

Annual Input-Output Accounts of the U.S. Economy, 1998

By Mark A. Planting and Peter D. Kuhbach

THIS month, the Bureau of Economic Analysis released the 1998 annual input-output (I-O) accounts for the U.S. economy. These accounts are the third in a series of annual I-O accounts that have been prepared to improve the timeliness of the accounts: The lag between the year of measurement and the year of release has been reduced from 5 years to 3 years.

The annual I-O accounts show the flow of 97 commodities—goods and services—among 94 industries and to final uses. Final uses consist of personal consumption expenditures (PCE), gross private domestic investment, change in private inventories, exports, imports, and government consumption expenditures and gross investment. The sum of all final uses is, by definition, equal to gross domestic product (GDP). In addition, the accounts show, by industry, the contributions made by primary inputs (mainly labor and capital) to total output. By definition, these contributions, called “value-added,” also sum to GDP.

The annual I-O accounts extend and supplement the quinquennial benchmark I-O accounts, the annual GDP-by-industry accounts, and the GDP estimates. Using various indicators to extrapolate both commodity output and industry output, the accounts provide a more up-to-date picture of interindustry interactions than the benchmark I-O tables. The accounts supplement the annual GDP-by-industry estimates by providing information on industry purchases and sales that are not found in the GDP-by-industry estimates of gross output, intermediate inputs, and value added. The annual I-O accounts also provide industry information that supplements the product information contained in the GDP estimates.

The I-O accounts map the structure of production and distribution economy wide. These accounts can be used to analyze changes in the composition of GDP and the effects of these changes on different parts of the economy. For example, the industry relationships from the 1998

accounts could be used to estimate the effects of the attacks of September 11th on tourism (including hotels and air transportation) and its supplying industries or the effects of the recent increases in defense spending on a broad range of industries.

The year 1998 was the seventh year of the 9-year economic expansion of the 1990s. While consumer spending was important in sustaining the long expansion, high levels of investment, especially investment in high-tech equipment and services—computers, communication equipment, and software—played a central role. The long-term shift in the composition of U.S. output from traditional goods to services continued in the 1990s.

For assessing structural changes in the economy, the I-O estimates provide industry and product information, such as purchases of intermediate goods and services, that are not available in the final demand estimates included in GDP. Structural changes highlighted by the 1998 annual I-O accounts include the following:

- Intermediate consumption of business services—which are frequently associated with outsourcing—grew more than 12 percent in 1998, almost five times faster than intermediate consumption of all other commodities.
- Consumer spending on services grew more rapidly than consumer spending on goods in 1992–98, but the spending on goods has larger backward linkages to the rest of the economy.
- Most goods have backward linkages that exceed 2.0, indicating that a \$1 increase in final demand for goods results in at least another \$1 of demand for goods and services from the supplying industries. For example, passenger cars and trucks have a backward linkage of 2.82, indicating that a \$1 increase in final demand will result in a \$1.82 increase in the demand for goods and services from all the other industries.
- Most services have linkages that are less than

2.0. For example, finance has a linkage of 1.72, indicating that a \$1 increase in final demand results in only a \$0.72 increase in the demand for goods and services from all the other industries.

• The demand for investment commodities grew faster than overall consumer spending (either for goods or services) in 1992–98. Moreover, the backward linkages on investment commodities tend to be larger than those for consumer spending.

The 1998 I-O accounts are based on the 1992 benchmark I-O accounts and are prepared using 1998 estimates of industry and commodity output and the 1998 estimates of GDP from last summer's annual revision of the national income and product accounts (NIPAs).¹ The estimates of industry and commodity output are based on Census Bureau annual survey data and other annual sources.

1. For an overview of the I-O accounts, see Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *SURVEY OF CURRENT BUSINESS* 77 (November 1997): 36–82; and "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Requirements Tables," *SURVEY* 77 (December 1997): 22–47. For a description of the methodology for the annual I-O accounts, see Sumiye Okubo, Ann M. Lawson, and Mark A. Planting, "Annual Input-Output Accounts of the U.S. Economy, 1996," *SURVEY* 80 (January 2000): 37–86. For information on the NIPA revision, see Brent R. Moulton, Eugene P. Seskin, and David F. Sullivan, "Annual Revision of the National Income and Product Accounts," *SURVEY* 80 (August 2001): 7–120.

Estimates of the intermediate and final consumption of commodities are based on relationships from the 1992 benchmark I-O accounts. These relationships are allowed to adjust to maintain consistency with the 1998 data.

The 1998 annual I-O tables

The 1998 annual I-O accounts consist of 94 industries, 97 commodities, and 11 categories of final demand.² Two make tables, one that is based on I-O industry classifications (table 1) and an alternative that is based on the Standard Industrial Classification (SIC), show the commodities produced by each industry. Two use tables, one on the I-O basis (table 2) and one on the SIC basis, show the commodities that are consumed by each industry and final demand (table A is an aggregated version of the use table).³

2. The 1992 benchmark I-O accounts consist of 494 industries, 484 commodities, and 40 categories of final demand. The 1997 benchmark accounts are scheduled to be released at the end of 2002. For more information, see the note "Upcoming Changes in the NAICS-Based 1997 Benchmark Input-Output Accounts" in this issue.

3. The make table (table 1), the use table (table 2), and the industry-by-commodity total requirements table (table 5a) in summary format are presented at the end of this article. More detailed versions of all eight tables are available electronically; see the box "Data Availability" on page 50.

Table A.—The Use of Commodities by Industries, 1998
[Millions of dollars]

| | Industries ¹ | | | | | | | | | | Final uses (GDP) | | | | | | | Total commodity output ³ |
|---------------------------------------------------|-------------------------|---------|--------------|---------------|----------------------------------------------|-----------|-------------------------------------|-----------|--------------------|------------------------|-----------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------------------|----------------------------------------------------------|------------------|-------------------------------------|
| | Agriculture | Mining | Construction | Manufacturing | Transportation, communication, and utilities | Trade | Finance, insurance, and real estate | Services | Other ² | Total intermediate use | Personal consumption expenditures | Gross private fixed investment | Changes in business inventories | Exports of goods, and services | Imports of goods and services | Government consumption expenditures and gross investment | GDP ³ | |
| Commodities | | | | | | | | | | | | | | | | | | |
| Agricultural products..... | 68,682 | 78 | 5,860 | 144,622 | 154 | 1,816 | 11,476 | 12,310 | 567 | 245,564 | 34,596 | 1,236 | 19,563 | -23,438 | 2,984 | 34,940 | 280,503 | |
| Minerals..... | 368 | 31,478 | 7,368 | 81,722 | 52,354 | 31 | 6 | 32 | 3,061 | 176,417 | 105 | 956 | 387 | 6,961 | -47,469 | -180 | -39,241 | 137,176 |
| Construction..... | 3,369 | 4,693 | 895 | 28,756 | 47,369 | 12,694 | 66,515 | 28,785 | 25,895 | 218,971 | 577,089 | 78 | 210,040 | 787,208 | 1,006,179 | | | |
| Manufactured products..... | 49,395 | 14,510 | 299,429 | 1,380,590 | 70,485 | 68,005 | 19,318 | 340,944 | 17,593 | 2,260,269 | 1,078,057 | 587,174 | 41,694 | 523,300 | -828,893 | 210,188 | 1,611,520 | 3,871,789 |
| Transportation, communication, and utilities..... | 12,625 | 12,652 | 24,847 | 179,922 | 200,933 | 68,214 | 52,626 | 120,762 | 22,872 | 695,452 | 437,478 | 17,996 | 1,250 | 70,106 | -15,367 | 74,784 | 586,248 | 1,281,700 |
| Trade..... | 13,948 | 3,498 | 81,671 | 230,668 | 15,081 | 32,685 | 4,925 | 68,036 | 2,646 | 453,157 | 873,411 | 112,475 | 5,127 | 70,298 | 19,586 | 22,215 | 1,103,110 | 1,556,267 |
| Finance, insurance, and real estate..... | 20,647 | 33,253 | 16,485 | 71,167 | 40,283 | 108,418 | 445,679 | 243,750 | 7,945 | 987,627 | 1,369,009 | 51,135 | 73,154 | -9,896 | 37,315 | 1,520,718 | 2,508,344 | |
| Services..... | 8,998 | 5,851 | 103,708 | 240,141 | 144,495 | 219,223 | 191,363 | 530,971 | 13,585 | 1,458,335 | 2,010,510 | 166,967 | 25 | 38,456 | -8,322 | 6,745 | 2,214,382 | 3,672,717 |
| Other ² | 166 | 29 | 1,076 | 13,826 | 3,306 | 11,226 | 28,196 | 24,713 | 3,034 | 85,574 | 5,119 | -48,174 | 23,409 | 93,720 | -5,783 | 963,760 | 1,032,052 | 1,117,626 |
| Noncomparable imports..... | 64 | 1,872 | 22,929 | 21,939 | 7,722 | 8,553 | 5,189 | 1,144 | 69,413 | 47,744 | | | | -127,801 | 10,644 | -69,413 | | |
| Total intermediate inputs..... | 178,262 | 107,913 | 541,338 | 2,394,342 | 596,399 | 530,035 | 828,656 | 1,375,492 | 98,341 | 6,650,777 | | | | | | | | |
| Value added ⁴ | 105,028 | 39,826 | 464,841 | 1,559,242 | 653,908 | 1,022,277 | 1,718,897 | 2,104,140 | 1,113,367 | | | | | | | 8,781,523 | | |
| Total industry output ³ | 283,290 | 147,738 | 1,006,179 | 3,953,584 | 1,250,307 | 1,552,311 | 2,547,553 | 3,479,631 | 1,211,707 | 5,856,029 | 1,465,618 | 73,127 | 895,637 | -1,047,382 | 1,538,494 | | 15,432,301 | |

1. The input-output (I-O) accounts use two classification systems, one for industries and another for commodities, but both systems generally use the same I-O numbers and titles.

2. "Other" consists of government enterprises, general government industry, household industry, and the inventory valuation adjustment.

3. Detail may not sum to totals due to rounding.

4. "Value added" consists of compensation of employees, indirect business tax and nontax liability, and other value added. "Other value added" consists of the following components of gross domestic income: Consumption of fixed capital, net interest, proprietors' income, corporate profits, rental income of persons, business transfer payments, and subsidies less current surplus of government enterprises.

Four requirements tables are derived from the make and use tables: One direct requirements table and three total requirements tables. The total requirements tables show the production that is required, directly and indirectly, to meet purchases from final demand. The industry-by-commodity total requirements table details all the linkages between commodity consumption and industry production. The aggregate effect of these linkages is captured in the column sums of this table and is referred to as “the backward linkage” (table 5a). The backward linkage for a commodity represents the total output required from all industries to supply \$1 of final demand for that commodity.

Changes in the composition of total consumption in 1992–98

The series of I-O accounts can be used to compare the structure of the U.S. economy over time. Changes in the use of commodities by the economy, both for domestic use and for export, are measured by changes in the composition of total consumption (table B). Total consumption is defined as total domestic commodity output plus imports less change in private inventories, and it is equal to the sum of total intermediate use and the four final use sectors (personal consumption expenditures, gross private fixed investment, exports, and government purchases). Total consumption shows the total flow of commodities from domestic and foreign sources through the economy. The consumption of commodities by sector provides indications of where structural changes are occurring (table C).

Total commodity consumption grew 5.0 percent in 1998, somewhat slower than the average annual rate of growth of 6.1 percent over the period 1992–98 (table D). This slower rate of growth reflects a slowdown in the consumption of goods commodities, which grew 2.1 percent in 1998, less than half the average rate of 5.4 percent in 1992–98.⁴ In contrast, services commodities grew 6.7 percent in 1998, about the same as the average

rate of 6.6 percent in 1992–98. The faster growth in the consumption of services commodities further shifted total consumption from goods to services; the services' share of total consumption rose from 60.9 percent in 1992 to 62.5 percent in 1998. Among the services commodities, the fastest growth in 1998 was in finance, insurance, and real estate (8.7 percent) and services (8.4 percent), both of which grew faster than in 1992–98.

Among the goods commodities, all the major commodity groups grew more slowly in 1998 than in 1992–98. Mining declined much more substantially (–19.2 percent, compared with –0.6 percent), primarily reflecting a decline in crude petroleum and natural gas prices in 1998. Growth in manufacturing commodities slowed substantially (2.7 percent, compared with 5.5 percent).

Table E shows the fastest growing commodities among those that accounted for at least 1 percent of total consumption in 1998. These commodities, which together accounted for 43.5 percent of total consumption, are predominantly services (commodity numbers 65A and above). Among the fastest growing commodities were finance (14.0 percent), computer and data processing services (18.8 percent), and “other business and professional services” (12.9 percent), each of which grew at more than twice the rate of all commodities. Many of these commodities continued to grow in 1998 at about the same rates as in 1992–98. However, the growth rates of several commodities slowed dramatically: Computers and office equipment grew 5.0 percent in 1998, compared with 11.3 percent in 1992–97, and electronic components and accessories grew –3.4 percent, compared with 14.6 percent.

The text continues on page 49.

Acknowledgments

Mark A. Planting supervised the preparation of the 1998 annual input-output estimates. Sumiye Okubo, Associate Director for Industry Accounts, and Ann M. Lawson, Chief of the Industry Economics Division, provided overall guidance. Matthew D. Atkinson, Felicia V. Candela, Emily J. Dozier, Jiemin Guo, Peter D. Kuhbach, Tameka R. Lee, Bobby C. Leung, Greg R. Linder, Sherlene K.S. Lum, Demian J. McGarry, Brian C. Moyer, William H. Nicolls IV, and Robert S. Robinowitz prepared the estimates. Karen J. Horowitz provided valuable assistance.

4. Services' share of economic activity varies depending on the definitions used. For example, I-O services commodities as a percentage of final uses rose from 72 percent in 1992 to 73 percent in 1998; in contrast, services as a share of GDP declined from 54 percent to 53 percent. The differences in the level are largely attributable to wholesale and retail trade; in the supply-oriented I-O commodity classification system, wholesale-retail trade is considered a service, but from the perspective of final users, these services are included in the value of goods purchased. The difference in the direction of movement was due not only to wholesale-retail trade but also to eating and drinking places and to computer and data processing services, including own-account software, which is treated as services in the I-O commodity classification system but as consumer and investment goods in final demand.

Table B.—Commodity Output, Imports, and Total Consumption, 1992, 1997, and 1998—Continued
 [Millions of dollars]

| Commodity number | Description | Output | | | Imports | | | Total consumption | | |
|-----------------------------------------------------|----------------------------------------------------------------------------|-----------|-----------|-----------|---------|---------|---------|-------------------|-----------|-----------|
| | | 1992 | 1997 | 1998 | 1992 | 1997 | 1998 | 1992 | 1997 | 1998 |
| MANUFACTURING—Continued | | | | | | | | | | |
| 55 | Electric lighting and wiring equipment | 19,055 | 25,059 | 26,933 | 4,985 | 7,332 | 7,785 | 23,899 | 32,262 | 34,373 |
| 56 | Audio, video, and communication equipment..... | 50,981 | 89,145 | 91,799 | 25,409 | 35,181 | 40,509 | 76,016 | 123,244 | 129,909 |
| 57 | Electronic components and accessories..... | 73,298 | 143,250 | 137,134 | 20,574 | 43,947 | 42,249 | 93,923 | 185,465 | 179,072 |
| 58 | Miscellaneous electrical machinery and supplies..... | 21,103 | 27,685 | 27,477 | 8,062 | 11,958 | 12,505 | 29,314 | 39,448 | 39,618 |
| 59A | Motor vehicles—passenger cars and trucks..... | 149,684 | 221,259 | 230,676 | 58,285 | 87,956 | 93,073 | 206,855 | 306,946 | 322,570 |
| 59B | Truck and bus bodies, trailers, and motor vehicle parts..... | 81,258 | 129,174 | 135,108 | 21,743 | 31,780 | 33,520 | 103,221 | 160,379 | 167,938 |
| 60 | Aircraft and parts..... | 102,154 | 102,433 | 129,376 | 12,153 | 15,475 | 20,384 | 122,318 | 116,608 | 141,056 |
| 61 | Other transportation equipment..... | 29,907 | 41,688 | 44,133 | 2,693 | 4,651 | 5,958 | 32,898 | 45,577 | 49,409 |
| 62 | Scientific and controlling instruments..... | 107,915 | 123,806 | 133,097 | 14,773 | 21,696 | 23,986 | 122,916 | 145,376 | 156,151 |
| 63 | Ophthalmic and photographic equipment..... | 22,745 | 22,644 | 20,721 | 8,153 | 11,176 | 10,756 | 30,530 | 33,347 | 31,102 |
| 64 | Miscellaneous manufacturing..... | 39,450 | 49,696 | 50,585 | 23,335 | 32,905 | 36,292 | 62,020 | 82,040 | 85,353 |
| TRANSPORTATION, COMMUNICATION, AND UTILITIES | | | | | | | | | | |
| Total..... | | 932,030 | 1,231,397 | 1,281,700 | 7,932 | 14,026 | 15,367 | 939,006 | 1,244,152 | 1,295,817 |
| 65A | Railroads and related services; passenger ground transportation..... | 62,058 | 78,362 | 79,667 | 164 | 194 | 199 | 62,087 | 78,371 | 79,624 |
| 65B | Motor freight transportation and warehousing..... | 157,110 | 211,866 | 230,207 | 2,059 | 1,985 | 1,910 | 158,540 | 212,908 | 231,279 |
| 65C | Water transportation..... | 34,347 | 37,136 | 38,469 | -3,530 | -4,038 | -4,658 | 30,781 | 33,089 | 33,802 |
| 65D | Air transportation..... | 98,819 | 137,175 | 142,881 | 8,544 | 14,786 | 16,789 | 107,226 | 151,817 | 159,536 |
| 65E | Pipelines, freight forwarders, and related services..... | 28,966 | 37,648 | 39,469 | | | | 28,958 | 37,658 | 39,502 |
| 66 | Communications, except radio and TV..... | 205,941 | 314,228 | 343,786 | | | | 205,941 | 314,228 | 343,786 |
| 67 | Radio and TV broadcasting..... | 2,674 | 5,180 | 5,576 | | | | 2,674 | 5,180 | 5,576 |
| 68A | Electric services—utilities..... | 195,695 | 232,885 | 230,091 | 695 | 1,100 | 1,126 | 196,390 | 233,984 | 231,217 |
| 68B | Gas production and distribution—utilities..... | 96,155 | 111,176 | 103,121 | | | | 96,144 | 111,177 | 103,063 |
| 68C | Water and sanitary services..... | 50,265 | 65,740 | 68,432 | | | | 50,265 | 65,740 | 68,432 |
| WHOLESALE AND RETAIL TRADE | | | | | | | | | | |
| Total..... | | 1,095,148 | 1,499,166 | 1,556,267 | -18,317 | -19,617 | -19,586 | 1,074,173 | 1,473,476 | 1,531,554 |
| 69A | Wholesale trade..... | 568,970 | 804,290 | 812,459 | -18,317 | -19,617 | -19,586 | 547,995 | 778,600 | 787,746 |
| 69B | Retail trade..... | 526,178 | 694,876 | 743,808 | | | | 526,178 | 694,876 | 743,808 |
| FINANCE, INSURANCE, AND REAL ESTATE | | | | | | | | | | |
| Total..... | | 1,639,416 | 2,309,627 | 2,508,344 | 1,412 | 6,551 | 9,896 | 1,640,828 | 2,316,178 | 2,518,240 |
| 70A | Finance..... | 390,774 | 639,350 | 729,281 | 265 | 889 | 891 | 391,039 | 640,239 | 730,171 |
| 70B | Insurance..... | 231,654 | 337,367 | 344,595 | 1,136 | 5,646 | 8,987 | 232,790 | 343,012 | 353,582 |
| 71A | Owner-occupied dwellings..... | 457,250 | 591,837 | 631,659 | | | | 457,250 | 591,837 | 631,659 |
| 71B | Real estate and royalties..... | 559,738 | 741,073 | 802,810 | 11 | 16 | 18 | 559,749 | 741,089 | 802,828 |
| SERVICES | | | | | | | | | | |
| Total..... | | 2,388,808 | 3,390,222 | 3,672,717 | 4,027 | 6,880 | 8,322 | 2,392,872 | 3,396,784 | 3,681,014 |
| 72A | Hotels and lodging places..... | 58,936 | 77,855 | 82,286 | | | | 58,936 | 77,855 | 82,286 |
| 72B | Personal and repair services—except auto..... | 92,016 | 119,364 | 127,143 | | | | 92,016 | 119,364 | 127,143 |
| 73A | Computer and data processing services, including own-account software..... | 152,744 | 305,384 | 362,292 | 225 | 497 | 596 | 153,010 | 305,568 | 362,868 |
| 73B | Legal, engineering, accounting, and related services..... | 252,597 | 338,350 | 370,311 | 839 | 1,626 | 1,796 | 253,436 | 339,977 | 372,107 |
| 73C | Other business and professional services, except medical..... | 332,385 | 533,214 | 600,791 | 1,632 | 2,449 | 3,750 | 334,017 | 535,663 | 604,541 |
| 73D | Advertising..... | 138,530 | 186,963 | 198,947 | 615 | 1,361 | 1,254 | 139,145 | 188,324 | 200,201 |
| 74 | Eating and drinking places..... | 282,017 | 357,943 | 374,737 | | | | 282,017 | 357,943 | 374,737 |
| 75 | Automotive repair and services..... | 164,408 | 251,976 | 264,812 | 6 | 3 | 6 | 164,410 | 251,974 | 264,813 |
| 76 | Amusements..... | 122,937 | 190,881 | 204,820 | 248 | 371 | 344 | 123,185 | 191,252 | 205,164 |
| 77A | Health services..... | 564,607 | 726,052 | 763,827 | 13 | 9 | 10 | 564,620 | 726,060 | 763,837 |
| 77B | Educational and social services, and membership organizations..... | 227,631 | 302,241 | 322,753 | 449 | 564 | 566 | 228,080 | 302,805 | 323,319 |
| SPECIAL INDUSTRIES | | | | | | | | | | |
| Total..... | | 849,031 | 1,063,264 | 1,117,626 | 92,856 | 126,559 | 133,584 | 948,340 | 1,176,821 | 1,227,800 |
| 78 | Federal Government enterprises..... | 50,200 | 74,750 | 80,223 | | | | 50,200 | 74,750 | 80,223 |
| 79 | State and local government enterprises..... | 30,162 | 43,561 | 44,746 | | | | 30,162 | 43,561 | 44,746 |
| 80 | Noncomparable imports..... | | | | 90,036 | 120,721 | 127,801 | 90,036 | 120,721 | 127,801 |
| 81 | Scrap, used and secondhand goods..... | 2,175 | 1,542 | 2,597 | 2,746 | 5,797 | 5,748 | 3,392 | 5,088 | 6,473 |
| 82 | General government industry..... | 764,389 | 920,196 | 954,171 | | | | 764,389 | 920,196 | 954,171 |
| 83 | Rest of world adjustment to final uses..... | | | | 74 | 40 | 35 | 74 | 40 | 35 |
| 84 | Household industry..... | 10,087 | 12,464 | 14,351 | | | | 10,087 | 12,464 | 14,351 |
| 85 | Inventory valuation adjustment..... | -7,982 | 10,751 | 21,538 | | | | | | |

NOTE.—Total consumption of commodities is equal to commodity output plus imports less the change in private inventories. The change in private inventories is not shown separately in this table.

Table D.—Total Consumption Growth Rates and Shares by Major Commodity Group, 1992–98

| Commodity | Total consumption | | | Average annual rate of growth of consumption (percent) | | Share of total commodity consumption (percent) | |
|----------------------------------------------------|-------------------|------------|------------|--------------------------------------------------------|---------|------------------------------------------------|-------|
| | 1992 | 1997 | 1998 | 1992–98 | 1997–98 | 1992 | 1998 |
| All commodities | 11,487,126 | 15,632,077 | 16,406,556 | 6.1 | 5.0 | 100.0 | 100.0 |
| Goods commodities | 4,491,907 | 6,024,667 | 6,152,131 | 5.4 | 2.1 | 39.1 | 37.5 |
| Agriculture, forestry, and fisheries | 245,345 | 314,319 | 302,706 | 3.6 | -3.7 | 2.1 | 1.8 |
| Mining | 191,196 | 227,987 | 184,258 | -0.6 | -19.2 | 1.7 | 1.1 |
| Construction | 679,330 | 944,308 | 1,006,179 | 6.8 | 6.6 | 5.9 | 6.1 |
| Manufacturing | 3,376,036 | 4,538,054 | 4,658,989 | 5.5 | 2.7 | 29.4 | 28.4 |
| Services commodities | 6,995,219 | 9,607,410 | 10,254,425 | 6.6 | 6.7 | 60.9 | 62.5 |
| Transportation, communication, and utilities | 939,006 | 1,244,152 | 1,295,817 | 5.5 | 4.2 | 8.2 | 7.9 |
| Wholesale and retail trade | 1,074,173 | 1,473,476 | 1,531,554 | 6.1 | 3.9 | 9.4 | 9.3 |
| Finance, insurance, and real estate | 1,640,828 | 2,316,178 | 2,518,240 | 7.4 | 8.7 | 14.3 | 15.3 |
| Services | 2,392,872 | 3,396,784 | 3,681,014 | 7.4 | 8.4 | 20.8 | 22.4 |
| Special industries | 948,340 | 1,176,821 | 1,227,800 | 4.4 | 4.3 | 8.3 | 7.5 |

Table E.—Commodities with Fastest Growing Consumption, 1992–98

| Commodity number | Description | Consumption (millions of dollars) | Percent of total commodity consumption | Average annual rate of growth of consumption | | | |
|------------------|-----------------------------------------------------------------------------|-----------------------------------|----------------------------------------|----------------------------------------------|------|---------|------|
| | | | | 1992–98 | | 1997–98 | |
| | | | | Percent | Rank | Percent | Rank |
| 11 | New construction, including own-account construction | 696,617 | 4.2 | 7.3 | 11 | 8.7 | 14 |
| 32 | Rubber and miscellaneous plastics products | 180,892 | 1.1 | 6.5 | 15 | 3.1 | 51 |
| 51 | Computer and office equipment | 172,283 | 1.1 | 10.2 | 5 | 5.0 | 41 |
| 57 | Electronic components and accessories | 179,072 | 1.1 | 11.4 | 2 | -3.4 | 83 |
| 59A | Motor vehicles (passenger cars and trucks) | 322,570 | 2.0 | 7.7 | 10 | 5.1 | 39 |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts | 167,938 | 1.0 | 8.5 | 8 | 4.7 | 43 |
| 65B | Motor freight transportation and warehousing | 231,279 | 1.4 | 6.5 | 16 | 8.6 | 16 |
| 65D | Air transportation | 159,536 | 1.0 | 6.8 | 13 | 5.1 | 40 |
| 66 | Communications, except radio and TV | 343,786 | 2.1 | 8.9 | 6 | 9.4 | 10 |
| 69A | Wholesale trade | 787,746 | 4.8 | 6.2 | 18 | 1.2 | 69 |
| 70A | Finance | 730,171 | 4.5 | 11.0 | 3 | 14.0 | 4 |
| 70B | Insurance | 353,582 | 2.2 | 7.2 | 12 | 3.1 | 52 |
| 71B | Real estate and royalties | 802,828 | 4.9 | 6.2 | 19 | 8.3 | 19 |
| 73A | Computer and data processing services, including own-account software | 362,868 | 2.2 | 15.5 | 1 | 18.8 | 2 |
| 73B | Legal, engineering, accounting, and related services | 372,107 | 2.3 | 6.6 | 14 | 9.5 | 8 |
| 73C | Other business and professional services, except medical | 604,541 | 3.7 | 10.4 | 4 | 12.9 | 5 |
| 73D | Advertising | 200,201 | 1.2 | 6.3 | 17 | 6.3 | 31 |
| 75 | Automotive repair and services | 264,813 | 1.6 | 8.3 | 9 | 5.1 | 38 |
| 76 | Amusements | 205,164 | 1.3 | 8.9 | 7 | 7.3 | 23 |

Table F.—Growth and Composition of Commodities Used for Private Fixed Investment, 1992–98

| Commodity number | Description | 1998 | | Average annual rate of growth of consumption (percent) | | 1998 Backward linkage |
|------------------|-------------------------------------------------------------------------------|----------------------------------|-----------------------------|--------------------------------------------------------|---------|-----------------------|
| | | Investment (millions of dollars) | Percent of total investment | 1992–98 | 1997–98 | |
| | Total | 1,465,618 | 100.0 | 9.5 | 10.4 | 2,056 |
| | Largest commodities | 1,387,982 | 94.7 | 9.5 | 10.3 | 2,052 |
| 11 | New construction, including own-account construction | 542,027 | 37.0 | 8.1 | 11.0 | 2,040 |
| 12 | Maintenance and repair construction, including own-account construction | 35,062 | 2.4 | 9.5 | 6.0 | 2,003 |
| 22+23 | Furniture and fixtures | 24,313 | 1.7 | 7.1 | 4.2 | 2,053 |
| 44+45 | Farm, construction, and mining machinery | 39,916 | 2.7 | 14.4 | 10.6 | 2,079 |
| 47 | Metalworking machinery and equipment | 30,195 | 2.1 | 9.4 | 2.9 | 1,832 |
| 48 | Special industry machinery and equipment | 28,213 | 1.9 | 9.0 | 4.3 | 2,034 |
| 49 | General industrial machinery and equipment | 16,973 | 1.2 | 7.0 | -0.5 | 1,943 |
| 51 | Computer and office equipment | 67,317 | 4.6 | 10.9 | 4.6 | 2,656 |
| 56 | Audio, video, and communication equipment | 48,634 | 3.3 | 12.1 | 10.5 | 2,285 |
| 59A | Motor vehicles (passenger cars and trucks) | 145,479 | 9.9 | 11.6 | 5.7 | 2,823 |
| 60 | Aircraft and parts | 20,045 | 1.4 | 6.6 | 44.8 | 1,978 |
| 62 | Scientific and controlling instruments | 59,230 | 4.0 | 5.2 | 8.4 | 1,874 |
| 69A | Wholesale trade | 87,088 | 5.9 | 10.4 | 5.9 | 1,596 |
| 69B | Retail trade | 25,387 | 1.7 | 10.0 | 6.7 | 1,557 |
| 71B | Real estate and royalties | 51,135 | 3.5 | 10.3 | 17.4 | 1,430 |
| 73A | Computer and data processing services, including own-account software | 145,416 | 9.9 | 14.6 | 20.8 | 1,767 |
| 73B | Legal, engineering, accounting, and related services | 21,552 | 1.5 | 5.3 | 9.8 | 1,547 |
| | All other commodities | 77,636 | 5.3 | 8.4 | 12.1 | 2,094 |

NOTE.—The backward linkage for a commodity represents the total output required from all industries to supply \$1 of final demand for that commodity.

Consumption of investment commodities, a component of final demand, increased at an average annual growth rate of 9.5 percent in 1992–98, and it grew 10.4 percent in 1998 (table F). Aircraft grew much faster in 1998, at 44.8 percent, than its average annual growth rate of 6.6 percent in 1992–98 and its 1992–97 rate of 0.2 percent. Real estate and royalties grew 17.4 percent in 1998, compared with 10.3 percent in 1992–98; computer and data processing grew 20.8 percent, compared with 14.6 percent; and new construction grew 11.0 percent, compared with 8.1 percent. In contrast, general industrial machinery declined 0.5 percent in 1998, compared with an average annual growth rate of 7.0 percent in 1992–98; computer and office equipment grew 4.6 percent, compared with 10.9 percent; and motor vehicles (passenger cars and trucks) grew 5.7 percent, compared with 11.6 percent.

Changes in investment demand have a substantial impact on the output of many industries because of the large backward linkages that are typical of capital goods production. Many of the investment commodities have backward linkages that exceed 2.0, indicating that an increase in the demand for these commodities will result in a doubling of production across all industries. For example, in 1998, a \$4.6 billion increase in the demand for audio, video, and communication equipment resulted in a \$10.5 billion increase in production across all industries.

Changes in the intermediate consumption of

commodities—commodities consumed by businesses in order to produce their output—were dominated by continued strong growth in the demand for business services. In 1998, intermediate consumption of these services—which are frequently associated with outsourcing—grew 12.4 percent, almost five times faster than intermediate consumption of all other commodities. Within business services, intermediate consumption of “computer and data processing services, including own-account software” grew 18.4 percent, “other business and professional services, except medical” grew 14.4 percent, and “legal, engineering, accounting, and related services” grew 10.1 percent (table G).

Table G.—Growth Rates for Business Services, 1992–98

| Commodity number | Description | 1998 Intermediate consumption (millions of dollars) | Average annual rate of growth of consumption (percent) | |
|------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|---------|
| | | | 1992–98 | 1997–98 |
| 73A | Computer and data processing services, including own-account software | 142,963 | 19.0 | 18.4 |
| 73B | Legal, engineering, accounting, and related services..... | 269,804 | 7.1 | 10.1 |
| 73C | Other business and professional services, except medical | 518,753 | 11.4 | 14.4 |

Growth in the demand for PCE commodities, a component of final demand, continued at about the same rate in 1998 as in 1992–98. The growth was primarily in services commodities, which account for most of PCE and which generally grow faster than the average for all commodities in PCE (table H). Most commodities grew at approxi-

Table H.—Growth and Composition of Commodities Used for Personal Consumption, 1992–98

| Commodity number | Description | 1998 | | Average annual rate of growth of consumption (percent) | | 1998 Backward linkage |
|------------------|---------------------------------------------------------------------|-----------------------------------|------------------------------|--------------------------------------------------------|---------|-----------------------|
| | | Consumption (millions of dollars) | Percent of total consumption | 1992–98 | 1997–98 | |
| | Total | 5,856,029 | 100.0 | 5.7 | 5.9 | 1.782 |
| | Largest commodities | 5,071,122 | 86.6 | 5.7 | 6.2 | 1.765 |
| 14 | Food and kindred products..... | 290,997 | 5.0 | 2.7 | 2.9 | 2.626 |
| 18 | Apparel | 100,336 | 1.7 | 3.6 | 3.1 | 2.529 |
| 29A | Drugs | 73,132 | 1.2 | 8.9 | 15.8 | 1.747 |
| 59A | Motor vehicles (passenger cars and trucks)..... | 140,843 | 2.4 | 4.9 | 6.8 | 2.823 |
| 65D | Air transportation | 56,033 | 1.0 | 7.5 | 6.9 | 1.865 |
| 66 | Communications, except radio and TV | 144,911 | 2.5 | 8.2 | 7.9 | 1.777 |
| 68A | Electric services (utilities) | 96,346 | 1.6 | 3.3 | 2.8 | 1.668 |
| 69A | Wholesale trade..... | 213,698 | 3.6 | 5.1 | 3.5 | 1.596 |
| 69B | Retail trade..... | 659,713 | 11.3 | 5.8 | 6.9 | 1.557 |
| 70A | Finance..... | 336,268 | 5.7 | 9.2 | 10.6 | 1.724 |
| 70B | Insurance..... | 196,833 | 3.4 | 6.1 | 3.7 | 2.074 |
| 71A | Owner-occupied dwellings | 631,659 | 10.8 | 5.5 | 6.7 | 1.255 |
| 71B | Real estate and royalties..... | 204,249 | 3.5 | 3.4 | 4.8 | 1.430 |
| 72B | Personal and repair services (except auto) | 91,759 | 1.6 | 5.8 | 7.2 | 1.685 |
| 73B | Legal, engineering, accounting, and related services | 60,186 | 1.0 | 4.7 | 6.8 | 1.574 |
| 74 | Eating and drinking places | 329,080 | 5.6 | 5.2 | 5.8 | 2.046 |
| 75 | Automotive repair and services | 153,378 | 2.6 | 9.3 | 5.0 | 1.895 |
| 76 | Amusements | 127,297 | 2.2 | 8.4 | 8.5 | 1.724 |
| 77A | Health services..... | 838,616 | 14.3 | 5.4 | 5.1 | 1.695 |
| 77B | Educational and social services, and membership organizations | 325,789 | 5.6 | 6.3 | 8.3 | 1.812 |
| | All other commodities | 784,907 | 13.4 | 5.3 | 4.1 | 1.881 |

NOTE.—The backward linkage for a commodity represents the total output required from all industries to supply \$1 of final demand for that commodity.

mately the same rates in 1998 as in 1992–98, but several did not. The growth rate of drugs in 1998, at 15.8 percent, was almost twice the 8.9-percent growth rate in 1992–98, and the growth rate of motor vehicles (passenger cars and trucks) was 6.8 percent, compared with 4.9 percent. In contrast, the growth rate of automotive repair services in 1998, at 5.0 percent, was about half the 9.3-percent growth rate in 1992–98, and the growth rate of insurance was 3.7 percent, compared with 6.1 percent.

The backward linkages for PCE commodities vary; the demand for goods generally has larger linkages, usually greater than 2.0, and the demand for services generally has smaller linkages, usually less than 2.0. In 1992–98, the commodities that grew the fastest—mainly services—tended to have lower backward linkages, so the impact on the other industries of the growth in demand for consumer spending on these commodities was not as

great as the impact of the growth in demand for investment commodities.

Data Availability

The estimates for 94 industries, 97 commodities and 11 categories of final demand at the input-output (I-O) two-digit level—including alternative estimates of the make and use tables on an approximate 1987 Standard Industrial Classification (SIC) basis—and a discussion of the matrix algebra underlying the derivation of the tables are available on BEA's Web site. Go to <www.bea.doc.gov>, click on "Gross product and input-output data," and look under "Input-Output data."

In early 2002, the data from the 1992 benchmark I-O accounts and the 1996, 1997, and 1998 annual I-O accounts will be available interactively on BEA's Web site. Users will be able to select data from any of the published tables.

The I-O two-digit estimates are also available on diskette for \$20—product number NDN-0291. To order, call the BEA Order Desk at 1-800-704-0415 (outside the United States, call 202-606-9666).

An appendix and tables 1, 2, and 5a follow.

Appendix.—Classification of Industries in the Annual Input-Output Accounts

[An asterisk preceding a Standard Industrial Classification (SIC) code indicates that the SIC industry is included in more than one I-O industry.]

| I-O number | I-O title | Related 1987 SIC codes | I-O number | I-O title | Related 1987 SIC codes |
|---------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------|
| AGRICULTURE, FORESTRY, AND FISHERIES | | | | | |
| 01 | Livestock and livestock products | *01, *02 | 55 | Electric lighting and wiring equipment | 364 |
| 02 | Other agricultural products | *01, *02 | 56 | Audio, video, and communication equipment | 365, 366 |
| 03 | Forestry and fishery products | 081, 083, 091, 097 | 57 | Electronic components and accessories | 367 |
| 04 | Agricultural, forestry, and fishery services | 0254, *0279, 071, 072, 075, 076, 078, 085, 092 | 58 | Miscellaneous electrical machinery and supplies | 369 |
| MINING | | | | | |
| 05+06 | Metallic ores mining | 101-6, *108, 109 | 59A | Motor vehicles (passenger cars and trucks) | 3711 |
| 07 | Coal mining | 121-3, *124 | 59B | Truck and bus bodies, trailers, and motor vehicles parts | 3713-5 |
| 08 | Crude petroleum and natural gas | 131, 132, *138 | 60 | Aircraft and parts | 372, 3764, 3769 |
| 09+10 | Nonmetallic minerals mining | 141-7, *148, 149 | 61 | Other transportation equipment | 3716, 373-5, 3792, 3799 |
| CONSTRUCTION | | | | | |
| 11 | New construction, including own-account construction | *108, *124, *138, *148, *15, *16, *17, 6552 | 62 | Scientific and controlling instruments | 381, 382, 384, 387 |
| 12 | Maintenance and repair construction, including own-account construction | *138, *15, *16, *17 | 63 | Ophthalmic and photographic equipment | 385, 386 |
| MANUFACTURING | | | | | |
| 13 | Ordnance and accessories | 348, 3761, 3795 | 64 | Miscellaneous manufacturing | 39 |
| 14 | Food and kindred products | 20 | TRANSPORTATION, COMMUNICATION, AND UTILITIES | | |
| 15 | Tobacco products | 21 | 65A | Railroads and related services; passenger ground transportation | 40, 41, 474 |
| 16 | Broad and narrow fabrics, yarn and thread mills | 221 4, *226, 228 | 65B | Motor freight transportation and warehousing | 42 |
| 17 | Miscellaneous textile goods and floor coverings | 227, 229 | 65C | Water transportation | 44 |
| 18 | Apparel 225, | 231-8 | 65D | Air transportation | 45 |
| 19 | Miscellaneous fabricated textile products | 239 | 65E | Pipelines, freight forwarders, and related services | 46, 472, 473, 478 |
| 20+21 | Lumber and wood products | 24 | 66 | Communications, except radio and TV | 481, 482, 484, 489 |
| 22+23 | Furniture and fixtures | 25 | 67 | Radio and TV broadcasting | 483 |
| 24 | Paper and allied products, except containers | 261, 262, 263, 267 | 68A | Electric services (utilities) | 491, 4931 |
| 25 | Paperboard containers and boxes | 265 | 68B | Gas production and distribution (utilities) | 492, 4932, 4939 |
| 26A | Newspapers and periodicals | 271, 272 | 68C | Water and sanitary services | 494-7 |
| 26B | Other printing and publishing | 273-9 | WHOLESALE AND RETAIL TRADE | | |
| 27A | Industrial and other chemicals | 281, 286, 289 | 69A | Wholesale trade | 50, 51 |
| 27B | Agricultural fertilizers and chemicals | 287 | 69B | Retail trade | 52-7, 59 |
| 28 | Plastics and synthetic materials | 282 | FINANCE, INSURANCE, AND REAL ESTATE | | |
| 29A | Drugs | 283 | 70A | Finance | 60-2, 67 (excluding 6732) |
| 29B | Cleaning and toilet preparations | 284 | 70B | Insurance | 63, 64 |
| 30 | Paints and allied products | 285 | 71A | Owner-occupied dwellings | 65 (excluding 6552) |
| 31 | Petroleum refining and related products | 29 | 71B | Real estate and royalties | |
| 32 | Rubber and miscellaneous plastics products | 30 | SERVICES | | |
| 33+34 | Footwear, leather, and leather products | 31 | 72A | Hotels and lodging places | 70 |
| 35 | Glass and glass products | 321-3 | 72B | Personal and repair services (except auto) | 72, 762-4 |
| 36 | Stone and clay products | 324-9 | 73A | Computer and data processing services, including own-account software | 737 |
| 37 | Primary iron and steel manufacturing | 331, 332, 339, 3462 | 73B | Legal, engineering, accounting, and related services | 81, 871, 872, 89 |
| 38 | Primary nonferrous metals manufacturing | 333-6, 3463 | 73C | Other business and professional services, except medical | 732-6, 738, 769, 8731, 8732, 8734, 874 |
| 39 | Metal containers | 341 | 73D | Advertising | 731 |
| 40 | Heating, plumbing, and fabricated structural metal products | 343, 344 | 74 | Eating and drinking places | 58 |
| 41 | Screw machine products and stamping | 345, 3465-9 | 75 | Automotive repair and services | 75 |
| 42 | Other fabricated metal products | 342, 347, 349 | 76 | Amusements | 78, 79 |
| 43 | Engines and turbines | 351 | 77A | Health services | 074, 80 |
| 44+45 | Farm, construction, and mining machinery | 352, 3531-3 | 77B | Educational and social services, and membership organizations | 6732, 82-4, 86, 8733 |
| 46 | Materials handling machinery and equipment | 3534-7 | SPECIAL INDUSTRIES | | |
| 47 | Metalworking machinery and equipment | 354 | 78 | Federal Government enterprises | (1) |
| 48 | Special industry machinery and equipment | 355 | 79 | State and local government enterprises | (1) |
| 49 | General industrial machinery and equipment | 356 | 80 | Noncomparable imports | (2) |
| 50 | Miscellaneous machinery, except electrical | 359 | 81 | Scrap, used and secondhand goods | (3) |
| 51 | Computer and office equipment | 357 | 82 | General government industry | (4) |
| 52 | Service industry machinery | 358 | 83 | Rest of the world adjustment to final uses | (5) |
| 53 | Electrical industrial equipment and apparatus | 361, 362 | 84 | Household industry | (6) |
| 54 | Household appliances | 363 | 85 | Inventory valuation adjustment | (7) |

1. The SIC assigns codes to activities regardless of whether the establishment is owned by private firms or government agency. In the I-O accounts, SIC codes are used only to classify private activities.

2. Noncomparable imports include imported services that are not commercially produced in the United States, and goods and services that are produced abroad and used abroad by U.S. residents for example, U.S. Federal Government defense spending abroad.

3. Scrap is a secondary product of many industries, and used goods are sales and purchases typically between final uses. Industry output is zero because there is no primary producing industry. The sales are shown as negative values in the use table.

4. Industry output is defined as the compensation of employees and consumption of fixed capital of general government agencies. The compensation of employees engaged in construction work is included in construction. The compensation of employees engaged in the production of own-account software is included in computer and data processing services.

5. The commodity entries include adjustments among PCE and government expenditures to eliminate counting the expenditures by foreign residents in both exports and PCE or government expenditures.

6. Industry output is defined as the compensation of domestic household workers.

7. The inventory valuation adjustment removes inventory profits and losses from business income.

Table 1.—The Make of Commodities
[Millions of dollars]

| Industry number | For the distribution of industries producing a commodity, read the column for that commodity | 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 | New construction, including own-account construction | Maintenance and repair construction, including own-account construction |
|-----------------|----------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|-------------------------------|----------------------------------------------|----------------------|-------------|---------------------------------|-----------------------------|------------------------------------------------------|-------------------------------------------------------------------------|
| | For the distribution of commodities produced by an industry, read the row for that industry | | | | | | | | | | |
| | Commodity number | 01 | 02 | 03 | 04 | 05+06 | 07 | 08 | 09+10 | 11 | 12 |
| 01 | Livestock and livestock products..... | 97,795 | | 160 | 787 | | | | | | |
| 02 | Other agricultural products..... | | 120,594 | 3,271 | 1,645 | | | | | | |
| 03 | Forestry and fishery products..... | | | 11,212 | | | | | | | |
| 04 | Agricultural, forestry, and fishery services..... | | | | 45,042 | | | | | | |
| 05+06 | Metallic ores mining..... | | | | | 11,381 | | | | 11 | |
| 07 | Coal mining..... | | | | | | 8 | 22,776 | | 2 | |
| 08 | Crude petroleum and natural gas..... | | | | | | | 87,491 | | | |
| 09+10 | Nonmetallic minerals mining..... | | | | | 12 | 3 | | | 15,493 | |
| 11 | New construction, including own-account construction..... | | | | | | | | | 696,617 | |
| 12 | Maintenance and repair construction, including own-account construction..... | | | | | | | | | | 309,562 |
| 13 | Ordnance and accessories..... | | | | | | | | | | |
| 14 | Food and kindred products..... | | | | | | | | | | |
| 15 | Tobacco products..... | | | | | | | | | | |
| 16 | Broad and narrow fabrics, yarn and thread mills..... | | | | | | | | | | |
| 17 | Miscellaneous textile goods and floor coverings..... | | | | | | | | | | |
| 18 | Apparel..... | | | | | | | | | | |
| 19 | Miscellaneous fabricated textile products..... | | | | | | | | | | |
| 20+21 | Lumber and wood products..... | | | | | | | | | | |
| 22+23 | Furniture and fixtures..... | | | | | | | | | | |
| 24 | Paper and allied products, except containers..... | | | | | | | | | | |
| 25 | Paperboard containers and boxes..... | | | | | | | | | | |
| 26A | Newspapers and periodicals..... | | | | | | | | | | |
| 26B | Other printing and publishing..... | | | | | | | | | | |
| 27A | Industrial and other chemicals..... | | | | | | | | | | |
| 27B | Agricultural fertilizers and chemicals..... | | | | | | | | | | |
| 28 | Plastics and synthetic materials..... | | | | | | | | | | |
| 29A | Drugs..... | | | | | | | | | | |
| 29B | Cleaning and toilet preparations..... | | | | | | | | | | |
| 30 | Paints and allied products..... | | | | | | | | | | |
| 31 | Petroleum refining and related products..... | | | | | | | | | | |
| 32 | Rubber and miscellaneous plastics products..... | | | | | | | | | | |
| 33+34 | Footwear, leather, and leather products..... | | | | | | | | | | |
| 35 | Glass and glass products..... | | | | | | | | | | |
| 36 | Stone and clay products..... | | | | | | | | | | |
| 37 | Primary iron and steel manufacturing..... | | | | | | | | | | |
| 38 | Primary nonferrous metals manufacturing..... | | | | | | | | | | |
| 39 | Metal containers..... | | | | | | | | | | |
| 40 | Heating, plumbing, and fabricated structural metal products..... | | | | | | | | | | |
| 41 | Screw machine products and stampings..... | | | | | | | | | | |
| 42 | Other fabricated metal products..... | | | | | | | | | | |
| 43 | Engines and turbines..... | | | | | | | | | | |
| 44+45 | Farm, construction, and mining machinery..... | | | | | | | | | | |
| 46 | Materials handling machinery and equipment..... | | | | | | | | | | |
| 47 | Metalworking machinery and equipment..... | | | | | | | | | | |
| 48 | Special industry machinery and equipment..... | | | | | | | | | | |
| 49 | General industrial machinery and equipment..... | | | | | | | | | | |
| 50 | Miscellaneous machinery, except electrical..... | | | | | | | | | | |
| 51 | Computer and office equipment..... | | | | | | | | | | |
| 52 | Service industry machinery..... | | | | | | | | | | |
| 53 | Electrical industrial equipment and apparatus..... | | | | | | | | | | |
| 54 | Household appliances..... | | | | | | | | | | |
| 55 | Electric lighting and wiring equipment..... | | | | | | | | | | |
| 56 | Audio, video, and communication equipment..... | | | | | | | | | | |
| 57 | Electronic components and accessories..... | | | | | | | | | | |
| 58 | Miscellaneous electrical machinery and supplies..... | | | | | | | | | | |
| 59A | Motor vehicles (passenger cars and trucks)..... | | | | | | | | | | |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts..... | | | | | | | | | | |
| 60 | Aircraft and parts..... | | | | | | | | | | |
| 61 | Other transportation equipment..... | | | | | | | | | | |
| 62 | Scientific and controlling instruments..... | | | | | | | | | | |
| 63 | Ophthalmic and photographic equipment..... | | | | | | | | | | |
| 64 | Miscellaneous manufacturing..... | | | | | | | | | | |
| 65A | Railroads and related services: passenger ground transportation..... | | | | | | | | | | |
| 65B | Motor freight transportation and warehousing..... | | | | | | | | | | |
| 65C | Water transportation..... | | | | | | | | | | |
| 65D | Air transportation..... | | | | | | | | | | |
| 65E | Pipelines, freight forwarders, and related services..... | | | | | | | | | | |
| 66 | Communications, except radio and TV..... | | | | | | | | | | |
| 67 | Radio and TV broadcasting..... | | | | | | | | | | |
| 68A | Electric services (utilities)..... | | | | | | | | | | |
| 68B | Gas production and distribution (utilities)..... | | | | | | | | | | |
| 68C | Water and sanitary services..... | | | | | | | | | | |
| 69A | Wholesale trade..... | | | | | | | | | | |
| 69B | Retail trade..... | | | | | | | | | | |
| 70A | Finance..... | | | | | | | | | | |
| 70B | Insurance..... | | | | | | | | | | |
| 71A | Owner-occupied dwellings..... | | | | | | | | | | |
| 71B | Real estate and royalties..... | | | | | | | | | | |
| 72A | Hotels and lodging places..... | | | | | | | | | | |
| 72B | Personal and repair services (except auto)..... | | | | | | | | | | |
| 73A | Computer and data processing services, including own-account software..... | | | | | | | | | | |
| 73B | Legal, engineering, accounting, and related services..... | | | | | | | | | | |
| 73C | Other business and professional services, except medical..... | | | | | | | | | | |
| 73D | Advertising..... | | | | | | | | | | |
| 74 | Eating and drinking places..... | | | | | | | | | | |
| 75 | Automotive repair and services..... | | | | | | | | | | |
| 76 | Amusements..... | | | | | | | | | | |
| 77A | Health services..... | | | | | | | | | | |
| 77B | Educational and social services, and membership organizations..... | | | | | | | | | | |
| 78 | Federal Government enterprises..... | | | | | | | | | | |
| 79 | State and local government enterprises..... | | | | | | | | | | |
| 82 | General government industry..... | | | | | | | | | | |
| 84 | Household industry..... | | | | | | | | | | |
| 85 | Inventory valuation adjustment..... | | | | | | | | | | |
| T | Total commodity output..... | 97,795 | 120,594 | 14,642 | 47,473 | 11,394 | 22,787 | 87,491 | 15,505 | 696,617 | 309,562 |

by Industries, 1998
at producers' prices]

| Ordnance and accessories | Food and kindred products | Tobacco products | Broad and narrow fabrics, yarn and thread mills | Miscellaneous textile goods and floor coverings | Apparel | Miscellaneous fabricated textile products | Lumber and wood products | Furniture and fixtures | Paper and allied products, except containers | Paperboard containers and boxes | News-papers and periodicals | Other printing and publishing | Industrial and other chemicals | Agricultural fertilizers and chemicals | Industry number |
|--------------------------|---------------------------|------------------|-------------------------------------------------|-------------------------------------------------|---------|-------------------------------------------|--------------------------|------------------------|----------------------------------------------|---------------------------------|-----------------------------|-------------------------------|--------------------------------|----------------------------------------|-----------------|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20+21 | 22+23 | 24 | 25 | 26A | 26B | 27A | 27B | |
| | 923 | | | | | | 241 | | | | | | | | 01 |
| | | | | | | | | | | | | | | | 02 |
| | | | | | | | | | | | | | | | 03 |
| | | | | | | | | | | | | | | | 04 |
| | | | | | | | | | | | | | | | 05+06 |
| | | | | | | | | | | | | | | | 07 |
| | | | | | | | | | | | | | | | 08 |
| | | | | | | | | | | | | | | | 09+10 |
| | | | | | | | | | | | | | | | 11 |
| | | | | | | | | | | | | | | | 12 |
| | | | | | | | | | | | | | | | 13 |
| | | | | | | | | | | | | | | | 14 |
| | | | | | | | | | | | | | | | 15 |
| 18,483 | 491,912 | 46,186 | | | | 11 | | | 40 | 11 | | | | | 16 |
| | | | | | | | | | 4 | | | | | | 17 |
| | | | | | | | | | 1 | | | | | | 18 |
| | | | 43,525 | 174 | 322 | 1,968 | | | 82 | 6 | | | | | 19 |
| | | | 28 | 21,097 | 6 | 258 | | | 2 | | | | | | 20 |
| | | | 578 | 58 | 66,117 | 567 | | | 33 | | | | | | 21 |
| | | | 123 | 186 | 14 | 24,379 | | | 16 | | | | | | 22+23 |
| | | | | | | 4 | 6 | 68 | 33 | | | 97 | | | 24 |
| 7 | | | | | | 40 | 117,363 | 150 | 33 | 14 | | | 12 | | 25 |
| | | 20 | | 471 | | 89 | 426 | 64,349 | 16 | | | | 6 | | 26A |
| | | | | | | | 214 | 27 | 113,594 | 220 | | | 686 | | 26B |
| | | | | | | | 10 | | 91 | 41,120 | | | 56 | | 27A |
| | | | | | | | | | | | | | 23,905 | | 27B |
| | | | | | | | | | | | | | 1,148 | | 28 |
| | | | | | | | | | | | | | 95,624 | | 29 |
| 1 | 74 | | | 8 | | 18 | | | 398 | 15 | | | 8 | | 30 |
| | 291 | | | 3 | | | | | 29 | | | | 117,036 | | 31 |
| | 100 | | | | | | | | 1 | | | | 1,206 | | 32 |
| | | | | 216 | | | | | | | | | 5,815 | | 33+34 |
| | | | | 2 | | 3 | | | | | | | 655 | | 35 |
| | | | | | | | | | | | | | 1,234 | | 36 |
| | | | | | | | | | 12 | | | | 85 | | 37 |
| | | | | | | | | | 9 | | | | 4,616 | | 38 |
| 6 | 45 | | 1 | 146 | | 56 | 185 | 73 | 9 | 179 | | | 4,616 | | 39 |
| | 12 | | 9 | | 43 | 16 | 1 | 4 | 806 | 1 | | | 218 | | 40 |
| | | | | | | 4 | 4 | 39 | | 30 | | | | | 41 |
| | | | | | | 9 | 23 | 6 | | | | | | | 42 |
| | | | | | | 3 | | | 138 | | | | | | 43 |
| | | | | | | | | | 2 | | | | | | 44+45 |
| | | | | | | | | | 1 | | | | | | 46 |
| | | | | | | | | | | | | | | | 47 |
| | | | | | | | | | | | | | | | 48 |
| 1 | | | | | | | | | | | | | | | 49 |
| 6 | | | | | | | | | | | | | | | 50 |
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| | | | | | | | | | | | | | | | 59A |
| | | | | | | | | | | | | | | | 59B |
| | | | | | | | | | | | | | | | 60 |
| 31 | | | | | | | | | | | | | | | 61 |
| 231 | | | | | | | | | | | | | | | 62 |
| 30 | | | | | | | | | | | | | | | 63 |
| 357 | | | | | | | | | | | | | | | 64 |
| | | | | | | | | | | | | | | | 65A |
| | | | | | | | | | | | | | | | 65B |
| | | | | | | | | | | | | | | | 65C |
| | | | | | | | | | | | | | | | 65D |
| | | | | | | | | | | | | | | | 65E |
| | | | | | | | | | | | | | | | 66 |
| | | | | | | | | | | | | | | | 67 |
| | | | | | | | | | | | | | | | 68A |
| | | | | | | | | | | | | | | | 68B |
| | | | | | | | | | | | | | | | 68C |
| | | | | | | | | | | | | | | | 69A |
| | | | | | | | | | | | | | | | 69B |
| | | | | | | | | | | | | | | | 70A |
| | | | | | | | | | | | | | | | 70B |
| | | | | | | | | | | | | | | | 71A |
| | | | | | | | | | | | | | | | 71B |
| | | | | | | | | | | | | | | | 72A |
| | | | | | | | | | | | | | | | 72B |
| | | | | | | | | | | | | | | | 73A |
| | | | | | | | | | | | | | | | 73B |
| | | | | | | | | | | | | | | | 73C |
| | | | | | | | | | | | | | | | 73D |
| | | | | | | | | | | | | | | | 74 |
| | | | | | | | | | | | | | | | 75 |
| | | | | | | | | | | | | | | | 76 |
| | | | | | | | | | | | | | | | 77A |
| | | | | | | | | | | | | | | | 77B |
| | | | | | | | | | | | | | | | 78 |
| | | | | | | | | | | | | | | | 79 |
| | | | | | | | | | | | | | | | 82 |
| | | | | | | | | | | | | | | | 84 |
| | | | | | | | | | | | | | | | 85 |
| 19,178 | 493,653 | 46,206 | 44,267 | 22,613 | 66,520 | 27,692 | 119,168 | 65,126 | 116,303 | 41,730 | 25,053 | 100,513 | 135,276 | 24,270 | T |

Table 1.—The Make of Commodities
[Millions of dollars]

| Industry number | For the distribution of industries producing a commodity, read the column for that commodity | Plastics and synthetic materials | Drugs | Cleaning and toilet preparations | Paints and allied products | Petroleum refining and related products | Rubber and miscellaneous plastics products | Footwear, leather, and leather products | Glass and glass products | Stone and clay products | Primary iron and steel manufacturing |
|-----------------|----------------------------------------------------------------------------------------------|----------------------------------|--------|----------------------------------|----------------------------|-----------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------|-------------------------|--------------------------------------|
| | For the distribution of commodities produced by an industry, read the row for that industry | | | | | | | | | | |
| | Commodity number | 28 | 29A | 29B | 30 | 31 | 32 | 33+34 | 35 | 36 | 37 |
| 01 | Livestock and livestock products..... | | | | | | | | | | |
| 02 | Other agricultural products..... | | | | | | | | | | |
| 03 | Forestry and fishery products..... | | | | | | | | | | |
| 04 | Agricultural, forestry, and fishery services..... | | | | | | | | | | |
| 05+06 | Metallic ores mining..... | | | | | | | | | 3 | |
| 07 | Coal mining..... | | | | | | | | | | |
| 08 | Crude petroleum and natural gas..... | | | | | 8,258 | | | | | |
| 09+10 | Nonmetallic minerals mining..... | | | | | 101 | | | | 414 | |
| 11 | New construction, including own-account construction..... | | | | | | | | | | |
| 12 | Maintenance and repair construction, including own-account construction..... | | | | | | | | | | |
| 13 | Ordnance and accessories..... | | | 7 | | | | | | | 17 |
| 14 | Food and kindred products..... | | 227 | 127 | | | 38 | 247 | | | |
| 15 | Tobacco products..... | | | | | | | | | | |
| 16 | Broad and narrow fabrics, yarn and thread mills..... | 2,139 | | 8 | | | 2 | 8 | | | |
| 17 | Miscellaneous textile goods and floor coverings..... | 234 | 2 | | | 34 | 70 | 76 | | | |
| 18 | Apparel..... | 36 | | 3 | | | 41 | 47 | | | |
| 19 | Miscellaneous fabricated textile products..... | | | 215 | | | 130 | 24 | | | |
| 20+21 | Lumber and wood products..... | | | | | | 220 | | 136 | 9 | |
| 22+23 | Furniture and fixtures..... | | | | 1 | | 136 | 5 | 67 | 8 | 17 |
| 24 | Paper and allied products, except containers..... | | 1 | 733 | 7 | | 1,153 | | | 21 | |
| 25 | Paperboard containers and boxes..... | | | 3 | | | 494 | | | | |
| 26A | Newspapers and periodicals..... | | | | | | | | | | |
| 26B | Other printing and publishing..... | | | | | | 15 | 42 | | 4 | |
| 27A | Industrial and other chemicals..... | 6,526 | 615 | 1,637 | 351 | 2,574 | 849 | | 8 | 431 | 125 |
| 27B | Agricultural fertilizers and chemicals..... | 369 | 105 | 49 | | 8 | 1 | 1 | | 1 | |
| 28 | Plastics and synthetic materials..... | 55,139 | 228 | 68 | 23 | 16 | 1,065 | | | 4 | 3 |
| 29A | Drugs..... | 17 | 94,443 | 756 | | | 2 | | | | |
| 29B | Cleaning and toilet preparations..... | 254 | 685 | 46,519 | 56 | 57 | 18 | | | 20 | |
| 30 | Paints and allied products..... | 144 | | 11 | 17,949 | 9 | 3 | | | 31 | |
| 31 | Petroleum refining and related products..... | 93 | 3 | 122 | 6 | 128,379 | 16 | | 16 | 114 | 5 |
| 32 | Rubber and miscellaneous plastics products..... | 637 | 3 | 45 | 45 | 1 | 153,832 | 38 | 109 | 8 | 32 |
| 33+34 | Footwear, leather, and leather products..... | | | | | | 29 | 8,092 | | | |
| 35 | Glass and glass products..... | | | | | | 91 | | 21,938 | 7 | |
| 36 | Stone and clay products..... | 19 | 45 | 21 | 24 | 145 | 144 | | 32 | 66,511 | 24 |
| 37 | Primary iron and steel manufacturing..... | 1 | | | | | 4 | | | 6 | 99,639 |
| 38 | Primary nonferrous metals manufacturing..... | | | | | | 67 | | 130 | 42 | 1,138 |
| 39 | Metal containers..... | | | | | | 21 | | | | |
| 40 | Heating, plumbing, and fabricated structural metal products..... | 1 | | | | | 593 | | 88 | 62 | 58 |
| 41 | Screw machine products and stampings..... | | | | 1 | | 74 | 11 | 11 | 9 | 9 |
| 42 | Other fabricated metal products..... | | 1 | 4 | | | 388 | 32 | 7 | 84 | 194 |
| 43 | Engines and turbines..... | | | | | | | | | | 20 |
| 44+45 | Farm, construction, and mining machinery..... | | | | | 7 | 5 | | | | 112 |
| 46 | Materials handling machinery and equipment..... | | | | | | 40 | | | | 3 |
| 47 | Metalworking machinery and equipment..... | | | 1 | | | 96 | | | 58 | 92 |
| 48 | Special industry machinery and equipment..... | | | | | | 74 | | 2 | 24 | 28 |
| 49 | General industrial machinery and equipment..... | | | | | | 32 | | | 8 | 116 |
| 50 | Miscellaneous machinery, except electrical..... | | | | | | 30 | | 2 | | 82 |
| 51 | Computer and office equipment..... | | | | | | 27 | | | 14 | 12 |
| 52 | Service industry machinery..... | | | 46 | | | 39 | | | | 48 |
| 53 | Electrical industrial equipment and apparatus..... | 9 | | | | 29 | 9 | | | 21 | 1 |
| 54 | Household appliances..... | | | 1 | | | 3 | | 43 | | |
| 55 | Electric lighting and wiring equipment..... | 12 | | | 58 | | 66 | 4 | 33 | 1 | 121 |
| 56 | Audio, video, and communication equipment..... | | | | | | 2 | | | 15 | |
| 57 | Electronic components and accessories..... | | | | | | 68 | | 1 | | 7 |
| 58 | Miscellaneous electrical machinery and supplies..... | | | 4 | | | 51 | | | 42 | |
| 59A | Motor vehicles (passenger cars and trucks)..... | | | | | | | | | | |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts..... | 1 | | | | | 13 | 1 | | | 3 |
| 60 | Aircraft and parts..... | | | | | | 28 | | | | 2 |
| 61 | Other transportation equipment..... | | | | | | 23 | | | | |
| 62 | Scientific and controlling instruments..... | | 456 | 25 | | | 119 | 6 | 19 | 14 | 1 |
| 63 | Ophthalmic and photographic equipment..... | | | | 203 | | 242 | | | 1 | |
| 64 | Miscellaneous manufacturing..... | 80 | 3 | 28 | | | 344 | 20 | | 2 | |
| 65A | Railroads and related services; passenger ground transportation..... | | | | | | | | | | |
| 65B | Motor freight transportation and warehousing..... | | | | | | | | | | |
| 65C | Water transportation..... | | | | | | | | | | |
| 65D | Air transportation..... | | | | | | | | | | |
| 65E | Pipelines, freight forwarders, and related services..... | | | | | | | | | | |
| 66 | Communications, except radio and TV..... | | | | | | | | | | |
| 67 | Radio and TV broadcasting..... | | | | | | | | | | |
| 68A | Electric services (utilities)..... | | | | | | | | | | |
| 68B | Gas production and distribution (utilities)..... | | | | | | | | | | |
| 68C | Water and sanitary services..... | | | | | | | | | | |
| 69A | Wholesale trade..... | | | | | | | | | | |
| 69B | Retail trade..... | | | | | | | | | | |
| 70A | Finance..... | | | | | | | | | | |
| 70B | Insurance..... | | | | | | | | | | |
| 71A | Owner-occupied dwellings..... | | | | | | | | | | |
| 71B | Real estate and royalties..... | | | | | | | | | | |
| 72A | Hotels and lodging places..... | | | | | | | | | | |
| 72B | Personal and repair services (except auto)..... | | | | | | | | | | |
| 73A | Computer and data processing services, including own-account software..... | | | | | | | | | | |
| 73B | Legal, engineering, accounting, and related services..... | | | | | | | | | | |
| 73C | Other business and professional services, except medical..... | | | | | | | | | | |
| 73D | Advertising..... | | | | | | | | | | |
| 74 | Eating and drinking places..... | | | | | | | | | | |
| 75 | Automotive repair and services..... | | | | | | | | | | |
| 76 | Amusements..... | | | | | | | | | | |
| 77A | Health services..... | | | | | | | | | | |
| 77B | Educational and social services, and membership organizations..... | | | | | | | | | | |
| 78 | Federal Government enterprises..... | | | | | | | | | | |
| 79 | State and local government enterprises..... | | | | | | | | | | |
| 82 | General government industry..... | | | | | | | | | 34 | |
| 84 | Household industry..... | | | | | | | | | | |
| 85 | Inventory valuation adjustment..... | | | | | | | | | | |
| T | Total commodity output..... | 65,711 | 96,816 | 50,430 | 18,728 | 139,618 | 160,807 | 8,654 | 22,642 | 68,023 | 101,909 |

by Industries, 1998—Continued
at producers' prices]

| 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 | 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 | Service industry machinery | Industry number |
|-----------------------------------------|------------------|-------------------------------------------------------------|--------------------------------------|---------------------------------|----------------------|------------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------|----------------------------|-----------------|
| 38 | 39 | 40 | 41 | 42 | 43 | 44+45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | |
| | | | | | | | | | | | | | | 01 |
| | | | | | | | | | | | | | | 02 |
| | | | | | | | | | | | | | | 03 |
| | | | | | | | | | | | | | | 04 |
| | | | | | | | | | | | | | | 05+06 |
| | | | | | | | | | | | | | | 07 |
| | | | | | | | | | | | | | | 08 |
| | | | | | | | | | | | | | | 09+10 |
| | | | | | | | | | | | | | | 11 |
| | | | | | | | | | | | | | | 12 |
| | 11 | | 8 | | | | 4 | 20 | 15 | | 4 | 7 | | 13 |
| | | | | | | | | | | | 1 | | | 14 |
| | | 3 | | | | | | | | | | | | 15 |
| | | | | | | | 9 | | | | | | | 16 |
| | | | | | | | 13 | | | | | | | 17 |
| | 1 | | | | | | 10 | | | | 5 | | | 18 |
| | | | | | | | 83 | | | | | | | 19 |
| | | | 1 | | | | 39 | | | | | | 3 | 20+21 |
| | | | 138 | | | | 5 | | | | | | | 22+23 |
| | 12 | | 82 | | | | 35 | | 13 | | 66 | | 1 | 24 |
| | | | | | | | 4 | | | | 2 | | | 25 |
| | | | | | | | 346 | | | | 1 | | | 26A |
| | | | | | | | 2 | | | | 1 | | | 26B |
| | | | | | | | | | | | 9 | | | 27A |
| | | | | | | | | | | | 1 | | | 27B |
| | | | | | | | | | | | 1 | | | 28 |
| | | | | | | | | | | | 25 | | | 29A |
| | 2,311 | | 2 | | | | 115 | | | | 6 | | | 29B |
| | | | 1 | | | | 62 | | 98 | | 37 | | | 30 |
| | | | | | | | 1 | | | | 5 | | | 31 |
| | | | | | | | | | | | 9 | | | 32 |
| | | | | | | | 1 | | | | 8 | | | 33+34 |
| | | | | | | | | | | | 1 | | | 35 |
| | | | | | | | | | | | 1 | | | 36 |
| | | | | | | | | | | | 8 | | | 37 |
| | | | | | | | | | | | 1 | | | 38 |
| | | | | | | | | | | | 5 | | | 39 |
| | | | | | | | | | | | 9 | | | 40 |
| | | | | | | | | | | | 1 | | | 41 |
| | | | | | | | | | | | 1 | | | 42 |
| | | | | | | | | | | | 8 | | | 43 |
| | | | | | | | | | | | 1 | | | 44+45 |
| | | | | | | | | | | | 1 | | | 46 |
| | | | | | | | | | | | 1 | | | 47 |
| | | | | | | | | | | | 1 | | | 48 |
| | | | | | | | | | | | 1 | | | 49 |
| | | | | | | | | | | | 1 | | | 50 |
| | | | | | | | | | | | 1 | | | 51 |
| | | | | | | | | | | | 1 | | | 52 |
| | | | | | | | | | | | 1 | | | 53 |
| | | | | | | | | | | | 1 | | | 54 |
| | | | | | | | | | | | 1 | | | 55 |
| | | | | | | | | | | | 1 | | | 56 |
| | | | | | | | | | | | 1 | | | 57 |
| | | | | | | | | | | | 1 | | | 58 |
| | | | | | | | | | | | 1 | | | 59A |
| | | | | | | | | | | | 1 | | | 59B |
| | | | | | | | | | | | 1 | | | 60 |
| | | | | | | | | | | | 1 | | | 61 |
| | | | | | | | | | | | 1 | | | 62 |
| | | | | | | | | | | | 1 | | | 63 |
| | | | | | | | | | | | 1 | | | 64 |
| | | | | | | | | | | | 1 | | | 65A |
| | | | | | | | | | | | 1 | | | 65B |
| | | | | | | | | | | | 1 | | | 65C |
| | | | | | | | | | | | 1 | | | 65D |
| | | | | | | | | | | | 1 | | | 65E |
| | | | | | | | | | | | 1 | | | 66 |
| | | | | | | | | | | | 1 | | | 67 |
| | | | | | | | | | | | 1 | | | 68A |
| | | | | | | | | | | | 1 | | | 68B |
| | | | | | | | | | | | 1 | | | 68C |
| | | | | | | | | | | | 1 | | | 69A |
| | | | | | | | | | | | 1 | | | 69B |
| | | | | | | | | | | | 1 | | | 70A |
| | | | | | | | | | | | 1 | | | 70B |
| | | | | | | | | | | | 1 | | | 71A |
| | | | | | | | | | | | 1 | | | 71B |
| | | | | | | | | | | | 1 | | | 72A |
| | | | | | | | | | | | 1 | | | 72B |
| | | | | | | | | | | | 1 | | | 73A |
| | | | | | | | | | | | 1 | | | 73B |
| | | | | | | | | | | | 1 | | | 73C |
| | | | | | | | | | | | 1 | | | 73D |
| | | | | | | | | | | | 1 | | | 74 |
| | | | | | | | | | | | 1 | | | 75 |
| | | | | | | | | | | | 1 | | | 76 |
| | | | | | | | | | | | 1 | | | 77A |
| | | | | | | | | | | | 1 | | | 77B |
| | | | | | | | | | | | 1 | | | 78 |
| | | | | | | | | | | | 1 | | | 79 |
| | | | | | | | | | | | 1 | | | 82 |
| | | | | | | | | | | | 1 | | | 84 |
| | | | | | | | | | | | 1 | | | 85 |
| | | | | | | | | | | | 1 | | | T |
| 86,308 | 13,392 | 76,823 | 55,001 | 82,284 | 26,658 | 55,789 | 15,249 | 40,638 | 32,421 | 40,884 | 37,947 | 99,264 | 37,772 | |

Table 1.—The Make of Commodities
[Millions of dollars]

| Industry number | For the distribution of industries producing a commodity, read the column for that commodity | Electrical industrial equipment and apparatus | Household appliances | Electric lighting and wiring equipment | Audio, video, and communication equipment | Electronic components and accessories | Miscellaneous electrical machinery and supplies | Motor vehicles (passenger cars and trucks) | Truck and bus bodies, trailers, and motor vehicles parts | Aircraft and parts | Other transportation equipment |
|-----------------|----------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------|----------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------------------|--------------------------------------------|----------------------------------------------------------|--------------------|--------------------------------|
| | For the distribution of commodities produced by an industry, read the row for that industry | | | | | | | | | | |
| | Commodity number | 53 | 54 | 55 | 56 | 57 | 58 | 59A | 59B | 60 | 61 |
| 01 | Livestock and livestock products..... | | | | | | | | | | |
| 02 | Other agricultural products..... | | | | | | | | | | |
| 03 | Forestry and fishery products..... | | | | | | | | | | |
| 04 | Agricultural, forestry, and fishery services..... | | | | | | | | | | |
| 05+06 | Metallic ores mining..... | | | | | | | | | | |
| 07 | Coal mining..... | | | | | | | | | | |
| 08 | Crude petroleum and natural gas..... | | | | | | | | | | |
| 09+10 | Nonmetallic minerals mining..... | | | | | | | | | | |
| 11 | New construction, including own-account construction..... | | | | | | | | | | |
| 12 | Maintenance and repair construction, including own-account construction..... | | | | | | | | | | |
| 13 | Ordnance and accessories..... | | | | | 189 | 20 | 52 | 4 | 3,119 | |
| 14 | Food and kindred products..... | | | | | | | | | | |
| 15 | Tobacco products..... | | | | | | | | | | |
| 16 | Broad and narrow fabrics, yarn and thread mills..... | | | | | | | | | | |
| 17 | Miscellaneous textile goods and floor coverings..... | | | | | | | | | | |
| 18 | Apparel..... | | | | | | | | | | |
| 19 | Miscellaneous fabricated textile products..... | | 14 | | | | | | | | |
| 20+21 | Lumber and wood products..... | | | 3 | | 15 | | | | | |
| 22+23 | Furniture and fixtures..... | 6 | 20 | 35 | 19 | 26 | | | 9 | | 3 |
| 24 | Paper and allied products, except containers..... | 1 | | | 23 | | | 325 | | | |
| 25 | Paperboard containers and boxes..... | | | | | | | | | | |
| 26A | Newspapers and periodicals..... | | | | | | | | | | |
| 26B | Other printing and publishing..... | | | | | 1 | | | | | |
| 27A | Industrial and other chemicals..... | | | 2 | | 32 | | 5 | | | |
| 27B | Agricultural fertilizers and chemicals..... | | | | | | | 1 | | | |
| 28 | Plastics and synthetic materials..... | | | | | | | | | | |
| 29A | Drugs..... | | | | | | | | | | |
| 29B | Cleaning and toilet preparations..... | | 7 | | | | | 9 | | | |
| 30 | Paints and allied products..... | 5 | | | | | | | | 32 | |
| 31 | Petroleum refining and related products..... | | | | | | | | | | |
| 32 | Rubber and miscellaneous plastics products..... | 81 | 155 | 167 | 1 | 132 | 15 | | 41 | 13 | 5 |
| 33+34 | Footwear, leather, and leather products..... | | | | | | | | | | |
| 35 | Glass and glass products..... | 1 | | 6 | | | | | 41 | 1 | |
| 36 | Stone and clay products..... | 10 | | 7 | | 18 | 16 | | 60 | 10 | |
| 37 | Primary iron and steel manufacturing..... | 5 | | 209 | | 4 | | | 129 | | |
| 38 | Primary nonferrous metals manufacturing..... | | | 18 | 371 | 123 | 24 | | | 14 | |
| 39 | Metal containers..... | | | | | | | | | | |
| 40 | Heating, plumbing, and fabricated structural metal products..... | 5 | 129 | 6 | | 18 | 13 | | 65 | 10 | 29 |
| 41 | Screw machine products and stampings..... | 1 | 43 | 23 | 6 | 24 | 2 | | 341 | | 8 |
| 42 | Other fabricated metal products..... | 176 | 4 | 62 | | 30 | 8 | | 187 | 500 | 64 |
| 43 | Engines and turbines..... | 1,040 | | | | | 4 | | 312 | 167 | 9 |
| 44+45 | Farm, construction, and mining machinery..... | 59 | 5 | 59 | | | 1 | | 196 | 31 | 297 |
| 46 | Materials handling machinery and equipment..... | 48 | | 1 | | | | | 15 | 1 | 22 |
| 47 | Metalworking machinery and equipment..... | 90 | 59 | 26 | | 18 | 13 | | 15 | 6 | 7 |
| 48 | Special industry machinery and equipment..... | 26 | 29 | 16 | | 54 | 5 | | 23 | | |
| 49 | General industrial machinery and equipment..... | 218 | 11 | 30 | | 21 | 14 | | 153 | 8 | 5 |
| 50 | Miscellaneous machinery, except electrical..... | 292 | | | | 18 | | 11 | 244 | 164 | 5 |
| 51 | Computer and office equipment..... | 113 | | 25 | 425 | 6,441 | 834 | | | | |
| 52 | Service industry machinery..... | 15 | 196 | 4 | 29 | 8 | 6 | | 1,743 | | 12 |
| 53 | Electrical industrial equipment and apparatus..... | 37,695 | 14 | 319 | 33 | 244 | 161 | | 88 | 34 | 1 |
| 54 | Household appliances..... | 147 | 21,453 | 38 | 14 | | 8 | | 30 | | |
| 55 | Electric lighting and wiring equipment..... | 265 | 4 | 25,175 | 147 | 240 | 22 | 14 | 175 | 4 | |
| 56 | Audio, video, and communication equipment..... | 52 | 143 | 96 | 86,489 | 1,084 | 278 | | 21 | 13 | |
| 57 | Electronic components and accessories..... | 368 | 4 | 162 | 449 | 127,066 | 211 | | | | |
| 58 | Miscellaneous electrical machinery and supplies..... | 64 | 9 | 208 | 807 | 128 | 23,675 | | | | |
| 59A | Motor vehicles (passenger cars and trucks)..... | | | | | | | 227,351 | 1,823 | | 99 |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts..... | | | | | | | 3,277 | 128,843 | 188 | 120 |
| 60 | Aircraft and parts..... | 87 | | 13 | 652 | 729 | 909 | | 58 | 124,272 | 41 |
| 61 | Other transportation equipment..... | 2 | | 1 | 51 | 1 | 11 | | 48 | 1 | 43,376 |
| 62 | Scientific and controlling instruments..... | 54 | | | | | 18 | | 200 | 735 | 1 |
| 63 | Ophthalmic and photographic equipment..... | 176 | 13 | 212 | 2,015 | 635 | 395 | | | | |
| 64 | Miscellaneous manufacturing..... | | | 2 | 65 | | 121 | | | | |
| 65A | Railroads and related services; passenger ground transportation..... | 1 | 1 | 8 | 14 | 4 | 10 | 8 | | | 26 |
| 65B | Motor freight transportation and warehousing..... | | | | | | | | | | |
| 65C | Water transportation..... | | | | | | | | | | |
| 65D | Air transportation..... | | | | | | | | | | |
| 65E | Pipelines, freight forwarders, and related services..... | | | | | | | | | | |
| 66 | Communications, except radio and TV..... | | | | | | | | | | |
| 67 | Radio and TV broadcasting..... | | | | | | | | | | |
| 68A | Electric services (utilities)..... | | | | | | | | | | |
| 68B | Gas production and distribution (utilities)..... | | | | | | | | | | |
| 68C | Water and sanitary services..... | | | | | | | | | | |
| 69A | Wholesale trade..... | | | | | | | | | | |
| 69B | Retail trade..... | | | | | | | | | | |
| 70A | Finance..... | | | | | | | | | | |
| 70B | Insurance..... | | | | | | | | | | |
| 71A | Owner-occupied dwellings..... | | | | | | | | | | |
| 71B | Real estate and royalties..... | | | | | | | | | | |
| 72A | Hotels and lodging places..... | | | | | | | | | | |
| 72B | Personal and repair services (except auto)..... | | | | | | | | | | |
| 73A | Computer and data processing services, including own-account software..... | | | | | | | | | | |
| 73B | Legal, engineering, accounting, and related services..... | | | | | | | | | | |
| 73C | Other business and professional services, except medical..... | | | | | | | | | | |
| 73D | Advertising..... | | | | | | | | | | |
| 74 | Eating and drinking places..... | | | | | | | | | | |
| 75 | Automotive repair and services..... | | | | | | | | | | |
| 76 | Amusements..... | | | | | | | | | | |
| 77A | Health services..... | | | | | | | | | | |
| 77B | Educational and social services, and membership organizations..... | | | | | | | | | | |
| 78 | Federal Government enterprises..... | | | | | | | | | | |
| 79 | State and local government enterprises..... | | | | | | | | | | |
| 82 | General government industry..... | | | | | | | | | | |
| 84 | Household industry..... | | | | | | | | | | |
| 85 | Inventory valuation adjustment..... | | | | | | | | | | |
| T | Total commodity output..... | 41,103 | 22,313 | 26,933 | 91,799 | 137,134 | 27,477 | 230,676 | 135,108 | 129,376 | 44,133 |

by Industries, 1998—Continued
at producers' prices]

| Scientific and controlling instruments | Ophthalmic and photo- graphic equipment | Miscellaneous manufacturing | Railroads and related services; passenger ground transportation | Motor freight transportation and ware- housing | Water transportation | Air transportation | Pipelines, freight forwarders, and related services | Communi- cations, except radio and TV | Radio and TV broadcasting | Electric services (utilities) | Gas production and distribution (utilities) | Water and sanitary services | Wholesale trade | Industry number |
|----------------------------------------------|--------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|-----------------------|-----------------------------------------------------------------|---------------------------------------------------|------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------|--------------------|--------------------|
| 62 | 63 | 64 | 65A | 65B | 65C | 65D | 65E | 66 | 67 | 68A | 68B | 68C | 69A | |
| | | | | | | | | | | | | | | 01 |
| | | | | | | | | | | | | | | 02 |
| | | | | | | | | | | | | | | 03 |
| | | | | | | | | | | | | | | 04 |
| | | | | | | | | | | | | | | 05+06 |
| | | | | | | | | | | | | | | 07 |
| | | | | | | | | | | | | | | 08 |
| | | | | | | | | | | | | | | 09+10 |
| | | | | | | | | | | | | | | 11 |
| | | | | | | | | | | | | | | 12 |
| 883 | | | | | | | | | | | | | | 13 |
| | | | | | | | | | | | | | | 14 |
| | | | | | | | | | | | | | | 15 |
| 12 | | 33 | | | | | | | | | | | | 16 |
| 45 | | 7 | | | | | | | | | | | | 17 |
| 132 | | | | | | | | | | | | | | 18 |
| 4 | | 119 | | | | | | | | | | | | 19 |
| 4 | 3 | 47 | | | | | | | | | | | | 20+21 |
| 93 | | 119 | | | | | | | | | | | | 22+23 |
| 913 | 11 | 107 | | | | | | | | | | | | 24 |
| | | 76 | | | | | | | | | | | | 25 |
| 36 | | | | | | | | | | | | | | 26A |
| 22 | 6 | 204 | | | | | | | | | | | | 26B |
| 19 | 6 | 115 | | | | | | | | | | | | 27A |
| | | | | | | | | | | | | | | 27B |
| | 6 | | | | | | | | | | | | | 28 |
| 396 | 19 | 9 | | | | | | | | | | | | 29A |
| 84 | | 177 | | | | | | | | | | | | 29B |
| | | 22 | | | | | | | | | | | | 30 |
| | | 100 | | | | | | | | | | | | 31 |
| 264 | 19 | 484 | | | | | | | | | | | | 32 |
| 22 | | 11 | | | | | | | | | | | | 33+34 |
| 68 | | 7 | | | | | | | | | | | | 35 |
| 55 | 1 | 104 | | | | | | | | | | | | 36 |
| 54 | | 3 | | | | | | | | | | | | 37 |
| 43 | | 9 | | | | | | | | | 115 | | | 38 |
| | | | | | | | | | | | | | | 39 |
| 37 | | 30 | | | | | | | | | | | | 40 |
| 16 | | 22 | | | | | | | | | | | | 41 |
| 579 | 1 | 227 | | | | | | | | | | | | 42 |
| 3 | | | | | | | | | | | | | | 43 |
| 19 | | 23 | | | | | | | | | | | | 44+45 |
| | | | | | | | | | | | | | | 46 |
| 59 | | 3 | | | | | | | | | | | | 47 |
| 62 | 14 | 3 | | | | | | | | | | | | 48 |
| 95 | | 18 | | | | | | | | | | | | 49 |
| 89 | | 2 | | | | | | | | | | | | 50 |
| 135 | 140 | 139 | | | | | | | | | | | | 51 |
| 41 | | 46 | | | | | | | | | | | | 52 |
| 217 | | 3 | | | | | | | | | | | | 53 |
| 39 | 7 | 2 | | | | | | | | | | | | 54 |
| 189 | 7 | 72 | | | | | | | | | | | | 55 |
| 1,114 | | 47 | | | | | | | | | | | | 56 |
| 402 | 8 | 37 | | | | | | | | | | | | 57 |
| 946 | 124 | 52 | | | | | | | | | | | | 58 |
| | | | | | | | | | | | | | | 59A |
| 36 | | 1 | | | | | | | | | | | | 59B |
| 714 | | 6 | | | | | | | | | | | | 60 |
| 2 | | 235 | | | | | | | | | | | | 61 |
| 123,785 | 67 | 184 | | | | | | | | | | | | 62 |
| 1,232 | 20,272 | 1 | | | | | | | | | | | | 63 |
| 137 | 10 | 47,679 | | | | | | | | | | | | 64 |
| | | | 71,472 | | | | | | | | | | | 65A |
| | | | | 228 | | | | | | | | | | 65B |
| | | | | 228,076 | | | | | | | | 16,582 | | 65C |
| | | | | | 35,794 | | | | | | | | | 65D |
| | | | | | | 135,881 | | | | | | | | 65E |
| | | | | | | 3,750 | | | | | | | | 66 |
| | | | 772 | 1,881 | 276 | | 39,395 | | | | | | | 67 |
| | | | | | | | | 343,786 | | | | | | 68 |
| | | | | | | | | | 5,576 | | | | | 69 |
| | | | | | | | | | | 199,174 | | | | 70 |
| | | | | | | | | | | | 98,811 | | | 71 |
| | | | | | | | | | | | | 543 | | 72 |
| | | | | | | | | | | | | 207 | | 73 |
| | | | | | | | | | | | | 22,384 | | 74 |
| | | | | | | | | | | | | | 812,459 | 75 |
| | | | | | | | | | | | | | | 76 |
| | | | | | | | | | | | | | | 77 |
| | | | | | | | | | | | | | | 78 |
| | | | | | | | | | | | | | | 79 |
| | | | | | | | | | | | | | | 80 |
| | | | | | | | | | | | | | | 81 |
| | | | | | | | | | | | | | | 82 |
| | | | | | | | | | | | | | | 83 |
| | | | | | | | | | | | | | | 84 |
| | | | | | | | | | | | | | | 85 |
| 133,097 | 20,721 | 50,585 | 79,667 | 230,207 | 38,469 | 142,881 | 39,469 | 343,786 | 5,576 | 230,091 | 103,121 | 68,432 | 812,459 | T |

Table 1.—The Make of Commodities

[Millions of dollar]

| Industry number | For the distribution of industries producing a commodity, read the column for that commodity | 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, including own-account software | Legal, engineering, accounting, and related services |
|-----------------|----------------------------------------------------------------------------------------------|--------------|---------|-----------|--------------------------|---------------------------|---------------------------|--------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------|
| | For the distribution of commodities produced by an industry, read the row for that industry | | | | | | | | | |
| | Commodity number | 69B | 70A | 70B | 71A | 71B | 72A | 72B | 73A | 73B |
| 01 | Livestock and livestock products..... | | | | | | | | | |
| 02 | Other agricultural products..... | | | | | | | | | |
| 03 | Forestry and fishery products..... | | | | | | | | | |
| 04 | Agricultural, forestry, and fishery services..... | | | | | | | | | |
| 05+06 | Metallic ores mining..... | | | | | | | | | |
| 07 | Coal mining..... | | | | | | | | | |
| 08 | Crude petroleum and natural gas..... | | | | | | | | | |
| 09+10 | Nonmetallic minerals mining..... | | | | | | | | | |
| 11 | New construction, including own-account construction..... | | | | | | | | | |
| 12 | Maintenance and repair construction, including own-account construction..... | | | | | | | | | |
| 13 | Ordnance and accessories..... | | | | | | | | | |
| 14 | Food and kindred products..... | | | | | | | | | |
| 15 | Tobacco products..... | | | | | | | | | |
| 16 | Broad and narrow fabrics, yarn and thread mills..... | | | | | | | | | |
| 17 | Miscellaneous textile goods and floor coverings..... | | | | | | | | | |
| 18 | Apparel..... | | | | | | | | | |
| 19 | Miscellaneous fabricated textile products..... | | | | | | | | | |
| 20+21 | Lumber and wood products..... | | | | | | | | | |
| 22+23 | Furniture and fixtures..... | | | | | | | | | |
| 24 | Paper and allied products, except containers..... | | | | | | | | | |
| 25 | Paperboard containers and boxes..... | | | | | | | | | |
| 26A | Newspapers and periodicals..... | | | | | | | | | |
| 26B | Other printing and publishing..... | | | | | | | | | |
| 27A | Industrial and other chemicals..... | | | | | | | | | |
| 27B | Agricultural fertilizers and chemicals..... | | | | | | | | | |
| 28 | Plastics and synthetic materials..... | | | | | | | | | |
| 29A | Drugs..... | | | | | | | | | |
| 29B | Cleaning and toilet preparations..... | | | | | | | | | |
| 30 | Paints and allied products..... | | | | | | | | | |
| 31 | Petroleum refining and related products..... | | | | | | | | | |
| 32 | Rubber and miscellaneous plastics products..... | | | | | | | | | |
| 33+34 | Footwear, leather, and leather products..... | | | | | | | | | |
| 35 | Glass and glass products..... | | | | | | | | | |
| 36 | Stone and clay products..... | | | | | | | | | |
| 37 | Primary iron and steel manufacturing..... | | | | | | | | | |
| 38 | Primary nonferrous metals manufacturing..... | | | | | | | | | |
| 39 | Metal containers..... | | | | | | | | | |
| 40 | Heating, plumbing, and fabricated structural metal products..... | | | | | | | | | |
| 41 | Screw machine products and stampings..... | | | | | | | | | |
| 42 | Other fabricated metal products..... | | | | | | | | | |
| 43 | Engines and turbines..... | | | | | | | | | |
| 44+45 | Farm, construction, and mining machinery..... | | | | | | | | | |
| 46 | Materials handling machinery and equipment..... | | | | | | | | | |
| 47 | Metalworking machinery and equipment..... | | | | | | | | | |
| 48 | Special industry machinery and equipment..... | | | | | | | | | |
| 49 | General industrial machinery and equipment..... | | | | | | | | | |
| 50 | Miscellaneous machinery, except electrical..... | | | | | | | | | |
| 51 | Computer and office equipment..... | | | | | | | | 820 | |
| 52 | Service industry machinery..... | | | | | | | | | |
| 53 | Electrical industrial equipment and apparatus..... | | | | | | | | | |
| 54 | Household appliances..... | | | | | | | | | |
| 55 | Electric lighting and wiring equipment..... | | | | | | | | | |
| 56 | Audio, video, and communication equipment..... | | | | | | | | | |
| 57 | Electronic components and accessories..... | | | | | | | | | |
| 58 | Miscellaneous electrical machinery and supplies..... | | | | | | | | | |
| 59A | Motor vehicles (passenger cars and trucks)..... | | | | | | | | | |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts..... | | | | | | | | | |
| 60 | Aircraft and parts..... | | | | | | | | | |
| 61 | Other transportation equipment..... | | | | | | | | | |
| 62 | Scientific and controlling instruments..... | | | | | | | | | |
| 63 | Ophthalmic and photographic equipment..... | | | | | | | | | |
| 64 | Miscellaneous manufacturing..... | | | | | | | | | |
| 65A | Railroads and related services; passenger ground transportation..... | | | | | | | | | |
| 65B | Motor freight transportation and warehousing..... | | | | | | | | | |
| 65C | Water transportation..... | | | | | | | | | |
| 65D | Air transportation..... | | | | | | | | | |
| 65E | Pipelines, freight forwarders, and related services..... | | | | | | | | | |
| 66 | Communications, except radio and TV..... | | | | | | | | | |
| 67 | Radio and TV broadcasting..... | | | | | | | | | |
| 68A | Electric services (utilities)..... | | | | | | | | | |
| 68B | Gas production and distribution (utilities)..... | | | | | | | | | |
| 68C | Water and sanitary services..... | | | | | | | | | |
| 69A | Wholesale trade..... | | | | | | | | | |
| 69B | Retail trade..... | 739,852 | | | | | | | | |
| 70A | Finance..... | | 729,220 | 691 | | | | | | |
| 70B | Insurance..... | | | 342,381 | | | | | | |
| 71A | Owner-occupied dwellings..... | | | | 631,659 | | | | | |
| 71B | Real estate and royalties..... | | | 365 | | 789,242 | | | | |
| 72A | Hotels and lodging places..... | | | | | 985 | 82,286 | | | |
| 72B | Personal and repair services (except auto)..... | | | | | | | 126,434 | | |
| 73A | Computer and data processing services, including own-account software..... | | | | | | | | 359,931 | |
| 73B | Legal, engineering, accounting, and related services..... | | | | | | | | 681 | 368,527 |
| 73C | Other business and professional services, except medical..... | | | | | | | 707 | 860 | 1,784 |
| 73D | Advertising..... | | | | | | | | | |
| 74 | Eating and drinking places..... | | | | | | | | | |
| 75 | Automotive repair and services..... | | | | | | | | | |
| 76 | Amusements..... | | | | | | | | | |
| 77A | Health services..... | | | | | | | | | |
| 77B | Educational and social services, and membership organizations..... | | | | | | | | | |
| 78 | Federal Government enterprises..... | 2,153 | | 1,138 | | 489 | | 2 | | |
| 79 | State and local government enterprises..... | 1,803 | 61 | 20 | | 12,094 | | | | |
| 82 | General government industry..... | | | | | | | | | |
| 84 | Household industry..... | | | | | | | | | |
| 85 | Inventory valuation adjustment..... | | | | | | | | | |
| T | Total commodity output..... | 743,808 | 729,281 | 344,595 | 631,659 | 802,810 | 82,286 | 127,143 | 362,292 | 370,311 |

by Industries, 1998—Continued
at producers' prices]

| 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 | Scrap, used and second-hand goods | General government industry | Household industry | Inventory valuation adjustment | Total industry output | Industry number |
|----------------------------------------------------------|-------------|----------------------------|--------------------------------|------------|-----------------|---------------------------------------------------------------|--------------------------------|----------------------------------------|-----------------------------------|-----------------------------|--------------------|--------------------------------|-----------------------|-----------------|
| 73C | 73D | 74 | 75 | 76 | 77A | 77B | 78 | 79 | 81 | 82 | 84 | 85 | | |
| | | | | 835 | | | | | | | | | 100,499 | 01 |
| | | | | 788 | | | | | | | | | 126,538 | 02 |
| | | | | | | | | | | | | | 11,212 | 03 |
| | | | | | | | | | | | | | 45,042 | 04 |
| | | | | | | | | | | | | | 11,404 | 05+06 |
| | | | | | | | | | | | | | 22,782 | 07 |
| | | | | | | | | | | | | | 95,850 | 08 |
| | | | | | | | | | | | | | 17,702 | 09+10 |
| | | | | | | | | | | | | | 696,617 | 11 |
| | | | | | | | | | | | | | 309,562 | 12 |
| | | | | | | | | | | | | | 22,899 | 13 |
| | | | | | | | | | | | | | 493,690 | 14 |
| | | | | | | | | | | | | | 46,203 | 15 |
| | | | | | | | | | | | | | 48,168 | 16 |
| | | | | | | | | | | | | | 21,987 | 17 |
| | | | | | | | | | | | | | 67,603 | 18 |
| | | | | | | | | | | | | | 25,501 | 19 |
| | | | | | | | | | 40 | | | | 118,243 | 20+21 |
| | | | | | | | | | 29 | | | | 65,889 | 22+23 |
| | | | | | | | | | 117 | | | | 119,369 | 24 |
| | | | | | | | | | 203 | | | | 42,118 | 25 |
| | | | | | | | | | | | | | 73,019 | 26A |
| | | | | | | | | | 66 | | | | 139,219 | 26B |
| | | | | | | | | | 14 | | | | 134,380 | 27A |
| | | | | | | | | | | | | | 23,736 | 27B |
| | | | | | | | | | 65 | | | | 62,959 | 28 |
| | | | | | | | | | 8 | | | | 96,716 | 29A |
| | | | | | | | | | 1 | | | | 49,864 | 29B |
| | | | | | | | | | | | | | 18,315 | 30 |
| | | | | | | | | | 26 | | | | 133,536 | 31 |
| | | | | | | | | | 97 | | | | 160,122 | 32 |
| | | | | | | | | | | | | | 8,266 | 33+34 |
| | | | | | | | | | 4 | | | | 22,314 | 35 |
| | | | | | | | | | 20 | | | | 68,172 | 36 |
| | | | | | | | | | | | | | 103,994 | 37 |
| | | | | | | | | | 6 | | | | 85,937 | 38 |
| | | | | | | | | | | | | | 13,340 | 39 |
| | | | | | | | | | 28 | | | | 75,945 | 40 |
| | | | | | | | | | 650 | | | | 55,355 | 41 |
| | | | | | | | | | 9 | | | | 79,666 | 42 |
| | | | | | | | | | 23 | | | | 26,207 | 43 |
| | | | | | | | | | 32 | | | | 56,596 | 44+45 |
| | | | | | | | | | 5 | | | | 14,820 | 46 |
| | | | | | | | | | 10 | | | | 38,502 | 47 |
| | | | | | | | | | 5 | | | | 32,818 | 48 |
| | | | | | | | | | 2 | | | | 42,237 | 49 |
| | | | | | | | | | 11 | | | | 37,931 | 50 |
| | | | | | | | | | 1 | | | | 104,722 | 51 |
| | | | | | | | | | | | | | 40,395 | 52 |
| | | | | | | | | | | | | | 39,302 | 53 |
| | | | | | | | | | | | | | 22,416 | 54 |
| | | | | | | | | | 23 | | | | 27,109 | 55 |
| | | | | | | | | | | | | | 89,532 | 56 |
| | | | | | | | | | | | | | 132,387 | 57 |
| | | | | | | | | | | | | | 26,867 | 58 |
| | | | | | | | | | 3 | | | | 229,740 | 59A |
| | | | | | | | | | 256 | | | | 137,050 | 59B |
| | | | | | | | | | | | | | 126,706 | 60 |
| | | | | | | | | | 10 | | | | 44,372 | 61 |
| | | | | | | | | | 5 | | | | 130,687 | 62 |
| | | | | | | | | | | | | | 23,584 | 63 |
| | | | | | | | | | 3 | | | | 53,079 | 64 |
| | | | | | | | | | 5 | | | | 71,704 | 65A |
| | | | | | | | | | | | | | 244,658 | 65B |
| | | | | | | | | | | | | | 35,794 | 65C |
| | | | | | | | | | | | | | 135,881 | 65D |
| | | | | | | | | | | | | | 46,074 | 65E |
| | | | | | | | | | | | | | 348,829 | 66 |
| | | | | | | | | | | | | | 45,064 | 67 |
| | | | | | | | | | | | | | 199,717 | 68A |
| | | | | | | | | | | | | | 99,018 | 68B |
| | | | | | | | | | | | | | 23,568 | 68C |
| | | | | | | | | | | | | | 812,459 | 69A |
| | | | | | | | | | | | | | 739,852 | 69B |
| | | | | | | | | | | | | | 783,906 | 70A |
| | | | | | | | | | | | | | 342,381 | 70B |
| | | | | | | | | | | | | | 631,659 | 71A |
| | | | | | | | | | | | | | 789,607 | 71B |
| | | | | | | | | | | | | | 83,270 | 72A |
| | | | | | | | | | | | | | 126,711 | 72B |
| | | | | | | | | | | | | | 359,931 | 73A |
| | | | | | | | | | | | | | 376,298 | 73B |
| | | | | | | | | | | | | | 612,952 | 73C |
| | | | | | | | | | | | | | 45,644 | 73D |
| | | | | | | | | | | | | | 374,198 | 74 |
| | | | | | | | | | | | | | 209,641 | 75 |
| | | | | | | | | | | | | | 202,629 | 76 |
| | | | | | | | | | | | | | 764,606 | 77A |
| | | | | | | | | | | | | | 323,751 | 77B |
| | | | | | | | | | | | | | 93,009 | 78 |
| | | | | | | | | | | | | | 128,639 | 79 |
| | | | | | | | | | | | | | 954,171 | 82 |
| | | | | | | | | | | | | | 14,351 | 84 |
| | | | | | | | | | | | | | 21,538 | 85 |
| | | | | | | | | | | | | | 15,432,301 | T |
| 600,791 | 198,947 | 374,737 | 264,812 | 204,820 | 763,827 | 322,753 | 80,223 | 44,746 | 2,597 | 954,171 | 14,351 | 21,538 | 15,432,301 | |

Table 2.—The Use of Commodities
[Millions of dollars]

| Commodity number | For the distribution of output of a commodity, read the row for that commodity | Personal consumption expenditures | Gross private fixed investment | Change in business inventories | Exports of goods and services | Imports of goods and services |
|------------------|---------------------------------------------------------------------------------|-----------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|
| | For the composition of inputs to an industry, read the column for that industry | | | | | |
| | Industry number | 91 | 92 | 93 | 94 | 95 |
| 01 | Livestock and livestock products | 4,203 | | -142 | 958 | -2,575 |
| 02 | Other agricultural products | 24,672 | | 1,395 | 16,666 | -12,326 |
| 03 | Forestry and fishery products | 4,715 | | -17 | 1,905 | -8,529 |
| 04 | Agricultural, forestry, and fishery services | 1,006 | | | 34 | -8 |
| 05-06 | Metallic ores mining | | 727 | 32 | 1,025 | 1,300 |
| 07 | Coal mining | 55 | | 414 | 2,033 | -325 |
| 08 | Crude petroleum and natural gas | | 229 | -71 | 3,173 | -47,240 |
| 09-10 | Nonmetallic minerals mining | 50 | | 11 | 730 | -1,204 |
| 11 | New construction, including own-account construction | | 542,027 | | | |
| 12 | Maintenance and repair construction, including own-account construction | | 35,062 | | 78 | |
| 13 | Ordinance and accessories | 1,555 | 241 | 122 | 2,890 | -817 |
| 14 | Food and kindred products | 290,997 | | 1,343 | 26,701 | -30,188 |
| 15 | Tobacco products | 35,717 | | 2,126 | 5,965 | -1,068 |
| 16 | Broad and narrow fabrics, yarn and thread mills | 1,898 | | 356 | 3,307 | -5,456 |
| 17 | Miscellaneous textile goods and floor coverings | 7,134 | 2,865 | 172 | 2,280 | -2,683 |
| 18 | Apparel | 100,336 | | 2,108 | 8,454 | -62,541 |
| 19 | Miscellaneous fabricated textile products | 16,506 | | 407 | 995 | -5,140 |
| 20-21 | Lumber and wood products | 3,264 | 10,846 | 1,311 | 5,030 | -14,996 |
| 22-23 | Furniture and fixtures | 33,174 | 24,313 | 601 | 4,303 | -13,662 |
| 24 | Paper and allied products, except containers | 16,342 | | 978 | 10,859 | -16,176 |
| 25 | Paperboard containers and boxes | 470 | | 415 | 1,319 | -565 |
| 26A | Newspapers and periodicals | 17,878 | | -36 | 782 | -237 |
| 26B | Other printing and publishing | 23,156 | | 1,091 | 3,685 | -3,031 |
| 27A | Industrial and other chemicals | 2,179 | 1,694 | 326 | 23,140 | -22,028 |
| 27B | Agricultural fertilizers and chemicals | 2,627 | | 229 | 4,723 | -3,659 |
| 28 | Plastics and synthetic materials | | | 1 | 12,536 | -7,612 |
| 29A | Drugs | 73,132 | | 2,225 | 11,098 | -31,473 |
| 29B | Cleaning and toilet preparations | 37,464 | | 721 | 4,405 | -3,280 |
| 30 | Paints and allied products | 618 | | 126 | 1,209 | -516 |
| 31 | Petroleum refining and related products | 50,408 | | -1,384 | 8,499 | -11,385 |
| 32 | Rubber and miscellaneous plastics products | 20,739 | 351 | 1,437 | 12,234 | -21,521 |
| 33-34 | Footwear, leather, and leather products | 20,116 | | 181 | 1,799 | -18,382 |
| 35 | Glass and glass products | 2,186 | | 303 | 2,346 | -3,853 |
| 36 | Stone and clay products | 3,569 | | 524 | 2,324 | -8,539 |
| 37 | Primary iron and steel manufacturing | 77 | 47 | 1,685 | 4,859 | -21,913 |
| 38 | Primary nonferrous metals manufacturing | 77 | 67 | 9,667 | 713 | -19,557 |
| 39 | Metal containers | | 69 | 169 | 303 | -296 |
| 40 | Heating, plumbing, and fabricated structural metal products | 480 | 4,483 | 614 | 3,135 | -2,523 |
| 41 | Screw machine products and stampings | 1,912 | | 511 | 2,728 | -2,889 |
| 42 | Other fabricated metal products | 5,750 | 3,616 | 1,213 | 8,938 | -16,202 |
| 43 | Engines and turbines | 226 | 4,364 | 175 | 9,359 | -4,490 |
| 44-45 | Farm, construction, and mining machinery | 496 | 39,916 | 1,727 | 14,200 | -11,273 |
| 46 | Materials handling machinery and equipment | | 11,180 | 238 | 2,223 | -3,665 |
| 47 | Metalworking machinery and equipment | 1,340 | 30,195 | 190 | 6,017 | -11,724 |
| 48 | Special industry machinery and equipment | 225 | 28,213 | -41 | 6,892 | -10,248 |
| 49 | General industrial machinery and equipment | | 16,973 | 666 | 11,392 | -12,896 |
| 50 | Miscellaneous machinery, except electrical | 120 | 854 | 556 | 4,036 | -2,768 |
| 51 | Computer and office equipment | 12,869 | 67,317 | -1,235 | 37,791 | -71,783 |
| 52 | Service industry machinery | 1,162 | 10,539 | 603 | 5,221 | -3,656 |
| 53 | Electrical industrial equipment and apparatus | 277 | 10,654 | 466 | 6,356 | -10,343 |
| 54 | Household appliances | 17,421 | 3,774 | 261 | 2,947 | -6,846 |
| 55 | Electric lighting and wiring equipment | 2,171 | 315 | 346 | 4,594 | -7,785 |
| 56 | Audio, video, and communication equipment | 27,945 | 48,634 | 2,398 | 19,890 | -40,509 |
| 57 | Electronic components and accessories | 252 | | 311 | 38,422 | -42,249 |
| 58 | Miscellaneous electrical machinery and supplies | 8,843 | 2,785 | 364 | 7,701 | -12,505 |
| 59A | Motor vehicles (passenger cars and trucks) | 140,843 | 145,479 | 1,180 | 23,673 | -93,073 |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts | 6,442 | 10,944 | 690 | 28,251 | -33,520 |
| 60 | Aircraft and parts | 322 | 20,045 | 8,704 | 59,631 | -20,384 |
| 61 | Other transportation equipment | 18,508 | 11,905 | 682 | 4,925 | -5,958 |
| 62 | Scientific and controlling instruments | 8,049 | 59,230 | 932 | 29,163 | -23,986 |
| 63 | Ophthalmic and photographic equipment | 7,685 | 7,464 | 375 | 4,070 | -10,756 |
| 64 | Miscellaneous manufacturing | 53,099 | 7,805 | 1,524 | 6,033 | -36,292 |
| 65A | Railroads and related services; passenger ground transportation | 26,601 | 1,301 | 242 | 5,076 | -199 |
| 65B | Motor freight transportation and warehousing | 36,578 | 6,503 | 838 | 15,211 | -1,910 |
| 65C | Water transportation | 6,440 | 7 | 10 | 9,420 | 4,658 |
| 65D | Air transportation | 56,033 | 2,684 | 135 | 29,726 | -16,789 |
| 65E | Pipelines, freight forwarders, and related services | 4,482 | | -33 | 3,125 | |
| 66 | Communications, except radio and TV | 144,911 | 7,501 | | 6,613 | |
| 67 | Radio and TV broadcasting | 3,750 | | | | |
| 68A | Electric services (utilities) | 96,346 | | | 453 | -1,126 |
| 68B | Gas production and distribution (utilities) | 32,546 | | 58 | 420 | |
| 68C | Water and sanitary services | 29,793 | | | 64 | |
| 69A | Wholesale trade | 213,698 | 87,088 | 5,127 | 70,265 | 19,586 |
| 69B | Retail trade | 659,713 | 25,387 | | 33 | |
| 70A | Finance | 336,268 | | | 33,197 | -891 |
| 70B | Insurance | 196,833 | | | 3,246 | -8,987 |
| 71A | Owner-occupied dwellings | 631,659 | | | | |
| 71B | Real estate and royalties | 204,249 | 51,135 | | 36,711 | -18 |
| 72A | Hotels and lodging places | 41,874 | | | 120 | |
| 72B | Personal and repair services (except auto) | 91,759 | | | 78 | |
| 73A | Computer and data processing services, including own-account software | 10,252 | 145,416 | 20 | 4,571 | -596 |
| 73B | Legal, engineering, accounting, and related services | 60,186 | 21,552 | | 9,694 | -1,796 |
| 73C | Other business and professional services, except medical | 31,190 | | | 9,811 | -3,750 |
| 73D | Advertising | 1,090 | | | 774 | -1,254 |
| 74 | Eating and drinking places | 329,080 | | | 739 | |
| 75 | Automotive repair and services | 153,378 | | 5 | 1,591 | -6 |
| 76 | Amusements | 127,297 | | | 10,274 | -344 |
| 77A | Health services | 838,616 | | | 227 | -10 |
| 77B | Educational and social services, and membership organizations | 325,789 | | | 577 | -566 |
| 78 | Federal Government enterprises | 8,731 | | | 290 | |
| 79 | State and local government enterprises | 32,842 | | | | |
| 80 | Noncomparable imports | 47,744 | | | | |
| 81 | Scrap, used and secondhand goods | 35,726 | -48,174 | 1,871 | 6,057 | -127,801 |
| 82 | General government industry | | | | | -5,748 |
| 83 | Rest of the world adjustment to final uses | -86,530 | | | 87,374 | -35 |
| 84 | Household industry | 14,351 | | | | |
| 85 | Inventory valuation adjustment | | | 21,538 | | |
| I | Total intermediate inputs | | | | | |
| VA | Value added | | | | | |
| T | Total Industry Output | 5,856,029 | 1,465,618 | 73,127 | 895,637 | -1,047,382 |

* Less than \$500,000.

Table 5a.—Industry-by-Commodity Total Requirements Backward Linkages, 1998

| Commodity number | Description | Backward linkage | Commodity number | Description | Backward linkage |
|------------------|-------------------------------------------------------------------|------------------|------------------|-----------------------------------------------------------------------|------------------|
| 01 | Livestock and livestock products | 2.958 | 52 | Service industry machinery | 2.111 |
| 02 | Other agricultural products | 1.983 | 53 | Electrical industrial equipment and apparatus | 1.988 |
| 03 | Forestry and fishery products | 2.067 | 54 | Household appliances | 2.356 |
| 04 | Agricultural, forestry, and fishery services | 1.759 | 55 | Electric lighting and wiring equipment | 1.996 |
| 05+06 | Metallic ores mining | 2.226 | 56 | Audio, video, and communication equipment | 2.285 |
| 07 | Coal mining | 2.013 | 57 | Electronic components and accessories | 2.178 |
| 08 | Crude petroleum and natural gas | 2.744 | 58 | Miscellaneous electrical machinery and supplies | 2.159 |
| 09+10 | Nonmetallic minerals mining | 1.755 | 59A | Motor vehicles (passenger cars and trucks) | 2.823 |
| 11 | New construction | 2.040 | 59B | Truck and bus bodies, trailers, and motor vehicles parts | 2.474 |
| 12 | Maintenance and repair construction | 2.003 | 60 | Aircraft and parts | 1.978 |
| 13 | Ordinance and accessories | 1.833 | 61 | Other transportation equipment | 2.087 |
| 14 | Food and kindred products | 2.626 | 62 | Scientific and controlling instruments | 1.874 |
| 15 | Tobacco products | 1.627 | 63 | Ophthalmic and photographic equipment | 1.699 |
| 16 | Broad and narrow fabrics, yarn and thread mills | 2.359 | 64 | Miscellaneous manufacturing | 1.957 |
| 17 | Miscellaneous textile goods and floor coverings | 2.456 | 65A | Railroads and related services; passenger ground transportation | 1.734 |
| 18 | Apparel | 2.529 | 65B | Motor freight transportation and warehousing | 1.881 |
| 19 | Miscellaneous fabricated textile products | 2.308 | 65C | Water transportation | 2.141 |
| 20+21 | Lumber and wood products | 2.295 | 65D | Air transportation | 1.865 |
| 22+23 | Furniture and fixtures | 2.053 | 65E | Pipelines, freight forwarders, and related services | 1.812 |
| 24 | Paper and allied products, except containers | 2.160 | 66 | Communications, except radio and TV | 1.777 |
| 25 | Paperboard containers and boxes | 2.285 | 67 | Radio and TV broadcasting | 2.133 |
| 26A | Newspapers and periodicals | 1.648 | 68A | Electric services (utilities) | 1.668 |
| 26B | Other printing and publishing | 1.793 | 68B | Gas production and distribution (utilities) | 2.963 |
| 27A | Industrial and other chemicals | 2.297 | 68C | Water and sanitary services | 1.965 |
| 27B | Agricultural fertilizers and chemicals | 2.349 | 69A | Wholesale trade | 1.596 |
| 28 | Plastics and synthetic materials | 2.370 | 69B | Retail trade | 1.557 |
| 29A | Drugs | 1.747 | 70A | Finance | 1.724 |
| 29B | Cleaning and toilet preparations | 2.126 | 70B | Insurance | 2.074 |
| 30 | Paints and allied products | 2.162 | 71A | Owner-occupied dwellings | 1.255 |
| 31 | Petroleum refining and related products | 2.988 | 71B | Real estate and royalties | 1.430 |
| 32 | Rubber and miscellaneous plastics products | 2.146 | 72A | Hotels and lodging places | 1.788 |
| 33+34 | Footwear, leather, and leather products | 2.645 | 72B | Personal and repair services (except auto) | 1.685 |
| 35 | Glass and glass products | 2.045 | 73A | Computer and data processing services | 1.767 |
| 36 | Stone and clay products | 1.943 | 73B | Legal, engineering, accounting, and related services | 1.547 |
| 37 | Primary iron and steel manufacturing | 2.172 | 73C | Other business and professional services, except medical | 1.443 |
| 38 | Primary nonferrous metals manufacturing | 2.374 | 73D | Advertising | 1.729 |
| 39 | Metal containers | 2.927 | 74 | Eating and drinking places | 2.046 |
| 40 | Heating, plumbing, and fabricated structural metal products | 2.089 | 75 | Automotive repair and services | 1.895 |
| 41 | Screw machine products and stampings | 2.139 | 76 | Amusements | 1.724 |
| 42 | Other fabricated metal products | 2.007 | 77A | Health services | 1.695 |
| 43 | Engines and turbines | 2.254 | 77B | Educational and social services, and membership organizations | 1.812 |
| 44+45 | Farm, construction, and mining machinery | 2.079 | 78 | Federal Government enterprises | 1.641 |
| 46 | Materials handling machinery and equipment | 2.148 | 79 | State and local government enterprises | 2.023 |
| 47 | Metalworking machinery and equipment | 1.832 | 80 | Noncomparable imports | 0.000 |
| 48 | Special industry machinery and equipment | 2.034 | 81 | Scrap, used and secondhand goods | 0.000 |
| 49 | General industrial machinery and equipment | 1.943 | 82 | General government industry | 1.000 |
| 50 | Miscellaneous machinery, except electrical | 1.810 | 83 | Rest of the world adjustment to final uses | 0.000 |
| 51 | Computer and office equipment | 2.656 | 84 | Household industry | 1.000 |
| | | | 85 | Inventory valuation adjustment | 1.000 |

NOTE.—The backward linkage for a commodity represents the total output required from all industries to supply \$1 of final demand for that commodity.