

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.

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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
 [Millions of dollars]

Commodity number	Description	Output			Imports			Total consumption		
		1992	1997	1998	1992	1997	1998	1992	1997	1998
	ALL COMMODITIES.....	10,857,353	14,704,030	15,432,301	631,637	990,973	1,047,382	11,487,126	15,632,077	16,406,556
	AGRICULTURE, FORESTRY, AND FISHERIES									
	Total.....	235,591	295,106	280,503	14,601	22,910	23,438	245,345	314,319	302,706
01	Livestock and livestock products.....	89,375	100,418	97,795	2,061	2,558	2,575	90,579	103,363	100,512
02	Other agricultural products.....	104,546	136,349	120,594	6,860	11,969	12,326	107,371	144,299	131,525
03	Forestry and fishery products.....	11,865	14,925	14,642	5,659	8,371	8,529	17,569	23,231	23,188
04	Agricultural, forestry, and fishery services.....	29,805	43,414	47,473	21	12	8	29,826	43,426	47,481
	MINING									
	Total.....	147,562	163,793	137,176	43,527	64,199	47,469	191,196	227,987	184,258
05+06	Metallic ores mining.....	10,739	12,879	11,394	-1,488	-1,921	-1,300	9,275	10,945	10,062
07	Coal mining.....	26,917	22,973	22,787	133	306	325	27,053	23,237	22,697
08	Crude petroleum and natural gas.....	97,623	112,799	87,491	43,984	64,550	47,240	141,712	177,546	134,802
09+10	Nonmetallic minerals mining.....	12,283	15,143	15,505	898	1,263	1,204	13,156	16,259	16,698
	CONSTRUCTION									
	Total.....	679,330	944,308	1,006,179				679,330	944,308	1,006,179
11	New construction, including own-account construction.....	456,949	640,725	696,617				456,949	640,725	696,617
12	Maintenance and repair construction, including own-account construction.....	222,381	303,583	309,562				222,381	303,583	309,562
	MANUFACTURING									
	Total.....	2,890,437	3,807,147	3,871,789	485,599	769,466	828,893	3,372,470	4,538,054	4,658,989
13	Ordinance and accessories.....	22,217	19,827	19,178	909	1,075	817	24,881	20,673	19,873
14	Food and kindred products.....	408,557	485,921	493,653	21,850	28,225	30,188	430,457	512,209	522,498
15	Tobacco products.....	40,147	41,558	46,206	1,587	1,411	1,068	39,597	41,250	45,148
16	Broad and narrow fabrics, yarn and thread mills.....	37,528	44,147	44,267	4,397	5,349	5,456	41,448	49,550	49,367
17	Miscellaneous fabricated textile products.....	17,983	21,522	22,613	1,879	2,481	2,683	19,843	23,863	25,123
18	Apparel.....	68,637	71,751	66,520	38,484	56,319	62,541	103,224	124,639	126,953
19	Miscellaneous fabricated textile products.....	21,021	27,251	27,692	2,870	4,505	5,140	23,421	31,268	32,425
20+21	Lumber and wood products.....	87,127	117,788	119,168	7,143	14,330	14,996	93,607	130,466	132,853
22+23	Furniture and fixtures.....	42,849	60,223	65,126	6,026	11,354	13,662	48,690	71,574	78,187
24	Paper and allied products, except containers.....	98,497	114,078	116,303	10,715	15,056	16,176	108,441	128,036	131,502
25	Paperboard containers and boxes.....	31,743	38,413	41,730	247	520	565	31,713	38,609	41,880
26A	Newspapers and periodicals.....	19,895	24,336	25,053	199	222	237	20,156	24,681	25,325
26B	Other printing and publishing.....	81,202	98,353	100,513	1,783	2,822	3,031	82,232	99,669	102,453
27A	Industrial and other chemicals.....	113,359	149,370	135,276	14,375	22,147	22,028	127,005	170,720	156,978
27B	Agricultural fertilizers and chemicals.....	17,850	24,613	24,270	2,330	3,275	3,659	20,333	27,406	27,701
28	Plastics and synthetic materials.....	50,944	67,749	65,711	3,827	7,283	7,612	54,532	74,491	73,323
29A	Drugs.....	62,321	85,355	96,816	13,193	26,766	31,473	74,222	109,561	126,064
29B	Cleaning and toilet preparations.....	40,557	52,380	50,430	2,052	3,019	3,280	42,423	55,009	52,988
30	Paints and allied products.....	14,379	18,346	18,728	200	459	516	14,537	18,654	19,119
31	Petroleum refining and related products.....	149,831	175,401	139,618	11,582	13,656	11,385	161,367	188,880	152,387
32	Rubber and miscellaneous plastics products.....	111,813	156,843	160,807	13,253	20,071	21,521	124,071	175,471	180,892
33+34	Footwear, leather, and leather products.....	9,538	9,532	8,654	12,824	17,976	18,382	22,031	27,203	26,855
35	Glass and glass products.....	17,981	22,613	22,642	2,159	3,698	3,853	19,955	26,012	26,192
36	Stone and clay products.....	42,291	62,304	68,023	4,551	7,563	8,539	47,038	69,356	76,038
37	Primary iron and steel manufacturing.....	73,922	102,368	101,909	10,893	18,137	21,913	85,154	118,840	122,137
38	Primary nonferrous metals manufacturing.....	64,813	87,421	86,308	10,228	18,392	19,557	75,433	105,008	105,153
39	Metal containers.....	13,238	13,021	13,392	201	304	296	13,429	13,227	13,519
40	Heating, plumbing, and fabricated structural metal products.....	49,050	71,140	76,823	1,008	2,059	2,523	50,168	72,486	78,733
41	Screw machine products and stampings.....	34,564	52,688	55,001	2,628	2,751	2,889	36,975	55,184	57,379
42	Other fabricated metal products.....	56,518	78,094	82,284	8,510	14,631	16,202	64,961	91,900	97,274
43	Engines and turbines.....	17,895	24,588	26,658	2,413	3,688	4,490	20,492	28,469	30,974
44+45	Farm, construction, and mining machinery.....	30,946	53,075	55,789	4,754	9,919	11,273	35,423	60,911	65,335
46	Materials handling machinery and equipment.....	8,290	13,945	15,249	1,468	2,949	3,665	9,799	16,777	18,676
47	Metalworking machinery and equipment.....	27,046	40,374	40,638	5,127	10,982	11,724	32,155	50,965	52,173
48	Special industry machinery and equipment.....	20,218	33,615	32,421	5,881	9,782	10,248	26,205	42,951	42,710
49	General industrial machinery and equipment.....	29,678	40,658	40,884	7,796	12,505	12,896	37,554	52,772	53,114
50	Miscellaneous machinery, except electrical.....	24,946	36,739	37,947	1,895	2,587	2,768	26,900	39,001	40,158
51	Computer and office equipment.....	62,088	98,123	99,264	32,687	68,245	71,783	96,016	164,058	172,283
52	Service industry machinery.....	25,801	36,268	37,772	2,243	3,253	3,656	27,879	39,425	40,824
53	Electrical industrial equipment and apparatus.....	28,574	39,837	41,103	5,295	9,492	10,343	33,792	49,163	50,981
54	Household appliances.....	16,833	20,683	22,313	4,072	6,151	6,846	21,001	27,033	28,899

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 C.—Commodity Consumption by Major Sector 1992, 1997, and 1998
[Millions of dollars]

Commodity number	Description	Total intermediate input use			Final uses											
					Personal consumption expenditures			Gross private fixed investment			Exports of goods and services			Government consumption expenditures and gross investment		
		1992	1997	1998	1992	1997	1998	1992	1997	1998	1992	1997	1998	1992	1997	1998
ALL COMMODITIES		4,555,250	6,385,588	6,650,777	4,208,718	5,529,283	5,856,029	851,785	1,327,654	1,465,618	602,609	901,651	895,637	1,265,199	1,487,901	1,538,494
AGRICULTURE, FORESTRY, AND FISHERIES																
	Total.....	197,601	253,487	245,564	27,054	34,735	34,596				19,857	23,495	19,563	833	2,602	2,984
01	Livestock and livestock products.....	85,869	97,732	95,073	3,709	4,398	4,203				800	967	958	201	266	278
02	Other agricultural products.....	71,142	97,925	88,898	19,531	25,205	24,672				16,116	20,223	16,666	582	1,125	1,289
03	Forestry and fishery products.....	13,280	17,843	17,699	3,085	4,344	4,715				2,880	2,272	1,905	-1,676	-1,228	-1,131
04	Agricultural, forestry, and fishery services.....	27,310	39,986	43,894	729	968	1,006				61	33	34	1,726	2,439	2,547
MINING																
	Total.....	183,026	219,446	176,417	107	105	105	73	1,138	956	8,202	7,755	6,961	-212	-457	-180
05+06	Metallic ores mining.....	8,268	8,973	8,603				50	948	727	1,104	1,306	1,025	-147	-282	-293
07	Coal mining.....	23,786	20,756	20,526	68	55	55				3,122	2,344	2,033	77	82	83
08	Crude petroleum and natural gas.....	138,601	174,357	131,408				23	189	229	3,290	3,322	3,173	-202	-321	-8
09+10	Nonmetallic minerals mining.....	12,371	15,361	15,881	39	50	50				686	783	730	60	64	37
CONSTRUCTION																
	Total.....	159,618	215,556	218,971				360,278	521,520	577,089	77	74	78	159,357	207,157	210,040
11	New construction, including own-account construction.....	170	340	271				339,916	488,457	542,027				116,863	151,928	154,318
12	Maintenance and repair construction, including own-account construction.....	159,448	215,216	218,700				20,362	33,063	35,062	77	74	78	42,494	55,229	55,722
MANUFACTURING																
	Total.....	1,639,510	2,224,050	2,260,269	842,150	1,034,046	1,078,057	339,058	544,940	587,174	342,980	527,893	523,300	208,772	207,125	210,188
13	Ordinance and accessories.....	465	385	157	1,473	1,495	1,555	29	291	241	3,592	3,237	2,890	19,322	15,265	15,030
14	Food and kindred products.....	153,699	190,896	193,067	248,010	282,777	290,997				19,630	27,513	26,701	9,118	11,023	11,733
15	Tobacco products.....	3,348	3,479	3,508	30,395	31,748	35,717				5,874	6,062	5,965	-20	-38	-43
16	Broad and narrow fabrics, yarn and thread mills.....	37,127	43,804	43,488	1,683	1,898	1,898				2,359	3,208	3,307	279	640	674
17	Miscellaneous textile goods and floor coverings.....	10,074	11,954	12,673	5,578	6,696	7,134	2,343	2,720	2,865	1,724	2,321	2,280	124	171	173
18	Apparel.....	16,628	17,179	16,114	80,934	97,322	100,336				4,065	8,234	8,454	1,597	1,905	2,050
19	Miscellaneous fabricated textile products.....	10,770	14,014	14,099	11,189	15,477	16,506				810	1,003	995	652	774	825
20+21	Lumber and wood products.....	80,245	110,878	113,386	2,529	3,168	3,264	4,661	9,921	10,846	5,965	6,185	5,030	207	314	328
22+23	Furniture and fixtures.....	5,479	10,408	11,900	21,623	29,643	33,174	16,091	23,332	24,313	2,633	3,865	4,303	2,864	4,326	4,498
24	Paper and allied products, except containers.....	80,994	94,820	98,734	14,921	16,625	16,342				8,567	11,582	10,859	3,959	5,010	5,566
25	Paperboard containers and boxes.....	30,352	36,560	39,714	381	383	470				691	1,304	1,319	289	363	377
26A	Newspapers and periodicals.....	4,401	5,345	5,504	14,339	17,424	17,878				653	791	782	763	1,121	1,162
26B	Other printing and publishing.....	56,500	64,585	65,506	15,282	21,669	23,156				2,984	3,635	3,685	7,466	9,780	10,106
27A	Industrial and other chemicals.....	97,797	132,738	120,141	2,154	2,170	2,179	1,957	1,345	1,694	17,292	25,220	23,140	7,805	9,249	9,824
27B	Agricultural fertilizers and chemicals.....	15,545	20,695	19,688	920	1,430	2,627				3,341	4,638	4,723	527	642	662
28	Plastics and synthetic materials.....	46,036	61,022	60,770							8,477	13,453	12,536	19	16	16
29A	Drugs.....	17,620	28,240	33,858	43,864	63,173	73,132				7,272	10,384	11,098	5,466	7,764	7,976
29B	Cleaning and toilet preparations.....	8,826	11,786	9,841	30,098	37,430	37,664				2,591	4,513	4,405	908	1,280	1,278
30	Paints and allied products.....	12,894	15,609	15,999	480	645	618				745	1,185	1,209	418	1,214	1,293
31	Petroleum refining and related products.....	83,751	99,644	77,317	53,355	62,255	50,408				9,084	10,244	8,499	15,177	16,737	16,163
32	Rubber and miscellaneous plastics products.....	99,363	139,287	143,817	15,051	20,302	20,739	215	335	351	6,905	11,932	12,234	2,537	3,616	3,752
33+34	Footwear, leather, and leather products.....	3,871	4,730	4,632	16,491	20,320	20,116				1,464	1,863	1,799	205	290	307
35	Glass and glass products.....	16,883	21,858	21,310	979	1,299	2,186				1,544	2,518	2,346	549	336	349
36	Stone and clay products.....	42,481	63,039	69,714	2,570	3,432	3,569				1,713	2,455	2,324	274	429	431
37	Primary iron and steel manufacturing.....	81,280	113,138	116,602	36	64	77	16	50	47	3,505	5,049	4,858	317	538	553
38	Primary nonferrous metals manufacturing.....	68,611	94,237	94,933	71	78	77	52	70	67	6,379	10,214	9,667	320	409	409
39	Metal containers.....	13,025	12,807	13,119				38	65		341	328	303	25	27	28
40	Heating, plumbing, and fabricated structural metal products.....	43,481	63,210	69,816	326	559	480	3,612	4,485	4,483	2,061	3,356	3,135	688	816	818
41	Screw machine products and stampings.....	33,140	51,437	52,408	1,345	1,933	1,912				2,171	1,492	2,728	319	322	331
42	Other fabricated metal products.....	51,306	71,608	76,128	4,266	5,623	5,750	2,415	3,454	3,616	4,849	8,428	8,938	2,125	2,787	2,841
43	Engines and turbines.....	10,279	13,972	16,257	169	222	226	3,271	3,656	4,364	5,419	9,890	9,359	1,354	729	768
44+45	Farm, construction, and mining machinery.....	6,049	6,693	7,475	400	258	496	17,803	36,096	39,916	9,002	14,979	14,200	2,169	2,885	3,248
46	Materials handling machinery and equipment.....	2,674	4,393	5,185				5,743	10,017	11,180	1,302	2,284	2,223	80	83	88
47	Metalworking machinery and equipment.....	9,666	13,720	13,908	687	1,091	1,340	17,652	29,340	30,195	3,686	6,139	6,017	464	674	713
48	Special industry machinery and equipment.....	4,224	6,732	7,042	237	231	225	16,820	27,042	28,213	4,510	8,624	6,892	414	322	338
49	General industrial machinery and equipment.....	17,643	22,406	23,807				11,300	17,066	16,973	7,834	12,403	11,392	777	898	941
50	Miscellaneous machinery, except electrical.....	22,989	33,031	33,645	136	120	120	700	832	854	1,962	4,033	4,036	1,113	986	1,503
51	Computer and office equipment.....	24,759	39,902	46,465	5,366	11,375	12,869	36,169	64,375	67,317	22,925	40,337	37,791	6,795	8,069	7,840
52	Service industry machinery.....	14,939	21,846	22,665	910	1,150	1,162	7,376	10,000	10,539	3,320	5,238	5,221	1,334	1,191	1,238
53	Electrical industrial equipment and apparatus.....	21,175	31,026	31,743	200	269	277	6,826	9,505	10,654	4,083	6,479	6,356	1,508	1,885	1,949
54	Household appliances.....	2,658	4,325	4,474	13,100	15,956	17,421	2,668	3,425	3,774	2,329	3,055	2,947	246	272	282
55	Electric lighting and wiring equipment.....	17,691	24,035	25,982	2,023	2,149	2,171	283	288	315	2,839	4,522	4,594	1,063	1,269	1,310
56	Audio, video, and communication equipment.....	12,017	21,231	23,314	21,682	26,825	27,945	24,513	44,024	48,634	9,551	19,525	19,890	8,253	11,639	10,126
57	Electronic components and accessories.....	75,400	144,815	139,150	216	245	252				16,150	39,093	38,422	2,157	1,312	1,247

Table C.—Commodity Consumption by Major Sector 1992, 1997, and 1998—Continued
[Millions of dollars]

Commodity number	Description	Total intermediate input use			Final uses											
					Personal consumption expenditures			Gross private fixed investment			Exports of goods and services			Government consumption expenditures and gross investment		
		1992	1997	1998	1992	1997	1998	1992	1997	1998	1992	1997	1998	1992	1997	1998
MANUFACTURING—Continued																
58	Miscellaneous electrical machinery and supplies.....	13,375	17,956	18,281	6,298	8,196	8,843	2,058	2,516	2,785	5,702	8,817	7,701	1,881	1,962	2,008
59A	Motor vehicles—passenger cars and trucks.....	1,844	2,747	2,477	105,552	131,931	140,843	75,132	137,584	145,479	16,336	25,125	23,672	7,991	9,559	10,099
59B	Truck and bus bodies, trailers, and motor vehicle parts.....	74,459	114,268	119,401	4,277	5,728	6,442	4,981	8,963	10,944	16,995	28,633	28,250	2,509	2,787	2,901
60	Aircraft and parts.....	29,930	27,310	33,433	465	219	322	13,676	13,838	20,045	40,656	48,545	59,631	37,591	26,696	27,626
61	Other transportation equipment	3,092	4,604	4,739	11,958	17,128	18,508	4,741	10,644	11,905	3,354	4,388	4,925	9,753	8,813	9,332
62	Scientific and controlling instruments.....	25,540	34,869	38,546	5,479	6,487	8,049	43,637	54,616	59,230	17,864	28,631	29,163	30,396	20,773	21,163
63	Ophthalmic and photographic equipment.....	9,589	8,967	7,705	6,240	7,815	7,685	6,915	7,746	7,464	3,453	4,322	4,070	4,333	4,497	4,178
64	Miscellaneous manufacturing.....	13,526	15,807	16,638	36,410	49,611	53,099	5,365	7,299	7,805	4,427	6,623	6,032	2,292	2,701	1,779
TRANSPORTATION, COMMUNICATION, AND UTILITIES																
Total.....																
65A	Railroads and related services; passenger ground transportation.....	501,698	668,796	695,452	313,170	418,531	437,478	11,717	16,523	17,996	54,322	69,732	70,106	58,099	70,569	74,784
65B	Motor freight transportation and warehousing.....	32,452	40,100	40,085	19,504	25,156	26,601	957	1,278	1,301	3,973	5,349	5,076	5,201	6,488	6,562
65C	Water transportation.....	110,656	151,259	165,264	25,965	33,873	36,578	4,138	5,837	6,503	10,161	14,754	15,211	7,620	7,186	7,723
65D	Air transportation.....	12,771	14,552	15,779	6,249	6,081	6,440	18	6	7	9,695	10,243	9,420	2,048	2,208	2,156
65E	Pipelines, freight forwarders, and related services.....	39,502	58,626	63,224	36,404	52,422	56,033	1,539	2,519	2,684	23,317	30,591	29,726	6,464	7,659	7,869
66	Communications, except radio and TV.....	22,544	29,961	31,524	3,474	4,326	4,482	.....	.....	.....	2,700	3,090	3,125	240	281	372
67	Radio and TV broadcasting.....	95,074	150,284	166,320	90,397	134,243	144,911	5,065	6,884	7,501	3,596	4,931	6,612	11,809	17,887	18,441
68A	Electric services—utilities.....	835	1,747	1,827	1,839	3,433	3,750	.....	.....	.....	.....	.....	.....	.....	.....	.....
68B	Gas production and distribution—utilities.....	98,868	117,390	110,788	79,337	93,742	96,346	.....	.....	.....	267	283	453	17,918	22,569	23,631
68C	Water and sanitary services.....	61,944	69,097	64,744	29,537	36,565	32,546	.....	.....	.....	548	428	420	4,115	5,087	5,353
68C	Water and sanitary services.....	27,052	35,780	35,898	20,464	28,692	29,793	.....	.....	.....	65	63	64	2,684	1,205	2,677
WHOLESALE AND RETAIL TRADE																
Total.....																
69A	Wholesale trade.....	320,451	448,860	453,157	629,893	823,726	873,411	62,525	106,057	112,475	44,746	73,343	70,298	16,558	21,491	22,215
69B	Retail trade.....	280,569	394,971	394,484	158,445	206,570	213,698	48,167	82,260	87,088	44,726	73,311	70,264	16,088	21,489	22,213
69B	Retail trade.....	39,882	53,889	58,673	471,448	617,156	659,713	14,358	23,797	25,387	20	32	33	470	2	2
FINANCE, INSURANCE, AND REAL ESTATE																
Total.....																
70A	Finance.....	584,145	886,148	987,627	960,078	1,280,702	1,369,009	28,407	43,539	51,135	39,510	69,079	73,154	28,688	36,709	37,315
70B	Insurance.....	163,754	288,601	343,557	198,007	304,148	336,268	.....	.....	.....	17,142	30,822	33,197	12,136	16,669	17,150
71A	Owner-occupied dwellings.....	90,095	146,682	151,107	138,181	189,765	196,833	.....	.....	.....	1,685	3,515	3,246	2,829	3,050	2,397
71B	Real estate and royalties.....	330,296	450,865	492,963	166,640	194,952	204,249	28,407	43,539	51,135	20,683	34,742	36,711	13,723	16,991	17,769
SERVICES																
Total.....																
72A	Hotels and lodging places.....	870,832	1,324,207	1,458,335	1,413,094	1,893,544	2,010,510	80,020	139,971	166,967	19,530	35,226	38,456	9,397	3,836	6,745
72B	Personal and repair services—except auto.....	27,260	36,057	38,642	29,881	40,071	41,874	.....	.....	.....	48	114	120	1,747	1,613	1,649
73A	Computer and data processing services, including own-account software.....	23,579	30,108	31,528	65,602	85,560	91,759	.....	.....	.....	42	74	78	2,793	3,622	3,777
73B	Legal, engineering, accounting, and related services.....	50,237	120,766	142,963	2,444	8,476	10,252	64,235	120,335	145,416	3,092	4,406	4,571	33,003	51,585	59,666
73C	Other business and professional services, except medical.....	179,136	245,113	269,804	45,781	56,367	60,186	15,785	19,636	21,552	5,013	8,542	9,694	7,721	10,318	10,872
73D	Advertising.....	271,050	453,549	518,753	20,917	28,581	31,190	.....	.....	.....	5,677	9,086	9,811	36,373	44,447	44,787
74	Eating and drinking places.....	136,364	184,119	196,008	676	1,053	1,090	.....	.....	.....	531	921	774	1,574	2,231	2,329
75	Automotive repair and services.....	41,383	47,969	47,178	242,151	311,168	329,080	.....	.....	.....	328	710	739	-1,845	-1,905	-2,260
76	Amusements.....	70,073	99,065	104,016	90,099	146,108	153,378	.....	.....	.....	34	1,183	1,591	4,204	5,618	5,829
77A	Health services.....	41,927	66,266	69,355	78,466	117,315	127,297	.....	.....	.....	4,289	9,380	10,274	-1,497	-1,709	-1,762
77B	Educational and social services, and membership organizations.....	13,484	15,923	17,783	611,328	798,000	838,616	.....	.....	.....	26	204	227	-60,218	-88,067	-92,790
77B	Educational and social services, and membership organizations.....	16,339	25,272	22,303	225,749	300,845	325,789	.....	.....	.....	450	607	577	-14,458	-23,918	-25,350
SPECIAL INDUSTRIES																
Total.....																
78	Federal Government enterprises.....	98,369	145,037	154,986	23,172	43,894	52,864	-30,293	-46,033	-48,174	73,385	95,055	93,720	783,707	938,868	974,404
79	State and local government enterprises.....	39,448	61,052	66,367	6,881	8,511	8,731	.....	.....	.....	188	273	290	3,683	4,914	4,835
80	Noncomparable imports.....	6,810	10,107	10,628	22,489	32,220	32,842	.....	.....	.....	.....	.....	.....	863	1,234	1,277
81	Scrap, used and secondhand goods.....	44,964	66,110	69,413	33,009	43,989	47,744	.....	.....	.....	.....	.....	.....	12,063	10,623	10,644
82	General government industry.....	7,147	7,768	8,579	17,187	34,555	35,726	-30,293	-46,033	-48,174	5,872	6,075	6,057	3,479	2,724	4,286
83	Rest of world adjustment to final uses.....	.....	.....	.....	-66,481	-87,844	-86,530	.....	.....	.....	67,325	88,707	87,374	-770	-823	-809
84	Household industry.....	.....	.....	.....	10,087	12,464	14,351	.....	.....	.....	.....	.....	.....	.....	.....	.....
85	Inventory valuation adjustment.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NOTE.—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, personal consumption expenditures, gross private fixed investment, exports, and government purchases.

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			2	
08	Crude petroleum and natural gas.....							22,776			
09+10	Nonmetallic minerals mining.....								87,491		
11	New construction, including own-account construction.....					12	3			15,493	
12	Maintenance and repair construction, including own-account construction.....										696,617
13	Ordnance and accessories.....										309,562
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
													2		05+06
													4		07
													102		08
													1,679		09+10
															11
															12
18,483									1				20		13
	491,912					11			40	11			1,066	2	14
		46,186							4				13		15
			43,525	174	322	1,968			1						16
			28	21,097	6	258	1	1	82	6					17
			578	58	66,117	567			2						18
			123	186	14	24,379	6	68	33			97			19
						4	117,363	150	33				12		20+21
7		1				40	426	64,349	16	14			6		22+23
				471		89	214	27	113,594	220			686		24
							10		91	41,120			56		25
											23,905	3,326			26A
											1,148	95,624			26B
												7			27A
													117,036	1,182	27B
													1,206	21,800	28
													5,815	307	29
													655	342	30
													1,234	553	31
													85	6	32
													4,616	21	33+34
6	45		1	146		56	185	73	806	179		31	218	12	35
	12		9		43	16	1	4		1		17			36
						4	4	39		30					37
						9	23	6	138						38
						3			2						39
															40
															41
															42
															43
															44+45
															46
															47
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															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

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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					20	15		4	7		13
											1			14
														15
														16
														17
	1										5			18
														19
														20+21
														22+23
	12		9								1			24
											1			25
											1			26A
											1			26B
											1			27A
											1			27B
														28
														29A
														29B
														30
														31
	140	14	156	214	434	4	45	4	792	64	226	38		32
														33+34
														35
														36
	51													37
	681													38
	82,311													39
	1													40
														41
	71													42
	18													43
	73													44+45
														46
														47
														48
														49
														50
														51
														52
														53
														54
														55
														56
														57
														58
														59A
														59B
														60
														61
														62
														63
														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
														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	1			
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	311	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		244	53	3
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	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 con- struction, including own-account construction	Maintenance and repair construction, including own-account construction	
	For the composition of inputs to an industry, read the column for that industry											Industry number
01	Livestock and livestock products	11,937	9	109	855							
02	Other agricultural products	26,649	4,285		4,744					1,338	599	
03	Forestry and fishery products			439	61							
04	Agricultural, forestry, and fishery services	5,423	10,952	3,002	216					2,583	1,340	
05+06	Metallic ores mining					1,686						
07	Coal mining					13	2,449					
08	Crude petroleum and natural gas							26,690				
09+10	Nonmetallic minerals mining	8	356		3		8	7		576		
11	New construction, including own-account construction									4,515	2,853	
12	Maintenance and repair construction, including own-account construction	1,107	1,527	327	407	339	93	4,127	134	422	202	
13	Ordinance and accessories											
14	Food and kindred products	20,660		472	113							
15	Tobacco products											
16	Broad and narrow fabrics, yarn and thread mills		480									
17	Miscellaneous textile goods and floor coverings	174	272	47	105			89				
18	Apparel							4	1			
19	Miscellaneous fabricated textile products		360	9	82							
20+21	Lumber and wood products	42	487			51	68	2		33,428	21,422	
22+23	Furniture and fixtures									2,211	8	
24	Paper and allied products, except containers	270	373	14	9	5	4	1		9	2,546	
25	Paperboard containers and boxes	8	958	19	185	5	6	2		3	361	
26A	Newspapers and periodicals	5	6		12		1	1		1		
26B	Other printing and publishing	7	10	9	8							
27A	Industrial and other chemicals	75	69	4	7	689	310	1,011	341	2,001	879	
27B	Agricultural fertilizers and chemicals	246	10,226	35	3,041	1	2			2		
28	Plastics and synthetic materials											
29A	Drugs	345			1							
29B	Cleaning and toilet preparations	39		10					4		168	
30	Paints and allied products				9				2		4,757	
31	Petroleum refining and related products	746	2,980	185	164	176	561	747	326	6,917	6,399	
32	Rubber and miscellaneous plastics products	554	872	9	49	95	340	18	187	11,833	6,404	
33+34	Footwear, leather, and leather products	53										
35	Glass and glass products	7			12					10	1,610	
36	Stone and clay products		133		12			263		39,460	10,152	
37	Primary iron and steel manufacturing	23	37			394	85	1,753	233	5,500	2,458	
38	Primary nonferrous metals manufacturing				3		16			5,008	2,281	
39	Metal containers			1								
40	Heating, plumbing, and fabricated structural metal products	23	31			129	91	115	88	36,874	14,599	
41	Screw machine products and stampings	28				20	169		13	441	135	
42	Other fabricated metal products	289	560	12	86	3	65	556	14	12,009	4,737	
43	Engines and turbines			18		55	154	14	71			
44+45	Farm, construction, and mining machinery	172	545	34	37	370	1,265	367	622	1,608	549	
46	Materials handling machinery and equipment					100	224	72	344	2,684	57	
47	Metalworking machinery and equipment	41	63		2	14	5	15	5	584	176	
48	Special industry machinery and equipment				3					4	6	
49	General industrial machinery and equipment	34	118	(*)	2	47	241	93	128	3,759	636	
50	Miscellaneous machinery, except electrical	58	171	1	19	27	126	169	20	332	7	
51	Computer and office equipment											
52	Service industry machinery			2	3			4	4	8,477	3,611	
53	Electrical industrial equipment and apparatus	10	24	2		23	60	78	63	3,887	1,274	
54	Household appliances									1,527	816	
55	Electric lighting and wiring equipment	37	43	1	29		21	151	2	11,236	5,044	
56	Audio, video, and communication equipment									2,300	886	
57	Electronic components and accessories											
58	Miscellaneous electrical machinery and supplies	275	810	7	41	4	9	11	19	1,253	454	
59A	Motor vehicles (passenger cars and trucks)											
59B	Truck and bus bodies, trailers, and motor vehicles parts	80	206	35	68	20	40	46	68	871	435	
60	Aircraft and parts											
61	Other transportation equipment					1				204	93	
62	Scientific and controlling instruments			12	21	2	2			2,118	736	
63	Ophthalmic and photographic equipment				8		3	12		69	26	
64	Miscellaneous manufacturing	69	123		4	2	3	3	6	1,623	866	
65A	Railroads and related services; passenger ground transportation	1,406	326	17	70	82	839	166	74	996	544	
65B	Motor freight transportation and warehousing	2,769	1,568	32	389	223	413	278	358	10,351	4,875	
65C	Water transportation	41	63	260	9	9	59	107	8	179	104	
65D	Air transportation	76	145	40	606	43	109	282	59	1,003	437	
65E	Pipelines, freight forwarders, and related services	128	33	1	2	2	4	8	4	14	6	
66	Communications, except radio and TV	283	333	13	200	36	40	215	54	2,744	1,338	
67	Radio and TV broadcasting											
68A	Electric services (utilities)	1,611	870	7	65	733	494	1,290	657	761	351	
68B	Gas production and distribution (utilities)		368	2	3	89	34	5,490	287	151		
68C	Water and sanitary services	145	724	21			4	91	12	664	329	
69A	Wholesale trade	5,225	7,162	188	1,336	404	1,008	1,060	727	26,294	12,024	
69B	Retail trade		(*)	25	12	22	36	176	65	27,798	15,555	
70A	Finance	526	633	86	285	105	208	641	153	4,207	1,649	
70B	Insurance	396	1,344	42	134	43	55	138	66	4,391	1,087	
71A	Owner-occupied dwellings											
71B	Real estate and royalties	4,636	12,210	17	338	147	934	30,466	297	3,679	1,473	
72A	Hotels and lodging places	29	45	30	70	36	84	263	48	543	247	
72B	Personal and repair services (except auto)	31	93	6	89	6	9	12	3	293	172	
73A	Computer and data processing services, including own-account software	6	5	11	4	18	13	84	61	683	364	
73B	Legal, engineering, accounting, and related services	81	107	311	611	210	445	1,993	194	50,507	10,711	
73C	Other business and professional services, except medical	630	1,756	215	592	222	295	627	213	22,662	10,962	
73D	Advertising	14	29	7	162	6	14	109	50	466	213	
74	Eating and drinking places	7	15	27	65	38	76	237	50	506	232	
75	Automotive repair and services	124	370	67	404	32	39	115	32	3,072	1,858	
76	Amusements			3	341	2	19	64	3	109	61	
77A	Health services	2,459										
77B	Educational and social services, and membership organizations	65	81	9	27	9	34	74	9	37	13	
78	Federal Government enterprises	10	12	6	45	11	1		9	677	335	
79	State and local government enterprises	20	46	1	24	4	3	2		39	18	
80	Noncomparable imports					130	51	1,659				
81	Scrap, used and secondhand goods									4	2	
82	General government industry											
83	Rest of the world adjustment to final uses											
84	Household industry											
85	Inventory valuation adjustment											
I	Total intermediate inputs	90,210	65,489	6,258	16,306	7,038	12,025	81,983	6,867	381,602	159,736	
VA	Value added	10,289	61,049	4,954	28,736	4,366	10,758	13,867	10,835	315,015	149,826	
T	Total Industry Output	100,499	126,538	11,212	45,042	11,404	22,782	95,850	17,702	696,617	309,562	

* Less than \$500,000.

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	Newspapers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Commodity number
13	14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	
	80,802		399	68	22				11				627		01
	40,245	3,175	3,278	58	51								57		02
	3,571				161			8,652	11			11	20		03
36	208	7	15	10	16	10		46	45	67	14	41	81	13	04
													1,159	19	05+06
2	188	24	21	14	15	3	3	13	297	23			173	26	07
													3,915	1,505	08
									348				1,210	952	09+10
															11
149	2,498	126	261	241	339	100	389	306	1,558	228	423	754	1,519	221	12
3															13
	78,643			18				95	698				441	392	14
		3,508													15
18			9,935	3,834	15,491	6,653		2,843	153			87			16
	24	5	57	687	44	1,565	195	2,003	802		4	47		1	17
6			39			878	5	5	6						18
	74	3		2	12,151	2,427	7	21	3						19
38	123	2			2	250	39	35,867	4,845	6,692	49	18		40	20+21
								271	290						22+23
5	7,190	125	30	33	72	16	66	142	16,842	16,177	5,386	17,353	369	74	24
34	9,425	552	39	51	75	17	274	885	1,586	93	17	541	631	92	25
3															26A
			233	2	1	16	20	5	1	1	68	231	15	112	26B
121	2,425	6	676	404	5	163	396	96	4,951	821	4,627	11,207	30,053	2,101	27A
20							146		30		547	2,577	1,061	2,788	27B
42	176	312	7,769	5,176	807	468	475	136	3,335	167		9	1,081		28
	1,518														29A
	511	69	35	66	222		10	38	391				126	76	29B
4							242	381	22	147	1	8	803		30
25	893	44	82	50	82	34	376	174	430	259	70	136	1,845	159	31
272	10,123	290	197	203	308	453	942	2,539	4,090	188	23	1,597	1,554	199	32
					384	569	9	57			1	2			33+34
	3,548		321	12			230	163							35
22	17	4	1				822	168	79			2	213	45	36
191				2			74	2,308	55	272	1	34	245	1	37
276							38	682	136	82		43	10		38
													693	89	39
	9,388						924								40
152	578						475	836	3	20			5		41
170	1,408	50			6		1,173	3,203	382	251	26	30	843	52	42
13	13										2				43
															44+45
							23								46
31	62	14	18	6	2	11	73	53	75	34	5	41	610	1	47
101	83		47	192	181	28	77	42	410	213	33	632	312		48
116	200	1			5		100	92	29				6	10	49
124	215	6	79	25	21	26	168	124	256	76	21	113	456	11	50
		5									33	52			51
	54	7			1		165	3	10		2	1	46		52
213	108	16	2				5	12	25			1	135	1	53
							202								54
14	107	18	2				255	10	26			3	7	2	55
597											1	4			56
1,074															57
9	28	1	(*)	2	3		14	2	8	2	18	12	3		58
1	244	2	7	4	12		462	25	21	11	46	40	16	5	59A
2,234															59B
							3								60
1,049	7	2			2	1	11	9	17	6	19	111	178	6	61
3	7	1	2	1	2	3	1	7	8	2	105	553	17	1	62
	36	7			1	628	3	73	15	6	20	24	3		63
25	3,014	51	196	126	86	28	817	186	1,194	448	190	506	1,242	284	64
119	9,489	244	577	454	761	322	3,264	915	3,831	1,736	646	2,266	3,492	1,370	65A
	392	2	8	15	3	3	64	11	82	9	1	16	161	38	65B
137	1,915	139	150	82	338	114	328	255	455	198	238	535	484	70	65C
1	18	2	1	1	3	(*)	6	2	8	5	4	5	176	3	65D
75	771	79	65	65	153	61	206	221	290	119	426	530	307	53	65E
															66
143	3,244	80	973	256	558	163	996	416	2,263	305	248	779	2,600	280	67
27	1,881	17	194	115	218	79	175	134	1,190	89	56	247	2,341	655	68A
16	682	6	57	47	34	27	147	56	622	37	19	85	1,065	131	68B
505	30,005	789	2,185	997	3,202	1,306	7,955	4,259	5,639	2,156	1,499	4,467	7,005	1,229	68C
4	918	131	33	8	15	9	82	106	179	12	42	50	84	17	69A
156	3,474	326	260	157	494	183	706	488	828	264	483	897	1,044	203	69B
34	935	77	67	37	109	42	181	117	205	65	120	216	245	41	70A
															70B
195	2,114	215	156	111	900	387	784	671	491	197	2,888	4,124	1,197	131	71A
65	1,267	139	114	67	209	74	285	182	335	112	184	371	393	69	71B
19	588	46	276	94	105	13	144	47	528	69	51	146	318	62	72A
215	984	94	124	81	106	35	231	115	541	117	439	494	538	119	72B
97	1,432	412	139	88	192	100	339	526	264	77	871	540	3,424	301	73A
451	6,711	455	663	320	5,328	322	1,518	1,295	2,019	598	3,522	2,716	2,622	589	73B
88	12,827	3,721	135	217	799	117	401	665	743	64	1,762	1,357	890	347	73C
64	1,192	128	123	66	228	82	304	204	321	106	169	352	373	61	74
46	2,100	147	210	109	164	54	435	166	795	186	262	617	751	151	75
9	380	79	7	5	51	4	41	14	60	16	70	82	74	7	76
															77A
16	308	30	23	13	47	148	194	74	76	24	44	142	91	15	77B
4	196	62	23	24	62	35	59	84	64	21	483	304	80	5	78
4	547	23	21	12	18	3	38	39	242	9	11	34	161	13	79
11	1,033	31	59	20	50	3	15	53	172	21	140	340	1,615	51	80
				43				9	787					7	81
															82
															83
															84
9,691	344,117	16,133	30,152	14,789	47,785	15,022	73,469	34,001	68,066	26,195	26,428	58,531	82,884	15,282	I
13,208	149,573	30,070	18,016	7,198	19,818	10,479	44,774	31,888	51,302	15,922	46,591	80,689	51,496	8,454	VA
22,899	493,690	46,203	48,168	21,987	67,603	25,501	118,243	65,889	119,369	42,118	73,019	139,219	134,380	23,736	T

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	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 composition of inputs to an industry, read the column for that industry										
	Industry number	28	29A	29B	30	31	32	33+34	35	36	37
01	Livestock and livestock products			51							
02	Other agricultural products		188			1					
03	Forestry and fishery products	1	33		15		1,009			2	
04	Agricultural, forestry, and fishery services	31	58	25	7	35	81	2	18	45	56
05+06	Metallic ores mining				17	26			19	12	2,782
07	Coal mining	54	19	9	2	6	16		91	279	1,286
08	Crude petroleum and natural gas	311				58,884		2			
09+10	Nonmetallic minerals mining		1	12	4	556	16		224	3,813	242
11	New construction, including own-account construction										
12	Maintenance and repair construction, including own-account construction	748	708	332	76	1,457	1,258	63	217	496	878
13	Ordinance and accessories										
14	Food and kindred products	75	434	472	157	172	18	851		25	
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills	12					1,429	300		192	
17	Miscellaneous textile goods and floor coverings	1	10	15			1,589	178	1		
18	Apparel	3					15	6			
19	Miscellaneous fabricated textile products		2	6			9		1	7	
20+21	Lumber and wood products		2	4					309	318	182
22+23	Furniture and fixtures					5	286				
24	Paper and allied products, except containers	739	165	153	2	158	1,225	30	52	677	32
25	Paperboard containers and boxes	254	852	1,983	1	166	1,917	18	807	196	19
26A	Newspapers and periodicals	4	1	2		3	15			4	3
26B	Other printing and publishing	1	383	155	7	6	36	1	1	6	93
27A	Industrial and other chemicals	20,098	1,988	4,541	3,192	2,561	6,509	319	1,298	1,493	1,367
27B	Agricultural fertilizers and chemicals	298									
28	Plastics and synthetic materials	1,797			2,244		28,389	14		316	
29A	Drugs		10,516								
29B	Cleaning and toilet preparations	282	64	2,479	1	444	99	41	37	100	5
30	Paints and allied products	46		31	311		166		24	128	29
31	Petroleum refining and related products	184	78	442	131	15,345	256	21	73	387	381
32	Rubber and miscellaneous plastics products	2,909	1,877	3,709	1	668	9,098	197	508	524	191
33+34	Footwear, leather, and leather products					1		2,370			
35	Glass and glass products	5	254	225	3	476	848		2,515	134	
36	Stone and clay products	13	16	4	164	275	231	5	425	7,798	1,468
37	Primary iron and steel manufacturing	1		2	5	12	708		29	603	17,570
38	Primary nonferrous metals manufacturing				1		94			103	1,682
39	Metal containers	4	91	490	496	151					3
40	Heating, plumbing, and fabricated structural metal products						67			36	7
41	Screw machine products and stampings		92	71	3		454	4	26	74	410
42	Other fabricated metal products	22	51	133	3	148	1,017	81		498	2,103
43	Engines and turbines						44				49
44+45	Farm, construction, and mining machinery						5				38
46	Materials handling machinery and equipment										
47	Metalworking machinery and equipment	37	5	11	1	25	323	1	107	131	819
48	Special industry machinery and equipment	34					710	(*)	22		25
49	General industrial machinery and equipment	26	31	3		1	29			44	1,693
50	Miscellaneous machinery, except electrical	100	33	47	4	106	933	9	119	142	538
51	Computer and office equipment										
52	Service industry machinery	2	3	10		1	9		3	5	1
53	Electrical industrial equipment and apparatus	6	8	24		1	49		71	14	930
54	Household appliances										
55	Electric lighting and wiring equipment	5	13	25		11	80		8	27	
56	Audio, video, and communication equipment										
57	Electronic components and accessories						32				
58	Miscellaneous electrical machinery and supplies					3	27			20	6
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts	2	5	3	3	24	18		9	64	18
60	Aircraft and parts										
61	Other transportation equipment										
62	Scientific and controlling instruments	3	9	4	3	21	13		8	12	124
63	Ophthalmic and photographic equipment	4	8	5	1	4	14		2	4	8
64	Miscellaneous manufacturing	1	27	12	1	5	77		1	48	3
65A	Railroads and related services; passenger ground transportation	437	168	231	255	394	898	12	300	678	1,541
65B	Motor freight transportation and warehousing	1,236	363	678	460	1,087	4,854	147	449	4,144	3,326
65C	Water transportation	90	9	25	19	393	108		24	182	199
65D	Air transportation	221	326	201	57	123	587	46	83	190	416
65E	Pipelines, freight forwarders, and related services	19	3	8	3	4,909	6	(*)	1	5	5
66	Communications, except radio and TV	285	324	179	48	216	473	24	77	199	202
67	Radio and TV broadcasting										
68A	Electric services (utilities)	1,093	468	213	80	1,390	2,485	50	524	1,205	2,872
68B	Gas production and distribution (utilities)	688	193	101	27	2,052	534	28	342	1,007	1,552
68C	Water and sanitary services	347	173	93	62	495	227	61	58	131	716
69A	Wholesale trade	3,129	6,664	3,121	928	5,490	6,601	406	1,261	2,530	8,527
69B	Retail trade	42	62	162	3	33	201	4	62	72	30
70A	Finance	526	706	441	148	1,407	1,294	53	166	409	760
70B	Insurance	100	129	83	27	199	266	19	41	136	182
71A	Owner-occupied dwellings										
71B	Real estate and royalties	317	831	516	64	2,173	1,683	56	158	484	427
72A	Hotels and lodging places	183	269	159	52	159	464	21	69	169	287
72B	Personal and repair services (except auto)	177	83	47	11	288	295	8	62	172	415
73A	Computer and data processing services, including own-account software	319	247	117	27	467	614	33	111	264	722
73B	Legal, engineering, accounting, and related services	1,886	2,392	794	188	1,125	1,046	22	89	305	413
73C	Other business and professional services, except medical	1,035	2,837	1,217	180	1,735	2,735	95	431	1,211	2,244
73D	Advertising	366	4,850	3,648	233	680	925	168	95	330	361
74	Eating and drinking places	175	283	149	47	229	470	26	75	167	288
75	Automotive repair and services	405	229	147	43	600	755	23	148	396	897
76	Amusements	42	111	70	14	53	87	1	7	19	51
77A	Health services										
77B	Educational and social services, and membership organizations	50	224	43	10	109	553	3	15	33	60
78	Federal government enterprises	18	30	54	9	49	93	10	18	34	72
79	State and local government enterprises	39	29	31	3	26	53	13	8	11	71
80	Noncomparable imports	371	3,907	836	113	549	406	5	56	193	174
81	Scrap, used and secondhand goods								91		4,024
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	41,704	43,930	28,845	9,965	108,181	87,931	5,848	11,840	33,455	65,874
VA	Value added	21,255	52,786	21,019	8,350	25,354	72,191	2,418	10,474	34,718	38,121
T	Total Industry Output	62,959	96,716	49,864	18,315	133,536	160,122	8,266	22,314	68,172	103,994

* Less than \$500,000.

by Industries, 1998—Continued
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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	Commodity number
38	39	40	41	42	43	44+45	46	47	48	49	50	51	52	
14														01
50	3	27	15	37	17	31	5	17	15	28	26	48	14	02
2,340		102		0		11		5				2		03
17	1	2	2	3	1	4		1	1	2	2	1	2	04
														05+06
20				2				28	1					07
														08
557	81	284	596	499	196	318	68	254	197	225	272	945	291	09+10
														11
16														12
				5	14			4	4	237	43			13
										1				14
404		45	25	87		101	22	122	103	42	7			15
														16
62		44	80	262	9	14	6	23	208	144	12	54	148	17
85	61	284	294	404	10	13	2	92	22	121	68	372	132	18
2		6	2	4		3		2		3	5	22	2	19
3	69	6	5	2	2	7	1	5	2	3	4	12	1	20
457	117	697	199	725	2	34	5	221	66	2	5		73	21
														22
1,416		47	125	393						12	7	15	149	22+23
														24
		4	7	15								9	12	25
21	378	246	78	354	72	103	44	144		14	17	77	132	26
333	20	117	64	143	20	69	27	58	46	68	59	50	34	27
837	20	714	214	2,046	361	1,935	270	344	560	997	181	1,749	1,044	28
														29
770		249	18	45		23				39				30
271	9	96	98	146	118	60	13	301	55	101	121	18	175	31
1,024	2,473	11,567	11,854	9,277	3,960	5,612	1,540	2,775	1,783	2,931	2,655	143	2,090	32
26,495	4,836	5,830	2,587	4,093	859	481	366	865	1,338	1,096	2,173	1,194	2,308	33+34
			4	4										35
		3,976	105	524	2,667	325	365	365	539	506	161	932	265	36
48	7	1,054	920	2,114	1,090	933	567	405	359	493	486	1,095	1,147	37
873	246	2,522	1,190	4,689	1,035	1,135	420	458	933	574	598	301	771	38
				81	1,271	2,936	143		164	68	51		65	39
						1,145								40
18				17		17	266		10	9				41
744	20	431	1,234	318	163	263	69	1,667	273	257	556	66	200	42
53			2						2,241					43
555		156	98	26	399	1,512	909	347	732	3,289	473	26	714	44
347	48	329	1,107	600	1,245	1,574	452	1,071	1,204	1,311	2,026	177	847	45
									36			15,474		46
									2	1				47
267	1	115	34	407	989	359	409	830	1,145	1,414	112	2,517	2,014	48
														49
84		2	10	4		40		33						50
														51
														52
														53
														54
														55
														56
														57
														58
														59A
13	1	16	11	7	24	78	2	10	4	6	4	10	6	59B
														60
														61
														62
5		149		3				17		17		7	589	63
4	1	10	7	5	2	3	1	6	3	4	10	18	5	64
3		10	2	2		105	84	5	1					65
641	54	203	176	183	26	85	19	47	39	47	58	110	61	66
2,535	279	1,091	767	991	486	849	186	407	289	338	306	240	380	67
45	3	9	13	20	1	11	0	2	2	1	3	4	3	68
342	46	248	193	276	144	240	71	160	149	179	140	689	177	69
3	1	1	2	2	2	2	0	1	0	1	2	6	1	70
174	24	218	127	268	58	160	50	161	149	181	107	560	115	71
														72
2,098	141	448	553	816	163	331	64	299	184	323	331	547	221	73
501	58	216	180	367	50	129	30	85	56	102	96	75	74	74
233	19	62	620	147	31	44	5	26	19	42	27	74	104	75
6,778	947	4,106	2,914	4,015	1,459	3,793	1,448	1,821	2,439	2,529	1,417	13,306	2,608	76
15	6	49	34	56	8	17	4	10	9	15	10	39	29	77
563	97	482	443	532	180	396	93	246	202	273	249	1,108	303	78
138	21	103	90	119	38	88	26	58	43	62	55	191	62	79
														80
														81
														82
														83
														84
														85
														I
59,407	11,641	40,957	30,822	39,484	16,492	30,890	8,799	15,955	17,557	20,506	15,474	90,733	22,540	VA
26,530	1,699	34,987	24,534	40,183	9,715	25,706	6,020	22,548	15,261	21,731	22,456	13,989	17,855	T
85,937	13,340	75,945	55,355	79,666	26,207	56,596	14,820	38,502	32,818	42,237	37,931	104,722	40,395	

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	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 composition of inputs to an industry, read the column for that industry										
	Industry 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	35	15	14	38	183	32	48	61	103	25
05+06	Metallic ores mining	36			31		6		295	30	
07	Coal mining	1				3		20	27	12	6
08	Crude petroleum and natural gas										
09+10	Nonmetallic minerals mining		36			1					
11	New construction, including own-account construction										
12	Maintenance and repair construction, including own-account construction	235	137	150	773	2,570	175	869	1,167	1,047	186
13	Ordinance and accessories										
14	Food and kindred products										4
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills		3					160		130	
17	Miscellaneous textile goods and floor coverings	1			1			1,328	58	21	79
18	Apparel					2		8		8	
19	Miscellaneous fabricated textile products							6,030	14	127	229
20+21	Lumber and wood products	31	10	2	4			7	250	23	865
22+23	Furniture and fixtures		2		732	13	1	6,857	97	51	69
24	Paper and allied products, except containers	167	286	144	303	279	50	64	108	24	12
25	Paperboard containers and boxes	103	227	346	189	216	314	23	586	13	5
26A	Newspapers and periodicals	4		12	17	7		11	10	8	2
26B	Other printing and publishing	2	5	1	19	9	2	20	33	27	2
27A	Industrial and other chemicals	63	142	58	19	2,143	237	902	614	59	15
27B	Agricultural fertilizers and chemicals										
28	Plastics and synthetic materials	112	585	625	264	360	327	11	788	364	154
29A	Drugs										
29B	Cleaning and toilet preparations	20	20	30	26	14	3	11	7		
30	Paints and allied products	78	172	21	63			1,830	461	119	169
31	Petroleum refining and related products	187	50	53	48	82	30	166	159	123	79
32	Rubber and miscellaneous plastics products	1,049	2,034	820	2,030	2,050	1,752	14,478	3,684	2,130	910
33+34	Footwear, leather, and leather products							3	1	1	
35	Glass and glass products		20	431	5	806		2,243	106	15	215
36	Stone and clay products	1,059	127	198	19	108	21	312	462	286	28
37	Primary iron and steel manufacturing	1,706	1,521	937	431	759	542	426	11,646	962	2,426
38	Primary nonferrous metals manufacturing	2,041	1,107	1,534	1,309	3,126	1,419	71	10,796	3,247	611
39	Metal containers										
40	Heating, plumbing, and fabricated structural metal products	232			721	535	123		2,297	241	766
41	Screw machine products and stampings	866	836	856	1,194	1,512	369	18,113	5,986	1,198	404
42	Other fabricated metal products	241	426	556	760	4,621	583	4,304	2,065	2,213	812
43	Engines and turbines	377						3,752	523		2,072
44+45	Farm, construction, and mining machinery										43
46	Materials handling machinery and equipment							16	13		2
47	Metalworking machinery and equipment	93	47	80	86	283	70	218	364	991	69
48	Special industry machinery and equipment					176					
49	General industrial machinery and equipment	167	100		25		114	81	2,277	317	993
50	Miscellaneous machinery, except electrical	263	48	115	206	755	132	1,179	5,665	1,615	309
51	Computer and office equipment	10			308	982	144	5	6	90	
52	Service industry machinery	1	560	3	3	2		3,288	325		91
53	Electrical industrial equipment and apparatus	2,883	996	665	240	206	379	9	14	135	1,242
54	Household appliances		12								143
55	Electric lighting and wiring equipment	69	352	882	685	274	98	1,155	107		145
56	Audio, video, and communication equipment				6,167	455	83	1,549	3	2,026	144
57	Electronic components and accessories	765	223	182	23,864	27,032	2,622	5,796	4,303	1,643	1
58	Miscellaneous electrical machinery and supplies	11	1	2	288		608	3,378	2,727	32	138
59A	Motor vehicles (passenger cars and trucks)							75	1,092		1,207
59B	Truck and bus bodies, trailers, and motor vehicles parts	3		2	5	8	6	64,858	13,081	7	1,070
60	Aircraft and parts									21,782	
61	Other transportation equipment										1,375
62	Scientific and controlling instruments	107	911		497	582	122	1,798	6	8,345	133
63	Ophthalmic and photographic equipment	5	1	4	15	24	6	24	24	17	2
64	Miscellaneous manufacturing	3	81	69	1		1	53	10	55	3
65A	Railroads and related services; passenger ground transportation	100	49	44	114	294	50	637	406	134	92
65B	Motor freight transportation and warehousing	331	354	312	343	614	302	3,327	1,934	511	539
65C	Water transportation	9	4	2	2	17	3	33	19	10	3
65D	Air transportation	169	111	101	479	637	120	1,589	787	886	179
65E	Pipelines, freight forwarders, and related services	1	(*)	1	4	5	(*)	11	6	6	1
66	Communications, except radio and TV	166	80	87	510	621	74	262	266	263	98
67	Radio and TV broadcasting										
68A	Electric services (utilities)	291	143	208	440	1,587	224	571	1,083	579	206
68B	Gas production and distribution (utilities)	98	54	74	75	217	54	194	281	107	75
68C	Water and sanitary services	34	10	28	43	155	71	120	405	165	50
69A	Wholesale trade	2,584	1,623	1,719	6,497	8,417	2,058	16,954	9,263	3,806	2,242
69B	Retail trade	30	45	54	56	48	27	67	69	19	13
70A	Finance	326	169	189	878	1,292	217	1,616	1,164	1,048	272
70B	Insurance	56	37	42	157	244	43	387	235	170	72
71A	Owner-occupied dwellings										
71B	Real estate and royalties	284	83	285	991	1,561	202	565	508	424	644
72A	Hotels and lodging places	108	69	80	308	449	78	657	410	354	113
72B	Personal and repair services (except auto)	45	16	21	80	313	39	191	273	173	25
73A	Computer and data processing services, including own-account software	93	30	87	594	936	68	187	464	923	119
73B	Legal, engineering, accounting, and related services	162	75	151	918	2,123	93	1,696	875	1,036	243
73C	Other business and professional services, except medical	670	290	411	1,635	3,639	638	2,079	2,103	2,088	542
73D	Advertising	439	609	550	675	1,851	237	943	2,768	423	235
74	Eating and drinking places	120	74	93	301	431	96	613	409	343	126
75	Automotive repair and services	118	60	83	266	704	106	16,195	615	432	87
76	Amusements	12	9	7	71	111	8	167	127	89	9
77A	Health services										
77B	Educational and social services, and membership organizations	25	46	17	113	289	20	348	159	157	25
78	Federal Government enterprises	29	50	20	115	65	15	153	222	101	15
79	State and local government enterprises	9	13	10	16	86	10	132	101	26	6
80	Noncomparable imports	326	59	326	742	525	513	790	593	169	37
81	Scrap, used and secondhand goods						66		21		
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	19,663	15,257	13,778	57,802	77,415	15,805	196,031	97,883	64,083	23,313
VA	Value added	19,639	7,159	13,331	31,730	54,973	11,062	33,709	39,167	62,623	21,059
T	Total Industry Output	39,302	22,416	27,109	89,532	132,387	26,867	229,740	137,050	126,706	44,372

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Scientific and controlling instruments	Ophthalmic and photographic equipment	Miscellaneous manu- facturing	Railroads and related services; passenger ground trans- portation	Motor freight transporta- tion and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services	Communica- tions, except radio and TV	Radio and TV broadcasting	Electric services (utilities)	Gas produc- tion and distribution (utilities)	Water and sanitary services	Wholesale trade	Commodity number
62	63	64	65A	65B	65C	65D	65E	66	67	68A	68B	68C	69A	
		5												01
		41		1	3	1		2		1	1		113	02
		28			4									03
86	12	13	2	4				100	8	26			612	04
14		11											10	05+06
30	14	2			6					13,108	39,105		5	07
		6					127			7			9	08
														09+10
901	182	236	4,037	1,310	47	273	1,318	13,224	379	15,625	9,024	2,132	4,398	11
							5							12
20		78			82	255							689	13
							1							14
417		511												15
710	1	25		14	2			2						16
23		241	37	5	79	11		149		3				17
1		14		13	79	7	95							18
95		689		63	11	4	252	48		2	12	4	201	19
48		40											3,408	20+21
425	661	255	27	79		43	24	325	15	71	19	11	3,353	22+23
615	235	837	6	159		4	105	166	7	19	5	3	5,191	24
16	6	11	14	78		24	33	212	12	12	2	4	430	25
44	2	31	223	418	28	168	270	1,250	10	84	12	4	7,866	26A
190	488	500	134	126	13	98	10	20	18	325	2	479	408	26B
														27A
619	293	1,128			8									27B
								7						28
33	11	36		2		5		37		3				29A
101		322		126	64	3		152			3	2		29B
106	27	130	2,021	4,956	289	7,490	144	266	27	1,350	208	323	2,768	30
2,895	560	1,644	350	2,722	122	40	180	790	6	196	10	217	3,986	31
		51	1	2		1	1	2		1	1			32
452	139	16	82	6	8			41		(*)			19	33+34
253	12	152	3	11	2	1	11			8			60	35
1,140	39	997	451			3					2			36
1,814	122	2,084	1	5	48			26				1		37
16										122				38
1,029	10	147			11					1				39
2,055	241	209	12		3	71		551		55				40
2,326	63	768	396	737	309	102	126	487	3	43	10	87	948	41
		3	250	80	442		34	404		292				42
														43
				7										44+45
194	37	129	105	53	133	41		10	2	117	24	4	940	46
				4										47
94	4	23	453	61	385	6	144	715		73	2	2	337	48
546	100	366	133	89	131	15	61	33	7	234	6	18	1,137	49
1,419	7	16		7		5	24	708	30	15	92		804	50
3	1	3	11	11		3	6	6		1		8	242	51
1,492	103	193	362	262	12	25	38	744	40	235	1		141	52
				4										53
363	6	16	28	60	3	8		177		143				54
1,515		5		5			9	6,366	47		1	27	262	55
11,043	548	212	26			183		5,926	152				177	56
46	3	17	105	198	30	48	95	308	9	112	22	34	7,272	57
														58
9	5	6	533	1,062	1	20	46	62	4	15	9	1,323	1,547	59A
						9,415								59B
			1,660	20	689		3							60
3,820	134	9	8	30	3	13		44	(*)	138		538	84	61
20	628		59	5	5	16	28	100	20	5	6	4	386	62
10		2,889	14	44	59	32	31	173	5	30	6	5	674	63
146	70	109	2,986	445	16	161	45	339	29	5,315	45	34	928	64
614	162	585	539	45,178	95	316	283	485	61	773	51	119	3,588	65A
9	7	11	19	1,107	7,534	54	65	32	(*)	572	19	4	71	65B
525	82	171	308	2,342	72	8,401	396	1,307	103	533	381	66	4,899	65C
5	1	1	541	7,303	1,800	12,322	1,099	19	1	27	545	5	479	65D
684	129	172	532	2,791	48	1,477	1,393	51,299	823	368	59	497	17,969	65E
									233					66
755	117	273	95	1,281	131	289	468	1,153	196	22	129	109	6,029	67
101	51	106	1	145	9	17	5	163	6	5,524	20,251	464	1,614	68A
81	23	36	143	2,876	32	167	43	422	59	243		1,394	1,445	68B
5,546	1,241	4,029	1,488	4,562	376	1,504	320	3,330	93	869	462	73	24,637	68C
78	20	71	246	923	12	51	34	117	11	44	26	138	2,138	69A
1,062	211	348	869	1,976	1,112	2,285	1,009	3,913	344	3,380	874	155	9,618	69B
200	40	88	340	1,912	60	279	357	720	266	522	133	320	2,314	70A
														70B
1,285	135	552	811	4,964	934	1,798	962	6,594	1,282	1,747	294	73	26,976	71A
372	69	125	170	836	50	363	133	1,110	97	458	129	48	3,258	71B
92	15	39	61	143	34	366	110	2,622	133	103	3	73	2,125	72A
561	82	78	1,264	584	206	2,973	4,730	5,168	583	2,378	371	57	10,131	72B
1,489	64	295	543	1,343	775	1,288	2,514	12,913	558	1,966	2,301	811	11,760	73A
3,439	653	909	1,803	6,663	3,978	2,381	1,857	9,317	1,359	2,999	806	361	53,396	73B
1,891	362	1,720	286	4,683	1,315	1,728	1,243	6,083	1,110	155	22	1	23,215	73C
399	73	153	222	754	47	2,288	126	1,003	87	510	125	47	2,996	74
309	59	133	986	12,301	17	186	255	2,304	206	241	150	46	7,473	75
79	18	24	37	207	19	123	35	5,237	19,822	128	63	9	1,499	76
				83										77A
240	84	182	114	111	173	88	424	446	106	993	50	12	1,825	77B
129	18	112	70	330	12	96	184	1,209	45	518	105	38	5,533	78
25	4	12	136	315		40	12	132	20	31	9		594	79
419	276	124	271	1,041	2,685	9,122	405	8,276		48	89	4	7,560	80
		1		4									1	81
														82
														83
														84
														85
57,580	8,760	25,599	26,364	115,890	24,704	68,738	21,725	159,584	29,474	62,969	76,091	10,862	286,776	I
73,107	14,824	27,480	45,340	128,769	11,090	67,144	24,349	189,245	15,590	136,749	22,927	12,706	525,684	VA
130,687	23,584	53,079	71,704	244,658	35,794	135,881	46,074	348,829	45,064	199,717	99,018	23,568	812,459	T

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

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Retail trade	Finance	Insurance	Owner-occupied dwellings	Real estate and royalties	Hotels and lodging places	Personal and repair services (except auto)	Computer and data processing services	Legal, engineering, accounting, and related services	Other business and professional services, except medical	Advertising
		69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D
		Industry number	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C	73D
01	Livestock and livestock products										88	
02	Other agricultural products	3	5	2		31	6		5	8	4	
03	Forestry and fishery products											
04	Agricultural, forestry, and fishery services	1,089	217	113	5,793	5,315	470	75	223	222	234	18
05+06	Metallic ores mining											
07	Coal mining	5	2			4	2	3		1	1	
08	Crude petroleum and natural gas											
09+10	Nonmetallic minerals mining	2						4				
11	New construction, including own-account construction											
12	Maintenance and repair construction, including own-account construction	8,297	1,960	942	26,174	37,439	2,391	740	1,029	577	1,721	82
13	Ordinance and accessories										116	
14	Food and kindred products	158					180				26	
15	Tobacco products											
16	Broad and narrow fabrics, yarn and thread mills	85					9	181			10	
17	Miscellaneous textile goods and floor coverings	46	1			1	15	40		2	10	
18	Apparel	49					68	491			149	
19	Miscellaneous fabricated textile products	48	157	38		19	666	347			13	21
20+21	Lumber and wood products	207	145	91		82	22	69	75	139	173	8
22+23	Furniture and fixtures	1				2			3	3	2	
24	Paper and allied products, except containers	5,100	1,320	448		678	293	425	2,343	832	2,242	82
25	Paperboard containers and boxes	1,207	173	64		97	161	73	74	123	1,041	10
26A	Newspapers and periodicals	199	546	58		40	84	54	127	223	338	11
26B	Other printing and publishing	670	3,773	1,711		727	152	1,074	2,526	2,293	3,203	2,569
27A	Industrial and other chemicals	46	50	21		3	52	14	182	23	1,884	2
27B	Agricultural fertilizers and chemicals	34			407	167	140				1	
28	Plastics and synthetic materials	15						16				
29A	Drugs											
29B	Cleaning and toilet preparations	186	27	3		67	97	927	18	39	674	
30	Paints and allied products	56	1	50		28	1	9		3	148	
31	Petroleum refining and related products	2,830	454	114		474	152	303	226	212	1,598	17
32	Rubber and miscellaneous plastics products	2,675	172	322	76	453	334	482	563	313	1,824	35
33+34	Footwear, leather, and leather products	255	13	5		6	5	353	7	43	78	
35	Glass and glass products	14	24	18		8	166	4	6	275	501	
36	Stone and clay products	33	16			577	57	12		60	129	
37	Primary iron and steel manufacturing	12	3	2				10		4	135	
38	Primary nonferrous metals manufacturing	4		17		9		94			33	
39	Metal containers										31	
40	Heating, plumbing, and fabricated structural metal products	42			83	52		9				
41	Screw machine products and stampings	9					7	116			169	
42	Other fabricated metal products	914	341	262		241	51	320	124	247	584	14
43	Engines and turbines	334	7					7			213	
44+45	Farm, construction, and mining machinery				267						77	
46	Materials handling machinery and equipment	24									277	
47	Metalworking machinery and equipment	77	4			6	2	18	13	18	1,018	
48	Special industry machinery and equipment	51				7		42	9	9	873	
49	General industrial machinery and equipment	29	33			14		49			534	
50	Miscellaneous machinery, except electrical	335	25	1		10	11	122	55	109	694	8
51	Computer and office equipment	243	535	372		96	17	646	20,327	868	940	79
52	Service industry machinery	142	2	1		3	8	434	3	5	265	3
53	Electrical industrial equipment and apparatus	46	20	4		5	14	65	360	5	1,545	2
54	Household appliances	17	1			64	20	1,557			4	
55	Electric lighting and wiring equipment	303	44	21		43	18	29	2	9	350	4
56	Audio, video, and communication equipment	39	42	6		7	5	19	12	30	38	2
57	Electronic components and accessories	224	59	1		1		963	10,996	21	900	1
58	Miscellaneous electrical machinery and supplies	432	284	248		60	16	73	809	511	559	19
59A	Motor vehicles (passenger cars and trucks)											
59B	Truck and bus bodies, trailers, and motor vehicles parts	2,395	91	72		80	47	101	55	53	877	35
60	Aircraft and parts											
61	Other transportation equipment	2		10		3					506	
62	Scientific and controlling instruments	89	2	111		62	25	97	161	52	246	2
63	Ophthalmic and photographic equipment	190	404	276		126	25	871	216	449	1,023	32
64	Miscellaneous manufacturing	577	670	166		172	92	1,740	248	360	1,196	85
65A	Railroads and related services; passenger ground transportation	674	545	417	6	531	83	104	290	243	929	30
65B	Motor freight transportation and warehousing	2,319	5,331	1,104	22	729	391	700	581	985	2,751	69
65C	Water transportation	34	12	2		5	3	9	6	10	62	1
65D	Air transportation	2,568	2,049	1,403	1	1,721	420	365	1,321	1,376	3,143	104
65E	Pipelines, freight forwarders, and related services	61	27	17		25	1,191	7	15	14	54	1
66	Communications, except radio and TV	8,402	11,155	6,005		5,068	1,071	1,593	7,716	4,743	8,276	483
67	Radio and TV broadcasting											326
68A	Electric services (utilities)	13,758	2,154	381		6,274	2,894	1,224	894	1,351	1,745	132
68B	Gas production and distribution (utilities)	1,119	588	49		1,104	475	439	75	157	445	9
68C	Water and sanitary services	2,258	1,255	158		4,489	1,020	561	121	160	459	5
69A	Wholesale trade	3,389	2,154	826	202	968	430	2,326	6,480	1,526	5,745	493
69B	Retail trade	2,521	152	128	210	285	142	106	77	73	1,094	24
70A	Finance	15,127	162,984	31,872	17,450	6,872	5,142	1,147	3,160	4,778	5,632	246
70B	Insurance	2,513	2,077	95,504	13,860	6,458	157	295	314	437	1,293	57
71A	Owner-occupied dwellings											
71B	Real estate and royalties	51,870	20,776	10,429	20,491	56,908	4,985	6,609	23,364	18,205	14,273	215
72A	Hotels and lodging places	2,426	1,759	1,351		1,700	365	288	879	1,486	2,616	95
72B	Personal and repair services (except auto)	2,381	523	227		1,525	582	5,336	600	277	1,069	42
73A	Computer and data processing services, including own-account software	5,780	19,146	2,434		693	477	723	34,630	9,566	9,515	216
73B	Legal, engineering, accounting, and related services	6,481	20,603	10,089	2,765	12,478	783	4,612	4,951	29,027	11,552	1,885
73C	Other business and professional services, except medical	35,567	30,889	15,507	2,424	23,111	8,497	4,108	14,505	38,665	39,992	3,754
73D	Advertising	39,942	12,754	3,599		6,049	1,563	2,955	3,075	1,205	4,771	254
74	Restaurants and drinking places	2,857	1,573	1,233		1,534	449	313	903	850	2,734	85
75	Automotive repair and services	4,461	1,619	6,047		6,219	524	632	1,974	1,561	3,747	512
76	Amusements	927	596	362		439	83	82	270	230	1,263	1,016
77A	Health services										4	
77B	Educational and social services, and membership organizations	726	1,049	445		623	163	397	1,202	1,156	1,937	94
78	Federal Government enterprises	4,418	22,373	2,348		2,026	388	650	1,985	3,103	3,467	223
79	State and local government enterprises	680	324	54		1,069	259	144	55	104	196	10
80	Noncomparable imports	163	7,150	1,403			170	41	1,022	885	2,309	71
81	Scrap, used and secondhand goods	1		1		1		1			1	
82	General government industry											
83	Rest of the world adjustment to final uses											
84	Household industry											
85	Inventory valuation adjustment											
I	Total intermediate inputs	243,259	343,234	198,962	90,233	196,228	38,553	49,009	151,095	130,338	160,366	13,590
VA	Value added	496,593	440,673	143,419	541,426	593,379	44,717	77,702	208,836	245,960	452,586	32,054
T	Total Industry Output	739,852	783,906	342,381	631,659	789,607	83,270	126,711	359,931	376,298	612,952	45,644

by Industries, 1998—Continued
at producers' prices]

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	General government industry	Household industry	Inventory valuation adjustment	Total intermediate use	Commodity number
74	75	76	77A	77B	78	79	82	84	85		
414		125	74	116						95,073	01
2,635	3	300	283	175						88,898	02
3,497		16	64		22					17,699	03
321	114	436	1,749	632	26					43,894	04
					7	512				8,603	05+06
5	2	1	6	3	979	1,158				20,526	07
						860				131,408	08
				3		65				15,881	09+10
										271	11
2,948	929	1,787	4,802	11,780	2,718	23,176				218,700	12
		32								157	13
76,401		1,251	5,322	4,234	631					193,067	14
										3,508	15
		125	43	81	17	13				43,488	16
34	62	13	63	8	1	12				12,673	17
9	85	171	802	96	2	41				16,114	18
232	202	63	1,003	88	268	2				14,099	19
63	24	124	252	568						113,386	20+21
	453	1	3	1	741					11,900	22+23
935	265	321	2,546	1,600	213	62				98,734	24
1,142	136	142	986	483	251					39,714	25
45	79	120	636	1,508	16	15				5,504	26A
589	137	361	3,200	12,019	1,321	216				65,506	26B
252	316	450	10,313	290	129	2,316				120,141	27A
		290	42	56		239				19,688	27B
			218							60,770	28
		11	21,272	98		4				33,858	29A
65	94	47	824	243	83	64				9,841	29B
5	517	103	5	147						15,999	30
577	1,468	325	1,050	988	1,225	1,962				77,317	31
2,877	4,528	249	8,724	1,056	32	154				143,817	32
2	2	101	31	117	92					4,632	33+34
675	1,043	6	1,561	308	5	87				21,310	35
543	76	4	498	14		791				69,714	36
		1	3	37						116,602	37
4	7	20	8	2		73				94,933	38
										13,119	39
		8		3		3				69,816	40
82	2,132	37	450	99	45	3				52,408	41
130	3,000	157	557	414	19	50				76,128	42
4	1,765		2	12	340	100				16,257	43
		12				324				7,475	44+45
					22					5,185	46
1	46	13	17	21	9	49				13,908	47
235	66		7	3						7,042	48
285	34		7			21				23,807	49
40	389	41	151	118	184	1,030				33,645	50
26	17	60	1,881	82	5					46,465	51
38	1,039	141	110	54	51	504				22,665	52
5	635	4	130	31		806				31,743	53
22			38	32		16				4,474	54
114	816	175	927	309	45	130				25,982	55
18	34	12	48	80		29				23,314	56
	333	1	283	200		40				139,150	57
51	1,077	665	264	289	36	148				18,281	58
	103									2,477	59A
454	25,112	140	503	421	1,816	371				119,401	59B
	2									33,433	60
		6		13	14	139				4,739	61
11	216	58	14,264	530	2	32				38,546	62
16	47	64	1,174	388	17	10				7,705	63
847	60	434	430	1,151	42	50				16,638	64
617	364	158	972	344	890	725				40,085	65A
3,124	1,315	502	2,563	1,360	2,372	1,004				165,264	65B
32	23	18	47	39	2,361	705				15,779	65C
1,306	1,006	655	3,736	1,241	2,458	168				63,224	65D
18	371	10	38	30	18	30				31,524	65E
1,391	2,103	1,662	8,370	3,495	469	597				166,320	66
										1,827	67
6,163	1,578	2,778	8,676	2,769	502	4,098				110,788	68A
1,104	440	230	1,651	680	361	3,753				64,744	68B
1,905	599	425	2,247	976	731	1,633				35,898	68C
16,552	7,390	3,003	14,470	4,981	1,195	1,400				394,484	69A
437	1,435	185	580	486	26	26				58,673	69B
3,672	3,932	1,748	5,544	7,053	1,170	2,173				343,557	70A
529	1,077	322	3,395	840	277	252				151,107	70B
											71A
16,372	11,186	12,795	52,584	32,394	1,201	2,872				492,963	71B
978	708	544	3,346	1,016	40	55				38,642	72A
862	2,382	527	1,810	684	27	138				31,528	72B
1,000	981	907	7,609	4,086	213	336				142,963	73A
3,018	1,675	4,362	12,916	4,884	351	4,552				269,804	73B
9,584	5,355	7,925	48,973	26,428	3,632	2,443				518,753	73C
7,363	3,423	6,975	3,491	8,096	10	325				196,008	73D
5,380	662	576	5,316	1,966	113	123				47,178	74
1,578	3,027	1,296	5,889	2,169	457	608				104,016	75
3,973	197	27,491	541	1,701		4				69,355	76
		56	15,181							17,783	77A
534	151	278		1,751	40	119				22,303	77B
572	746	743	7,155	3,110	118	354				66,367	78
451	325	107	473	245	90	2,473				10,628	79
223	23	367	48	30	1,144					69,413	80
1	442	-240								8,579	81
											82
											83
											84
											85
185,385	100,375	85,425	307,504	153,850	31,775	66,566				6,650,777	I
188,813	109,266	117,204	457,102	169,901	61,233	62,073	954,171	14,351	21,538		VA
374,198	209,641	202,629	764,606	323,751	93,009	128,639	954,171	14,351	21,538		T

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.

by Industries, 1998—Continued
at producers' prices]

Total	Federal Government consumption expenditures and gross investment				State and local government consumption expenditures and gross investment			GDP	Total commodity output	Commodity number
	National defense: Consumption expenditures	National defense: Gross investment	Nondefense: Consumption expenditures	Nondefense: Gross investment	Total	Consumption expenditures	Gross investment			
	96C	96I	97C	97I		98C+99C	98I+99I			
1	1		1		277	277		2,722	97,795	01
70			70		1,219	1,219		131,696	120,594	02
-416	-2		-414		-715	-715		-3,057	14,642	03
35	25		10		2,513	2,513		3,579	47,473	04
-293	-293		1					2,791	11,394	05+06
32	(*)		31		52	52		2,261	22,787	07
-8			-8					-43,918	87,491	08
-1	-6		5		39	39		-375	15,505	09+10
15,897		5,412		10,485	138,421		138,421	696,346	696,617	11
10,613	7,649		2,965		45,109	45,109		90,862	309,562	12
14,851	7,073	5,035	878	1,866	179	179		19,021	19,178	13
235	164		71		11,498	11,498		300,587	493,653	14
					-43	-43		42,698	46,206	15
114	93		20		560	560		779	44,267	16
41	3		1	8	132	105	26	9,940	22,613	17
402	401		1		1,648	1,648		50,406	66,520	18
127	79		48		697	697		13,592	27,692	19
28	9		18	2	300	300		5,783	119,168	20+21
163		24		138	4,336	5	4,331	53,226	65,126	22+23
633	69		564		4,933	4,933		17,569	116,303	24
103	47		56		275	275		2,016	41,730	25
123	5		117		1,039	1,039		19,549	25,053	26A
1,466	281		1,185		8,641	8,641		35,007	100,513	26B
4,298	1,806		2,492		5,526	5,526		15,135	135,276	27A
21	3		18		641	641		4,583	24,270	27B
14	4		10		2	2		4,940	65,711	28
960	736		225		7,015	7,015		62,958	96,816	29A
160	97		63		1,118	1,118		40,589	50,430	29B
15			15		1,277	1,277		2,729	18,728	30
1,925	1,580		345		14,238	14,238		62,301	139,618	31
682	449		180	53	3,070	3,070		16,991	160,807	32
38	35		4		270	270		4,022	8,654	33+34
113	5		108		236	236		1,331	22,642	35
131	14		117		300	300		-1,691	68,023	36
267	255		11		286	286		-14,693	101,909	37
365	160	74	103	28	44	44		-8,625	86,308	38
18	18				9	9		273	13,392	39
804	367	62		325	14	13	1	7,007	76,823	40
189	242		41		143	143		2,593	55,001	41
645	148	253	121	28	2,196	1,388	808	6,156	82,284	42
451	102	82	(*)	267	317	203	113	10,402	26,658	43
593	2	534	23	34	2,655	109	2,546	48,314	55,789	44+45
62		50	4	8	27	27		10,064	15,249	46
80	5	42	31	2	633	194	438	26,731	40,638	47
78	1	42	25	10	260	123	137	25,379	32,421	48
366	164	159	11	33	575	100	475	17,077	40,884	49
1,072	678	274	27	93	431	302	130	4,302	37,947	50
2,784	211	968	1,052	553	5,057	962	4,095	52,799	99,264	51
88	46	9	32	2	1,151	639	512	15,108	37,772	52
1,097	594	156	246	101	852	122	730	9,360	41,103	53
57	39	15	1	2	225	30	195	17,839	22,313	54
434	305		129		876	864	12	952	26,933	55
8,490	3,415	2,213	166	2,696	1,636	106	1,530	68,484	91,799	56
939	704		225		308	308		-2,016	137,134	57
1,408	339	729	195	145	600	306	294	9,196	27,477	58
1,163	2	671	18	472	8,936		8,936	228,200	230,676	59A
371	152	88	25	107	2,530			13	15,707	59B
27,528	19,767	6,001	965	795	98			98	95,943	60
8,099	1,002	6,904	68	124	1,234	60	1,174	39,394	44,133	61
14,683	4,436	7,177	1,692	1,378	6,480	3,487	2,993	94,552	133,097	62
721	244	405	68	5	3,457	2,466	991	13,016	20,721	63
-1,056	14	45	-1,120	5	2,835	2,101	734	33,947	50,585	64
673	375	8	286	4	5,889	5,809	80	39,583	79,667	65A
3,948	3,007	146	759	36	3,775	3,327	449	64,943	230,207	65B
1,671	1,569		103		485	485	(*)	22,691	38,469	65C
3,128	2,064	120	901	44	4,741	4,622	118	79,657	142,881	65D
27	23		4		345	345		7,945	39,469	65E
6,517	1,913		4,603		11,925	11,925		177,466	343,786	66
								3,750	5,576	67
2,571	1,546		1,023		21,060	21,060		119,304	230,091	68A
572	270		302		4,781	4,781		38,377	103,121	68B
1,119	628		491		1,558	1,558		32,534	68,432	68C
4,362	1,585	1,642	588	547	17,851	12,750	5,101	417,975	812,459	69A
2			2					685,135	743,808	69B
1,394			1,394		15,756	15,756		385,724	729,281	70A
1,435	33		1,401		962	962		193,488	344,595	70B
								631,659	631,659	71A
3,539	401		3,137		14,231	14,231		309,847	802,810	71B
688	602		86		961	961		43,644	82,286	72A
95	86		9		3,682	3,682		95,614	127,143	72B
36,450	8,223	10,032	2,162	16,033	23,216	10,335	12,882	219,329	362,292	73A
4,641	4,354		287		6,231	6,231		100,570	370,311	73B
20,751	14,121		6,631		24,035	24,035		82,038	600,791	73C
91	85		6		2,238	2,238		2,939	198,947	73D
1,400	322		1,078		-2,661	-3,661		327,559	374,737	74
353	283		71		5,475	5,475		160,796	264,812	75
1,205	1,192		12		-2,966	-2,966		135,464	204,820	76
798	19		778		-93,588	-93,588		746,044	763,827	77A
9,130	226		8,904		-34,480	-34,480		300,450	322,753	77B
1,148	1,238		-90		3,687	3,687		13,856	80,223	78
240	152		88		1,037	1,037		34,118	44,746	79
10,644	8,111		2,533					-69,413		80
1,231	556	33	85	558	3,055	441	2,614	-5,982	2,597	81
295,832	193,000		102,832		658,339	658,339		954,171	954,171	82
-809			-809							83
										84
								14,351	14,351	85
								21,538	21,538	85
										VA
539,211	299,722	49,404	153,375	36,710	999,283	808,280	191,003	8,781,523	15,432,301	T

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	Ordnance 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.