	.00077 .00461	.00055 .00163	.00024 .00022	.00068 .00057	.00135 .00142
51 52 53 54 55 56 57 58	Service industry machinery	.00084 .00184	.00108 .00349	.00066 .00171	.00330 .00310	.00080 08000.	.00077 .00075	.00047 .00106	.00034 .00061	.00066 .00049	.00097 .00085	.00102 .00144
54	Household appliances	.00029	.00027	.00022	.00122	.00015	.00019	.00013	.00010	.00016	.00042	.00056
55 56	Electric lighting and wiring equipment	.00128 .00272	.00307 .00048	.00125 .00034	.00502 .00140	.00080 .00057	.00091 .00058	.00091	.00061 .00082	.00094 .00025	.00155 .00053	.00435
57	Electronic components and accessories	.03198	.00182	.00131	.00447	.00250	.00226	.00605	.00273	.00050	.00148	.00372
58 59A	Miscellaneous electrical machinery and supplies	.00267 .00011	.00214 .00015	.00203 .00008	.00346 .00174	.00119 .00021	.00102 .00017	.00259 .00014	.00200 .00011	.00029	.00091	.00117 .00020
59B	Truck and bus bodies, trailers, and motor vehicles parts	.00137	.00188	.00117	.02960	.00332	.00266	.00202	.00170	.00038	.00110	.00292
60 61	Aircraft and parts Other transportation equipment	.00073	.00055 .00091	.00029 .00020	.00075 .00078	.00077 .00022	.00030 .00021	.00077 .00052	.00043 .00026	.00008	.00022 .00018	.00041 .00051
62	Scientific and controlling instruments	.00184	.00127	.00069	.01505	.00062	.00052	.00074	.00051	.00024	.00046	.00171
63 64	Ophthalmic and photographic equipment Miscellaneous manufacturing	.00861 .00267	.00071 .00084	.00061 .00071	.00163 .00224	.00144 .00206	.00128 .00262	.00555 .00284	.00316 .00227	.00030 .00032	.00095 .00130	.00198 .00468
65A	Railroads and related services: passenger ground transportation	.00326	.02952	.00193	.00718	.00288	.00368	.00417	.00391	.00076	.00250	.00593
65B 65C	Motor freight transportation and warehousing	.00882	.01013	.00530	.12971	.00751	.00784	.03166	.01005	.00271	.00663	.01506
65D	Air transportation	.01197	.00458	.00408	.00676	.01349	.00473	.01348	.00733	.00108	.00333	.00576
65E 66	Pipelines, freight forwarders, and related services	.00193 .01838	.00472 .00582	.00627 .00501	.00762 .01705	.00321 .02202	.00148 .01900	.00304	.00201 .03148	.00038	.00127 .00966	.00338
67	Radio and TV broadcasting	1.02233	.00152	.00256	.00348	.00681	.01422	.00553	.00598	.00070	.00554	.00649
68A 68B	Electric services (utilities)	.01040 .00427	.85344 .04944	.01501 1.10553	.05175 .05609	.01111 .00759	.02400 .00595	.01049 .00295	.00473 .00189	.00138	.00523 .00302	.03412 .02273
68C	Water and sanitary services	.00108	.00108	.00076	.39558	.00070	.00104	.00090	.00135	.00013	.00039	.00427
69A 69B	Wholesale trade	.02157 .00244	.03274 .00441	.01682 .00282	.05234 .01499	1.03595 .00395	.01516 .99910	.01798 .00306	.01195 .00195	.00633	.01200 .00414	.03396
70A	Finance	.02505	.02059	.01686	.02938	.02398	.01804	1.20851	.11255	.01213	.02814	.06660
70B 71A	Insurance	.00535	.01196	.00592	.06532	.00516	.00590	.02292	1.40442	.04374 1.00000	.02713	.00776
71B	Real estate and royalties	.09383	.02502	.09933	.03702	.03845	.07446	.05781	.05680	.04472	1.07371	.05920
72A 72B	Hotels and lodging places	.00452 .01569	.00163 .00265	.00165 .00147	.00496 .00705	.00868 .00574	.00343 .00620	.00560 .00320	.01044 .00291	.00099 .00047	.00638 .00303	1.00308 .01883
73A 73B	Computer and data processing services	.01199 .03583	.01047 .01549	.00696	.01268 .05401	.00619 .01990	.01007 .04402	.06143	.01841	.00198 .01158	.00416 .01669	.00946 .03054
73C	Legal, engineering, accounting, and related services Other business and professional services, except medical	.05481	.01665	.01558 .01462	.03961	.06608	.03744	.04063 .07363	.03603	.01068	.03354	.08971
73D 74	Advertising	.00343	.00086 .00376	.00145 .00361	.00197 .00925	.00386 .01722	.00805 .01625	.00313 .01815	.00339 .02742	.00039 .00197	.00314 .01183	.00367 .00624
75	Automotive repair and services	.00851	.00843	.00774	.01595	.02602	.02068	.01274	.01083	.00212	.00745	.02008
76 77A	Amusements	.40593 .00006	.00096	.00130 .00001	.00214 .00003	.00629 .00005	.00678 .00004	.00346 .00005	.00371 .00004	.00053	.00288 .00003	.00376 .00007
77B	Health services Educational and social services, and membership organizations	.00798	.00333	.00124	.00285	.00286	.00241	.00491	.00188	.00034	.00140	.00527
78 79	Federal Government enterprises	.00623	.05042 .11696	.00446 .05390	.00845 .54715	.00506 .00546	.01043 .01046	.03286	.01730 .00483	.00128 .00152	.00577 .02372	.01050 .01915
82	State and local government enterprises	.00928	.11696		.54/15	.00546	.01046		.00483	.00152		
83 84	Rest of the world adjustment to final uses											
85	Inventory valuation adjustment											
	Total industry output multiplier	2.02027	1.70058	2.03370	2.21174	1.53111	1.53953	1.84520	1.94722	1.26218	1.48199	1.85045

^{*}Less than .000005.

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, engi- neering, accounting, and related services	Other business and professional services, ex- cept medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Health services	Educational and social services, and membership organizations	Federal Govern- ment enter- prises	State and local government enterprises	Non- comparable imports	Scrap, used and second- hand goods	General govern- ment industry	Rest-of-the- world adjustment to final uses	House- hold industry	Inventory valuation adjustment	Industry number
72B	73A	73B	73C	73D	74	75	76	77A	77B	78	79	80	81	82	83	84	85	silpul
0.00213 .00268 .00054 .00120 .00101 .00364	0.00118 .00118 .00037 .00069 .00076	0.00117 .00108 .00029 .00087 .00035 .00116	0.00186 .00157 .00038 .00095 .00072	0.00194 .00224 .00105 .00166 .00084 .00272	0.07242 .05198 .00816 .00875 .00068 .00390	0.00127 .00140 .00042 .00089 .00224 .00329	0.00737 .00733 .00085 .01027 .00052 .00303	0.00419 .00355 .00047 .00154 .00065 .00221	0.00852 .00684 .00114 .00521 .00070 .00305	0.00122 .00154 .00023 .00045 .00030 .00151	0.00135 .00236 .00177 .00467 .00173 .01148							5+
.01400 .00145 .02522 .00014 .00702 .00001 .01086	.00677 .00063 .01379 .00016 .00424 .00001 .00135	.00662 .00048 .01318 .00022 .00407 (*)	.00901 .00088 .01680 .00112 .00618 (*)	.00973 .00144 .01843 .00014 .00625 .00003 .00295	.00940 .00132 .02227 .00011 .27883 .00001 .00133	.02749 .00129 .02198 .00019 .00447 (*)	.00888 .00102 .03171 .00014 .01811 (*) .00403	.01051 .00134 .01946 .00040 .01500 (*) .00290	.01550 .00166 .06450 .00020 .02909 .00001 .00287	.00940 .00036 .01055 .00012 .00436 (*)	.04562 .00628 .31153 .00018 .00321 (*) .00157							9+10 11+13 11 10 10 11 11
.00179 .00690 .00551 .00562 .00029 .01831	.00061 .00019 .00021 .00360 .00017 .02112 .00225	.00033 .00027 .00040 .00276 .00011 .01226 .00139	.00050 .00067 .00031 .00331 .00015 .01427 .00198	.00109 .00052 .00054 .01237 .00017 .10644 .00397	.00079 .00020 .00043 .00489 .00015 .02042 .01148	.00085 .00189 .00060 .00439 .00034 .01023	.00083 .00298 .00169 .00891 .00031 .01366 .00190	.00096 .00161 .00233 .00351 .00017 .01339 .00281	.00093 .00223 .00085 .01059 .00027 .03479	.00052 .00020 .00223 .00159 .00007 .00514	.00133 .00101 .00044 .02567 .00084 .00821							1 1 20+2 22+2 2 2
.01142 .02442 .01782 .00104 .00979 .00054 .01464	.00697 .04562 .00920 .00059 .00611 .00013	.00409 .01835 .00487 .00069 .00233 .00012	.00680 .02305 .01149 .00225 .00428 .00050	.31207 .24215 .02341 .00141 .00746 .00021 .00150	.01156 .01539 .01004 .00500 .00470 .00137	.00875 .01119 .01308 .00073 .00677 .00014 .00113	.01605 .02253 .00986 .00261 .00400 .00021 .00112	.00417 .01433 .03008 .00149 .00792 .02120 .00377	.01607 .07941 .01263 .00226 .00530 .00118	.00178 .01234 .00321 .00033 .00161 .00009	.00393 .00801 .03530 .00445 .00538 .00026							26 26 27 27 27 29 29
.00100 .01302 .02688 .01301 .00152 .00679 .00701	.00053 .00812 .02526 .00020 .00106 .00153 .00419	.00050 .00841 .00741 .00042 .00115 .00127 .00280 .00272	.00127 .01049 .01455 .00023 .00192 .00211 .00602 .00543	.00106 .01091 .01596 .00033 .00096 .00216 .00407 .00626	.00066 .00927 .01613 .00056 .00584 .00233 .00533	.00734 .03702 .02020 .00034 .00835 .00409 .02897 .01588	.00073 .00843 .01157 .00125 .00106 .00252 .00390 .00391	.00067 .00991 .02914 .00021 .00366 .00284 .00381 .00324	.00130 .01662 .01490 .00050 .00312 .00462 .00601	.00038 .01280 .00380 .00058 .00056 .00099 .00300	.00324 .03038 .01048 .00018 .00204 .02239 .01640 .01128							33+3
.00032 .00072 .00203 .00335 .00777 .00042 .00064	.00073 .00034 .00148 .00191 .00459 .00033 .00037	.00272 .00035 .00101 .00138 .00306 .00029 .00053	.00343 .00156 .00166 .00258 .00456 .00106 .00348	.00026 .00082 .00145 .00154 .00428 .00033 .00049	.00391 .00798 .00156 .00176 .00360 .00040 .00114	.00080 .00400 .03101 .04107 .00280 .00103	.00391 .00077 .00206 .00182 .00361 .00044 .00076	.00324 .00089 .00150 .00225 .00351 .00026 .00045	.00306 .00114 .00380 .00279 .00578 .00037 .00072	.00231 .00024 .00092 .00194 .00227 .00031 .00027	.00065 .01688 .00289 .00929 .00111 .00617							44+
.00127 .00073 .00133 .00224 .01082 .00340 .00270	.00079 .00068 .00090 .00118 .06736 .00040	.00070 .00042 .00093 .00122 .00622 .00052	.00349 .00181 .00473 .00260 .00537 .00166 .00430	.00092 .00222 .00107 .00151 .00205 .00078	.00077 .00074 .00159 .00157 .00071 .00059	.00311 .00069 .00432 .01520 .00126 .00719	.00096 .00049 .00107 .00122 .00151 .00157	.00068 .00052 .00083 .00097 .00196 .00051	.00089 .00082 .00119 .00138 .00243 .00113	.00049 .00019 .00090 .00124 .00046 .00081	.00162 .00055 .00299 .01019 .00130 .00408							
.00989 .00169 .00167 .03097 .00169 .00021	.00011 .00121 .00274 .04109 .00826 .00013	.00014 .00118 .00083 .00600 .00315 .00021	.00028 .00168 .00132 .02072 .00394 .00022	.0018 .00110 .00130 .01168 .00182 .00015	.00016 .00118 .00041 .00190 .00103 .00013	.00039 .00866 .00201 .00429 .00681 .00499 .08122	.00028 .00202 .00111 .00374 .00153 .00018	.00017 .00169 .00078 .00460 .00170 .00015	.00038 .00287 .00156 .00494 .00207 .00021	.00010 .00127 .00028 .00108 .00106 .00062 .01023	.00189 .00601 .00145 .00271 .00287 .00022 .00282							5 5
.00056 .00028 .00193 .01061 .02379 .00420 .01419	.00090 .00021 .00299 .00195 .00151 .00310 .00918	.00085 .00026 .00110 .00563 .00330 .00236	.00134 .00154 .00170 .00665 .00270 .00361	.00083 .00044 .00199 .00741 .02035 .00609 .01585	.00033 .00050 .00059 .00100 .00275 .00664 .02261	.00086 .00069 .00152 .00161 .00208 .00553	.00051 .00194 .00090 .00437 .00477 .00394 .01027	.00061 .00020 .02005 .00297 .00165 .00326 .00923	.00123 .00036 .00182 .00489 .00677 .00492	.00155 .00055 .00042 .00062 .00195 .01134	.00056 .00107 .00178 .00141 .00215 .00727							6:
.00112 .00768 .00221 .02654 .00875 .02328 .01331	.00057 .01408 .00220 .04044 .00441 .01033 .00385	.00059 .01477 .00217 .02485 .00274 .00719	.00116 .01971 .00289 .02643 .00483 .01055	.00107 .01393 .00270 .02685 .26210 .01330 .00623	.00154 .00478 .00216 .01180 .00942 .02614 .00783	.00197 .00836 .00415 .01878 .00682 .01737 .01116	.00134 .00811 .00182 .02032 .01273 .02068 .00804	.00085 .00587 .00165 .01570 .00268 .01372 .00917	.00114 .02179 .00377 .02244 .00846 .01884	.00234 .02934 .00587 .00693 .00109 .00981	.00368 .00630 .00362 .01471 .00296 .08048							6666
.00152 .04670 .00394 .02643 .00700	.00061 .03636 .00241 .05260 .00521	.00083 .02001 .00332 .02177 .00708	.00061 .03041 .00322 .02370 .00884	.00127 .03576 .00295 .01903 .00615	.00137 .07873 .00268 .02307 .00692	.00096 .06479 .03979 .05079 .02972	.00127 .02422 .00328 .02338 .00694	.00078 .03568 .00281 .01359 .00940	.00135 .03946 .00505 .02931 .01350	.00069 .01354 .00329 .00580 .00466	.01793 .04489 .01415 .02514 .02119							68 69 70 70 71
.00436 1.02349 .01324 .05674 .06010 .00495 .01214	.00385 .00239 1.06210 .01765 .04796 .00250 .01250	.02110 .00516 .05986 1.10292 .11806 .00155	.00704 .00316 .03665 .03342 1.08100 .00273	.00612 .00611 .01000 .02947 .13595 .14842 .01267	.00246 .00446 .00583 .02108 .04147 .00533 1.00043	.00361 .01605 .00731 .01987 .05514 .00386 .01250	.00624 .00837 .01285 .04750 .08663 .00721 .01368	.00309 .00429 .01898 .01567 .04410 .00152 .00936	.00978 .00472 .01620 .02991 .05838 .00479	.00130 .00117 .00321 .00501 .01953 .00062 .00420	.00429 .00223 .01131 .07536 .04276 .00167 .00703							7 7 7 7 7 7
.02015 .00462 .00005 .01581 .00942 .01028	.01319 .00268 .00004 .00737 .00816 .00472	.02202 .00258 .00008 .00745 .01162 .00543	.01806 .00341 .00062 .00772 .01033 .00513	.01538 .10673 .00004 .00861 .01000 .00758	.00871 .01019 .00065 .00286 .01387 .00927	1.02255 .00355 .00004 .00322 .00893 .01522	.01362 1.24788 .00011 .00793 .01134 .01548	.01469 .00185 1.02045 .00345 .00842 .00640	.01612 .01198 .00011 1.00407 .01845 .01046	.02014 .00100 .00002 .00093 1.00372 .00566	.01314 .00185 .00004 .00305 .00876 1.00352			1.00000				7
1.89612	1.74795	1.70786	1.66608	1.83713	2.02599	1.99440	1.96660	1.63403	1.94709	1.36547	2.20678			1.00000		1.00000	1.00000 1.00000	8

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.

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 × 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.

^{5.} See footnote 4.

BUSINESS CYCLE INDICATORS

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

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

Series	Coring title and timing alongification	Year					19	93						199	94	
no.	Series title and timing classification	1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
					1. COM	IPOSITE	INDEXE	S								
	The Leading Index															
910 ♦	Composite index of leading indicators, 1987=100 (L,L,L) Percent change from previous month Percent change over 3-month span, AR	98.7 .1 1.4	98.4 7 -2.0	98.4 0 -4.0	98.1 3 -1.2	98.1 0 –2.0	97.9 2 1.2	98.4 .5 2.1	98.6 .2 5.0	99.1 .5 4.5	99.5 .4 6.7	100.2 .7 5.8	100.5 .3 4.1	100.5 0 4.1	101.2 .7 ^p 2.8	^p 101.2
1 ♦ 5 ♦	Leading index components: Average weekly hours, mfg. (L,L,L) Average weekly initial claims for unemployment insurance, thous. (L,C,L) ¹;	41.4 365	41.2 375	41.5 374	41.4 387	41.2 383	41.4 399	41.4 371	41.5 370	41.6 354	41.7 336	41.7 318	41.8 360	41.2 338	42.2 327	^p 42.2 344
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	^r 114.64	116.20	r115.68	^r 118.06	^p 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	^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
29 ♦	Index of new private housing units authorized by local building permits, 1967=100 (L,L,L) §.	96.3	^r 83.4	^r 88.3	r 88.8	r 89.5	^r 93.2	^r 98.4	^r 100.9	^r 103.5	^r 108.7	^r 117.5	r104.6	^r 99.8	^r 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	r−1.68	^r -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	r.26	r.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 ♦ 83 ♦	Money supply M2, bil. 1987\$ (L,L,L)	2,774.0 72.8	2,769.3 75.8	2,763.0 76.4	2,775.3 68.5	2,778.5 70.4	2,778.0 64.7	2,773.1 65.8	2,777.1 66.8	2,769.6 72.5	2,769.6 70.3	2,768.5 78.8	^r 2,773.1 86.4	^r 2,763.3 83.5	^r 2,766.0 85.1	^p 2,768.5 82.6
950 •	Diffusion index of 11 leading indicator components: Percent rising over 1-month span Percent rising over 6-month span	56.1 64.4	9.1 22.7	54.5 31.8	36.4 36.4	54.5 63.6	40.9 63.6	77.3 81.8	68.2 90.9	81.8 90.9	72.7 81.8	81.8 90.9	81.8 ^p 86.4	45.5	81.8	p 50.0
	The Coincident Index															
920 ♦	Composite index of coincident indicators, 1987=100 (C,C,C) Percent change from previous month Percent change over 3-month span, AR	109.1 .1 2.5	108.1 .2 3.8	108.6 .5 3.4	108.8 .2 3.0	108.9 .1 .7	108.8 1 2.2	109.4 .6 2.6	109.6 .2 4.5	110.0 .4 4.1	110.5 .5 5.6	111.1 .5 2.9	110.8 3 *4.4	r111.7 r.8 r4.4	r 112.3 r .5 ³ 6.3	³ 112.5
41 ♦ 51 ♦	Coincident index components: Employees on nonagricultural payrolls, thous. (C,C,C) Personal income less transfer payments, bil. 1987\$, AR (C,C,C).	110,178 3,519.7	109,565 3,471.1	109,820 3,517.7	110,058 3,524.3	110,101 3,511.7	110,338 3,499.1	110,305 3,542.3	110,502 3,544.2	110,664 3,559.7	110,880 3,578.2	111,110 3,597.4	111,079 °3,562.6	r 111,357 r 3,618.4	r111,821 r3,631.2	^p 112,088 ^p 3,638.3
47 ♦ 57 ♦	Index of industrial production, 1987=100 (C,C,C)	110.9 6,197,442	110.0 *509,075	110.5 *507,607	110.0 510,535	110.4 514,723	110.9 510,834	111.1 518,086	111.3 520,538	111.9 523,160	112.8 528,675	114.0 534,561	^r 114.6 ^r 532,496	^r 115.1 ^r 538,537	^r 115.7 ^p 544,949	<i>p</i> 116.0
951	Diffusion index of 4 coincident indicator components: Percent rising over 1-month span Percent rising over 6-month span	80.2 97.9	62.5 75.0	75.0 100.0	75.0 100.0	62.5 100.0	50.0 100.0	87.5 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	37.5 3 100.0	100.0	100.0	³ 100.0
	The Lagging Index															
930 ♦	Composite index of lagging indicators, 1987=100 (Lg,Lg,Lg) Percent change from previous month Percent change over 3-month span, AR	96.4 .1 0	96.4 2 8	96.4 0 -1.2	96.3 1 4	96.3 0 1.3	96.7 .4 .4	96.4 3 1.3	96.6 .2 –1.2	96.4 2 8	96.2 2 -1.6	96.2 0 .4	96.5 .3 4	96.1 4 1.2	r 95.9 r – .2 4 –1.6	⁴ 96.1 ⁴ .2
91 ♦ 77 ♦	Lagging index components: Average duration of unemployment, weeks (Lg,Lg,Lg) 5 ‡ Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg).	18.1 1.56	17.7 - 1.58	17.7 1.58	17.8 1.58	17.8 1.56	17.9 1.58	18.3 1.56	18.4 1.56	18.4 1.55	18.9 1.54	18.2 1.52	18.3 1.52	18.7 r1.51	19.2 P 1.49	19.1
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	r-2.6	r−1.8	r-2.1	P - 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	^r 373,476	r 377,808	^r 373,933	^r 371,521	p 370,933
95 ♦	(Lg,Lg,Lg). 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	^r 14.30	P 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
952	Diffusion index of 7 lagging indicator components: Percent rising over 1-month span Percent rising over 6-month span	49.4 43.5	35.7 57.1	71.4 50.0	50.0 50.0	57.1 35.7	64.3 50.0	28.6 50.0	50.0 50.0	28.6 - 35.7	28.6 r 28.6	42.9 - 28.6	r 42.9 4 30.0	, 35.7	, 42.9	4 50.0
940 ♦	Ratio, coincident index to lagging index, 1987=100 (L,L,L) . I	113.2	112.1	112.7	113.0	113.1	112.5	113.5	113.5	114.1	114.9	115.5	114.8	^r 116.2	r117.1	P 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-20 smoothed (4.2); and December 1992—BCI-51 (3,689.9) and BCI-83 (89.5). See page C-6 for other footnotes.

SURVEY OF CURRENT BUSINESS

Series	Series title and timing classification	Year					19	93						199	1994	
no.	Selies like and unling dassincation	1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
			2. LAB	OR FOR	CE, EMP	LOYME	NT, AND	UNEMP	LOYMEN	NT						
441 442	Labor force: Civilian labor force, thous. Civilian employment, thous. Civilian labor force participation rates (percent):	128,040 119,306	127,440 118,562	127,539 118,585	128,075 119,180	128,056 119,187	128,102 119,370	128,334 119,692	128,108 119,568	128,580 119,941	128,662 120,332	128,898 120,661	130,667 121,971	130,776 122,258	130,580 122,037	130,747 122,338
451 452 453	Males 20 years and over ¹ Females 20 years and over ¹ Both sexes 16-19 years of age ¹	76.9 58.4 51.5	76.9 58.2 51.5	76.9 58.2 51.8	77.1 58.4 52.5	77.0 58.5 51.5	77.0 58.4 51.8	77.0 58.5 51.6	76.7 58.4 51.2	77.0 58.6 51.1	76.8 58.7 51.2	76.8 58.9 50.9	77.0 59.3 53.3	76.9 59.5 52.4	76.8 59.3 52.3	76.7 59.2 54.0
1 • 21 • 5 •	Marginal employment adjustments: Average weekly hours, mfg. (L,L,L) Average weekly overtime hours, mfg. (L,C,L) Average weekly initial claims for unemployment insurance, thous. (L,C,L) 2 \$.	41.4 4.1 365	41.2 4.0 375	41.5 4.2 374	41.4 4.1 387	41.2 4.0 383	41.4 4.0 399	41.4 4.1 371	41.5 4.1 370	41.6 4.3 354	41.7 4.3 336	41.7 4.4 318	41.8 4.4 360	41.2 4.6 338	42.2 4.8 327	^p 42.2 ^p 4.8 344
46 ♦ 60	Job vacancies: Index of help-wanted advertising, 1967=100 (L,Lg,U) Ratio, help-wanted advertising to unemployed (L,Lg,U) ¹	100 .343	96 .322	r 95 r .316	100 .334	97 .325	101 .344	103 .355	101 .352	106 .365	107 .382	110 .397	105 .359	115 .402	117 .407	^P 116 ^P .410
48 ♦	Employment: 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 41 ◆	Persons engaged in nonagricultural activities, thous. (U,C,C) ¹. Employees on nonagricultural payrolls, thous. (C,C,C)	116,232 110,178	115,463 109,565	115,514 109,820	116,106 110,058	116,156 110,101	116,327 110,338	116,687 110,305	116,475 110,502	116,920 110,664	117,218 110,880	117,565 111,110	118,639 111,079	118,867 * 111,357	118,611 "111,821	118,880 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	*58.3	^{rp} 61.7	^p 58.3
40 ♦ 90 ♦	Percent rising over 6-month span Employees in goods-producing industries, thous. (L,C,U) Ratio, civilian employment to population of working age, percent (U,Lg,U).	57.1 22,975 61.6	58.3 23,016 61.4	57.7 22,980 61.4	49.7 23,006 61.7	51.1 22,941 61.6	52.9 22,948 61.6	55.9 22,903 61.8	58.7 22,886 61.6	57.0 22,934 61.8	7 62.1 22,994 61.9	^r 63.5 23,008 62.0	^p 67.3 23,024 62.2	r 23,032 62.3	r 23,125 62.2	^p 23,189 62.3
37 43 ◆ 45	Unemployment: Number of persons unemployed, thous. (L,Lg,U) ¹ ‡ Civilian unemployment rate, percent (L,Lg,U) ¹ ‡ Average weekly insured unemployment rate, percent	8,734 6.8 2.6	8,878 7.0 2.5	8,954 7.0 2.6	8,895 6.9 2.6	8,869 6.9 2.7	8,732 6.8 2.7	8,642 6.7 2.6	8,540 6.7 2.6	8,639 6.7 2.6	8,330 6.5 2.6	8,237 6.4 2.5	8,696 6.7 2.5	8,518 6.5 2.6	8,543 6.5 2.6	8,408 6.4 2.5
91 ◆ 44	(L_Lg,Ly) ³ ‡: Average duration of unemployment, weeks (Lg,Lg,Lg) ¹ ‡: Unemployment rate, 15 weeks and over, percent (Lg,Lg,Lg) ¹ ‡:	18.1 2.4	17.7 2.4	17.7 2.3	17.8 2.4	17.8 2.4	17.9 2.3	18.3 2.3	18.4 2.4	18.4 2.4	18.9 2.3	18.2 2.2	18.3 2.3	18.7 2.4	19.2 2.4	19.1 2.3
	3. OUTPUT, PRODUCTION, AND CAPACITY UTILIZATION Output:															
55 ♦	Output: 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		
50 49	Percent change from previous quarter, AR	3.0 5,138.6 2,083.8			1.9 5,104.1 2,069.1			2.9 5,145.8 2,074.9			7.0 5,223.7 2,130.9			73.0 P 5,264.4 P 2,163.8		
47 ◆ 73 ◆ 74 ◆ 75 ◆	Industrial production indexes, 1987=100: Total (C,C,C) Durable manufactures (C,C,C) Nondurable manufactures (C,L,L) Consumer goods (C,L,C)	110.9 114.3 108.6 108.8	110.0 112.5 108.2 108.9	110.5 113.5 108.7 108.6	110.0 113.2 108.5 107.8	110.4 113.0 108.9 108.1	110.9 113.7 109.1 108.9	111.1 113.9 109.2 108.6	111.3 115.0 108.5 108.5	111.9 116.2 108.8 109.2	112.8 118.0 109.1 109.7	114.0 120.1 109.7 110.1	r 114.6 120.4 109.6 r 110.9	r 115.1 r 121.2 110.1 r 111.9	r 115.7 r 122.0 r 111.1 r 112.1	P 116.0 P 122.5 P 111.5 P 112.0
124 82 ◆	Capacity utilization rates (percent): Total industry (L,C,U) Manufacturing (L,C,U)	81.5 80.6	81.2 80.1	81.4 80.6	81.0 80.2	81.1 80.1	81.3 80.3	81.4 80.3	81.4 80.4	81.7 80.8	82.2 81.5	82.9 82.3	⁷ 83.2 82.2	83.4 82.5	83.6 * 82.9	^p 83.6 ^p 83.0
				4. SA	ES, OR	DERS, A	ND DEL	IVERIES	3							
57 ♦ 59 ♦	Sales: Manufacturing and trade sales, mil. 1987\$ (C,C,C) Sales of retail stores, mil. 1987\$ (U,L,U)	6,197,442 1,757,953		7507,607 7143,868	510,535 144,933	514,723 145,871	510,834 146,477	518,086 147,360	520,538 147,695	523,160 149,968	528,675 150,802	534,561 152,695	*532,496 150,626	r 538,537 r 153,163	^p 544,949 ^r 155,462	^P 154,034
7 ♦ 8 ♦	Orders and deliveries: Mfrs.' new orders, durable goods, bil. 1987\$ (L,L,L) Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L).	1,381.61 1,304.71		112.61 106.72	109.77 105.54	114.50 106.58	111.08 105.35	113.68 106.55	115.01 109.03	117.87 111.43	120.10 112.55	122.20 *114.64	126.96 116.20	r 124.58 r 115.68	"125.29 " 118.06	^p 125.36 ^p 117.38
92 ♦	Mfrs.' unfilled orders, durable goods, mil. 1987\$ ♦	362,630 -2.88 -2.87	390,926 -5.96 -2.18	387,356 -3.57 -2.42	381,879 -5.48 -2.97	378,466 -3.41 -3.35	377,172 -1.29 -3.30	374,775 -2.40 -3.15	370,372 -4.40 -3.23	368,404 -1.97 -3.10	366,140 -2.26 -2.92	362,630 -3.51 -2.89	364,684 2.05 -2.21	^r 363,422 ^r -1.26 ^r -1.68	7361,805 7-1.62 7-1.37	^p 361,900 ^p .10 ^p 98
32 ♦	(L,L,L) †. Vendor performance, slower deliveries diffusion index, percent (L,L,L)*.	51.6		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 C	APITAL	INVESTI	MENT								
12 ♦ 13 ♦	Formation of business enterprises: Index of net business formation, 1967=100 (L,L,L) Number of new business incorporations (L,L,L)	121.1 707,477	122.0 61,002	121.0 59,648	117.6 51,765	120.8 60,422	120.7 58,387	121.1 58,209	122.3 63,758	119.2 55,294	123.5 61,739	^r 125.3 61,873	^r 125.2 ^p 61,978	^r 125.7	P 127.3	
10	Business investment commitments: Contracts and orders for plant and equipment, bil.\$	428.10	34.04	r34.63	33.25	38.15	33.77	35.63	34.94	36.56	38.78	38.84	40.91	^r 40.72	² 41.15	p 39.43
20 ♦	(L,L,L). Contracts and orders for plant and equipment, bil. 1987\$ (L,L,L).	435.66	34.41	r34.78	33.96	37.86	34.67	36.38	35.84	37.71	40.53	^r 40.03	41.30	r41.38	^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	r36.81	37.68	r 37.72	7 38.52	p 38.25
9 ♦	Construction contracts awarded for commercial and industrial buildings, mil. sq.ft.(L,C,U) © 4. Business investment expenditures:	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
61	New plant and equipment expenditures by business, bil.\$, AR (C,Lg,Lg)*.	585.64			579.79			594.11			604.51			^a 621.28		
100 ♦	New plant and equipment expenditures by business, bil. 1987\$, AR (C,Lg,Lg)*.	555.70			546.97	400.70	440.00	565.28	404.0-	460.02	576.82		404.00	4 595.36	, FO 4 70	n 400 40
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.

		SURVET OF CURRENT BUSINESS									Way 1994 ♥					
Series	Series title and timing classification					19	93						199)4		
no.		1993	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). Gross private nonresidential fixed investment, bil. 1987\$, AR:	134.6	131.5	133.1	133.5	133.9	134.6	134.8	136.3	137.7	139.7	141.8	r 142.9	^r 145.1	^r 146.0	^p 146.7
86 ♦ 87 ♦ 88 ♦	Total (C,Lg,C) Structures (Lg,Lg,Lg) Producers' durable equipment (C,Lg,C)	591.8 151.5 440.2			584.3 151.1 433.2			594.8 151.2 443.6			625.7 155.6 470.0			r 635.0 r 147.1 r 487.9		
28 • 29 • 89 •	Residential construction and investment: New private housing units started, thous., AR (L,L,L) Index of new private housing units authorized by local building permits, 1967–100 (L,LL) &. Gross private residential fixed investment, bil. 1987\$, AR	1,288 96.3 214.2	1,092 *83.4	1,232 788.3	1,241 *88.8 206.2	1,238 789.5	1,245 * 93.2	1,319 * 98.4 212.1	1,359 *100.9	1,409 * 103.5	1,406 *108.7 227.2	1,612 117.5	1,271 *104.6	r 1,328 r 99.8 r 231.4	r 1,492 r 104.7	^P 1,455 110.0
	(L,L,L).	214.2			200.2			212.1			221.2			231.4		
	6. INVENTORIES AND INVENTORY INVESTMENT															
70 77 ◆	Inventories on hand: Mfg. and trade inventories, bil. 1987\$ (Lg,Lg,Lg) ◊ Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg).	810.80 1.56	801.86 *1.58	803.31 1.58	804.68 1.58	805.35 1.56	806.10 1.58	806.64 1.56	809.45 1.56	809.90 1.55	812.33 1.54	810.80 1.52	r 811.34 1.52	r 814.32 r 1.51	^p 813.91 ^p 1.49	
30 ♦ 31 ♦	Inventory investment: Change in business inventories, bil. 1987\$, AR (L,L,L) Change in mfg. and trade inventories, bil.\$, AR (L,L,L)	14.3 23.8	r 50.1	, 37.0	13.0 24.9	6.8	1.9	6.5 23.7	22.9	14.7	8.5 55.3	-13.6	17.8	r 19.1 r 48.5		
						7. PRIC	ES									
99 ♦	Sensitive commodity prices: Index of sensitive materials prices, 1987=100 Percent change from previous month , smoothed	99.58 03 26	100.81 48 18	99.87 93 30	99.31 56 40	99.15 16 43	98.88 27 43	98.03 86 48	97.67 37 50	98.55 .90 32	99.48 .94 05	r100.50 r1.03 r.26	101.25 7.75 7.50	102.92 1.65 .80	104.42 1.46 1.06	105.15 .70 1.17
98	(L,L,L) †. Index of producer prices for sensitive crude and	161.79	161.00	161.06	159.80	159.63	160.26	159.54	^c 161.13	165.78	169.43	^r 172.15	173.90	172.55	173.03	169.88
	intermediate materials, 1987=100 (L.L.L). Cattle hides Lumber and wood products Wastepaper, news Wastepaper, mixed, NSA Wastepaper, corrugated Iron and steel scrap	180.4 174.1 100.6 90.2 142.3 172.8	177.0 174.6 110.1 97.5 149.0 157.8	173.0 177.1 112.5 101.5 147.5 154.6	175.6 175.1 104.0 107.5 143.3 158.0	176.8 172.0 104.0 107.4 140.6 170.4	181.1 170.7 97.2 102.8 140.2 179.1	179.7 172.1 94.0 80.8 139.4 170.0	185.9 174.4 93.5 80.4 138.9 171.2	184.4 177.7 94.2 80.2 139.0 190.7	185.2 181.3 94.0 79.3 139.9 202.5	7182.6 7183.8 791.1 774.2 7141.2 7207.4	181.7 186.6 87.8 73.8 136.4 202.7	176.4 181.7 94.5 72.0 153.7 203.8	178.1 181.5 97.9 75.2 195.0 200.3	181.2 177.0 99.4 78.8 194.4 195.3
23 ♦	Copper base scrap Aluminum base scrap Other nonferrous scrap n.e.c., NSA Sand, gravel, and crushed stone Raw cotton Domestic apparel wool Index of spot market prices, raw industrial materials,	136.2 129.3 113.8 134.0 92.2 56.5 260.4	151.6 129.7 125.0 132.6 94.7 57.2 266.9	142.3 123.5 118.4 133.1 89.4 53.5 261.5	131.5 125.1 113.3 132.8 88.3 53.5 257.8	135.4 126.6 113.3 133.3 84.7 55.2 257.1	133.8 130.6 115.0 133.7 85.5 53.4 257.2	130.2 127.5 113.5 133.8 85.7 54.9 255.5	125.1 125.6 107.5 134.8 90.5 51.7 253.1	119.0 128.7 100.7 136.3 95.9 53.1 255.6	117.3 128.1 98.5 135.7 97.9 56.8 258.1	r 123.2 r 129.6 r 102.4 r 136.2 104.3 58.1 263.7	128.5 131.3 106.6 136.5 114.8 56.7 268.8	135.3 141.1 115.4 136.7 124.6 63.2 275.2	136.6 148.7 119.8 136.9 121.4 69.3 279.1	136.9 150.1 120.9 137.5 120.4 80.2 280.9
	1967=100, NSA (U.L.L) © ¹*. Copper scrap, \$ per lb. © Lead scrap, \$ per lb. © Steel scrap, \$ per lb. © Steel scrap, \$ per ton © Tin, \$ per lb., NSA © Zinc, \$ per lb., NSA © Burlap, \$ per yd., NSA © Cotton, \$ per lb. © Print doth, \$ per yd., NSA © Wool tops, \$ per yd., NSA © Hides, \$ per lb., NSA © Rosin, \$ per 100 lb. © Rubber, \$ per lb. ©	.702 .139 115.553 3.494 .247 .556 .677 3.339 .799 59.238 .450	.812 .157 108.044 3.779 .496 .245 .562 .652 3.160 .816 59.880 .461 .153	.737 .146	.702 .143 .104.412 .3.703 .494 .245 .532 .655 .3.050 .805 .60.000 .441 .152	.693 .144 112.183 3.482 .467 .245 .502 .644 3.400 .774 60.000 .440	.672 .140 .119.654 .3.395 .470 .245 .509 .640 .3.400 .762 .60.000 .437 .148	.654 .134 114.042 3.294 .451 .240 .513 .688 3.400 .792 59.940 .441 .146	.611 .123 .110.402 .3.095 .445 .241 .547 .700 .3.400 .805 .59.940 .447 .142	.578 .118 127.351 3.189 .459 .247 .571 .700 3.450 .815 59.118 .442 .140	.572 .123 138.940 3.225 .466 .256 .607 .750 3.600 .808 56.112 .448 .138	.644 .124 140.435 3.286 .492 .265 .644 .750 3.500 .798 56.225 .446 .143	.696 .128 139.625 3.324 .496 .269 .703 .750 3.500 .756 55.944 .448	.717 .131 140.201 3.598 .483 .273 .753 .7550 3.750 .746 55.944 .447	.747 .130 138.530 3.621 .467 .275 .726 .750 3.900 .788 55.944 .493	.744 .128 .135.827 .3.630 .461 .275 .724 .772 .3.950 .845 .512 .145
336	Producer Price Indexes: Finished goods, 1982=100 Percent change over 1-month span Percent change over 6-month span, AR	124.7 0 .2 135.8	125.1 .2 1.9	125.7 .5 1.3	125.7 0 –1.1	125.1 5 -1.3	125.1 0 -2.4	124.1 8 -2.2	124.3 .2 -1.4	124.2 1 -1.0	124.3 .1 1.6	124.2 1 1.8	124.5 .2 1.8	125.1 .5	125.4 .2	125.3 1
337	Finished goods less foods and energy, 1982=100 Percent change over 1-month span Percent change over 6-month span, AR	0	136.1 .1 2.1	136.5 .3 1.6	136.8 .2 –1.2	136.4 3 -1.3	136.6 .1 –2.5	135.1 -1.1 -2.2	135.2 .1 –1.3	134.8 3 7	135.3 .4 1.8	135.5 .1 2.1	136.1 .4 2.8	136.3 .1	136.6 .2	136.7 .1
334	Fercent change over 6-month span, AK Finished consumer goods, 1982–100 Percent change over 1-month span Percent change over 6-month span, AR Capital equipment, 1982–100	.3 123.0 0 2 131.4	123.6 .2 1.8 131.0	124.3 .6 1.0	124.2 1 -1.9 131.3	123.5 6 -2.1 131.2	-2.5 123.4 1 -3.2 131.6	122.1 -1.1 -2.9 131.8	122.3 .2 -2.3 131.9	122.3 0 -1.8 131.4	122.4 .1 1.5 131.8	122.1 2 1.5	122.3 .2 1.1 133.0	123.0 .6 	123.2 .2 133.5	123.0 2
332	Percent change over 1-month span	.2 1.8 116.2	.2 2.3 116.3	1.8 116.6	0 1.5 116.3	1 1.4 116.3	.3 .2 116.3	.2 .8 116.3	.1 *1.2 116.3	4 2.1 116.4	.3 2.0 116.6	r.2 2.4	r.8 4.0 116.4	116.9	.3 117.1	.4 117.1
331	Percent change over 1-month span	.1 1.0 102.4 0 .7	.3 2.1 101.8 .2 3.8	.3 1.6 103.0 1.2 4	3 .7 105.2 2.1 -1.6	0 0 103.6 -1.5 6	0 3 101.5 -2.0 1.4	0 .5 100.8 7 -3.4	0 70 101.5 .7 7—3.4	.1 .2 103.7 2.2 2.0	.2 1.0 103.4 3 .8	3 1.4 *101.8 *-1.5 5.0	r.1 1.2 102.5 r.7 4	.4 101.2 –1.3	.2 104.0 2.8	0 103.5 5
311	Fixed-weighted price index, gross domestic business product, 1987=100. Percent change from previous quarter, AR	124.6 3.0			124.4 2.9			125.0 1.9			125.7 2.2			′ 126.5 ′ 2.8		
320	Consumer Price Indexes for all urban consumers: All items, 1982-84=100, NSA Percent change over 1-month span Percent change over 6-month span, AR	144.5 .2 2.6	143.6 .2 2.8	144.0 .3 2.7	144.2 .2 2.5	144.4 .1 2.2	144.4 .1 2.2	144.8 .3 2.4	145.1 .1 2.6	145.7 .3 2.4	145.8 .3 2.4	145.8 .2 2.9	146.2 0 2.5	146.7	147.2	147.4
323	All items less food and energy, 1982-84=100 Percent change over 6-month span Percent change over 6-month span, AR Services, 1982-84=100	152.2 .3 3.0 157.9	151.1 .2 3.5 156.2	151.6 .3 3.2 156.8	152.0 .3 2.9 157.3	152.3 .2 2.7 157.8	152.6 .2 2.5 158.2	153.0 .3 2.8 158.7	153.1 .1 2.8 159.1	153.5 .3 2.6 159.5	154.1 .4 2.6 160.0	154.4 .2 3.2 160.5	154.6 .1 3.0 160.6	155.0 .3 161.3	155.5 .3 162.0	155.8 .2
120 ♦	Percent change from previous month, AR Percent change from previous month, AR, smoothed (Lg,Lg,Lg) †.	3.8 3.8	4.7 3.9	4.7 4.0	3.9 4.1	3.9 4.1	3.1 4.0	3.9 3.9	3.1 3.7	3.1 3.6	3.8 3.5	3.8	.8 3.1	5.4 3.2	5.3 3.6	2.2 3.6

NOTE.—The following current high values were reached before March 1993: July 1991—BCI-120 change (5.9); December 1991—BCI-77 (1.65); January 1992—BCI-120 smoothed (4.2); March 1992—BCI-99 change (1.68); July 1992—BCI-23 (285.7); and 1st Q 1993—BCI-30 (29.3). See page C-6 for other footnotes.

SURVEY OF CURRENT BUSINESS

	Year 1993 1994															
Series no.	Series title and timing classification	1993	Mar.	Apr.	May	June	July	93 Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		.550		•	•		CASH FI		p.				-	. •••		.4.,
	Profits and profit margins:															
16 ♦ 18 ♦	Corporate profits after tax, bil.\$, AR (L,L,L)	275.4 233.9			272.3 230.7			274.3 232.7			295.9 252.8			^P 284.9 ^P 241.5		
22 ♦	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		
81 ♦	Ratio, corporate domestic profits after tax with IVA and CCAdj to corporate domestic income, percent(U,L,L).	7.8			7.6			7.9			8.4			^p 7.6		
26 ♦	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		
35	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 P	RODUCT	ΓΙΝΙΤΥ							
345	Wages and compensation: Index of average hourly compensation, all employees,	158.7			157.9			159.4			160.5			P 162.5		
	nonfarm business sector, 1982=100. Percent change from previous quarter, AR	3.6			1.7			3.9			2.8			p 5.3		
346	Index of real average hourly compensation, all employees, nonfarm business sector, 1982=100.	106.0			105.6			106.1			106.1			P 106.9		
53 ♦	Percent change from previous quarter, AR	.5 592.5	578.8	596.3	-1.4 596.0	592.8	594.7	2.0 595.2	596.9	596.9	2 598.8	600.8	602.1	^p 3.1 ^r 604.4	^r 604.3	P 604.8
63	Unit labor costs: Index of unit labor cost, all persons, business sector,	136.8			137.3			137.4			^r 136.0			₽ 137.7		
	1982=100 (Lg,Lg,Lg). Index of labor cost per unit of output, mfg., 1987=100 Percent change from previous month, AR	109.1 -3.6	109.6	109.3 -3.2	109.4 1.1	109.1 -3.2	109.0 -1.1	109.0	109.3 3.4	108.7 -6.4	108.2 -5.4	107.7 -5.4	r 107.8 r 1.1	r 108.1 r 3.4	r 107.4 r –7.5	^p 106.8 ^p -6.5
62 ♦	Percent change from previous month, AR, smoothed (Lg,Lg,Lg) †. Productivity:	-3.0 -2.5	-3.9	-4.0	-3.3	-3.2 -2.9	-1.1 -2.5	-1.8	8	9	-1.6	-3.4 -2.5	r-2.6	r-1.8	-7.5 r-2.1	P -2.9
370	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 Percent change over 4-quarter span, AR	1.8			0 *2.2			3.3 P 2.7			^r 7.1			^p .5		
358	Index of output per hour, all persons, nonfarm business sector, 1982=100.	115.7			114.7			115.8			^r 117.6			₽ 117.8		
	10. PERSONAL INCOME AND CONSUMER ATTITUDES															
	Personal income:															
52 51 ◆	Personal income, bil. 1987\$, AR (C,C,C)	4,236.9 3,519.7	4,181.2 3,471.1	4,228.2 3,517.7	4,236.5 3,524.3	4,227.9 3,511.7	4,217.8 3,499.1	4,264.0 3,542.3	4,267.1 3,544.2	4,283.6 3,559.7	4,302.3 3,578.2	4,327.7 3,597.4	^r 4,297.4 ^r 3,562.6	r 4,353.8 r 3,618.4	r 4,364.9 r 3,631.2	^p 4,374.2 ^p 3,638.3
58	Indexes of consumer attitudes: Consumer sentiment, U. of Michigan, 1966:I=100, NSA	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
83 ♦	(L,L,L) © ¹ . Consumer expectations, U. of Michigan, 1966:l=100,	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
122	NSA (L,L,L) © ¹. Consumer confidence, The Conference Board, 1985=100	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
123 ♦	(L,L,L)*. 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
	1000=100 (E)E,E)					11. SAV	ING									
290	Gross saving hil \$ AR	780.2			766.7			774.3			817.8			P 858.4		
295 292	Gross saving, bil.\$, AR Business saving, bil.\$, AR Personal saving, bil.\$, AR	794.9 189.9			779.6 208.7			809.0 179.7			824.1 193.4			^p 853.1 ^r 171.8		
298 ♦ 293 ♦	Government surplus or deficit, bil.\$, AR	-224.6 4.0			-221.5 4.4			-214.4 3.8			-199.7 4.0			^p -166.5 ^r 3.5		
		1:	L	EY, CREI	DIT. INT	EREST F	RATES.	AND STO	OCK PRI	CES						
	Money:			, 5	,					- 						
85 ♦ 102 ♦	Percent change in money supply M1 (L,L,L)*	.81 .13	.46 .02	.66 .09	1.97 .68	.83 .19	.95 .14	.78 .06	.89 .22	.75 .04	.81 .31	.53 .19	.45 r.17	.45 12	.33 *.41	P −.10 P .25
105 106 ◆	Money supply M1, bil. 1987\$ (L,L,L)	848.9 2,774.0	824.2 2,769.3	827.1 2,763.0	841.4 2,775.3	847.7 2,778.5	854.4 2,778.0	859.1 2,773.1	866.1 2,777.1	869.8 2,769.6	874.1 2,769.6	876.8 2,768.5	880.7 72,773.1	882.6 72,763.3	882.8 r 2,766.0	P 880.6 P 2,768.5
107	Velocity of money: Ratio, gross domestic product to money suppy M1	5.912	,	, 22.0	5.948	,	, . 2.0	5.837	,	, 22.0	5.820	,	,	r 5.814	, 22.0	,
107	(C,C,C). Ratio, personal income to money supply M2 (C,Lq,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	7 5.814 7 1.571	1.573	P 1.576
	Bank reserves:															
93 94	Free reserves, mil.\$, NSA (L,U,U) ‡ Member bank borrowings from the Federal Reserve, mil.\$, NSA (L,Lg,U).	901 180	1,122 91	1,023 73	875 121	730 181	845 244	600 352	662 428	804 285	1,012 89	981 82	1,375 73	1,070 70	912 55	^p 1,026 ^p 124
112 ♦ 113 ♦	Credit flows: Net change in business loans, bil.\$, AR (L,L,L) Net change in consumer installment credit, bil.\$, AR	2.15 48.99	-72.79 34.84	45.11 24.74	64.40 -22.80	12.50 25.62	58.39 60.44	2.05 60.47	43 72.84	-22.73 84.56	-2.98 83.28	r-21.72 90.25	7 73.60 76.51	r –44.83 r 47.78	r-11.24 p 89.10	P-3.77
111	(L,L,L). 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: Current liabilities of business failures, mil.\$, NSA	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	
39	(L,L,L) ‡. Percent of consumer installment loans delinquent 30	1.77	2.31	2.01	2.16	2.06	2.08	2.03	1.95	1.93	1.86	1.77				
	days and over (L,L,L) © ² ♦ ‡.		I	ļ			ı İ	l	ļ	ı İ		I	• '	ı	ļ	

NOTE.—The following current high values were reached before March 1993: May 1991—BCI-106 (2,865.8); July 1991—BCI-93 (345); 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	Opinion title and timing also affective	Year	Year 1993											199	94	
no.	Series title and timing classification	1993	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		12. MON	NEY, CR	EDIT, IN	TEREST	RATES	, AND S	ТОСК РІ	RICES—	Continue	ed					
66	Outstanding debt: Consumer installment credit outstanding, mil.\$	790,082	750,131	752,193	750,293	752,428	757,465	762,503	768,573	775,620	782,561	790,082	796,458	^r 800,440	P 807,865	
72	(Lg,Lg,Lg) ◊. Commercial and industrial loans outstanding, mil.\$,	429,487	419,774	423,533	428,900	429,942	434,808	434,979	434,943	433,049	432,801	^r 430,991	^r 437,124	^r 433,388	^r 432,451	^p 432,137
101 ♦	(Lg,Lg,Lg). Commercial and industrial loans outstanding, mil. 1987\$	371,343	363,441	365,115	368,471	370,002	375,158	376,605	376,574	373,963	374,072	^r 373,476	⁷ 377,808	^r 373,933	r 371,521	p 370,933
95 ♦	(Lg,Lg,Lg). 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	^r 14.30	^p 14.35	
119 • 114 • 116 • 115 • 117 118 109 •	Interest rates (percent, NSA): Federal funds rate (L_Lg_Lg)* Discount rate on new 91-day Treasury bills (C,Lg,Lg)* Yield on new high-grade corporate bonds (Lg,Lg,Lg)* Yield on Iong-term Treasury bonds (C,Lg,Lg)* Yield on municipal bonds, 20-bond average (U,Lg,Lg)* Secondary market yields on FHA mortgages (Lg,Lg,Lg) Average prime rate charged by banks (Lg,Lg,Lg)*	3.02 3.02 7.35 6.46 5.60 7.46 6.00	3.07 2.97 7.39 6.65 5.64 7.57 6.00	2.96 2.89 7.48 6.64 5.76 7.56 6.00	3.00 2.96 7.52 6.68 5.73 7.59 6.00	3.04 3.10 7.48 6.55 5.63 7.52 6.00	3.06 3.05 7.35 6.34 5.57 7.51 6.00	3.03 3.05 7.04 6.18 5.45 7.02 6.00	3.09 2.96 6.88 5.94 5.29 7.03 6.00	2.99 3.04 6.88 5.90 5.25 7.08 6.00	3.02 3.12 7.22 6.25 5.47 7.51 6.00	2.96 3.08 7.28 6.27 5.35 7.52 6.00	3.05 3.02 7.16 6.24 5.31 7.05 6.00	3.25 3.21 7.27 6.44 5.40 7.59 6.00	3.34 3.52 7.64 6.90 5.91 8.57 6.06	3.56 3.74 7.95 7.32 6.23 8.63 6.45
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
	13. NATIONAL DEFENSE 25 Defense Department prime contract awards, mil.\$															
525	548 Manufacturers' new orders, defense products, mil.\$															n C 004
557	Index of industrial production, defense and space equipment, 1987=100.	74.8		76.9		74.9	74.6	74.0					7,730 771.0		⁷ 69.5	^p 69.6
570 564 ◆	Employment, defense products industries, thous	950 303.4	982	975	964 307.6	954	943	933 301.9	929	922	912 299.2	899	890	884 ° 292.6	<i>p</i> 881	
				1	4. EXPC	RTS AN	ID IMPO	RTS								
602 604 606 612 614 616 618 •	Exports, excluding military aid shipments, mil.\$ Exports of domestic agricultural products, mil.\$ Exports of nonelectrical machinery, mil.\$ General imports, mil.\$ Imports of petroleum and petroleum products, mil.\$ Merchandise exports, adjusted, excluding military, mil.\$ Merchandise imports, adjusted, excluding military, mil.\$ Balance on merchandise trade, mil.\$ Balance on merchandise trade, mil.\$ Imports of automobiles and parts, mil.\$	464,980 41,807 99,711 580,511 49,926 80,672 456,766 589,244 –132,478	38,894 3,357 8,371 49,347 4,813 7,048	38,479 3,498 8,119 48,660 4,958 6,945	38,930 3,470 8,231 47,306 4,342 6,619 113,067 147,465 -34,398	37,639 3,537 8,094 49,698 4,651 6,819	37,109 3,405 8,169 47,534 4,149 6,090	38,050 3,350 8,513 48,097 3,745 6,691 111,935 147,907 -35,972	38,885 3,540 8,322 49,506 3,759 6,861	40,092 3,565 8,288 50,990 3,888 6,966	40,236 3,458 8,655 49,914 3,613 6,880 P 120,284 P 153,067 P -32,783	42,234 3,777 8,935 49,601 3,406 6,943	39,306 3,497 8,435 49,475 2,951 6,212	738,144 3,118 8,363 750,134 3,895 6,801	42,969 3,412 9,096 53,090 4,137 7,349	
Balance on merchandise trade, mil.\$1 ————————————————————————————————————																
	Industrial production indexes (1987=100):			10111		11011712										
47 • 721 • 728 • 725 • 726 • 722 • 727 • 723 •	United States OECD, European countries 2 Japan Federal Republic of Germany France United Kingdom Italy Canada	110.9 107 111.7 107 107 105 104.4 103.2	110.0 107 116.5 107 107 103 105.2 103.1	110.5 105 113.4 106 106 104 100.7	110.0 107 110.6 107 106 105 105.1 102.1	110.4 106 112.5 107 106 104 102.8 103.7	110.9 107 111.9 106 107 106 105.1 102.7	111.1 107 110.9 108 107 106 103.4 103.5	111.3 107 113.3 108 107 106 103.1 104.4	111.9 108 107.4 107 106 107 105.3 104.4	112.8 108 109.8 107 107 107 106.9 105.1	114.0 107 108.0 107 106 106 " 102.5 104.6	" 114.6 " 106 109.1 105 " 106 107	P 109.2 107 P 108 P 104.6	<i>p</i> 105.5	P 116.0
320 738 735 736 732 737 733	Consumer price indexes (1982-84=100): United States, NSA Percent change over 6-month span, AR Japan, NSA Percent change over 6-month span, AR Federal Republic of Germany, NSA Percent change over 6-month span, AR France, NSA Percent change over 6-month span, AR United Kingdom, NSA Percent change over 6-month span, AR Italy, NSA Percent change over 6-month span, AR Canada, NSA Percent change over 6-month span, AR Canada, NSA Percent change over 6-month span, AR	144.5 2.6 118.5 1.1 125.6 3.5 143.5 1.9 165.3 1.9 186.4 4.2 147.9	143.6 2.8 117.7 1.0 124.7 4.6 143.1 2.6 163.7 .7 184.0 4.1 147.3	144.0 2.7 118.5 2.6 125.1 3.8 143.2 2.1 165.2 2.7 184.7 4.6 147.3	144.2 2.5 118.6 2.7 125.5 3.2 143.5 1.5 165.8 2.3 185.4 5.1 147.6 1.4	144.4 2.2 118.5 2.0 125.7 2.9 143.4 1.3 165.7 2.3 186.4 5.0 147.6 2.1	144.4 2.2 118.8 1.0 126.0 2.7 143.5 1.5 165.3 2.3 187.1 4.7 148.0	144.8 2.4 119.2 1.0 126.0 2.9 143.5 1.7 166.0 2.0 187.2 4.5 148.1	145.1 2.6 119.3 .5 126.1 2.7 144.0 1.8 166.7 2.6 187.5 3.8 148.2	145.7 2.4 119.2 2 126.4 2.9 144.3 1.5 166.6 2.4 188.6 3.8 148.4	145.8 2.4 118.5 5 126.7 3.4 144.4 1.8 166.4 2.4 189.5 3.4 149.1	145.8 2.9 118.6 .7 126.9 3.5 144.3 1.7 166.7 2.2 189.5 3.5 148.8 -1.6	146.2 2.5 118.7 128.0 3.7 144.5 1.8 166.0 2.8 190.6 3.4 148.8 -1.5	146.7 118.7 128.5 144.9 167.0 191.4	147.2 119.3 128.7 145.2 167.4 191.8 147.6	147.4 129.1 145.6 169.4 192.2
19 • 748 • 745 • 746 • 742 • 747 • 743 •	Stock price indexes (1967=100, NSA): United States* Japan* Federal Republic of Germany* France* United Kingdom* Italy* Canada* Exchange rates: Exchange value of U.S. dollar, index: March 1973=100,	491.0 1,380.4 312.2 969.7 1,373.6 575.2 441.1	489.7 1,233.8 296.8 945.8 1,351.0 534.4 407.1	482.0 1,409.7 293.6 938.8 1,324.5 544.0 428.2 90.62	484.3 1,471.1 286.1 902.3 1,324.5 575.4 437.4	487.4 1,462.1 293.3 907.8 1,339.0 559.7 448.2	486.6 1,468.4 311.6 954.3 1,323.9 579.9 448.3	494.0 1,509.9 325.3 1,021.0 1,404.6 634.6 467.5	499.6 1,504.5 322.8 1,006.6 1,412.4 633.2 450.9	504.6 1,489.2 337.9 1,047.2 1,438.9 617.1 480.9	503.5 1,380.9 345.9 1,023.6 1,429.9 575.1 472.3	506.9 1,306.9 362.9 1,111.7 1,507.5 622.9 488.3	514.5 1,374.5 374.1 2°1,146.0 1,582.8 646.5 514.7	513.0 1,444.0 372.7 P 1,141.6 1,582.2 P 699.6 499.9 95.79	504.5 P 1,467.7 P 374.0 P 1,096.0 P 1,526.4 P 696.5 489.2	486.5 P 1,452.0 P 388.6 P 1,072.3 P 1,502.7 P 804.0 482.2
758 ♦	NSA ³ *. Foreign currency per U.S. dollar (NSA): 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	103.48
755 ◆ 756 ◆ 752 ◆ 757 ◆	Federal Republic of Germany (d. mark)* France (franc)* United Kingdom (pound)* Italy (lira)*	1.6545 5.6669 .6662 1,573.41	1.6466 5.5944 .6841 1,591.35	1.5964 5.3984 .6474 1,536.14	1.6071 5.4180 .6461 1,475.66	1.6547 5.5700 .6630 1,505.05	1.7157 5.8464 .6687 1,586.02	1.6944 5.9298 .6705 1,603.75	1.6219 5.6724 .6558 1,569.10	1.6405 5.7541 .6656 1,600.93	1.7005 5.9069 .6753 1,666.31	1.7105 5.8477 .6706 1,687.17	1.7426 5.9207 .6701 1,699.45	1.7355 5.8955 .6760 1,685.96	1.6909 5.7647 .6703 1,666.63	1.6984 5.8170 .6746 1,626.07
753 ♦	Canada (dollar)*	1.2902	1.2471	1.2621 16 ALT	1.2698 TEDNAT	1.2789	1.2820 IPOSITE	1.3080	1.3215	1.3263	1.3174	1.3308	1.3173	1.3424	1.3644	1.3830
990 ♦	CIBCR long-leading composite index, 1967=100 ⁴	259.0	^r 258.1	70. ALI	256.3	7258.1	, 258.8	258.9	· 258.9	261.1	^r 262.9	^r 266.3	266.1	^r 266.8	265.9	^p 267.7
990 ♦	CIBCR long-leading composite index, 1967=100 4	259.0	222.4	221.9	219.5	223.1	222.2	258.9	226.2	226.5	⁷ 262.9 ⁷ 229.9	229.6	² 232.6	, 206.8 , 234.0	⁷ 236.9	P 237.2

FOOTNOTES FOR PAGES C-1 THROUGH C-5

a Anticipated.

AR Annual rate.

c Corrected.© Copyrighted

© Copyrighted.e Estimated.

Later data listed in notes.

NSA Not seasonally adjusted.

p Preliminary.

Graph included for this series.

Major revision—see 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.
- 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.
 - 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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- * Preliminary May 1994 values: BCI-122 = 87.6, BCI-123 = 93.5, and BCI-85 = -0.14.
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- * 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.
- 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).
- 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

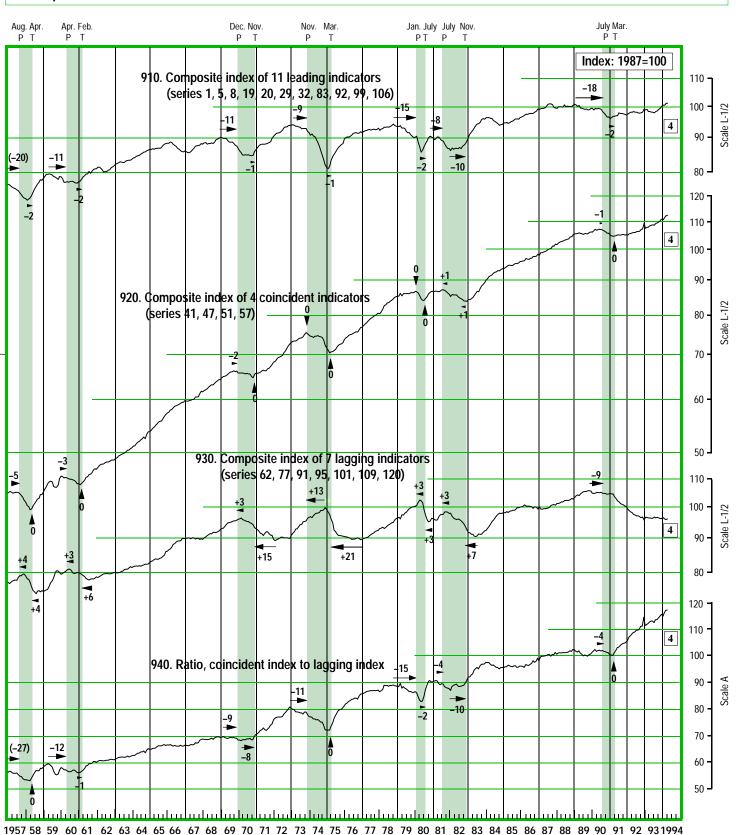
example, the vertical distance from 10 to 15 is the same as the distance from 100 to 150.) Compared with an L-1 scale, the same percentage change covers half the distance on an L-2 scale and one-third the distance on an L-3 scale.

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

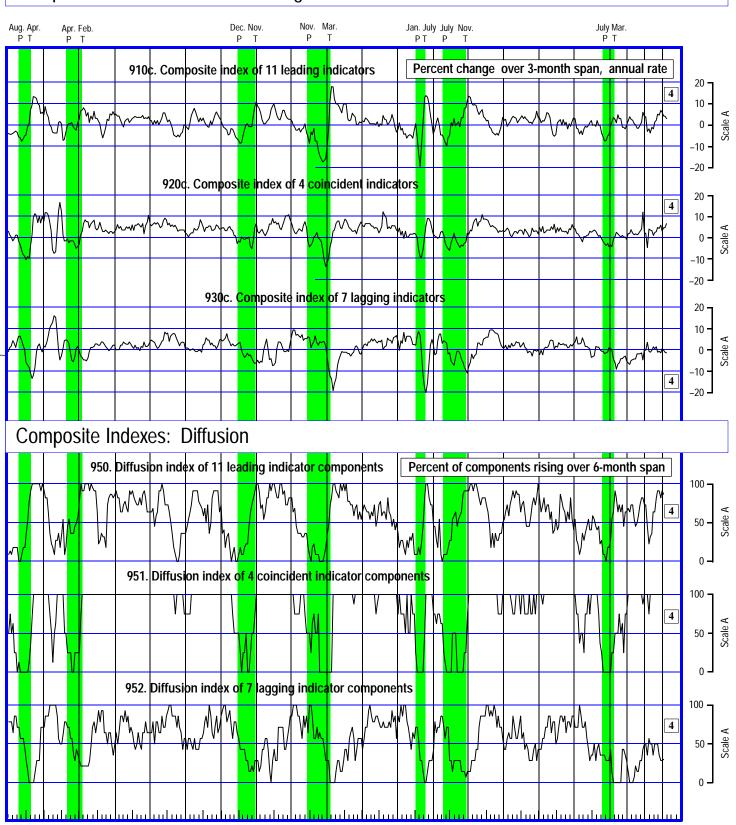
 Some series include a centered moving average, which is shown as a heavy line
- superimposed on the actual monthly data.

 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.

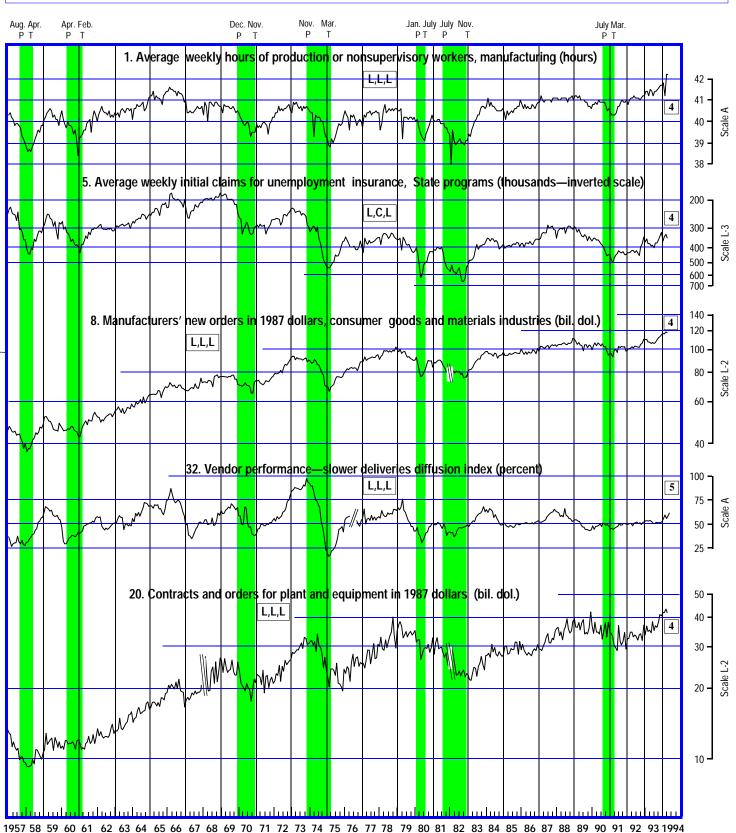
Composite Indexes



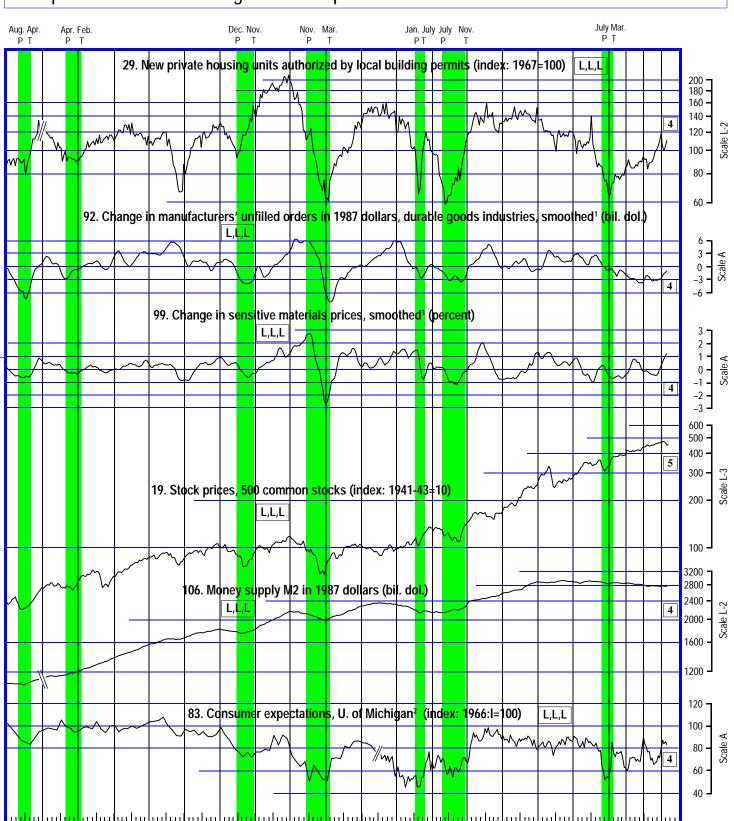
Composite Indexes: Rates of Change



Composite Indexes: Leading Index Components



Composite Indexes: Leading Index Components—Continued

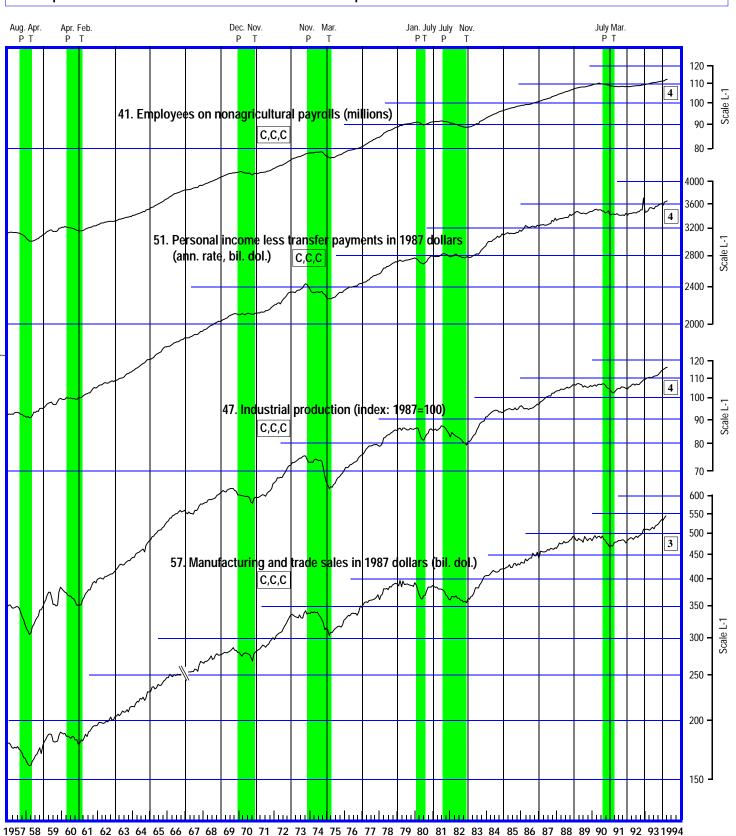


79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994 1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 1. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

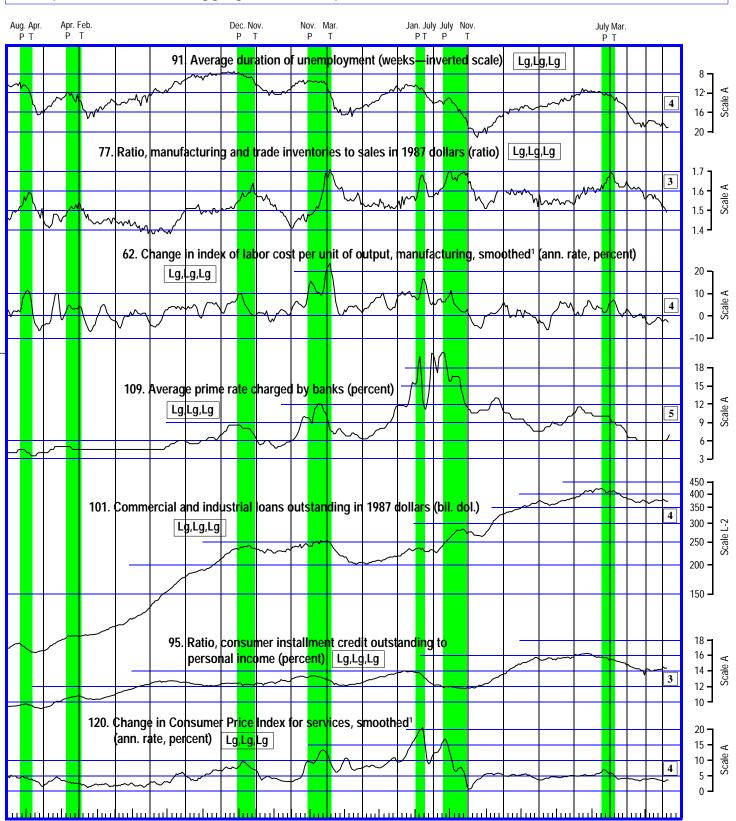
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Note.—Current data for these series are shown on page C-1.

Composite Indexes: Coincident Index Components

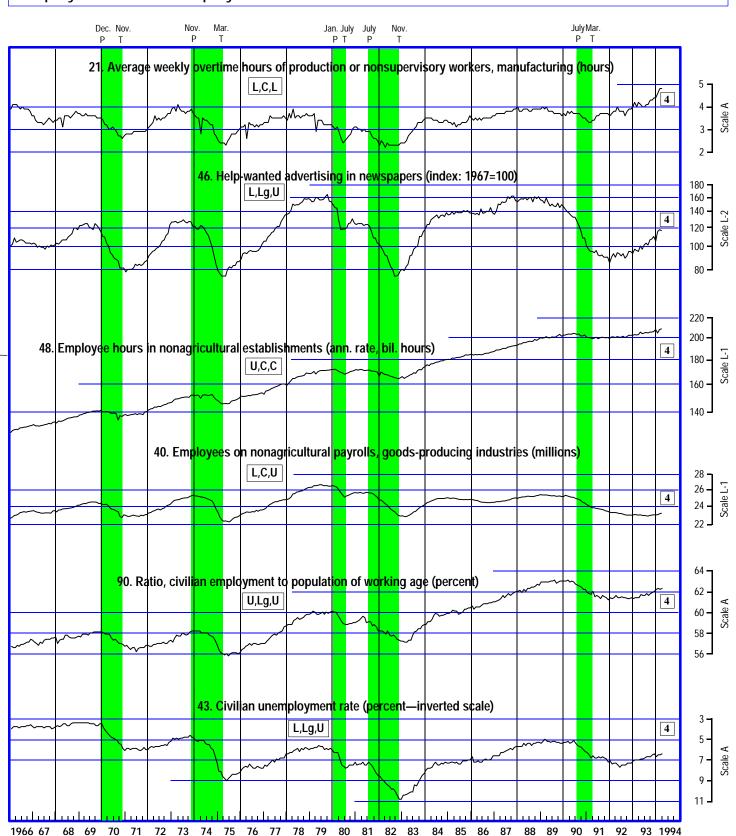


Composite Indexes: Lagging Index Components

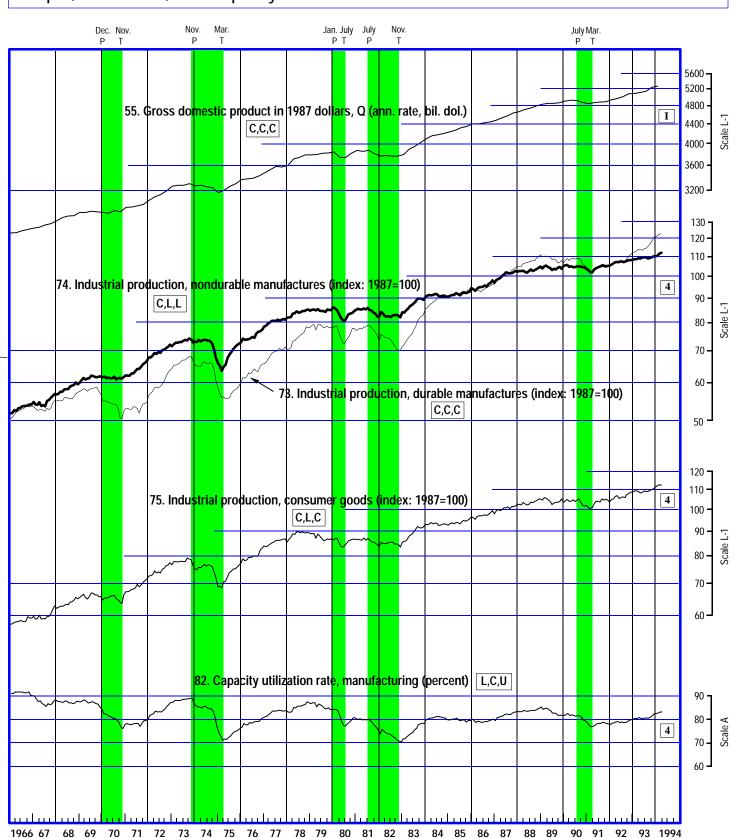


1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994

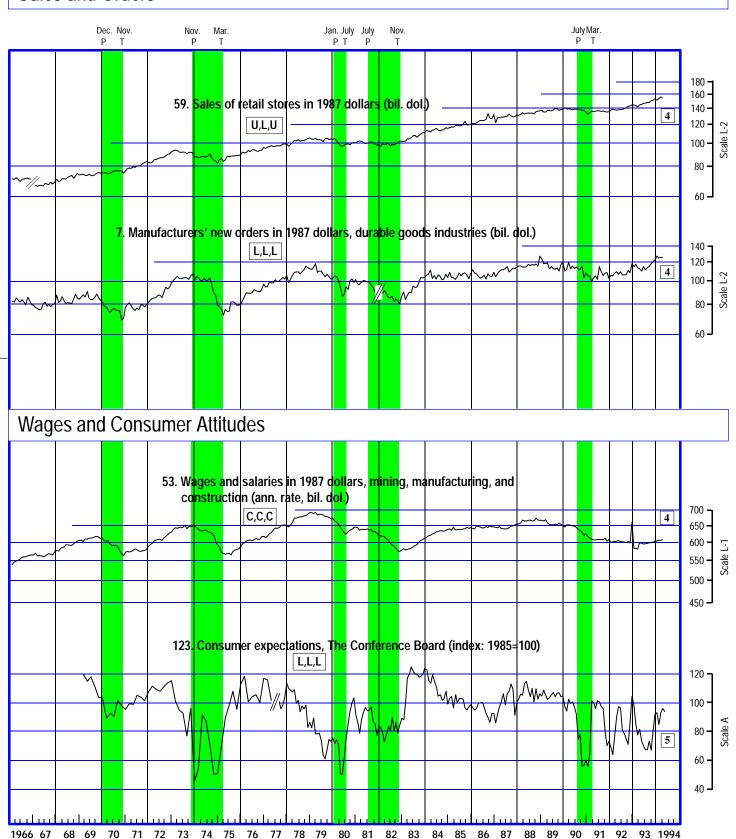
Employment and Unemployment



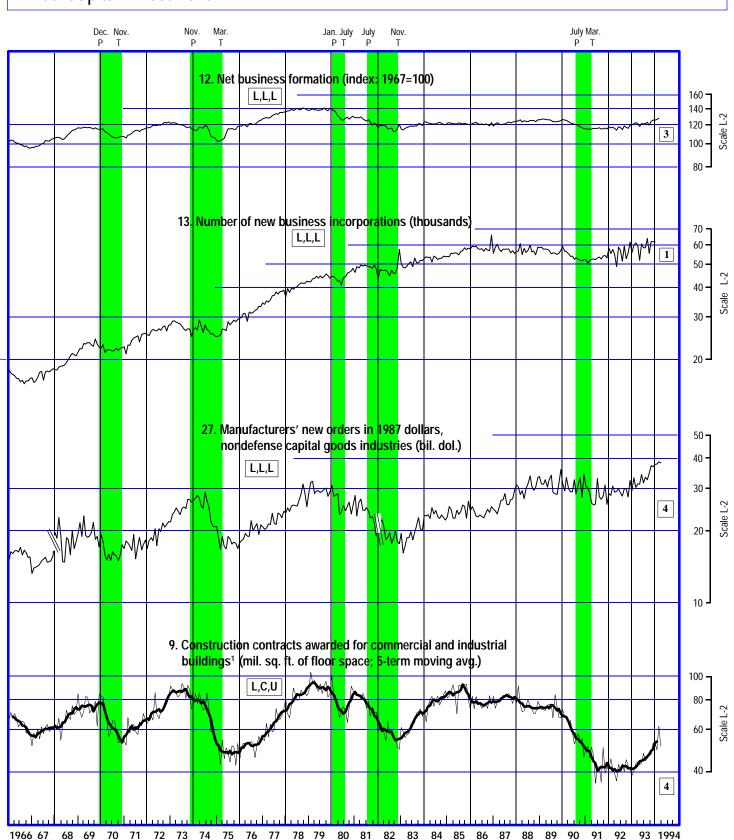
Output, Production, and Capacity Utilization



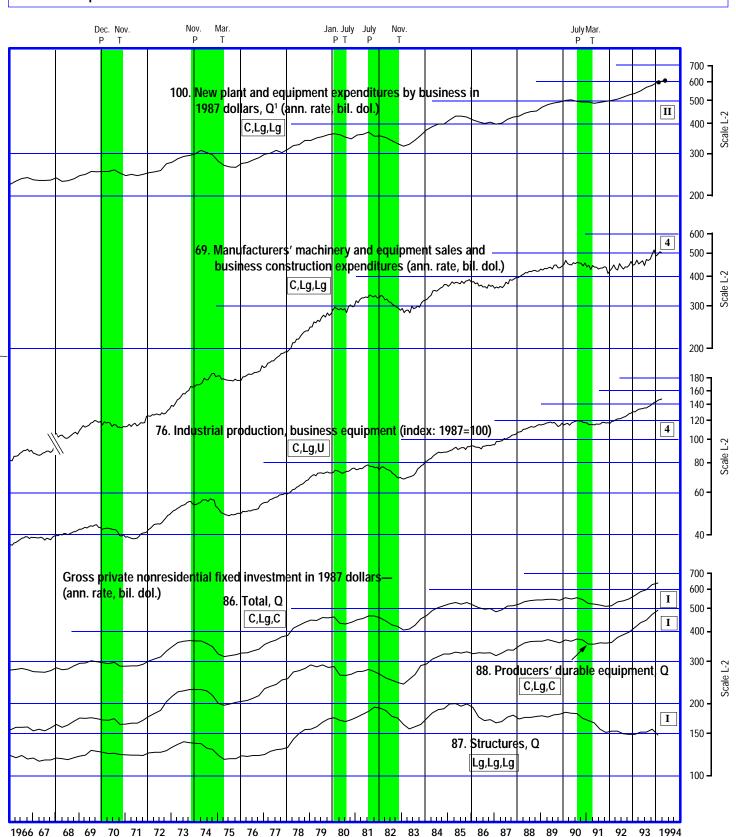
Sales and Orders



Fixed Capital Investment



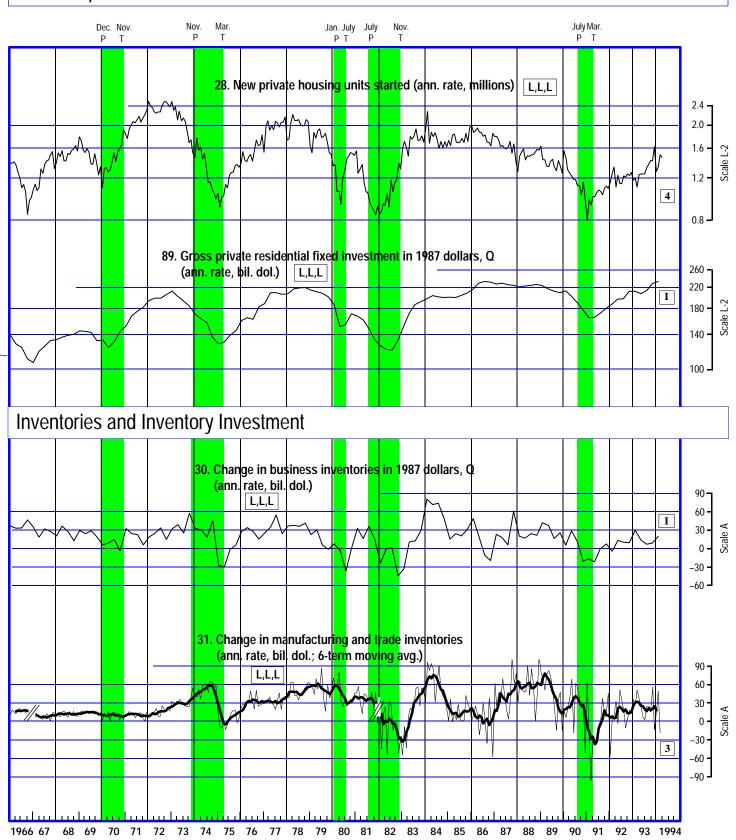
Fixed Capital Investment—Continued



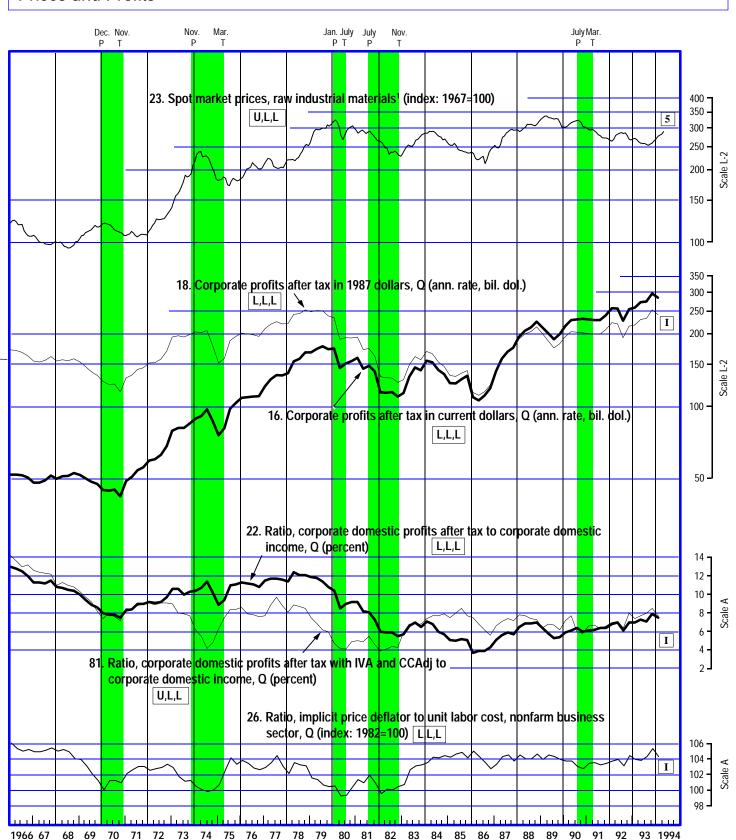
^{1.} Dotted line represents anticipated expenditures.

Note.—Current data for these series are shown on pages C-2 and C-3.

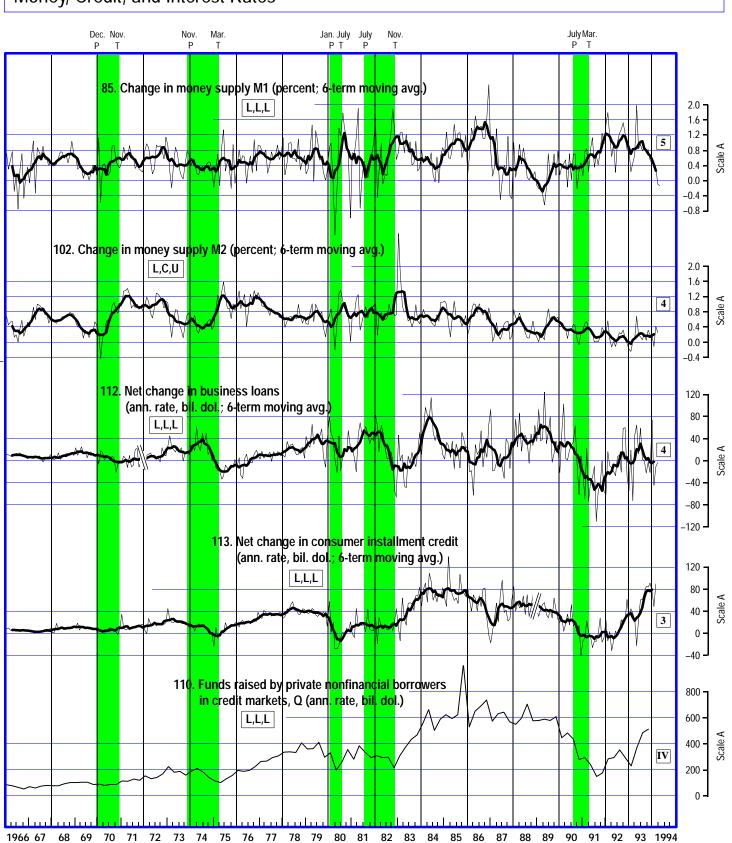
Fixed Capital Investment—Continued



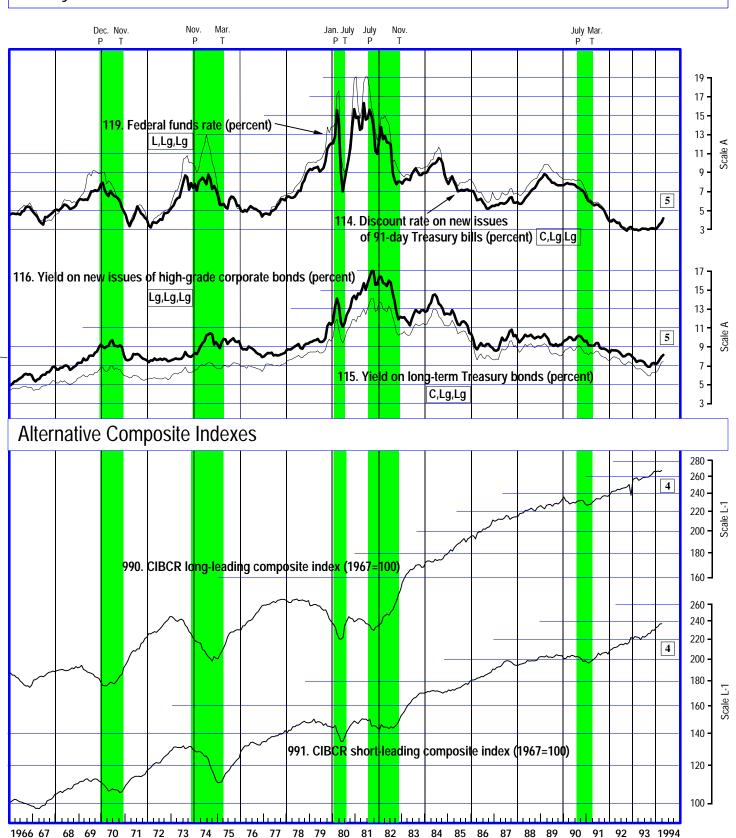
Prices and Profits



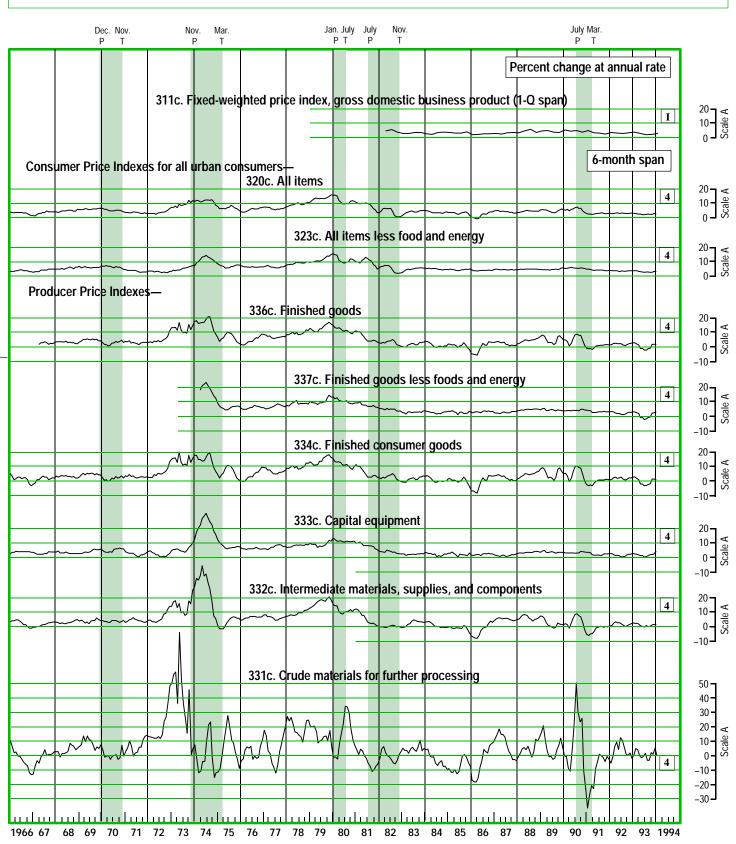
Money, Credit, and Interest Rates



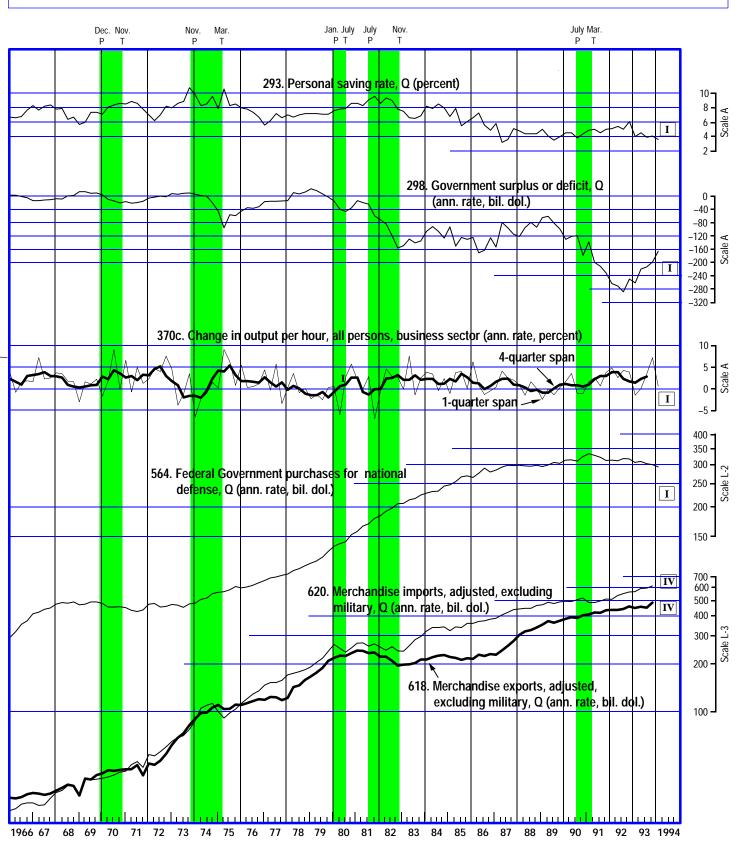
Money, Credit, and Interest Rates—Continued



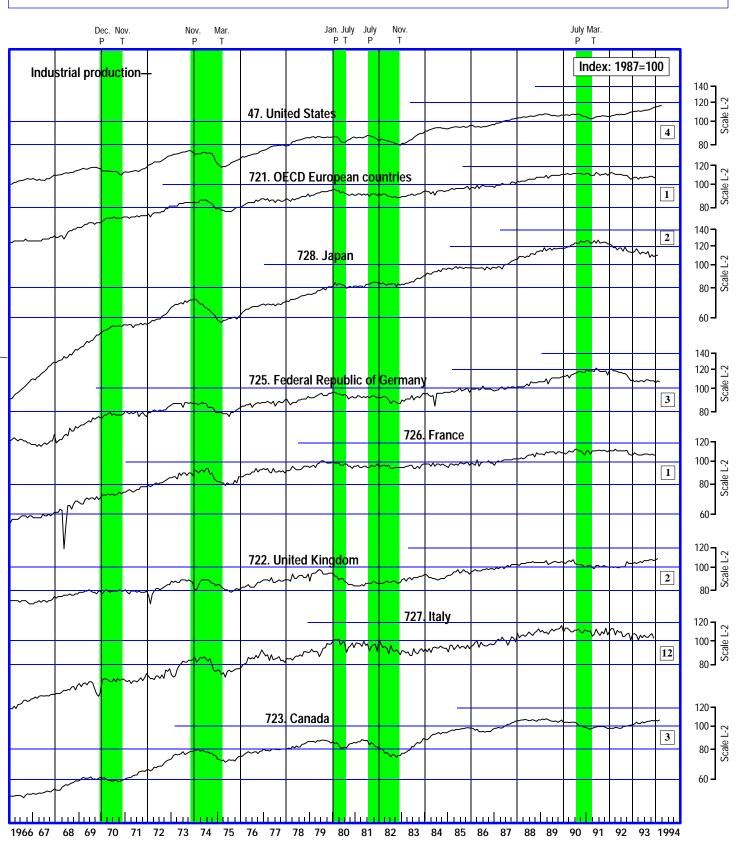
Prices



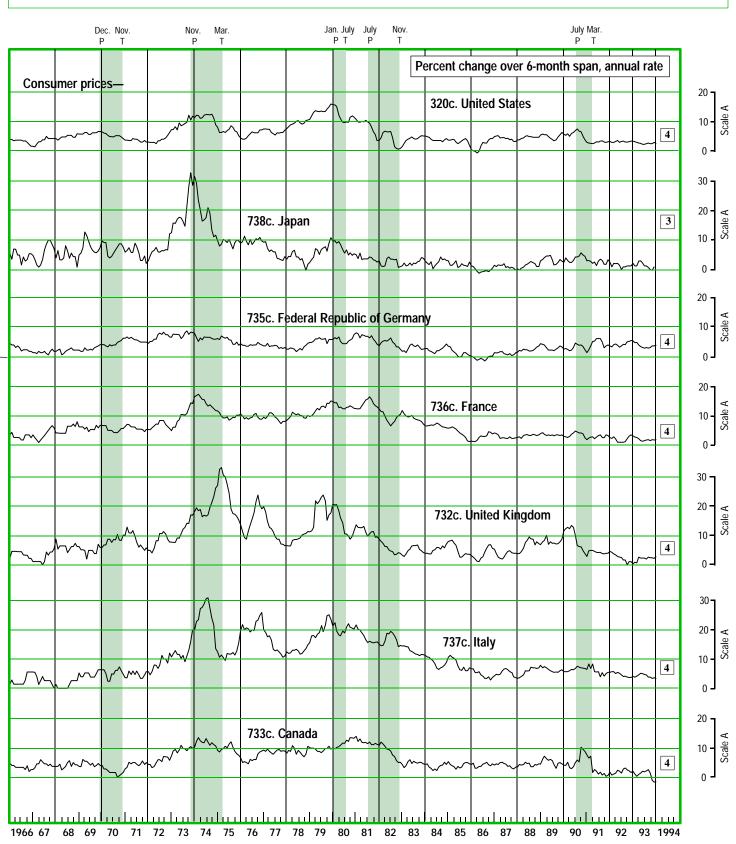
Other Measures



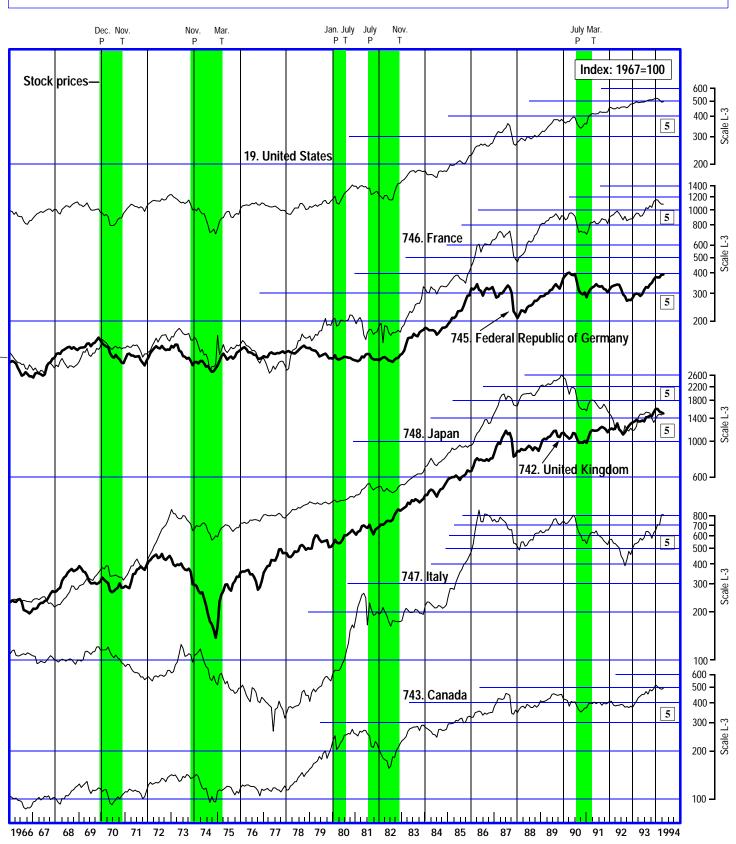
International Industrial Production



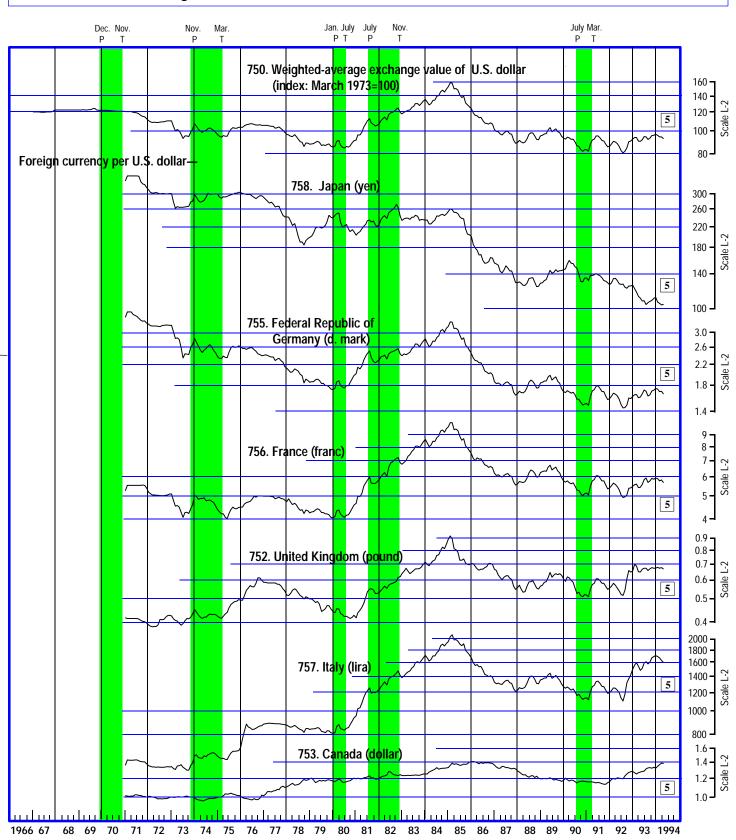
International Consumer Prices



International Stock Prices



International Exchange Rates



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