

# Annual Input-Output Accounts of the U.S. Economy, 1997

By Peter D. Kuhbach and Mark A. Planting

ON DECEMBER 18, 2000, the Bureau of Economic Analysis (BEA) released the 1997 annual input-output (I-O) accounts for the U.S. economy. These accounts, which present estimates for 94 industries, are based on the 1992 benchmark I-O accounts and are prepared using 1997 estimates of industry and commodity output and the 1997 estimates of gross domestic product (GDP) from last summer's annual revision of the national income and product accounts.<sup>1</sup> The 1997 I-O accounts are the second annual update of the 1992 benchmark I-O accounts.<sup>2</sup>

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 information on last summer's annual revision, see Eugene P. Seskin and David F. Sullivan, "Annual Revision of the National Income and Product Accounts," SURVEY 80 (August 2000): 6-139.

2. 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.

Highlights from the release of these accounts include the following:

- In terms of use, the fastest growing commodities in 1992-97 were among those that are frequently associated with high technology—computers, electronics, and data-processing services.
- The use of commodities that are often associated with outsourcing—data-processing services and other business and professional services—also grew rapidly in 1992-97.
- The I-O accounts now include a new table that provides total requirements multipliers on an industry-by-industry basis; this information is useful for analyzing industry-to-industry linkages.

The I-O accounts provide estimates of domestic production by commodity and industry, the export and import of commodities (goods and services), the use of commodities by each industry,

Table A.—The Use of Commodities by Industries, 1997

[Millions of dollars]

	Industries <sup>1</sup>										Final uses (GDP)							Total commodity output <sup>4</sup>
	Agriculture	Mining	Construction	Manufacturing	Transportation, communication, and utilities	Trade	Finance, insurance, and real estate	Services	Other <sup>2</sup>	Total intermediate use <sup>3</sup>	Personal consumption expenditures	Gross private fixed investment	Change in private inventories	Exports of goods and services	Imports of goods and services	Government consumption expenditures and gross investment	GDP <sup>4</sup>	
<b>Commodities</b>																		
Agricultural products .....	75,136	68	5,389	149,211	129	1,579	10,077	11,380	519	253,487	34,735	.....	3,697	23,495	-22,910	2,602	41,619	295,106
Minerals .....	366	32,553	6,838	114,592	62,084	32	5	31	2,946	219,446	105	1,138	6	7,755	-64,199	-457	-55,653	163,793
Construction .....	3,433	4,667	910	27,284	44,440	11,644	71,490	27,059	24,630	215,556	.....	521,520	.....	74	.....	207,157	728,752	944,308
Manufactured products	51,547	15,073	280,614	1,372,483	76,942	68,213	19,490	321,518	18,169	2,224,050	1,034,046	544,940	38,559	527,893	-769,466	207,125	1,583,097	3,807,147
Transportation, communication, and utilities	12,556	12,774	23,280	177,408	189,881	66,496	49,841	115,845	20,717	668,796	418,531	16,523	1,272	69,732	-14,026	70,570	562,601	1,231,397
Trade .....	14,741	3,803	75,419	233,912	17,528	31,455	4,821	64,471	2,712	448,860	823,726	106,057	6,073	73,343	19,617	21,491	1,050,306	1,499,166
Finance, insurance, and real estate .....	21,530	28,676	15,282	68,253	36,873	101,356	384,113	223,024	7,042	886,148	1,280,702	43,539	.....	69,079	-6,551	36,709	1,423,479	2,309,627
Services .....	8,169	5,766	91,581	229,463	131,390	200,523	172,740	472,863	11,713	1,324,207	1,893,544	139,971	318	35,226	-6,880	3,836	2,066,015	3,390,222
Other <sup>2</sup> .....	160	26	1,020	13,218	3,016	10,713	24,350	23,638	2,788	78,927	-94	-46,033	13,002	95,055	-5,837	928,245	984,337	1,063,264
Noncomparable imports	59	1,732	.....	20,768	22,794	6,986	7,424	4,935	1,410	66,109	43,989	.....	.....	.....	-120,721	10,623	-66,110	.....
Total intermediate inputs	187,696	105,138	500,334	2,406,591	585,077	498,996	744,349	1,264,765	92,643	6,385,588	.....	.....	.....	.....	.....	.....	.....	.....
Value added <sup>3</sup> .....	110,194	69,732	443,974	1,477,593	613,228	996,291	1,605,509	1,938,409	1,063,511	.....	.....	.....	.....	.....	.....	.....	.....	.....
<b>Total industry output<sup>4</sup></b>	<b>297,890</b>	<b>174,870</b>	<b>944,308</b>	<b>3,884,184</b>	<b>1,198,305</b>	<b>1,495,287</b>	<b>2,349,857</b>	<b>3,203,175</b>	<b>1,156,154</b>	<b>5,529,283</b>	<b>1,327,654</b>	<b>62,926</b>	<b>901,651</b>	<b>-990,973</b>	<b>1,487,901</b>	<b>8,318,442</b>	<b>14,704,030</b>	

<sup>1</sup> 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.

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

<sup>3</sup> Value added includes: compensation of employees, indirect business tax and nontax liability, and other value added. "Other value added" consists of the following national income and product accounts 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.

<sup>4</sup> Detail may not sum to totals due to rounding.

Table B.—Commodity Output, Imports, and Total Consumption, 1992, 1996, and 1997

[Millions of dollars]

Commodity number	Description	Output			Imports			Total consumption		
		1992	1996	1997	1992	1996	1997	1992	1996	1997
	<b>ALL COMMODITIES</b>	<b>10,857,353</b>	<b>13,789,458</b>	<b>14,704,030</b>	<b>631,637</b>	<b>904,689</b>	<b>990,973</b>	<b>11,487,126</b>	<b>14,682,707</b>	<b>15,670,636</b>
	<b>AGRICULTURE, FORESTRY, FISHERIES</b>									
	Total	235,591	287,694	295,106	14,601	20,468	22,910	245,345	303,155	314,319
1	Livestock and livestock products	89,375	96,065	100,418	2,061	2,420	2,558	90,579	99,756	103,363
2	Other agricultural products	104,546	137,455	136,349	6,860	10,614	11,969	107,371	141,800	144,299
3	Forestry and fishery products	11,865	14,536	14,925	5,659	7,423	8,371	17,569	21,950	23,231
4	Agricultural, forestry, and fishery services	29,805	39,638	43,414	21	11	12	29,826	39,649	43,426
	<b>MINING</b>									
	Total	147,562	162,445	163,793	43,527	64,795	64,199	191,196	226,216	227,987
5+6	Metallic ores mining	10,739	12,839	12,879	-1,488	-2,087	-1,921	9,275	10,831	10,945
7	Coal mining	26,917	22,908	22,973	133	286	306	27,053	22,933	23,237
8	Crude petroleum and natural gas	97,623	112,299	112,799	43,984	65,560	64,550	141,712	177,516	177,546
9+10	Nonmetallic minerals mining	12,283	14,400	15,143	898	1,036	1,263	13,156	14,936	16,259
	<b>CONSTRUCTION</b>									
	Total	679,330	867,665	944,308				679,330	867,665	944,308
11	New construction, including own-account construction	456,949	588,735	640,725				456,949	588,735	640,725
12	Maintenance and repair construction, including own-account construction	222,381	278,930	303,583				222,381	278,930	303,583
	<b>MANUFACTURING</b>									
	Total	2,890,437	3,592,909	3,807,147	485,599	699,278	769,466	3,372,470	4,272,672	4,538,054
13	Ordnance and accessories	22,217	18,302	18,827	809	947	1,075	24,881	19,033	20,673
14	Food and kindred products	408,757	464,948	485,921	21,850	26,326	28,225	430,457	489,164	512,209
15	Tobacco products	40,147	39,782	41,558	1,587	1,023	1,411	39,597	40,547	41,250
16	Broad and narrow fabrics yarn and thread mills	37,528	40,813	44,147	4,397	4,386	5,349	41,448	45,853	49,550
17	Miscellaneous textile goods and floor coverings	17,983	21,050	21,522	1,879	2,128	2,481	19,843	23,079	23,863
18	Apparel	68,637	71,155	71,751	38,484	49,791	56,319	103,224	120,702	124,639
19	Miscellaneous fabricated textile products	21,021	24,968	27,251	2,870	3,789	4,505	23,421	28,655	31,268
20+21	Lumber and wood products	87,127	111,795	117,788	7,143	12,814	14,330	93,607	124,166	130,466
22+23	Furniture and fixtures	42,849	54,527	60,223	6,026	9,718	11,354	48,690	63,993	71,574
24	Paper and allied products except containers	98,497	116,899	114,078	10,715	14,824	15,056	108,441	132,286	128,036
25	Paperboard containers and boxes	31,743	39,233	38,413	247	498	520	31,713	39,691	38,609
26A	Newspapers and periodicals	19,895	22,485	24,336	199	232	222	20,156	22,763	24,681
26B	Other printing and publishing	81,202	95,247	98,353	1,783	2,579	2,822	82,232	97,435	99,669
27A	Industrial and other chemicals	113,359	134,434	149,370	14,375	20,573	22,147	127,005	153,943	170,720
27A	Agricultural fertilizers and chemicals	17,850	22,556	24,613	2,330	3,485	3,275	20,333	26,128	27,406
28	Plastics and synthetic materials	50,944	63,071	67,749	3,827	6,433	7,283	54,532	69,389	74,491
29A	Drugs	62,321	77,890	85,355	13,193	20,317	26,766	74,222	96,594	109,561
29B	Cleaning and toilet preparations	40,557	48,232	52,380	2,052	2,779	3,019	42,423	50,649	55,009
30	Paints and allied products	14,379	17,627	18,346	200	386	459	14,537	17,837	18,654
31	Petroleum refining and related products	149,831	173,581	175,401	11,582	14,104	13,656	161,367	185,830	188,880
32	Rubber and miscellaneous plastics products	111,813	147,440	156,843	13,253	18,452	20,071	124,071	164,922	175,471
33+34	Footwear, leather, and leather products	9,538	9,007	9,532	12,824	16,928	17,976	22,031	25,673	27,203
35	Glass and glass products	17,981	21,609	22,613	2,159	3,333	3,698	19,955	24,755	26,012
36	Stone and clay products	42,291	58,228	62,304	4,551	6,618	7,563	47,038	64,471	69,356
37	Primary iron and steel manufacturing	73,922	97,252	102,368	10,893	17,231	18,137	85,154	113,207	118,840
38	Primary nonferrous metals manufacturing	64,813	83,073	87,421	10,228	16,476	18,392	75,433	99,098	105,008
39	Metal containers	13,298	13,298	13,021	201	289	304	13,429	1,359	13,227
40	Heating, plumbing, and fabricated structural metal products	49,050	65,017	71,140	1,008	1,947	2,059	50,168	66,419	72,426
41	Screw machine products and stampings	34,564	46,842	52,688	2,628	2,764	2,751	36,975	49,403	55,184
42	Other fabricated metal products	56,518	75,433	78,094	8,510	12,447	14,631	64,961	86,801	91,900
43	Engines and turbines	17,895	23,890	24,588	2,413	3,542	3,688	20,492	27,324	28,469
44+45	Farm, construction, and mining machinery	30,946	46,356	53,075	4,754	8,386	9,919	35,423	54,108	60,911
46	Materials handling machinery and equipment	8,290	12,414	13,945	1,468	2,570	2,949	9,799	14,973	16,777
47	Metalworking machinery and equipment	27,046	37,404	40,374	5,127	9,959	10,982	32,155	47,199	50,965
48	Special industry machinery and equipment	20,218	33,514	33,615	5,881	8,704	9,782	26,205	42,384	42,951
49	General industrial machinery and equipment	29,678	39,519	40,658	7,796	12,231	12,505	37,554	51,354	52,772
50	Miscellaneous machinery, except electrical	24,946	38,101	36,739	1,895	2,359	2,587	26,900	40,079	39,001
51	Computer and office equipment	62,088	93,717	98,123	32,687	60,672	68,245	96,016	155,644	164,058
52	Service industry machinery	25,801	36,571	36,268	2,243	3,218	3,253	27,879	39,427	39,425
53	Electrical industrial equipment and apparatus	28,574	38,562	39,837	5,295	8,577	9,492	33,792	47,038	49,163
54	Household appliances	16,833	20,425	20,683	4,072	5,731	6,151	21,001	26,144	27,033
55	Electric lighting and wiring equipment	19,055	23,424	25,059	4,985	6,807	7,332	23,899	30,127	32,262
56	Audio, video, and communication equipment	50,981	77,999	89,145	25,409	33,584	35,181	76,016	111,306	123,244
57	Electronic components and accessories	73,298	129,439	143,250	20,574	41,187	43,947	93,923	170,766	185,465
58	Miscellaneous electrical machinery and supplies	21,103	26,005	27,685	8,062	11,099	11,958	29,314	36,765	39,448
59A	Motor vehicles—passenger cars and trucks	149,684	200,277	221,259	58,285	81,012	87,956	206,855	280,990	306,946
59B	Truck and bus bodies, trailers, and motor vehicle parts	81,258	121,203	129,174	21,743	30,924	31,780	103,221	151,351	160,379
60	Aircraft and parts	102,154	90,630	102,433	12,153	11,712	15,475	122,318	99,933	116,608
61	Other transportation equipment	29,907	37,543	41,688	2,693	4,718	4,651	32,898	41,942	45,577
62	Scientific and controlling instruments	107,915	118,833	123,806	14,773	19,456	21,696	122,916	138,240	145,376
63	Ophthalmic and photographic equipment	22,745	23,783	22,644	8,153	10,575	11,176	30,530	34,304	33,347
64	Miscellaneous manufacturing	39,450	47,510	49,696	23,335	28,638	32,905	62,020	75,193	82,040
	<b>TRANSPORTATION, COMMUNICATION AND UTILITIES</b>									
	Total	932,030	1,164,109	1,231,397	7,932	12,563	14,026	939,006	1,175,032	1,244,152
65A	Railroads and related services; passenger ground transportation	62,058	76,283	78,362	164	189	194	62,087	76,502	78,371
65B	Motor freight transportation and warehousing	157,110	199,889	211,866	2,059	1,868	1,985	158,540	201,404	212,908
65C	Water transportation	34,347	36,820	37,136	-3,530	-4,425	-4,038	30,781	32,383	33,089
65D	Air transportation	98,819	124,344	137,175	8,544	12,723	14,786	107,226	137,016	151,817
65E	Pipelines, freight forwarders, and related services	28,966	35,761	37,648				28,958	35,734	37,658
66	Communications, except radio and TV	205,941	287,528	314,228				205,941	287,528	314,228
67	Radio and TV broadcasting	2,674	4,487	5,180				2,674	4,487	5,180
68A	Electric services—utilities	195,695	226,065	232,885	695	990	1,100	196,390	227,055	233,984
68B	Gas production and distribution—utilities	96,155	110,677	111,176	1,218			96,144	110,668	111,177
68C	Water and sanitary services	50,265	62,256	65,740				50,265	62,256	65,740

Table B.—Commodity Output, Imports, and Total Consumption, 1992, 1996, and 1997—Continued

[Millions of dollars]

Commodity number	Description	Output			Imports			Total consumption		
		1992	1996	1997	1992	1996	1997	1992	1996	1997
<b>WHOLESALE AND RETAIL TRADE</b>										
	Total .....	1,095,148	1,457,204	1,499,166	-18,317	-19,221	-19,617	1,074,173	1,435,970	1,473,476
69A	Wholesale trade .....	568,970	769,833	804,290	-18,317	-19,221	-19,617	547,995	748,598	778,600
69B	Retail trade .....	526,178	687,371	694,876				526,178	687,371	694,876
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>										
	Total .....	1,639,416	2,115,020	2,309,627	1,412	4,199	6,551	1,640,828	2,119,219	2,316,178
70A	Finance .....	390,774	555,217	639,350	265	526	889	391,039	555,743	640,239
70B	Insurance .....	231,654	304,295	337,367	1,136	3,662	5,646	232,790	307,957	343,012
71A	Owner-occupied dwellings .....	457,250	561,548	591,837				457,250	561,548	591,837
71B	Real estate and royalties .....	559,738	693,960	741,073	11	11	16	559,749	693,971	741,089
<b>SERVICES</b>										
	Total .....	2,388,808	3,133,709	3,390,222	4,027	6,265	6,880	2,392,872	3,139,880	3,396,784
72A	Hotels and lodging places .....	58,936	72,325	77,855				58,936	72,325	77,855
72B	Personal and repair services—except auto .....	92,016	115,200	119,364				92,016	115,200	119,364
73A	Computer and data processing services, including own-account software .....	152,744	254,081	305,384	225	449	497	153,010	254,440	305,568
73B	Legal, engineering, accounting, and related services .....	252,597	312,734	338,350	839	1,608	1,626	253,436	314,341	339,977
73C	Other business and professional services, except medical .....	332,385	478,767	533,214	1,632	2,124	2,449	334,017	480,891	535,663
73D	Advertising .....	138,530	175,210	186,963	615	1,246	1,361	139,145	176,455	188,324
74	Eating and drinking places .....	282,017	337,370	357,943				282,017	337,370	357,943
75	Automotive repair and services .....	164,408	236,460	251,976	6	2	3	164,410	236,460	251,974
76	Amusements .....	122,937	175,505	190,881	248	402	371	123,185	175,907	191,252
77A	Health services .....	564,607	684,210	726,052	13	8	9	564,620	684,218	726,060
77B	Educational and social services, and membership organizations .....	227,631	291,848	302,241	449	426	564	228,080	292,274	302,805
<b>SPECIAL INDUSTRIES</b>										
	Total .....	849,031	1,008,705	1,063,264	92,856	116,342	126,559	948,340	1,123,384	1,176,821
78	Federal Government enterprises .....	50,200	67,101	74,750				50,200	67,101	74,750
79	State and local government enterprises .....	30,162	39,431	43,561				30,162	39,431	43,561
80	Noncomparable imports .....			90,036	111,687	120,721	90,036	111,687	120,721	
81	Scrap, used and secondhand goods .....	2,175	2,457	1,542	2,746	4,608	5,797	3,392	6,093	5,088
82	General government industry .....	764,389	886,742	920,196				764,389	886,742	920,196
83	Rest of world adjustment to final uses .....				74	47	40	74	47	40
84	Household industry .....	10,087	12,284	12,464				10,087	12,284	12,464
85	Inventry valuation adjustment .....	-7,982	690	10,751						

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.

the commodity composition of GDP (final demand), and the industry distribution of value added. The annual I-O accounts are used in a variety of analytical and statistical contexts, including studies of interindustry relationships within the economy and as the basis for developing satellite accounts on particular aspects of economic activity.

### The 1997 annual I-O tables

The full 1997 annual I-O accounts are presented in eight tables.<sup>3</sup> Two make tables, one that is based on I-O definitions of industry inputs (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.<sup>4</sup> (Table A provides a summary version of the use table.)

3. Tables 1, 2, and 8 are at the end of this article. All eight tables are available electronically; see the box "Data Availability" on page 15.

4. The alternative tables conform more closely to the current SIC establishment-based data collection system by showing the primary and secondary products in the industries that produce them. As a result, the industry definitions, which are used to determine the columns of the use table and the rows of the make table, may differ from those used in the traditional I-O tables.

Four requirements tables are derived from the make and use tables. The direct requirements table shows the amount of a commodity that is required by an industry to produce a dollar of that industry's output. The three total requirements tables show the production that is required, directly and indirectly, to meet purchases from final demand. The new table "Industry-by-Industry Total Requirements" (table 8) presents these total requirements with final-demand purchases classified by industry. This presentation is frequently used in I-O analysis when data on purchases are available only as purchases from industries rather than as purchases of commodities; it is also used to analyze industry-to-industry interdependencies or "linkages"—for example, the purchases of one industry's output by all other industries or the purchases of all other industries' output by one industry.

The presentation of the annual I-O tables is generally the same as that of the benchmark I-O tables, but the information is less detailed. The annual I-O tables present summary estimates for 94 industries, while the benchmark I-O tables present more detailed estimates for 498 industries.<sup>5</sup> The

Table C.—Commodity Consumption by Major Sector 1992, 1996, and 1997

[Millions of dollars]

Commodity number	Description	Total intermediate input use			Personal consumption expenditures			Gross private fixed investment			Exports of goods and services			Government consumption expenditures and gross investment		
		1992	1996	1997	1992	1996	1997	1992	1996	1997	1992	1996	1997	1992	1996	1997
	<b>ALL COMMODITIES</b> .....	4,555,250	5,976,283	6,385,588	4,208,718	5,237,500	5,529,283	851,785	1,212,697	1,327,654	602,609	810,729	901,651	1,265,199	1,421,944	1,487,901
	<b>AGRICULTURE, FORESTRY, FISHERIES</b>															
	Total .....	197,601	240,282	253,487	27,054	33,361	34,735							19,857	23,001	23,495
1	Livestock and livestock products .....	85,869	93,913	97,732	3,709	4,748	4,398							800	796	967
2	Other agricultural products .....	71,142	93,416	97,925	19,531	23,718	25,025							16,116	19,588	20,223
3	Forestry and fishery products .....	13,280	16,650	17,843	3,085	3,996	4,344							2,880	2,588	2,272
4	Agricultural, forestry, and fishery services .....	27,310	36,303	39,986	729	900	968							61	29	33
	<b>MINING</b>															
	Total .....	183,026	217,545	219,446	107	98	105	73	1,017	1,138	8,202	8,124	7,755	-212	-568	-457
5+6	Metallic ores mining .....	8,268	9,048	8,973				50	953	948	1,104	1,129	1,306	-147	-298	-282
7	Coal mining .....	23,786	20,265	20,756	68	54	55				3,122	2,534	2,344	77	81	82
8	Crude petroleum and natural gas .....	138,601	174,136	174,357				23	65	189	3,290	3,734	3,322	-202	-418	-321
9+10	Nonmetallic minerals mining .....	12,371	14,097	15,361	39	44	50				686	727	783	60	68	64
	<b>CONSTRUCTION</b>															
	Total .....	159,618	197,307	215,556				360,278	481,126	521,520	77	97	74	159,357	189,135	207,157
11	New construction, including own-account construction .....	170	236	340				339,916	451,315	488,457				116,863	137,184	151,928
12	Maintenance and repair construction, including own-account construction .....	159,448	197,071	215,216				20,362	29,811	33,063	77	97	74	42,494	51,951	55,229
	<b>MANUFACTURING</b>															
	Total .....	1,639,510	2,117,701	2,224,050	842,150	975,781	1,034,046	339,058	505,582	544,940	342,980	465,384	527,893	208,772	208,251	207,125
13	Ordnance and accessories .....	465	690	385	1,473	1,330	1,495	29	22	291	3,592	3,343	3,237	19,322	13,648	15,265
14	Food and kindred products .....	153,699	178,591	190,896	248,010	273,979	282,777				19,630	25,639	27,513	9,118	10,956	11,023
15	Tobacco products .....	3,348	2,667	3,479	30,395	31,677	31,748				5,874	6,235	6,062	-20	-31	-38
16	Broad and narrow fabrics, yarn and thread mills .....	37,127	40,823	43,804	1,683	1,731	1,898				2,359	2,958	3,208	279	341	640
17	Miscellaneous textile goods and floor coverings .....	10,074	11,669	11,954	5,578	6,527	6,696	2,343	2,715	2,720	1,724	2,048	2,321	124	119	171
18	Apparel .....	16,628	19,080	17,179	80,934	92,502	97,322				4,065	6,987	8,234	1,597	2,133	1,905
19	Miscellaneous fabricated textile products .....	10,770	13,058	14,014	11,189	13,895	15,477				810	917	1,003	652	785	774
20+21	Lumber and wood products .....	80,245	105,766	110,878	2,529	2,875	3,168	4,661	8,955	9,921	5,965	6,336	6,185	207	233	314
22+23	Furniture and fixtures .....	5,479	8,630	10,408	21,623	27,911	29,643	16,091	20,784	23,332	2,633	3,215	3,865	2,864	3,454	4,326
24	Paper and allied products, except containers .....	80,994	99,029	94,820	14,921	17,126	16,625				8,567	11,314	11,582	3,959	4,817	5,010
25	Paperboard containers and boxes .....	30,352	37,680	36,560	381	471	383				6,911	1,159	1,304	289	382	363
26A	Newspapers and periodicals .....	4,401	5,314	5,345	14,339	15,959	17,424				653	628	791	763	861	1,121
26B	Other printing and publishing .....	56,500	65,396	64,585	15,282	19,806	21,669				2,984	3,290	3,635	7,466	8,943	9,780
27A	Industrial and other chemicals .....	97,797	118,689	132,738	2,154	2,390	2,170	1,957	1,779	1,345	17,292	22,562	25,220	7,805	8,222	9,249
27B	Agricultural fertilizers and chemicals .....	15,545	20,084	20,695	920	895	1,430				3,341	4,459	4,638	527	690	642
28	Plastics and synthetic materials .....	46,036	57,104	61,022	43,864	56,851	63,173				8,477	12,271	13,453	19	14	16
29A	Drugs .....	17,620	22,679	28,240	30,098	35,198	37,430				7,272	9,885	10,384	5,466	7,179	7,764
29B	Cleaning and toilet preparations .....	8,826	10,533	11,786	30,098	35,198	37,430				2,591	3,826	4,513	908	1,092	1,280
30	Paints and allied products .....	12,894	15,700	15,809	480	613	645				745	1,009	1,185	418	515	1,214
31	Petroleum refining and related products .....	83,751	98,762	98,644	53,355	59,995	62,255				9,084	9,925	10,244	15,177	17,148	16,737
32	Rubber and miscellaneous plastics products .....	99,363	132,294	139,287	15,051	18,764	20,302	215	299	335	6,905	10,225	11,932	2,537	3,342	3,616
33-34	Footwear, leather, and leather products .....	3,871	4,328	4,730	16,491	19,382	20,320				1,464	1,686	1,863	205	276	290
35	Glass and glass products .....	16,883	20,512	21,858	979	1,437	1,299				1,544	2,174	2,518	549	632	336
36	Stone and clay products .....	42,481	58,800	63,039	2,570	3,206	3,432				1,713	2,171	2,455	274	294	429
37	Primary iron and steel manufacturing .....	81,280	108,287	113,138	36	42	64	16	25	50	3,505	4,338	5,049	317	515	538
38	Primary nonferrous metals manufacturing .....	68,611	89,416	94,237	71	82	78	52	67	70	6,379	9,085	10,214	320	449	409
39	Metal containers .....	13,025	13,215	12,807				38	52	65	341	302	328	25	28	27
40	Heating, plumbing, and fabricated structural metal products .....	43,481	57,469	63,210	326	312	559	3,612	4,959	4,485	2,061	2,713	3,356	688	786	816
41	Screw machine products and stampings .....	33,140	46,025	51,437	1,345	1,648	1,933				2,171	1,353	1,492	319	377	322
42	Other fabricated metal products .....	51,306	67,639	71,608	4,266	5,415	5,623	2,415	3,462	3,454	4,849	7,643	8,428	2,125	2,642	2,787
43	Engines and turbines .....	10,279	14,149	13,972	169	182	222	3,271	3,790	3,656	5,419	8,309	9,890	1,354	894	729
44+45	Farm, construction, and mining machinery .....	6,049	6,230	6,693	400	240	258	17,803	32,594	36,096	9,002	12,391	14,979	2,169	2,653	2,885
46	Machinery handling machinery and equipment .....	2,674	3,960	4,393				5,743	9,071	10,017	1,302	1,869	2,284	80	72	83
47	Metalworking machinery and equipment .....	9,666	12,808	13,720	687	1,032	1,091	17,652	27,539	29,340	3,686	5,270	6,139	464	550	674
48	Special industry machinery and equipment .....	4,224	7,209	6,732	237	257	231	16,820	25,835	27,042	4,510	8,473	8,624	414	610	322
49	General industrial machinery and equipment .....	17,643	23,677	22,406				11,300	15,967	17,066	7,834	10,701	12,403	777	1,009	898
50	Miscellaneous machinery, except electrical .....	22,989	34,863	33,031	136	135	120	700	728	832	1,962	3,272	4,033	1,113	1,080	986
51	Computer and office equipment .....	24,759	41,314	39,902	5,368	10,523	11,375	36,169	58,280	64,375	22,925	37,079	40,337	6,795	8,448	8,069
52	Service industry machinery .....	14,939	20,838	21,846	910	1,434	1,150	7,376	10,558	10,000	3,320	4,712	5,238	1,334	1,886	1,191
53	Electrical industrial equipment and apparatus .....	21,175	31,181	31,026	200	264	269	6,826	8,523	9,505	4,083	5,524	6,479	1,508	1,547	1,885
54	Household appliances .....	2,658	3,822	4,325	13,100	15,378	15,956	2,668	3,699	3,425	2,329	2,940	3,055	246	305	272
55	Electric lighting and wiring equipment .....	17,691	22,093	24,035	2,023	2,220	2,149	283	360	288	2,839	4,125	4,522	1,063	1,329	1,269
56	Audio, video, and communication equipment .....	12,017	16,525	21,231	21,682	26,764	26,825	24,513	40,882	44,024	9,551	16,432	19,525	8,253	10,705	11,639
57	Electronic components and accessories .....	75,400	136,813	144,815	216	189	245				16,150	32,351	39,093	2,157	1,413	1,312
58	Miscellaneous electrical machinery and supplies .....	13,375	17,541	17,956	6,298	7,269	8,196	2,058	1,868	2,516	5,702	8,287	8,817	1,881	1,799	1,962
59A	Motor vehicles—passenger cars and trucks .....	1,844	2,259	2,747	105,552	117,402	131,931	75,132	127,634	137,584	16,336	24,583	25,125	7,991	9,112	9,559
59B	Truck and bus bodies, trailers, and motor vehicle parts .....	74,459	108,729	114,268	4,277	5,723	5,728	4,981	9,527	8,963	16,995	24,614	28,633	2,509	2,782	2,787
60	Aircraft and parts .....	29,930	21,268	27,310	465	385	219	13,676	11,072	13,838	40,656	36,153	48,545	37,591	31,054	26,696
61	Other transportation equipment .....	3,092	4,084	4,604	11,958	15,822	17,128	4,741	9,167	10,644	3,354	3,598	4,38			

**Table C.—Commodity Consumption by Major Sector 1992, 1996, and 1997—Continued**  
[Millions of dollars]

Commodity number	Description	Total intermediate input use			Personal consumption expenditures			Gross private fixed investment			Exports of goods and services			Government consumption expenditures and gross investment		
		1992	1996	1997	1992	1996	1997	1992	1996	1997	1992	1996	1997	1992	1996	1997
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>																
	Total .....	584,145	791,422	886,148	960,078	1,186,672	1,280,702	28,407	39,368	43,539	39,510	63,885	69,079	28,688	37,871	36,709
70A	Finance .....	163,754	248,812	288,601	198,007	264,306	304,148				17,142	26,922	30,822	12,136	15,703	16,669
70B	Insurance .....	90,095	129,325	146,682	138,181	172,314	189,765				1,685	3,384	3,515	2,829	2,934	3,050
71A	Owner-occupied dwellings .....				457,250	561,548	591,837									
71B	Real estate and royalties .....	330,296	413,285	450,865	166,640	188,505	194,952	28,407	39,368	43,539	20,683	33,579	34,742	13,723	19,234	16,991
<b>SERVICES</b>																
	Total .....	870,832	1,214,045	1,324,207	1,413,094	1,795,058	1,893,544	80,020	117,681	139,971	19,530	26,179	35,226	9,397	-13,083	3,836
72A	Hotels and lodging places .....	27,260	33,466	36,057	29,881	37,412	40,071				48	68	114	1,747	1,380	1,613
72B	Personal and repair services—except auto .....	23,579	29,041	30,108	65,602	82,345	85,560				42	32	74	2,793	3,781	3,622
73A	Computer and data processing services, including own-account software .....	50,237	100,383	120,766	2,444	6,867	8,476	64,235	98,142	120,335	3,092	3,904	4,406	33,003	45,143	51,585
73B	Legal, engineering, accounting, and related services .....	179,136	223,797	245,113	45,781	52,827	56,367	15,785	19,539	19,636	5,013	7,691	8,542	7,721	10,489	10,318
73C	Other business and professional services, except medical .....	271,050	409,128	453,549	20,917	27,317	28,581				5,677	5,847	9,086	36,373	38,599	44,447
73D	Advertising .....	136,364	172,547	184,119	676	947	1,053				531	826	921	1,574	2,136	2,231
74	Eating and drinking places .....	41,383	43,837	47,969	242,151	295,680	311,168				328	417	710	-1,845	-2,565	-1,905
75	Automotive repair and services .....	70,073	95,999	99,065	90,099	133,963	146,108				34	898	1,183	4,204	5,599	5,618
76	Amusements .....	41,927	63,645	66,266	78,466	108,225	117,315				4,289	5,951	9,380	-1,497	-1,914	-1,709
77A	Health services .....	13,484	14,803	15,923	611,328	760,000	798,000				26	21	204	-60,218	-90,607	-88,067
77B	Educational and social services, and membership organizations .....	16,339	27,397	25,272	225,749	289,476	300,845				450	524	607	-14,458	-25,124	-23,918
<b>SPECIAL INDUSTRIES</b>																
	Total .....	98,369	129,599	145,037	23,172	42,934	43,894	-30,293	-46,563	-46,033	73,385	91,118	95,055	783,707	906,297	938,868
78	Federal Government enterprises .....	39,448	53,542	61,052	6,881	8,328	8,511				188	274	273	3,683	4,956	4,914
79	State and local government enterprises .....	6,810	6,448	10,107	22,489	31,863	32,220							863	1,120	1,234
80	Noncomparable imports .....	44,964	60,727	66,110	33,009	40,195	43,989							12,063	10,765	10,623
81	Scrap, used and secondhand goods .....	7,147	8,882	7,768	17,187	34,186	34,555	-30,293	-46,563	-46,033	5,872	6,171	6,075	3,479	3,418	2,724
82	General government industry .....													764,389	886,742	920,196
83	Rest of world adjustment to final uses .....				-66,481	-83,923	-87,844				67,325	84,673	88,707	-770	-704	-823
84	Household industry .....				10,087	12,284	12,464									
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.

annual use table presents 11 categories of final uses, while the benchmark use table presents 203 categories.<sup>6</sup> The annual use and total direct requirements tables present estimates of total value added by industry, while the corresponding benchmark tables also decompose the total value into detailed estimates of value added for compensation of employees, indirect business tax and other nontax liability, and other value added.

The estimates of commodity output and industry output in the make and use tables and the estimates of final uses in the use table are based on annual source data. Most of the other estimates are based on updated relationships from the 1992 benchmark I-O accounts.<sup>7</sup>

**Uses of the I-O accounts**

The I-O accounts are an important tool for economic analysis because they show the interdependence among producers and consumers in the U.S. economy. The accounts show the commodity composition of GDP (final demand), and the

commodities used by the business sector to produce GDP (intermediate demand). Changes in the use of commodities provide information about changes in the structure of the economy and about the effect of these changes on production and economic growth. For example, a recent study of the contribution of computer and data-processing services to economic growth used I-O tables for 1972–96.<sup>8</sup> Another study used the same set of tables to evaluate changes in the level of interindustry linkages and the effect of international trade on those linkages; the study shows that U.S. domestic industry interdependencies decreased over the period, partly as the result of declining manufacturing production and increased import penetration.<sup>9</sup>

**Changes in the composition of total consumption, 1992–97**

The series of I-O accounts can be used for comparisons of the structure of the U.S. economy over time. Changes in the use of commodities by the

5. Detailed 1997 I-O estimates for 498 industries have been prepared for use in research (see the box "Data Availability").

6. The benchmark I-O tables include 136 categories for personal consumption expenditures, 26 categories for structures, and 30 categories for private fixed investment and software.

7. "Final uses" in the I-O accounts are the same as the "product-side" components of GDP in the NIPAS.

8. Laurence R. Klein postulates that I-O measures of deliveries of computer and data-processing services to other intermediate sectors and to final-demand sectors indicate the diffusion of information technology; Laurence R. Klein, "Sustainability and Global Reach of IT" (paper presented at the WEFA Annual Symposium on International Issues, New York, October 2000).

9. Jiemen Guo and Mark A. Planting, "Using Input-Output Analysis to Measure U.S. Economic Structural Change Over 25 Years" (paper presented at the 13<sup>th</sup> International Conference on Input-Output Techniques, Macerata, Italy, August 21–26, 2000).

economy, both domestically and for export, are measured by changes in the composition of total consumption (table B).<sup>10</sup> Comparisons over time of the consumption of commodities by sector provide indications of where structural changes are occurring (table C).

Over 1992–97, total commodity consumption grew at an average annual rate of 6.4 percent (table D). The consumption of services commodities (6.6 percent) grew faster than that of goods commodities (6.1 percent). Among the major commodity groups, the fastest rates of change were in “services” (7.3 percent) and finance, insurance and real estate (7.1 percent). Over the last year of the period, 1996–97, the fastest growth was in finance, insurance, and real estate (9.3 percent), transportation, communication, and utilities (8.8 percent), construction (8.8 percent), and “services” (8.2 percent).

10. 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.

**Table D.—Commodity Consumption Growth Rates by Major Commodity Group, 1992–97**

Commodity	Consumption average annual rate of growth (percent)	
	1992–97	1996–97
<b>All commodities</b> .....	<b>6.4</b>	<b>6.6</b>
Goods commodities .....	6.1	6.3
Agriculture, forestry, fisheries .....	5.1	3.7
Mining .....	3.6	0.8
Construction .....	6.8	8.8
Manufacturing .....	6.1	6.2
Services commodities .....	6.6	6.8
Transportation, communication, and utilities .....	6.8	8.8
Wholesale and retail trade .....	6.5	2.6
Finance, insurance, and real estate .....	7.1	9.3
Services .....	7.3	8.2
Special industries .....	4.4	4.8

The 15 commodities that accounted for at least 1 percent of total supply in 1997 and that grew faster than the overall commodity average in 1992–97 are shown in table E. These commodities included the following “high technology” commodities—computer and office equipment, electronic components and accessories, “communications, except radio and TV,” and “computer and data-processing services, including own-account software.” Consumption of these four commodities grew 12.0 percent, almost twice the rate of growth of all commodities, and the group’s share of total consumption grew from 5 percent in 1992 to 6 percent, or \$969.3 billion, in 1997.<sup>11</sup>

Among these commodities were at least two services that are often associated with “outsourcing”—other business and professional services and, again, “computer and data-processing services including own-account software.” Consumption of these two commodities grew at an average annual rate of 11.6 percent in 1992–97 and 14.4 percent in 1996–97. These commodities accounted for 5 percent, or \$841.2 billion, of total consumption in 1997, up from 4 percent in 1992.

These commodities also include finance, which grew at an average annual rate of growth of 10.4 percent over 1992–97 and accounted for 4.1 percent of total consumption in 1997. This commodity includes banking, credit agencies other than banking, and security and commodity brokers. Most of the above-average growth in finance was accounted for by rapid growth in the use of security and commodity brokers services—particularly

11. In real terms, the growth rates of these commodities is much faster because of the declining prices of computers, electronic components, telecommunications services, and software.

**Table E.—Commodities with Fastest Growing Consumption, 1992–97**

Commodity number	Description	Consumption average annual rate of growth (percent)		1997	
		1992–97	1996–97	Consumption (millions of dollars)	Percent of total commodity consumption
11	New construction, including own-account construction .....	7.0	8.8	640,725	4.1
12	Maintenance and repair construction, including own-account construction .....	6.4	8.8	303,583	1.9
32	Rubber and miscellaneous plastics products .....	7.2	6.4	175,471	1.1
51	Computer and office equipment .....	11.3	5.4	164,058	1.0
57	Electronic components and accessories .....	14.6	8.6	185,465	1.2
59A	Motor vehicles—passenger cars and trucks .....	8.2	9.2	306,946	2.0
59B	Truck and bus bodies, trailers, and motor vehicle parts .....	9.2	6.0	160,380	1.0
66	Communications, except radio and TV .....	8.8	9.3	314,228	2.0
69A	Wholesale trade .....	7.3	4.0	778,600	5.0
70A	Finance .....	10.4	15.2	640,239	4.1
70B	Insurance .....	8.1	11.4	343,012	2.2
73A	Computer and data processing services, including own-account software .....	14.8	20.1	305,568	1.9
73C	Other business and professional services, except medical .....	9.9	11.4	535,663	3.4
75	Automotive repair and services .....	8.9	6.6	251,974	1.6
76	Amusements .....	9.2	8.7	191,252	1.2

securities commissions, underwriting fees, and other services.

For the six aforementioned commodities, the rapid growth in consumption can be traced to growth in demand by both intermediate and final users (table F). The growth in the consumption of electronic components and accessories and “other business and professional services, except medical” was due to growth in intermediate demand. Final users were primarily responsible for the increased consumption of computer and office equipment. Growth in the consumption of the other three commodities was the result of growth in demand from both sources.

*Computer and office equipment.*—Nearly 90 percent of computer and office equipment was consumed by the intermediate, gross private fixed investment (GPFI), and export sectors, and both the GPFI and export sectors grew at rates of at least 12 percent. In addition, personal consumption expenditures (PCE), which accounted for only 6.9 percent of total consumption, grew 16.2 percent.

*Electronic components and accessories.*—Nearly four-fifths of all electronic components and accessories flowed to intermediate uses, and virtually all of the remainder was exported. Intermediate use grew 13.9 percent, and exports grew 19.3 percent.

*Communications, except radio and TV.*—Ninety percent of “communications, except radio and TV” was consumed by the intermediate and PCE sectors, and another 5.7 percent was consumed by the government sector. Consumption by all three sectors grew between 8 and 10 percent.

*Computer and data-processing services, including own-account software.*—Nearly 95 percent of “computer and data-processing services, including own-account software” was used by the intermediate, GPFI, and government sectors; the intermediate and GPFI sectors had a combined growth rate of more than 16 percent. In addition, PCE (primarily for prepackaged software), which accounted for only 2.8 percent of total consumption, grew 28.2 percent.

*Other business and professional services, except medical.*—Over four-fifths of “other business and professional services, except medical” was consumed in intermediate uses, and consumption by this sector grew 10.8 percent.

Table F.—Consumption Growth Rates by Sector for Selected Commodities 1992–97

Commodity number	Description	Consumption growth, average annual rate of growth, 1992–97 (percent)	1997	
			Consumption (millions of dollars)	Percent of total commodity consumption
51	Computer and office equipment:			
	Total .....	11.3	164,058	100.0
	Intermediate .....	10.0	39,902	24.3
	PCE .....	16.2	11,375	6.9
	GPFI .....	12.2	64,375	39.2
	Exports .....	12.0	40,337	24.6
57	Government .....	3.5	8,069	4.9
	Electronic components and accessories:			
	Total .....	14.6	185,465	100.0
	Intermediate .....	13.9	144,815	78.1
66	PCE .....	2.5	245	0.1
	GPFI .....			
	Exports .....	19.3	39,093	21.1
	Government .....	-9.5	1,312	0.7
70A	Communications, except radio and TV:			
	Total .....	8.8	314,228	100.0
	Intermediate .....	9.6	150,284	47.8
	PCE .....	8.2	134,243	42.7
	GPFI .....	6.3	6,884	2.2
	Exports .....	6.5	4,931	1.6
73A	Government .....	8.7	17,887	5.7
	Finance:			
	Total .....	10.4	640,239	100.0
	Intermediate .....	12.0	288,601	45.1
73C	PCE .....	9.0	304,148	47.5
	GPFI .....			
	Exports .....	12.5	30,822	4.8
	Government .....	6.6	16,669	2.6
73A	Computer and data processing services, including own-account software:			
	Total .....	14.8	305,568	100.0
	Intermediate .....	19.2	120,766	39.5
	PCE .....	28.2	8,476	2.8
	GPFI .....	13.4	120,335	39.4
	Exports .....	7.3	4,406	1.4
73C	Government .....	9.3	51,585	16.9
	Other business and professional services, except medical:			
	Total .....	9.9	535,663	100.0
	Intermediate .....	10.8	453,549	84.7
73C	PCE .....	6.4	28,581	5.3
	GPFI .....			
	Exports .....	9.9	9,086	1.7
	Government .....	4.1	44,447	8.3

PCE: Personal consumption expenditures  
GPFI: Gross private fixed investment

**Data Availability**

The estimates for 94 industries 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. (Estimates for 498 industries at the I-O six-digit level are also available; these estimates are less reliable, but they are made available for research that requires a high level of detail.) Go to <www.bea.doc.gov>, click on “Industry and wealth data,” and look under “Input-Output data.”

The two-digit I-O estimates are also available for \$20 on diskette—product number NDN-0271. To order, call the BEA Order Desk at 1-800-704-0415 (outside the United States, call 202-606-9666).

### Acknowledgments

Mark A. Planting supervised the preparation of the 1997 annual input-output (I-O) estimates. Sumiye Okubo, Associate Director for Industry Accounts, and Ann M. Lawson, Chief of the Industry Economics Division, provided overall guidance. Felicia V. Candela, Peter D. Kuhbach, Tameka R. Lee, Greg R. Linder, Sherlene K. S. Lum, Demian J. McGarry, Kimberly A. Mourey, Brian C. Moyer, William H. Nicolls IV, Robert S. Robinowitz, and Regina K. Vilasmil prepared the estimates. Karen J. Horowitz provided valuable assistance. Jiemin Guo of the Bureau of Transportation Statistics, U.S. Department of Transportation, also contributed to the preparation of the estimates.

*Finance.*—The intermediate and PCE sectors accounted for more than 90 percent of total consumption, and these two sectors averaged over 10-percent growth.

#### *Methodology for the 1997 annual I-O accounts*

The methodology used to prepare the 1997 annual I-O accounts is similar to that used for the 1996

annual I-O accounts. These accounts are based on the 1992 benchmark I-O accounts and on the most recently revised and updated estimates from the NIPA's. The annual estimates are based on less comprehensive and less detailed source data; for the annual estimates for which data were unavailable, the relationships from the 1992 benchmark accounts were extrapolated to 1997.

The annual I-O estimates are prepared in five steps: (1) The output total for each industry and commodity is calculated; (2) the commodity composition of intermediate inputs for each industry is estimated; (3) the domestic supply of each commodity is estimated; (4) the commodity compositions of the GDP expenditure components for PCE, gross private fixed investment, and government consumption and investment expenditures are derived; and (5) the table is balanced.<sup>12</sup>

*An appendix and tables 1, 2 and 8 follow.* 

<sup>12</sup>. For a more complete description of the methodology see Okubo, Lawson, and Planting, 42–46.



**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
<b>AGRICULTURE, FORESTRY, AND FISHERIES</b>					
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
<b>MINING</b>					
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
<b>CONSTRUCTION</b>					
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
<b>MANUFACTURING</b>					
13	Ordnance and accessories .....	348, 3761, 3795	64	Miscellaneous manufacturing .....	39
14	Food and kindred products .....	20	<b>TRANSPORTATION, COMMUNICATION, AND UTILITIES</b>		
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	<b>WHOLESALE AND RETAIL TRADE</b>		
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	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>		
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	<b>SERVICES</b>		
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	<b>SPECIAL INDUSTRIES</b>		
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	Non-metallic 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	1	2	3	4	5+6	7	8	9+10	11	12
1	Livestock and livestock products .....	100,418		166	785						
2	Other agricultural products .....		136,349	3,432	1,642						
3	Forestry and fishery products .....			11,327							
4	Agricultural, forestry, and fishery services .....				40,987						
5+6	Metallic ores mining .....					12,865				11	
7	Coal mining .....						22,961			2	
8	Crude petroleum and natural gas .....							112,799			
9+10	Nonmetallic minerals mining .....						14			15,130	
11	New construction, including own-account construction .....									3	
12	Maintenance and repair construction, including own-account construction .....										640,725
13	Ordnance and accessories .....										303,583
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 .....	100,418	136,349	14,925	43,414	12,879	22,973	112,799	15,143	640,725	303,583

\* Less than \$500,000.

**by Industries, 1997**  
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	Industry number
13	14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	
	934						230								1
															2
															3
															4
															5+6
															7
															8
															9+10
															11
															12
17,823															13
	484,215					10			30	10			1,351	2	14
		41,534				4			4				13		15
			43,351	253	242	1,905			1						16
			38	20,278	6	234	1	1	103	7					17
			620	44	71,422	351			2						18
			125	145	14	24,243			34			24			19
	1					4	6	56	32						20+21
6						116,249	142	142	32	14			12	9	22+23
						28	342	59,505	16			6			24
		24				86	123	25	111,513	237		523	248		25
	7					10			90	37,826		56			26
											22,975	3,006			26A
											1,361	94,171			26B
1	102				14	24	4		563	21			8		27A
	250				3		1	2	28				125,320	1,334	27B
	83						14		1				1,558	21,621	28
					148								6,272	381	29A
70													970	340	29B
	139				2	3			9				1,997	703	30
									8				99	7	31
									9				7,777	140	32
6	49		1	147		61	177	63	646	148		29	277	47	33+34
	13		9		48	16	1	4		1		17			35
						4	4	37		28					36
	1					9	23	6		153			146	2	37
						3				2			46	15	38
			3										542		39
											30		10		40
						2	80	113					69		41
1						3	4	12					3		42
5						11	38	49		259	5		178	5	43
															44+45
7	9							8					30		46
	6							1							47
								25					1		48
								1							49
	31				2			2							50
					1			4		15					51
2						4		1							52
								3							53
	6					7		42		34					54
5						4				1					55
						41	63	13					9		56
							2	2	13				57	19	57
								3					14		58
													3	28	59A
						1				7					59B
															60
40					1	17	1	14							61
368															62
37						44	46	1					14		63
517					19	2	4	43		207					64
					3	1		5		275			108	1	65A
9	5				19	133	355	47		22		22	263	10	65B
												185	32		65C
															65D
															65E
															66
															67
															68A
															68B
															68C
															69A
															69B
															70A
															70B
															71A
															71B
															72A
															72B
															73A
															73B
															73C
													11		73D
															74
															75
															76
															77A
															77B
															78
															79
															82
															84
															85
18,827	485,921	41,558	44,147	21,522	71,751	27,251	117,788	60,223	114,078	38,413	24,336	98,353	149,371	24,613	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  For the distribution of commodities produced by an industry, read the row for that industry	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
		28	29A	29B	30	31	32	33+34	35	36	37
	Commodity number	28	29A	29B	30	31	32	33+34	35	36	37
1	Livestock and livestock products .....										
2	Other agricultural products .....										
3	Forestry and fishery products .....										
4	Agricultural, forestry, and fishery services .....										
5+6	Metallic ores mining .....									3	
7	Coal mining .....										
8	Crude petroleum and natural gas .....					8,566					
9+10	Nonmetallic minerals mining .....					92				415	
11	New construction, including own-account construction .....										
12	Maintenance and repair construction, including own-account construction .....										
13	Ordnance and accessories .....			8							17
14	Food and kindred products .....		240	115			36	251			
15	Tobacco products .....										
16	Broad and narrow fabrics, yarn and thread mills .....	2,704		9			2	7			
17	Miscellaneous textile goods and floor coverings .....	351	2			31	70	101			
18	Apparel .....	53		3			41	56			
19	Miscellaneous fabricated textile products .....			42			94	24			
20+21	Lumber and wood products .....						185		118	9	
22+23	Furniture and fixtures .....				1		133	6	104	8	16
24	Paper and allied products, except containers .....		1	1,453	7		1,435			21	
25	Paperboard containers and boxes .....			3			514				
26A	Newspapers and periodicals .....										
26B	Other printing and publishing .....						15	52		4	
27A	Industrial and other chemicals .....	7,253	575	1,059	337	2,256	404		8	197	50
27B	Agricultural fertilizers and chemicals .....	354	91	49		7	1	1		1	
28	Plastics and synthetic materials .....	55,463	186	56	21	14	916			4	3
29A	Drugs .....	19	83,208	757			2				
29B	Cleaning and toilet preparations .....	452	636	48,514	81	60	18				20
30	Paints and allied products .....	156		12	17,660	8	3			53	
31	Petroleum refining and related products .....	173	3	117	6	164,220	15		16	108	5
32	Rubber and miscellaneous plastics products .....	636	3	45	45	1	150,564	15	74	8	33
33+34	Footwear, leather, and leather products .....						33	8,941			
35	Glass and glass products .....						112		21,990	8	
36	Stone and clay products .....	13	40	23	24	112	159		32	61,026	35
37	Primary iron and steel manufacturing .....	1					4			7	100,613
38	Primary nonferrous metals manufacturing .....						66		93	20	727
39	Metal containers .....						13				
40	Heating, plumbing, and fabricated structural metal products .....	1					499		50	58	54
41	Screw machine products and stampings .....				1		78	11	11	8	9
42	Other fabricated metal products .....			1	4		346	34	7	77	142
43	Engines and turbines .....										20
44+45	Farm, construction, and mining machinery .....					7	5				118
46	Materials handling machinery and equipment .....						40				3
47	Metalworking machinery and equipment .....			1			91			68	154
48	Special industry machinery and equipment .....						63		2	43	28
49	General industrial machinery and equipment .....						32			8	114
50	Miscellaneous machinery, except electrical .....						29		2		58
51	Computer and office equipment .....						29			15	13
52	Service industry machinery .....			52			42				38
53	Electrical industrial equipment and apparatus .....	9				28	9			24	1
54	Household appliances .....			1			3		53		
55	Electric lighting and wiring equipment .....	12			58		85	4	33	1	104
56	Audio, video, and communication equipment .....						2			13	
57	Electronic components and accessories .....						66		1		7
58	Miscellaneous electrical machinery and supplies .....			4			24			25	
59A	Motor vehicles (passenger cars and trucks) .....										
59B	Truck and bus bodies, trailers, and motor vehicle parts .....	1					12	1			3
60	Aircraft and parts .....						30				2
61	Other transportation equipment .....						27				
62	Scientific and controlling instruments .....		367	26			124	6	19	15	1
63	Ophthalmic and photographic equipment .....				101		120			1	
64	Miscellaneous manufacturing .....	98	3	30			252	22		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	<b>Total commodity output .....</b>	<b>67,749</b>	<b>85,355</b>	<b>52,380</b>	<b>18,346</b>	<b>175,401</b>	<b>156,843</b>	<b>9,532</b>	<b>22,613</b>	<b>62,304</b>	<b>102,368</b>

\* Less than \$500,000.

by Industries, 1997—Continued  
at producers' prices]

Primary non-ferrous 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	
														1
														2
														3
														4
														5+6
														7
														8
														9+10
														11
														12
	11	8	11	4			19	15	4	4	3		22	13
									1				5	14
				8										15
	1			12										16
				9					5					17
				72										18
				39										19
				2										20+21
	12	9	78	28		13	62	2		1	5			46
				4			1			1				22+23
				323										24
				2										25
				1				9		1				26A
														26B
	835	118	2	136		87	5	2	23	6			8	27A
			1	17					19					26B
				1										27A
														27B
														28
														29A
														29B
														30
														31
	154	21	160	202	418	4	39	4	779	64	185	37	8	32
				1	7									33+34
				60	6				4					35
				40	28		11		104	3				36
	60			259	47		30		226	3				37
	614			81	2,588		2		290	6	26			38
	84,992			438	2									39
				1	15									40
				1										41
	94	37	67,287	164	668		51	64	81	48	90	169	2	50
	18	39	63	50,222	294		34	4	1,064	5	59	197	2	20
	71	7	631	284	69,948		89	36	238	88	217	477	2	41
				9	20		20		6	2	133	148		42
				193	416		220		6	2	143	139		43
				83	2		193	274	206	35	143	139		18
				52	152		325	12,934	69	48	110	23		44+45
	11			142	4		196	54	35,895	195	96	496	2	9
	4			307	22		101	161	32,111	32,111	272	156	5	47
				9	3		287	463	240	400	38,440	281		48
				324	120		761	123	296	400	38,440	281		49
				6	18		42	15	18	28	34,072			50
				634	89		1	11	11	1	6			51
				10	39		115	20	7	122	202	17		52
				61	172		14	5	55	3	257	3		53
	1			4	2		51	5	58	1	18			54
	23			33	6		5	2	42	17	10	168		55
				120	1		2	10	4	2				56
	274			7	301		3	5	5	221	4	6		57
				353	12		28	11	11	9	6	3,132		58
				69	66		45	27	27		8	8		3
	96			20	730		98	91	107		84	111	7	59A
	7			132	1,033		222	20	20	5	19	46	3	59B
				63	3		165	18	11	6	2	48	4	60
	10			1	202		8	45	126	123	119	61	67	61
	3			9	61		18	9	9	5	11	427		62
													46	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
87,421	13,021	71,140	52,689	78,094	24,588	53,075	13,945	40,374	33,615	40,658	36,739	98,123	36,268	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  For the distribution of commodities produced by an industry, read the row for that industry	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
		53	54	55	56	57	58	59A	59B	60	61
	Commodity number										
1	Livestock and livestock products .....										
2	Other agricultural products .....										
3	Forestry and fishery products .....										
4	Agricultural, forestry, and fishery services .....										
5+6	Metallic ores mining .....										
7	Coal mining .....										
8	Crude petroleum and natural gas .....										
9+10	Nonmetallic minerals mining .....										
11	New construction, including own-account construction .....										
12	Maintenance and repair construction, including own-account construction .....										
13	Ordnance and accessories .....				71	13	29		4	1,544	
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								
20+21	Lumber and wood products .....			3		16					
22+23	Furniture and fixtures .....	5	15	31	34	37			9		3
24	Paper and allied products, except containers .....	1			35		676				
25	Paperboard containers and boxes .....										
26A	Newspapers and periodicals .....										
26B	Other printing and publishing .....					1					
27A	Industrial and other chemicals .....			2		23	6				
27B	Agricultural fertilizers and chemicals .....						1				
28	Plastics and synthetic materials .....										
29A	Drugs .....										
29B	Cleaning and toilet preparations .....		7					10			
30	Paints and allied products .....	5								42	
31	Petroleum refining and related products .....										
32	Rubber and miscellaneous plastics products .....	52	136	164	1	147	16		40	10	5
33+34	Footwear, leather, and leather products .....										
35	Glass and glass products .....	1		6					51	1	
36	Stone and clay products .....	10		7		19	36		14	82	
37	Primary iron and steel manufacturing .....	6		242		5			107		
38	Primary nonferrous metals manufacturing .....			17	311	141	28			5	
39	Metal containers .....										
40	Heating, plumbing, and fabricated structural metal products .....	5	132	6		18	14		58	8	26
41	Screw machine products and stampings .....	1	31	21	6	25	2		398		8
42	Other fabricated metal products .....	153	4	62		31	9		165	459	61
43	Engines and turbines .....	591					4		323	118	8
44+45	Farm, construction, and mining machinery .....	36	5	64			1		191	24	283
46	Materials handling machinery and equipment .....	42		1					15	1	20
47	Metalworking machinery and equipment .....	71	71	25		19	14		15	5	6
48	Special industry machinery and equipment .....	24	24	12		60	6		22		
49	General industrial machinery and equipment .....	158	11	30		28	15		147	7	4
50	Miscellaneous machinery, except electrical .....	224				18	368	10	232	135	5
51	Computer and office equipment .....	64		18	323	6,780	921				
52	Service industry machinery .....	14	142	4	29	8	6		1,368		11
53	Electrical industrial equipment and apparatus .....	37,365	18	305	32	227	264		89	42	1
54	Household appliances .....	78	19,883	15	17		10		29		
55	Electric lighting and wiring equipment .....	243	4	23,347	146	239	24	13	189	3	
56	Audio, video, and communication equipment .....	51	147	88	84,741	1,096	349		20	10	
57	Electronic components and accessories .....	343	4	157	426	132,887	253				
58	Miscellaneous electrical machinery and supplies .....	36	11	161	615	110	22,983		199	18	3
59A	Motor vehicles (passenger cars and trucks) .....							217,423	2,107		55
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	62		14	633	607	983	3,791	123,032	151	78
60	Aircraft and parts .....	2		1	50	1	12		98	99,156	41
61	Other transportation equipment .....	34					21	14	47	1	41,045
62	Scientific and controlling instruments .....	159	17	246	1,635	690	492		205	611	1
63	Ophthalmic and photographic equipment .....			2	26		121				
64	Miscellaneous manufacturing .....	1	1	8	14	4	11	8			24
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	<b>Total commodity output .....</b>	<b>39,837</b>	<b>20,683</b>	<b>25,059</b>	<b>89,145</b>	<b>143,250</b>	<b>27,685</b>	<b>221,259</b>	<b>129,174</b>	<b>102,433</b>	<b>41,688</b>

\* Less than \$500,000.

by Industries, 1997—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 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 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	
														1
														2
														3
														4
														5+6
														7
														8
													( <sup>1</sup> )	9+10
														11
														12
408														13
														14
														15
11														16
47		31												17
97		7											( <sup>1</sup> )	18
4		110												19
4	3	45												20+21
64		127												22+23
906	12	125												24
		50												25
27														26A
19	6	284												26B
19	8	32												27A
														27B
	8													28
276	20	8												29A
49		92												29B
		21												30
		107												31
190	29	409												32
29		11												33+34
54		7												35
39	1	80												36
34		3									101			37
11		8												38
														39
35		26												40
15		24												41
424	1	158												42
3														43
19		20												44+45
														46
60		3												47
49	18	3												48
92		17												49
96		2												50
81	250	98												51
39		23												52
219		3												53
41	12	2												54
107	8	69												55
1,246		44												56
369	13	37												57
766	134	35												58
														59A
35		1												59B
657		6												60
2		234												61
116,349	89	193												62
701	22,018	1												63
113	14	47,140												64
			70,172	206								15,366		65A
				209,872										65B
					34,530									65C
			725	1,766	260	130,646	37,584							65D
						3,522								65E
								314,228						66
									5,180					67
										202,420		546		68A
											106,991	228		68B
												21,861		68C
													804,289	69A
														69B
														70A
														70B
														71A
														71B
														72A
														72B
														73A
							64							73B
														73C
														73D
														74
														75
														76
														77A
														77B
														78
										8,291				79
										22,173	4,084	27,740		80
														81
														82
														83
														84
														85
123,806	22,644	49,696	78,362	211,866	37,136	137,175	37,648	314,228	5,180	232,885	111,176	65,740	804,290	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  For the distribution of commodities produced by an industry, read the row 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, including own-account software	Legal, engineering, accounting, and related services
		69B	70A	70B	71A	71B	72A	72B	73A	73B
	Commodity number									
1	Livestock and livestock products .....									
2	Other agricultural products .....									
3	Forestry and fishery products .....									
4	Agricultural, forestry, and fishery services .....									
5+6	Metallic ores mining .....									
7	Coal mining .....									
8	Crude petroleum and natural gas .....									
9+10	Nonmetallic minerals mining .....									
11	New construction, including own-account construction .....									
12	Maintenance and repair construction, including own-account construction .....									
13	Ordinance 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 .....								357	
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 .....	690,998								
70A	Finance .....		639,292	650						
70B	Insurance .....			335,353						
71A	Owner-occupied dwellings .....				591,837					
71B	Real estate and royalties .....					728,196				
72A	Hotels and lodging places .....					942	77,855			
72B	Personal and repair services (except auto) .....							118,733		
73A	Computer and data processing services, including own-account software .....								303,661	
73B	Legal, engineering, accounting, and related services .....								612	336,801
73C	Other business and professional services, except medical .....							628	754	1,549
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 .....	2,161		1,032		498		2		
79	State and local government enterprises .....	1,717		58	16	11,437				
82	General government industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
T	<b>Total commodity output .....</b>	<b>694,876</b>	<b>639,350</b>	<b>337,367</b>	<b>591,837</b>	<b>741,073</b>	<b>77,855</b>	<b>119,364</b>	<b>305,384</b>	<b>338,350</b>

\* Less than \$500,000.



by Industries, 1997—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		
				834									103,137	1
				787									142,439	2
													11,327	3
													40,987	4
													12,890	5+6
													22,967	7
													121,480	8
													17,534	9+10
													640,725	11
													303,583	12
													20,041	13
													486,269	14
													41,551	15
													48,493	16
													21,314	17
													72,710	18
													25,019	19
									18				117,064	20+21
									21				61,035	22+23
									34				118,159	24
									35				38,648	25
	44,927												70,935	26A
	39,604								33				136,582	26B
									19				140,158	27A
									3				23,798	27B
									66				63,542	28
									66				85,737	29A
									17				52,818	29B
													18,084	30
									42				172,747	31
									40				156,389	32
													9,132	33+34
									12				22,401	35
									17				62,544	36
									6				105,002	37
									63				87,875	38
													12,827	39
									10				70,078	40
									70				52,768	41
									9				74,898	42
									2				23,578	43
36									22				53,966	44+45
									1				13,661	46
									4				38,148	47
									1				33,992	48
									1				41,798	49
									5				36,966	50
									1				103,302	51
									24				38,453	52
													39,167	53
													20,716	54
									21				25,212	55
					7								88,025	56
													138,426	57
													25,470	58
									13				220,050	59A
									66				131,261	59B
													101,818	60
									5				41,977	61
									5				123,167	62
													24,122	63
	3,543								2				52,297	64
									5				70,383	65A
													225,239	65B
													34,530	65C
													130,646	65D
													43,857	65E
	4,864												319,092	66
	36,182												41,362	67
													202,966	68A
													107,219	68B
								1,023	129				23,013	68C
													804,289	69A
													690,998	69B
													694,156	70A
													335,353	70B
													591,837	71A
													728,512	71B
													78,797	72A
270													119,003	72B
													303,661	73A
6,389													343,803	73B
525,237	15,921												544,400	73C
303	40,975				105								41,278	73D
													356,886	74
													196,709	75
													188,718	76
182	22												726,752	77A
97													303,167	77B
701													88,551	78
	926												124,192	79
													920,196	82
													12,464	84
													10,751	85
													10,751	85
533,214	186,963	357,943	251,976	190,881	726,052	302,241	74,750	43,561	1,542	920,196	12,464	10,751	14,704,030	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  For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	New construction, including own-account construction	Maintenance and repair construction, including own-account construction
		1	2	3	4	5+6	7	8	9+10	11	12
Industry number											
1	Livestock and livestock products .....	12,795	9	101	852						
2	Other agricultural products .....	32,987	4,517		4,582			1		1,370	668
3	Forestry and fishery products .....			399	67						
4	Agricultural, forestry, and fishery services .....	5,205	10,527	2,890	206	30	24	4	10	2,164	1,188
5+6	Metallic ores mining .....					1,557					
7	Coal mining .....					13	2,320		49		
8	Crude petroleum and natural gas .....							28,004			
9+10	Nonmetallic minerals mining .....	9	355		3	8	8		594	4,156	2,681
11	New construction, including own-account construction .....									340	
12	Maintenance and repair construction, including own-account construction .....	1,180	1,556	334	363	321	85	4,126	135	379	191
13	Ordnance and accessories .....										
14	Food and kindred products .....	22,144		482	111						
15	Tobacco products .....										
16	Broad and narrow fabrics, yarn and thread mills .....		538				87				
17	Miscellaneous textile goods and floor coverings .....	185	276	58	97					1,271	573
18	Apparel .....						2	1			
19	Miscellaneous fabricated textile products .....		356	8	75					490	291
20+21	Lumber and wood products .....	40	460			54	66	2		31,081	20,579
22+23	Furniture and fixtures .....									2,139	7
24	Paper and allied products, except containers .....	248	361	14	8	5	4	1	9	2,441	842
25	Paperboard containers and boxes .....	7	955	19	160	4	6	2	3	317	154
26A	Newspapers and periodicals .....	5	5		10		1		(*)		
26B	Other printing and publishing .....	7	10	12	8		1	1	1	134	68
27A	Industrial and other chemicals .....	74	65	4	6	742	357	1,049	384	2,159	959
27B	Agricultural fertilizers and chemicals .....	270	10,785	37	2,972	1				3	
28	Plastics and synthetic materials .....										
29A	Drugs .....	348			1						
29B	Cleaning and toilet preparations .....	41		11				6		170	137
30	Paints and allied products .....				7			2		4,583	2,345
31	Petroleum refining and related products .....	917	3,475	200	217	271	677	799	523	7,198	6,104
32	Rubber and miscellaneous plastics products .....	521	827	8	45	90	309	17	172	11,012	5,956
33+34	Footwear, leather, and leather products .....	49						1			
35	Glass and glass products .....	7			10			2	10	1,615	154
36	Stone and clay products .....		133		11	54	151	265		34,884	9,513
37	Primary iron and steel manufacturing .....	24	38			423	82	1,956	245	5,046	2,246
38	Primary nonferrous metals manufacturing .....				3		15			4,545	2,195
39	Metal containers .....			2							
40	Heating, plumbing, and fabricated structural metal products .....	24	31			124	86	64	79	34,368	13,770
41	Screw machine products and stampings .....	24				21	163		15	396	130
42	Other fabricated metal products .....	278	492	11	77	3	63	570	14	11,190	4,511
43	Engines and turbines .....			16		47	132	10	64		
44+45	Farm, construction, and mining machinery .....	138	392	23	30	327	1,310	356	565	1,587	535
46	Materials handling machinery and equipment .....					81	172	56	263	2,287	46
47	Metalworking machinery and equipment .....	29	44		1	14	5	15	4	550	174
48	Special industry machinery and equipment .....				2					3	6
49	General industrial machinery and equipment .....	33	118	(*)	2	49	237	81	128	3,642	546
50	Miscellaneous machinery, except electrical .....	59	166	1	18	29	128	179	19	324	6
51	Computer and office equipment .....										
52	Service industry machinery .....			2	3		4	4	3	8,080	3,528
53	Electrical industrial equipment and apparatus .....	10	24	3		24	59	75	62	3,761	1,252
54	Household appliances .....									1,513	811
55	Electric lighting and wiring equipment .....	38	42	2	30		21	258	2	10,292	4,496
56	Audio, video, and communication equipment .....									2,235	880
57	Electronic components and accessories .....										
58	Miscellaneous electrical machinery and supplies .....	267	756	6	40	4	9	11	18	1,252	485
59A	Motor vehicles (passenger cars and trucks) .....										
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	78	188	33	62	19	39	45	66	789	418
60	Aircraft and parts .....										
61	Other transportation equipment .....									180	87
62	Scientific and controlling instruments .....			12	21	2	2	2		1,984	694
63	Ophthalmic and photographic equipment .....				9		3	9		51	22
64	Miscellaneous manufacturing .....	51	94		4	2	3	3	5	1,645	882
65A	Railroads and related services; passenger ground transportation .....	1,442	329	16	69	81	815	173	81	984	547
65B	Motor freight transportation and warehousing .....	2,660	1,493	31	351	206	384	279	344	9,418	4,582
65C	Water transportation .....	38	58	272	9	10	55	73	9	170	99
65D	Air transportation .....	68	142	37	582	43	105	273	59	962	430
65E	Pipelines, freight forwarders, and related services .....	121	33	1	2	3	5	9	6	18	8
66	Communications, except radio and TV .....	280	318	13	180	34	39	216	52	2,484	1,272
67	Radio and TV broadcasting .....										
68A	Electric services (utilities) .....	1,771	916	7	71	812	536	1,429	714	789	379
68B	Gas production and distribution (utilities) .....		391	2	3	97	36	5,367	321	174	
68C	Water and sanitary services .....	147	686	19			4	95	12	634	332
69A	Wholesale trade .....	6,052	7,228	196	1,231	438	1,050	1,183	775	24,735	11,647
69B	Retail trade .....		(*)	24	10	23	37	231	66	25,089	13,945
70A	Finance .....	533	618	79	275	103	205	634	141	3,959	1,635
70B	Insurance .....	394	1,666	41	127	47	59	153	67	3,868	1,032
71A	Owner-occupied dwellings .....										
71B	Real estate and royalties .....	5,009	12,462	14	313	127	795	26,097	250	3,364	1,424
72A	Hotels and lodging places .....	29	44	28	67	36	81	256	45	501	239
72B	Personal and repair services (except auto) .....	33	93	6	79	6	9	12	3	274	167
73A	Computer and data processing services, including own-account software .....	5	4	8	3	16	12	80	48	560	318
73B	Legal, engineering, accounting, and related services .....	79	102	275	560	202	425	2,030	180	43,840	10,030
73C	Other business and professional services, except medical .....	592	1,584	191	514	204	266	544	190	19,513	9,936
73D	Advertising .....	13	28	6	150	6	14	112	50	431	207
74	Eating and drinking places .....	9	16	29	66	42	82	258	55	523	249
75	Automotive repair and services .....	126	365	61	376	32	38	113	31	2,830	1,755
76	Amusements .....			4	307	2	19	66	3	102	61
77A	Health services .....	2,122									
77B	Educational and social services, and membership organizations .....	64	77	33	25	26	74	87	11	35	12
78	Federal Government enterprises .....	11	12	6	42	11	1		9	630	330
79	State and local government enterprises .....	20	45	1	22	3	2	1		36	18
80	Noncomparable imports .....		59			120	45	1,537	30		
81	Scrap, used and secondhand goods .....				2					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 .....	99,708	66,360	6,085	15,543	7,044	11,821	79,282	6,992	349,548	150,782
VA	Value added .....	3,429	76,079	5,242	25,444	5,846	11,146	42,198	10,541	291,177	152,800
T	<b>Total Industry Output</b> .....	<b>103,137</b>	<b>142,439</b>	<b>11,327</b>	<b>40,987</b>	<b>12,890</b>	<b>22,967</b>	<b>121,480</b>	<b>17,534</b>	<b>640,725</b>	<b>303,583</b>

by Industries, 1997  
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	
.....	82,539	.....	431	73	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	42,545	3,384	3,257	56	56	.....	.....	.....	11	.....	.....	.....	705	.....	2
.....	3,401	.....	.....	.....	149	.....	.....	.....	.....	.....	.....	9	49	17	3
27	183	6	14	9	17	9	9,103	9	38	12	37	43	73	12	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	59	.....	.....	.....	1,274	19	5+6
1	178	24	21	13	17	3	3	12	288	23	.....	.....	177	24	7
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,394	1,493	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	412	.....	.....	.....	1,234	1,018	9+10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
131	2,325	122	251	236	351	96	372	280	1,478	220	409	732	1,498	208	12
182	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
.....	78,673	.....	.....	21	.....	.....	.....	89	717	.....	.....	.....	492	375	14
.....	.....	3,479	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
16	.....	.....	9,990	3,577	16,499	6,544	.....	2,626	164	.....	.....	87	.....	.....	16
.....	30	6	64	613	48	1,424	177	1,875	760	.....	4	47	2	.....	17
4	.....	.....	41	.....	13,560	917	3	3	4	.....	.....	.....	.....	.....	18
.....	74	3	.....	2	2,565	424	8	22	3	.....	.....	.....	.....	.....	19
45	122	2	.....	.....	2	41	36,691	4,953	6,746	50	19	12	40	.....	20+21
.....	.....	.....	.....	.....	.....	.....	216	276	.....	.....	.....	.....	.....	.....	22+23
4	6,633	123	29	31	75	16	62	131	16,709	15,436	5,154	16,801	354	68	24
31	8,673	529	37	47	75	16	247	785	1,504	87	16	512	600	87	25
3	6	.....	.....	2	.....	.....	4	3	(*)	.....	.....	500	222	(*)	26A
.....	1,138	253	2	1	24	21	14	11	188	6	4,437	11,013	18	118	26B
131	2,520	6	760	417	5	167	464	95	5,246	840	542	2,555	36,488	2,260	27A
23	2	.....	.....	.....	.....	.....	175	32	.....	.....	.....	.....	1,224	2,930	27B
47	180	330	7,920	5,161	907	473	459	164	3,261	172	.....	10	1,145	.....	28
.....	1,369	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29A
.....	545	77	50	94	365	.....	11	38	521	.....	.....	.....	171	98	29B
4	.....	.....	.....	.....	.....	.....	210	358	17	146	1	7	769	.....	30
37	1,219	45	126	79	142	51	567	243	561	272	108	216	2,199	175	31
236	9,633	287	198	200	421	457	939	2,426	4,094	179	22	1,607	1,568	192	32
.....	.....	.....	.....	.....	376	578	9	58	.....	.....	1	2	.....	.....	33+34
.....	3,566	.....	340	13	.....	.....	221	152	.....	.....	.....	.....	103	14	35
21	16	4	1	.....	.....	.....	711	166	77	.....	.....	2	213	47	36
193	.....	.....	.....	3	.....	.....	71	2,206	50	271	1	35	307	1	37
277	.....	.....	.....	.....	.....	.....	36	659	138	86	.....	46	10	.....	38
.....	9,285	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	710	91	39
.....	.....	.....	.....	.....	.....	.....	849	.....	.....	.....	.....	.....	.....	.....	40
138	602	.....	.....	.....	.....	.....	480	753	2	21	.....	.....	5	.....	41
162	1,349	48	.....	.....	6	.....	1,133	3,009	381	251	27	32	880	52	42
9	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	43
.....	.....	.....	.....	.....	.....	.....	23	.....	.....	.....	.....	.....	.....	.....	44+45
29	60	14	18	6	3	10	75	49	72	33	5	40	57	1	46
77	73	.....	54	213	196	34	69	35	359	185	29	546	291	.....	47
95	198	1	.....	.....	6	.....	105	100	27	.....	.....	.....	5	9	48
116	215	6	82	26	25	27	174	120	261	79	21	118	503	12	49
.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	29	40	.....	.....	50
.....	49	7	.....	.....	1	.....	150	3	10	.....	2	1	67	.....	51
189	121	19	2	.....	.....	.....	3	9	29	.....	.....	1	143	1	52
.....	.....	.....	.....	.....	.....	.....	185	.....	.....	.....	.....	.....	.....	.....	53
21	102	18	2	.....	.....	.....	224	9	26	.....	4	4	7	2	54
408	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	7	.....	.....	55
978	.....	.....	(*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
7	26	2	.....	2	4	.....	15	1	8	2	18	13	3	.....	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
1	239	1	7	4	13	.....	441	23	21	11	46	40	16	5	59A
1,466	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59B
.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	60
.....	.....	.....	.....	.....	.....	.....	1	8	17	6	20	114	164	6	61
1,134	7	2	.....	.....	2	.....	12	7	10	2	132	697	21	1	62
4	9	1	3	1	667	22	69	12	5	1	21	137	3	.....	63
.....	34	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64
25	2,979	53	195	124	94	28	812	191	1,187	443	192	511	1,212	289	65A
112	8,648	229	530	411	752	291	3,005	857	3,554	1,603	605	2,124	3,197	1,296	65B
1	325	2	8	14	4	3	59	11	79	8	1	14	140	33	65C
111	1,824	138	149	78	353	110	319	239	441	191	232	525	470	67	65D
1	23	2	1	1	4	1	8	3	9	4	4	5	180	2	65E
65	732	79	64	63	160	61	198	203	283	116	416	524	303	50	66
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67
142	3,436	86	1,074	276	660	179	1,091	432	2,424	334	273	860	2,750	291	68A
29	1,937	18	215	121	257	86	190	137	1,251	95	61	267	2,596	623	68B
16	674	7	58	48	39	29	148	57	624	38	19	89	1,101	130	68C
481	29,933	806	2,290	1,008	3,598	1,389	7,952	4,183	5,991	2,239	1,439	4,488	7,777	1,211	69A
5	879	129	33	8	17	9	84	100	176	13	43	53	84	16	69B
137	3,366	333	263	154	537	180	700	444	820	265	483	905	1,053	186	70A
35	1,018	92	80	43	138	49	209	128	240	75	133	251	293	48	70B
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71A
164	1,923	193	146	102	893	372	716	609	459	194	2,539	3,719	1,084	119	71B
56	1,204	138	112	64	220	73	277	167	326	109	181	366	387	66	72A
17	574	48	271	91	117	13	148	45	328	71	51	148	327	62	72B
164	966	95	129	81	111	36	240	108	547	120	381	474	555	117	73A
88	1,351	410	135	85	197	99	336	471	253	76	848	520	3,358	286	73B
358	5,957	426	619	291	4,821	296	1,399	1,112	1,862	557	3,137	2,519	2,438	536	73C
80	12,233	3,704	130	208	825	117	380	605	721	62	1,735	1,353	904	321	73D
62	1,264	142	135	70	263	89	325	205	349	116	185	387	409	65	74
40	2,016	146	207	105	174	53	431	153	772	182	265	619	743	143	75
8	377	77	7	5	56	5	44	14	62	17	71	86	79	8	76
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77A
13	294	42	25	12	49	152	230	96	120	24	58	182	114	30	77B
3	195	65	23	24	69	35	60	76	64	21	492	313	81	5	78
5	550	24	23	15	38	11	50	45	240	11	18	47	165	17	79
10	909	28	53	18	44	3	13	48	157	19	121	306	1,454	48	80
.....	.....	.....	.....	42	.....	.....	.....	8	750	.....	.....	.....	.....	6	81
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85
8.471	343,534	16,322	30,673	14,462	51,089	15,094	74,244	32,559	68,384	25,388	25,591	57,397	92,233	15,404	I
11,571	142,735	25,229	17,820	6,852	21,621	9,926	42,820	28,476	49,775	13,259	45,344	79,185	47,925	8,394	VA
20,041	486,269	41,551	48,493	21,314	72,710	25,019	117,064	61,035	118,159	38,648	70,93				

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 prepara- tions	Paints and allied products	Petroleum refining and relat- ed products	Rubber and mis- cellaneous plastics products	Footwear, leather, and leath- er products	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing
	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
1	Livestock and livestock products .....			59							
2	Other agricultural products .....		203			1					
3	Forestry and fishery products .....	1	38		13	1	1,213			2	
4	Agricultural, forestry, and fishery services .....	27	53	25	7	32	72	1	16	39	52
5+6	Metallic ores mining .....				21	26			19	16	2,695
7	Coal mining .....	52	19	10	2	6	16	2	91	264	1,295
8	Crude petroleum and natural gas .....	398				89,740					
9+10	Nonmetallic minerals mining .....		1	17	6	507	20		238	3,635	282
11	New construction, including own-account construction .....										
12	Maintenance and repair construction, including own-account construction .....	691	716	343	73	1,433	1,188	67	209	456	855
13	Ordnance and accessories .....										
14	Food and kindred products .....	68	556	641	155	184	17	895		23	
15	Tobacco products .....										
16	Broad and narrow fabrics, yarn and thread mills .....	11					1,370	290		193	
17	Miscellaneous textile goods and floor coverings .....	2	9	16			1,488	186	1		
18	Apparel .....	2					9	6			
19	Miscellaneous fabricated textile products .....		2	6					1	6	
20+21	Lumber and wood products .....		2	4		5	280		310	313	198
22+23	Furniture and fixtures .....										
24	Paper and allied products, except containers .....	764	171	148	2	129	1,182	39	49	601	31
25	Paperboard containers and boxes .....	228	911	1,898	1	151	1,735	23	749	182	18
26A	Newspapers and periodicals .....	3	(*)	2		3	13			4	3
26B	Other printing and publishing .....	1	464	173	10	7	43	1	2	6	93
27A	Industrial and other chemicals .....	22,540	2,014	5,318	3,523	2,709	7,049	360	1,183	1,557	1,305
27B	Agricultural fertilizers and chemicals .....	301									
28	Plastics and synthetic materials .....	1,783			2,294		28,420	13		320	
29A	Drugs .....		10,313								
29B	Cleaning and toilet preparations .....	426	68	3,303	1	605	104	52	40	134	5
30	Paints and allied products .....	35		25	269		129		22	112	31
31	Petroleum refining and related products .....	225	101	502	138	17,455	357	39	113	545	454
32	Rubber and miscellaneous plastics products .....	2,707	1,903	3,698	1	620	8,918	253	508	525	189
33+34	Footwear, leather, and leather products .....					1		2,527			
35	Glass and glass products .....	10	254	228	3	434	886		2,442	125	
36	Stone and clay products .....	12	16	5	166	257	217	5	371	6,987	1,483
37	Primary iron and steel manufacturing .....	1		2	5	13	698		28	506	17,379
38	Primary nonferrous metals manufacturing .....				1		106			93	1,731
39	Metal containers .....	5	92	522	502	144					3
40	Heating, plumbing, and fabricated structural metal products .....						60			33	6
41	Screw machine products and stampings .....		100	72	3		445	4	26	69	425
42	Other fabricated metal products .....	21	52	141	3	160	985	64		435	2,085
43	Engines and turbines .....						37				44
44+45	Farm, construction, and mining machinery .....										
46	Materials handling machinery and equipment .....						1				30
47	Metalworking machinery and equipment .....	34	5	11	1	25	305	2	106	132	903
48	Special industry machinery and equipment .....	29					699	1	25		25
49	General industrial machinery and equipment .....	21	24	2		1	26			39	1,685
50	Miscellaneous machinery, except electrical .....	99	35	49	4	112	944	12	123	141	565
51	Computer and office equipment .....										
52	Service industry machinery .....	1	3	9		1	8		2	5	1
53	Electrical industrial equipment and apparatus .....	7	10	29		1	52		76	15	965
54	Household appliances .....										
55	Electric lighting and wiring equipment .....	4	17	24		10	80		8	25	
56	Audio, video, and communication equipment .....										
57	Electronic components and accessories .....						38				
58	Miscellaneous electrical machinery and supplies .....					3	27			18	6
59A	Motor vehicles (passenger cars and trucks) .....										
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	1	4	3	3	22	17		9	60	19
60	Aircraft and parts .....										
61	Other transportation equipment .....										
62	Scientific and controlling instruments .....	3	9	5	3	20	14		8	12	119
63	Ophthalmic and photographic equipment .....	4	8	6	1	6	18		2	4	9
64	Miscellaneous manufacturing .....	1	23	11	1	5	48		1	46	4
65A	Railroads and related services; passenger ground transportation .....	435	158	258	262	383	903	13	301	638	1,525
65B	Motor freight transportation and warehousing .....	1,130	354	678	428	975	4,449	141	385	3,834	2,990
65C	Water transportation .....	76	8	28	18	359	99	(*)	22	167	179
65D	Air transportation .....	203	356	206	55	118	547	48	79	174	401
65E	Pipelines, freight forwarders, and related services .....	18	3	8	3	5,004	7	1	1	6	6
66	Communications, except radio and TV .....	268	343	181	47	213	452	25	75	187	200
67	Radio and TV broadcasting .....										
68A	Electric services (utilities) .....	1,137	584	265	88	1,553	2,664	59	576	1,276	3,184
68B	Gas production and distribution (utilities) .....	714	210	132	29	2,208	567	31	371	1,035	1,663
68C	Water and sanitary services .....	340	181	111	65	512	233	89	60	131	742
69A	Wholesale trade .....	3,274	6,224	3,100	938	6,543	6,634	430	1,276	2,333	9,670
69B	Retail trade .....	39	61	160	3	32	189	5	60	71	31
70A	Finance .....	495	774	463	148	1,412	1,257	58	167	384	765
70B	Insurance .....	112	153	103	31	224	305	23	48	145	216
71A	Owner-occupied dwellings .....										
71B	Real estate and royalties .....	267	791	490	64	1,888	1,530	58	147	435	400
72A	Hotels and lodging places .....	170	297	165	51	156	444	24	68	158	283
72B	Personal and repair services (except auto) .....	170	85	52	12	298	293	9	63	165	425
73A	Computer and data processing services, including own-account software .....	307	241	123	27	488	594	44	111	259	737
73B	Legal, engineering, accounting, and related services .....	1,711	2,425	806	185	1,108	993	24	86	282	408
73C	Other business and professional services, except medical .....	915	2,580	1,131	167	1,634	2,481	98	401	1,067	2,124
73D	Advertising .....	347	5,463	3,593	230	640	884	200	94	305	367
74	Eating and drinking places .....	180	349	173	52	254	497	32	81	174	314
75	Automotive repair and services .....	376	239	155	42	596	722	25	145	369	886
76	Amusements .....	41	113	72	15	55	88	1	7	19	54
77A	Health services .....										
77B	Educational and social services, and membership organizations .....	144	458	105	12	170	572	4	15	40	68
78	Federal Government enterprises .....	17	33	58	9	51	93	14	18	33	74
79	State and local government enterprises .....	40	31	34	3	29	59	15	9	24	76
80	Noncomparable imports .....	336	3,423	719	102	505	368	4	50	176	158
81	Scrap, used and secondhand goods .....								87		3,415
82	General government industry .....										
83	Rest of the world adjustment to final uses .....										
84	Household industry .....										
85	Inventory valuation adjustment .....										
I	Total intermediate inputs .....	43,776	44,129	30,671	10,293	142,231	87,263	6,313	11,575	31,562	66,349
VA	Value added .....	19,766	41,608	22,147	7,791	30,516	69,126	2,819	10,826	30,982	38,653
T	<b>Total Industry Output</b> .....	<b>63,542</b>	<b>85,737</b>	<b>52,818</b>	<b>18,084</b>	<b>172,747</b>	<b>156,389</b>	<b>9,132</b>	<b>22,401</b>	<b>62,544</b>	<b>105,002</b>

\* Less than \$500,000.

by Industries, 1997—Continued  
at producers' prices]

Primary non-ferrous 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	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
43	3	24	13	32	14	27	4	16	14	26	23	42	13	5+6
2,877	.....	34	.....	.....	.....	10	.....	5	.....	.....	.....	3	.....	7
16	1	2	2	3	1	4	.....	1	1	2	2	2	2	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9+10
23	.....	.....	.....	2	.....	.....	.....	28	1	.....	.....	.....	.....	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
516	76	256	553	460	171	294	61	246	200	219	259	886	272	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20+21
385	.....	49	26	80	.....	116	25	136	117	49	8	.....	81	22+23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	24
67	5	40	74	244	8	12	5	21	217	147	11	68	136	25
79	37	258	266	370	8	12	1	83	21	111	60	348	119	26A
2	.....	5	2	3	.....	2	.....	2	3	.....	5	20	2	26B
3	70	6	5	2	2	7	1	5	3	3	5	12	1	27A
395	119	618	199	664	2	36	5	251	70	3	6	.....	84	27B
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28
1,402	.....	46	124	388	.....	.....	.....	.....	.....	.....	20	12	25	29A
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29B
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
17	376	225	85	324	53	115	32	116	.....	13	14	64	115	31
380	29	166	91	207	28	98	42	91	67	106	78	70	50	32
821	20	694	209	1,979	328	2,020	259	325	577	1,006	178	1,794	1,015	33+34
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
778	.....	234	41	67	.....	24	.....	.....	4	.....	.....	.....	.....	37
239	9	93	97	155	103	59	13	300	59	102	124	18	170	38
983	2,419	10,622	11,744	9,038	3,600	5,387	1,431	2,762	1,893	2,957	2,647	142	2,069	39
26,688	4,939	5,693	2,599	4,049	778	468	353	879	1,453	1,136	2,278	1,167	2,306	40
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
51	6	2,544	99	339	2,124	253	321	544	504	153	870	222	1,080	43
815	229	1,000	966	1,982	951	869	526	400	366	481	462	1,014	730	44+45
.....	.....	2,278	1,120	4,340	911	1,071	394	481	979	566	598	302	55	46
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
788	19	423	1,192	314	145	253	64	1,744	280	293	599	64	196	49
47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	50
534	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51
346	48	142	99	26	346	1,394	796	349	720	2,918	460	28	649	52
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54
263	1	17	31	399	904	354	395	837	1,208	1,414	96	2,466	1,964	55
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	58
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59A
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59B
13	1	15	9	7	17	34	2	10	4	6	4	9	6	60
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	61
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
5	1	149	7	6	2	4	1	15	4	16	7	5	563	64
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	65A
634	54	193	175	182	23	81	20	49	43	50	59	111	61	65B
2,373	261	954	719	914	415	784	167	395	289	324	289	230	349	65C
41	3	8	9	17	(*)	9	1	3	2	2	4	3	3	65D
327	43	227	179	258	126	225	66	161	150	176	135	663	168	65E
3	1	2	2	2	2	2	(*)	1	1	1	2	6	2	66
165	23	201	118	249	50	151	46	157	153	178	104	535	108	67
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	68A
2,140	151	462	581	857	162	350	66	330	213	356	358	587	235	68B
519	60	219	186	375	48	133	30	93	63	111	102	80	77	68C
228	19	60	617	147	29	44	5	26	21	44	28	74	105	69A
8,132	1,029	3,996	3,079	4,013	1,233	3,592	1,323	1,810	2,527	2,461	1,388	13,512	2,537	69B
15	6	48	32	54	8	17	5	11	11	16	10	38	27	70A
543	95	455	418	503	164	380	88	248	214	275	245	1,079	291	70B
155	24	113	102	133	41	100	28	69	54	73	64	221	70	71A
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	71B
469	64	647	419	594	106	191	82	350	323	226	430	1,556	158	72A
230	41	187	145	205	69	148	35	106	92	112	100	379	102	72B
171	28	59	117	115	31	62	9	34	27	54	37	66	38	73A
287	41	161	221	281	100	184	22	96	70	128	75	1,337	138	73B
225	45	282	437	464	56	355	105	281	284	271	269	1,125	206	73C
1,140	165	1,695	1,108	1,313	311	689	169	534	433	622	733	1,748	427	73D
148	29	346	369	607	49	377	85	249	245	364	288	1,329	282	74
259	44	223	176	244	77	172	41	139	116	140	116	372	120	75
392	66	188	244	315	74	163	29	115	79	146	108	266	107	76
29	10	16	28	18	11	29	3	7	13	10	18	111	21	77A
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77B
74	18	68	159	68	19	33	7	30	18	27	25	154	61	78
41	1	47	42	52	13	55	11	25	38	32	14	33	6	79
47	7	29	22	50	12	17	6	17	8	17	16	25	13	80
213	4	113	61	90	33	146	46	39	119	163	78	6,085	40	81
2,978	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85
60,665	11,434	37,210	30,449	38,100	14,379	28,981	8,105	16,007	18,338	20,190	15,347	90,156	21,982	I
27,210	1,394	32,868	22,319	36,798	9,199	24,985	5,556	22,141	15,654	21,608	21,619	13,146	16,471	VA
87,875	12,827	70,078	52,768	74,898	23,578	53,966	13,661	38,148	33,992	41,798	36,966	103,302	38,453	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  For the composition of inputs to an industry, read the column for that industry	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
		Industry number	53	54	55	56	57	58	59A	59B	60
1	Livestock and livestock products .....										
2	Other agricultural products .....							1	2	1	
3	Forestry and fishery products .....										
4	Agricultural, forestry, and fishery services .....	31	13	11	32	173	27	41	53	75	21
5+6	Metallic ores mining .....	35			30		13		287	27	
7	Coal mining .....	1				4		19	26	10	6
8	Crude petroleum and natural gas .....										
9+10	Nonmetallic minerals mining .....		35			1					
11	New construction, including own-account construction .....										
12	Maintenance and repair construction, including own-account construction .....	229	123	135	700	2,598	170	794	1,085	850	169
13	Ordnance and accessories .....										
14	Food and kindred products .....									5	
15	Tobacco products .....										
16	Broad and narrow fabrics, yarn and thread mills .....		3					138		105	
17	Miscellaneous textile goods and floor coverings .....	2			1			1,378	66	28	73
18	Apparel .....					2		5		4	
19	Miscellaneous fabricated textile products .....							5,733	16	127	211
20+21	Lumber and wood products .....	35	10	2	4			7	238	20	810
22+23	Furniture and fixtures .....		3		802	15	1	5,604	78	37	60
24	Paper and allied products, except containers .....	177	256	129	285	276	45	55	100	21	11
25	Paperboard containers and boxes .....	101	200	306	171	211	295	20	527	11	5
26A	Newspapers and periodicals .....	4		3	10	16	6	9	8	6	1
26B	Other printing and publishing .....	2	5	1	21	10	2	20	35	23	2
27A	Industrial and other chemicals .....	63	151	53	21	2,530	257	918	628	60	17
27B	Agricultural fertilizers and chemicals .....										
28	Plastics and synthetic materials .....	116	551	595	249	383	350	10	773	293	149
29A	Drugs .....										
29B	Cleaning and toilet preparations .....	24	21	30	27	15	4	11	8		
30	Paints and allied products .....	73	167	16	46			2,094	614	116	162
31	Petroleum refining and related products .....	231	64	67	60	127	40	224	226	140	113
32	Rubber and miscellaneous plastics products .....	1,081	1,977	783	1,936	2,128	1,828	14,344	3,543	1,680	907
33+34	Footwear, leather, and leather products .....							3	1	1	
35	Glass and glass products .....		44	598	3	870		2,310	110	16	228
36	Stone and clay products .....	1,103	119	219	116	116	20	297	440	243	27
37	Primary iron and steel manufacturing .....	1,814	1,399	877	419	757	514	393	11,417	829	2,249
38	Primary nonferrous metals manufacturing .....	2,117	1,027	1,436	1,237	3,324	1,365	68	10,761	2,846	602
39	Metal containers .....										
40	Heating, plumbing, and fabricated structural metal products .....	221			643	522	113		1,919	172	665
41	Screw machine products and stampings .....	878	746	775	1,117	1,539	333	18,511	6,018	991	373
42	Other fabricated metal products .....	236	389	493	650	4,603	548	3,985	1,943	1,711	748
43	Engines and turbines .....	442						3,044	413		1,939
44+45	Farm, construction, and mining machinery .....										36
46	Materials handling machinery and equipment .....							14	10		(*)
47	Metalworking machinery and equipment .....	97	47	77	79	287	65	169	340	834	66
48	Special industry machinery and equipment .....					169					
49	General industrial machinery and equipment .....	170	81		22		99	79	2,187	276	948
50	Miscellaneous machinery, except electrical .....	281	47	111	203	820	126	1,113	5,462	1,327	296
51	Computer and office equipment .....	8			262	937	149	4	5	58	
52	Service industry machinery .....	1	493	3	4	2		3,040	320		92
53	Electrical industrial equipment and apparatus .....	2,840	925	707	240	225	386	6	14	86	1,184
54	Household appliances .....		13								125
55	Electric lighting and wiring equipment .....	73	296	820	606	261	79	1,201	106		122
56	Audio, video, and communication equipment .....				4,812	376	60	1,495	1	1,210	128
57	Electronic components and accessories .....	859	226	182	24,329	29,898	2,468	6,074	4,575	1,441	1
58	Miscellaneous electrical machinery and supplies .....	13	1	1	346		915	2,997	2,416	30	129
59A	Motor vehicles (passenger cars and trucks) .....							353	1,042		1,151
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	3		1	5	8	5	61,983	12,679	5	980
60	Aircraft and parts .....									18,675	
61	Other transportation equipment .....										1,430
62	Scientific and controlling instruments .....	93	836		462	623	117	1,750	6	7,565	192
63	Ophthalmic and photographic equipment .....	7	1	4	1	32	7	25	25	16	2
64	Miscellaneous manufacturing .....	3	69	62	1		1	49	11	26	3
65A	Railroads and related services; passenger ground transportation .....	102	49	43	112	303	52	624	400	114	87
65B	Motor freight transportation and warehousing .....	320	318	286	304	594	289	3,146	1,798	427	490
65C	Water transportation .....	8	4	2	2	16	3	27	18	7	3
65D	Air transportation .....	169	106	96	445	656	110	1,500	744	778	166
65E	Pipelines, freight forwarders, and related services .....	1	1	1	4	5	(*)	11	7	6	1
66	Communications, except radio and TV .....	163	72	79	464	633	69	242	251	217	89
67	Radio and TV broadcasting .....										
68A	Electric services (utilities) .....	324	145	213	454	1,826	241	594	1,146	539	211
68B	Gas production and distribution (utilities) .....	107	54	75	76	243	57	198	292	98	76
68C	Water and sanitary services .....	36	10	28	43	169	71	117	405	145	49
69A	Wholesale trade .....	2,729	1,554	1,769	6,218	9,039	2,148	16,425	8,958	3,202	2,153
69B	Retail trade .....	31	41	49	52	49	25	63	66	16	13
70A	Finance .....	322	155	174	820	1,336	200	1,526	1,112	822	255
70B	Insurance .....	67	40	45	174	300	48	417	261	162	79
71A	Owner-occupied dwellings .....										
71B	Real estate and royalties .....	273	75	262	899	1,586	180	516	471	350	530
72A	Hotels and lodging services .....	108	62	73	283	458	72	609	386	278	103
72B	Personal and repair services (except auto) .....	45	16	20	76	332	40	179	263	156	24
73A	Computer and data processing services, including own-account software .....	92	29	80	511	945	68	175	445	761	104
73B	Legal, engineering, accounting, and related services .....	159	69	140	846	2,192	86	1,574	818	798	222
73C	Other business and professional services, except medical .....	623	253	354	1,424	3,541	563	1,805	1,874	1,631	462
73D	Advertising .....	429	540	505	626	1,887	220	884	2,612	347	219
74	Eating and drinking places .....	131	75	93	307	488	96	632	424	300	127
75	Automotive repair and services .....	118	54	76	244	722	103	14,981	580	369	80
76	Amusements .....	12	8	7	69	119	8	164	125	74	9
77A	Health services .....										
77B	Educational and social services, and membership organizations .....	30	42	15	118	330	32	798	329	250	28
78	Federal Government enterprises .....	30	47	18	112	69	14	147	216	85	14
79	State and local government enterprises .....	12	13	13	17	93	13	121	98	23	13
80	Noncomparable imports .....	295	52	296	690	481	466	717	542	154	33
81	Scrap, used and secondhand goods .....							57	20		
82	General government industry .....										
83	Rest of the world adjustment to final uses .....										
84	Household industry .....										
85	Inventory valuation adjustment .....										
I	Total intermediate inputs .....	20,197	14,221	13,308	55,264	82,271	15,733	188,577	95,188	54,104	22,068
VA	Value added .....	18,970	6,495	11,903	32,761	56,155	9,737	31,473	36,072	47,714	19,908
T	<b>Total Industry Output</b> .....	<b>39,167</b>	<b>20,716</b>	<b>25,212</b>	<b>88,025</b>	<b>138,426</b>	<b>25,470</b>	<b>220,050</b>	<b>131,261</b>	<b>101,818</b>	<b>41,977</b>

\* Less than \$500,000.

by Industries, 1997—Continued  
at producers' prices]

Scientific and controlling instruments	Ophthalmic and photographic equipment	Miscel- laneous manu- facturing	Railroads and related services; passenger ground transportation	Motor freight transportation and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services	Communica- tions, except radio and TV	Radio and TV broad- casting	Electric services (utilities)	Gas production 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												1
		40		1	3	1		2		1	1		117	2
		24			4									3
75	11	12	2	4				80	7	24			527	4
14		11												5+6
28	14	2			6					13,701			10	7
							182			11	48,184		6	8
		5											10	9+10
823	179	226	3,783	1,175	45	255	749	12,594	326	14,635	8,897	1,982	4,063	12
26		79			76	232	6						2	13
													717	14
343		505				1								15
517	1	33		13	2			2						16
19		161	25	3	50	7		133		2				17
1		24		12	84	6	93	6						18
105		694		58	11	4	241	42	2	12	4	240	3,204	19
50		50												20+21
378	649	283	29	78		44	20	284	14	70	20	9	3,166	22+23
520	227	775	5	145		4	105	140	6	18	5	3	4,764	24
14	5	10	13	67	44	22	28	170	11	11	2	4	421	25
56	2	40	233	409	31	170	271	1,131	10	87	13	4	7,655	26A
177	548	506	134	122	13	62	10	19	18	361	2	523	439	26B
													531	27A
576	305	1,173			8								8	27B
								7						28
32	13	40		2		6		36		4	5		64	29A
74		278		130	51	4		118				2	666	29B
140	39	174	3,468	8,412	502	10,910	214	327	36	1,866	276	600	4,161	30
2,700	582	1,676	343	2,651	117	41	170	708	6	203	10	199	3,733	31
		47	1	2		1		2		2	1		8	32
492	124	25	92	6	8		15	37		11		18	202	33+34
186	12	146	3	10	2	1	4			9		51	181	35
1,103	41	1,036	441			3					2		128	36
1,775	125	2,129	1	5	39			25		120		1	232	37
19										1			687	38
973	10	149			9								147	39
1,906	239	200	12		68			446		56			3	40
2,093	64	740	402	730	306	96		429	3	42	10	96	861	41
		3	207	64	393			306		183			30	42
				6						19			46	43
188	37	125	104	53	141	39		9	1	120	25	4	829	44+45
				4									314	46
92	4	21	461	54	372	5	146	647		73	2	2	99	47
541	106	376	138	86	125	158	62	30	7	245	7	18	68	48
1,378	6	11	6	6		4	31	580	21	14	72		1,099	49
2	1	3	11	11		3	5	5		1	1	8	654	50
1,516	108	208	359	314	13	25	39	636	40	239			229	51
				4									152	52
334	6	18	29	63	8	8		164		141	1	25	1	53
1,197		5		8		2	14	7,180	37				260	54
11,564	620	234	28		196			5,909	190				152	55
48	3	16	110	208	32	42	100	289	10	125	24	34	7,528	56
													499	57
8	5	6	520	980	1	19	42	55	4	15	10	1,196	1,471	58
						7,167								59A
			1,494	17	680	3								59B
3,566	162			30	4	24		41	6	135	6	554		60
23	683	11	10	70	7	19	32	111	22	6	6	5	80	61
9	1	2,867	13	40	54	31	31	150	5	30	6	2	678	62
142	76	108	3,148	435	17	167	40	310	29	5,421	47	36	904	63
540	156	550	529	41,122	88	312	251	409	55	732	47	116	3,257	64
8	7	10	19	956	7,333	55	60	27	(*)	553	16	4	68	65A
500	84	164	294	2,083	67	7,763	270	1,138	96	492	392	63	4,587	65B
5	1	2	535	6,849	1,701	11,420	1,028	17	2	28	494	8	456	65C
637	128	166	507	2,607	46	1,405	1,272	44,578	737	361	60	485	16,817	65D
								210	1,228					65E
790	132	299	105	1,321	143	309	492	1,126	205	24	148	118	6,442	66
104	56	114	1	149	9	18	5	148	6	5,222	23,825	511	1,684	67
80	25	36	142	2,857	31	161	41	386	58	244	19	1,493	1,437	68A
5,444	1,274	4,008	1,914	5,851	418	1,811	353	3,401	99	906	549	588	23,490	68B
69	20	70	251	940	13	49	34	108	11	47	29	160	2,031	68C
999	211	335	833	1,841	872	1,934	770	3,383	321	3,096	905	149	8,928	69A
222	47	102	348	1,981	67	392	312	729	285	507	160	292	2,307	69B
														70A
1,136	131	520	787	4,594	904	1,718	1,009	5,626	1,075	1,623	294	67	25,732	70B
345	69	122	166	778	48	345	124	965	91	431	127	48	3,036	71A
88	16	40	58	133	34	376	99	2,385	140	105	3	72	2,026	71B
497	78	76	1,142	183	2,761	4,106	4,162	503	503	2,156	319	44	9,485	72A
1,371	63	283	521	1,218	718	1,225	2,291	10,965	520	1,851	2,301	787	10,906	72B
2,905	586	828	1,697	5,787	3,482	2,153	1,614	7,641	1,196	2,741	755	326	47,514	73A
1,774	360	1,678	280	451	1,244	1,647	1,133	5,280	1,035	153	23	1	21,919	73B
407	80	163	236	784	51	2,219	132	975	91	542	141	52	3,168	73C
287	59	130	974	11,721	16	179	251	2,055	199	239	157	45	7,140	74
76	19	24	38	205	19	123	33	4,706	18,442	134	69	10	1,442	75
				79										76
242	94	172	224	103	172	85	401	565	276	1,131	51	12	1,674	77A
126	18	112	72	319	13	95	175	1,087	44	531	111	36	5,389	77B
43	5	22	111	203	36	8	8	117	19	27	10		501	78
376	252	113	255	968	2,902	9,207	376	8,957		44	82	3	6,841	79
		1		4										80
														81
														82
														83
														84
														85
54,894	8,976	25,444	27,655	112,901	23,834	67,641	19,441	144,306	27,544	61,931	88,722	11,103	271,820	I
68,273	15,146	26,853	42,728	112,338	10,696	63,004	24,416	174,786	13,818	141,036	18,497	11,909	532,469	VA
123,167	24,122	52,297	70,383	225,239	34,530	130,646	43,857	319,092	41,362	202,966	107,219	23,013	804,289	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  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
		Industry number	69B	70A	70B	71A	71B	72A	72B	73A	73B	73C
1	Livestock and livestock products .....											85
2	Other agricultural products .....	3	5	3		30	6	5	7		3	
3	Forestry and fishery products .....											
4	Agricultural, forestry, and fishery services .....	933	189	102	5,134	4,616	414	66	168	187	195	15
5+6	Metallic ores mining .....											
7	Coal mining .....	5	2			4	2	3		1	1	
8	Crude petroleum and natural gas .....											
9+10	Nonmetallic minerals mining .....	2						4				
11	New construction, including own-account construction .....											
12	Maintenance and repair construction, including own-account construction .....	7,582	1,759	903	26,739	42,089	2,248	692	828	525	1,528	74
13	Ordnance and accessories .....										154	
14	Food and kindred products .....	161					173				26	
15	Tobacco products .....											
16	Broad and narrow fabrics, yarn and thread mills .....	87					10	173			9	
17	Miscellaneous textile goods and floor coverings .....	48	1			2	16	40		2	11	
18	Apparel .....	32					43	414			117	
19	Miscellaneous fabricated textile products .....	42	150	32		16	634	338			11	18
20+21	Lumber and wood products .....	199	139	90		78	22	69	63	131	160	8
22+23	Furniture and fixtures .....	1				2			2	2	1	
24	Paper and allied products, except containers .....	4,914	1,267	445		643	283	446	1,993	783	2,069	84
25	Paperboard containers and boxes .....	1,081	157	60		87	147	66	58	110	901	9
26A	Newspapers and periodicals .....	170	480	52		34	73	48	97	221	281	9
26B	Other printing and publishing .....	667	3,893	1,743		800	183	1,033	2,202	2,220	3,103	2,443
27A	Industrial and other chemicals .....	44	51	22	3	52	14	189	20	48	1,882	2
27B	Agricultural fertilizers and chemicals .....	33			426	179	160				6	
28	Plastics and synthetic materials .....	15						16				
29A	Drugs .....											
29B	Cleaning and toilet preparations .....	192	30	3		75	93	1,019	14	39	720	
30	Paints and allied products .....	44	1	45		25	1	10		3	111	
31	Petroleum refining and related products .....	3,485	537	148		627	202	420	244	256	2,065	19
32	Rubber and miscellaneous plastics products .....	2,498	165	384	66	448	315	479	473	296	1,649	33
33+34	Footwear, leather, and leather products .....	223	12	5		6	4	348	6	43	72	
35	Glass and glass products .....	27	38	18		8	342	4	8	262	454	
36	Stone and clay products .....	31	16			454	58	13		54	124	
37	Primary iron and steel manufacturing .....	11	3	2				11		4	126	
38	Primary nonferrous metals manufacturing .....	4		21		10		91			32	
39	Metal containers .....										42	
40	Heating, plumbing, and fabricated structural metal products .....	34			90	56		8				
41	Screw machine products and stampings .....	9					6	113			165	
42	Other fabricated metal products .....	863	339	275		237	50	320	106	235	527	13
43	Engines and turbines .....	268	6					5			197	
44+45	Farm, construction, and mining machinery .....				215						110	
46	Materials handling machinery and equipment .....	21									236	
47	Metalworking machinery and equipment .....	73	4			6	1	18	11	16	1,015	
48	Special industry machinery and equipment .....	33				6		40	7	8	714	
49	General industrial machinery and equipment .....	34	30			12		48			486	
50	Miscellaneous machinery, except electrical .....	329	24	1		9	11	123	48	104	670	8
51	Computer and office equipment .....	220	469	332		83	16	712	15,976	651	764	60
52	Service industry machinery .....	145	2	1		2	8	403	2	5	254	3
53	Electrical industrial equipment and apparatus .....	47	22	3		6	16	67	310	5	1,464	1
54	Household appliances .....	15	1			49	24	1,466			8	
55	Electric lighting and wiring equipment .....	321	40	22		45	18	28	3	12	313	4
56	Audio, video, and communication equipment .....	61	40	4		4	7	13	17	34	51	4
57	Electronic components and accessories .....	232	65	1		1		1,056	10,375	21	973	1
58	Miscellaneous electrical machinery and supplies .....	402	288	250		54	16	71	932	515	545	18
59A	Motor vehicles (passenger cars and trucks) .....											
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	2,355	88	73		76	45	97	45	48	804	33
60	Aircraft and parts .....											
61	Other transportation equipment .....	2		9		3					532	
62	Scientific and controlling instruments .....	87	2	113		62	18	95	132	48	222	2
63	Ophthalmic and photographic equipment .....	218	481	343		146	30	930	224	545	1,133	37
64	Miscellaneous manufacturing .....	530	625	166		164	78	1,762	217	312	894	44
65A	Railroads and related services; passenger ground transportation .....	654	528	425	6	532	82	103	250	237	963	29
65B	Motor freight transportation and warehousing .....	2,086	4,805	1,058	20	665	361	640	406	868	2,338	61
65C	Water transportation .....	30	9	2	(*)	5	2	8	4	7	50	(*)
65D	Air transportation .....	2,394	1,891	1,351	1	1,614	397	349	1,103	1,260	2,798	95
65E	Pipelines, freight forwarders, and related services .....	61	26	18		25	1,116	8	13	13	52	1
66	Communications, except radio and TV .....	7,693	9,566	5,800		4,812	1,010	1,497	6,289	4,373	7,365	438
67	Radio and TV broadcasting .....											309
68A	Electric services (utilities) .....	14,548	2,227	413		6,386	3,065	1,301	831	1,386	1,765	135
68B	Gas production and distribution (utilities) .....	1,146	603	52		1,145	498	459	67	158	437	9
68C	Water and sanitary services .....	2,234	1,272	163		4,422	1,028	562	104	156	437	4
69A	Wholesale trade .....	3,463	2,074	837	185	1,000	483	2,344	5,756	1,437	5,449	408
69B	Retail trade .....	2,474	148	127	181	269	133	103	64	70	997	23
70A	Finance .....	13,701	131,904	24,443	12,653	5,693	4,582	1,034	2,607	4,277	4,972	226
70B	Insurance .....	2,392	2,070	90,348	13,757	6,606	171	290	296	460	1,256	57
71A	Owner-occupied dwellings .....											
71B	Real estate and royalties .....	48,295	18,805	10,219	18,397	49,218	4,664	6,278	20,049	17,001	12,821	191
72A	Hotels and lodging places .....	2,255	1,597	1,307		1,602	347	274	719	1,282	2,316	86
72B	Personal and repair services (except auto) .....	2,257	519	229		1,421	555	5,087	510	264	973	39
73A	Computer and data processing services, including own-account software .....	5,143	15,634	2,235		656	455	633	26,659	7,328	7,624	188
73B	Legal, engineering, accounting, and related services .....	5,958	18,033	9,751	2,623	11,686	732	4,224	4,077	26,133	10,242	1,704
73C	Other business and professional services, except medical .....	31,140	26,787	14,041	2,186	20,189	7,583	3,661	11,571	32,675	32,981	3,297
73D	Advertising .....	36,716	11,300	3,487		5,626	1,479	2,777	2,530	1,119	4,258	232
74	Eating and drinking places .....	2,933	1,601	1,333		1,619	475	326	834	879	2,674	87
75	Automotive repair and services .....	4,270	1,509	6,192		6,145	500	612	1,651	1,440	3,404	484
76	Amusements .....	878	563	371		438	82	82	233	220	1,150	923
77A	Health services .....										4	
77B	Educational and social services, and membership organizations .....	664	1,044	432		587	155	378	2,564	1,289	1,717	85
78	Federal Government enterprises .....	4,224	18,644	2,360		1,962	380	635	1,690	2,979	3,210	210
79	State and local government enterprises .....	598	312	54		1,016	252	139	45	98	178	9
80	Noncomparable imports .....	145	6,120	1,304			151	38	940	821	2,288	65
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 .....	227,179	291,007	184,017	82,681	186,644	36,527	47,205	126,498	115,979	142,729	12,340
VA	Value added .....	463,819	403,149	151,336	509,156	541,868	42,270	71,798	177,163	227,824	401,671	28,937
T	<b>Total Industry Output</b> .....	<b>690,998</b>	<b>694,156</b>	<b>335,353</b>	<b>591,837</b>	<b>728,512</b>	<b>78,797</b>	<b>119,003</b>	<b>303,661</b>	<b>343,803</b>	<b>544,400</b>	<b>41,278</b>



by Industries, 1997—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		
432		134	79	113						97,732	1
2,569	3	304	282	168						97,925	2
3,221		15	61		25					17,843	3
285	98	396	1,515	551	7	459				39,986	4
										8,973	5+6
5	2	1	6	3	858	1,079				20,756	7
						945				174,357	8
				3		64				15,361	9+10
										340	11
2,794	857	1,691	4,500	11,322	2,531	22,099				215,216	12
		41								385	13
72,580		1,158	5,377	3,976	670					190,896	14
										3,479	15
		119	44	69	17	12				43,804	16
36	62	13	67	10	1	13				11,954	17
9	53	122	766	75	2	38				17,179	18
232	196	67	972	90	259	2				14,014	19
61	23	128	247	535						110,878	20+21
	1	3	3	1	680					10,408	22+23
877	249	308	2,619	1,473	191	52				94,820	24
943	122	134	930	419	229					36,560	25
40	68	109	585	1,331	15	13				5,345	26A
589	135	379	3,291	11,695	1,370	200				64,585	26B
244	315	452	11,065	295	135	1,971				132,738	27A
		285	44	60		215				20,695	27B
			230							61,022	28
		10	15,989	135		4				28,240	29A
69	94	50	915	255	90	67				11,786	29B
4	499	111	5	163						15,610	30
761	2,327	450	1,326	1,266	1,668	3,575				99,644	31
2,723	4,544	239	8,508	986	32	147				139,287	32
2	2	92	32	121	88					4,730	33+34
644	1,119	6	1,541	352	5	87				21,858	35
517	33	4	501	15		690				63,039	36
		1	3	37						113,138	37
4	8	21	8	2	73					94,237	38
										12,807	39
		8		4		3				63,210	40
81	2,197	36	433	89	46	3				51,437	41
119	2,756	152	579	395	18	33				71,608	42
4	1,459		2	9	145	79				13,972	43
		9				225				6,693	44+45
					17					4,393	46
1	44	13	17	21	9	50				13,720	47
229	61		6	3						6,732	48
280	33		7							22,406	49
39	391	41	156	118	182	918				33,031	50
23	15	53	1,714	52	7					39,902	51
38	1,050	167	106	52	60	421				21,846	52
6	568	5	139	33		685				31,026	53
22			44	34		11				4,325	54
108	791	172	847	291	41	106				24,035	55
21	12	15	58	67		22				21,231	56
	373	1	312	220		40				144,815	57
49	1,013	792	284	263	36	161				17,956	58
	201									2,747	59A
443	24,361	135	472	381	1,586	349				114,269	59B
	2									27,310	60
		11		13	13	128				4,604	61
11	191	42	11,997	428	2	23				34,869	62
18	52	75	1,262	476	21	11				8,967	63
723	55	403	423	1,071	43	40				15,807	64
606	368	162	979	341	897	695				40,100	65A
2,850	1,190	469	2,345	1,231	2,031	864				151,259	65B
26	22	15	43	36	1,913	623				14,552	65C
1,247	955	635	3,519	1,148	1,926	148				58,626	65D
18	355	11	38	30	19	42				29,961	65E
1,332	1,967	1,582	7,893	3,194	431	526				150,284	66
										1,747	67
6,645	1,656	2,998	9,252	2,865	533	4,071				117,390	68A
1,170	454	246	1,706	696	387	3,407				69,097	68B
1,943	589	434	2,279	955	727	1,477				35,780	68C
16,099	7,398	2,911	13,086	4,713	1,208	1,454				394,971	69A
439	1,364	181	555	456	25	24				53,889	69B
3,470	3,434	1,673	5,273	5,530	1,041	1,868				288,601	70A
547	965	343	3,525	843	283	240				146,682	70B
											71A
15,876	10,349	11,565	49,105	29,295	1,089	2,521				450,865	71B
941	664	523	3,158	942	38	47				36,057	72A
846	2,208	508	1,756	656	26	127				30,108	72B
996	901	835	6,748	3,766	188	288				120,766	73A
2,833	1,535	4,076	12,150	4,476	329	3,964				245,113	73B
8,623	4,628	7,164	43,503	23,223	2,974	2,025				453,549	73C
7,071	3,221	6,642	3,297	7,503	10	295				184,119	73D
5,213	697	605	5,099	1,900	124	123				47,969	74
1,525	2,920	1,230	5,678	2,103	435	568				99,065	75
3,775	192	27,057	555	1,546		4				66,266	76
		50	13,669							15,923	77A
503	139	263	2,251	1,648	38	110				25,272	77B
569	725	731	7,060	2,972	116	329				61,052	78
441	304	106	456	231	87	2,256				10,107	79
206	22	332	45	28	1,410					66,110	80
1	431	-215								7,768	81
											82
											83
											84
											85
177,668	96,460	82,100	285,390	141,869	29,491	63,152				6,385,588	I
179,218	100,249	106,619	441,362	161,299	59,061	61,040	920,196	12,464	10,751		VA
356,886	196,709	188,718	726,752	303,167	88,551	124,192	920,196	12,464	10,751		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
1	Livestock and livestock products .....	4,398		-387	967	-2,558
2	Other agricultural products .....	25,025		4,019	20,223	-11,969
3	Forestry and fishery products .....	4,344		65	2,272	-8,371
4	Agricultural, forestry, and fishery services .....	968		33	-12	
5+6	Metallic ores mining .....		948	13	1,306	1,921
7	Coal mining .....	55		43	2,344	-306
8	Crude petroleum and natural gas .....		189	-198	3,322	-64,550
9+10	Nonmetallic minerals mining .....	50		147	783	-1,263
11	New construction, including own-account construction .....		488,457			
12	Maintenance and repair construction, including own-account construction .....		33,063		74	
13	Ordinance and accessories .....	1,495	291	-770	3,237	-1,075
14	Food and kindred products .....	282,777		1,937	27,513	-28,225
15	Tobacco products .....	31,748		1,719	6,062	-1,411
16	Broad and narrow fabrics, yarn and thread mills .....	1,898		-54	3,208	-5,349
17	Miscellaneous textile goods and floor coverings .....	6,696	2,720	140	2,321	-2,481
18	Apparel .....	97,322		3,430	8,234	-56,319
19	Miscellaneous fabricated textile products .....	15,477		489	1,003	-4,505
20+21	Lumber and wood products .....	3,168	9,921	1,652	6,185	-14,330
22+23	Furniture and fixtures .....	29,643	23,332	3	3,865	-11,354
24	Paper and allied products, except containers .....	16,625		1,098	11,582	-15,056
25	Paperboard containers and boxes .....	383		324	1,304	-520
26A	Newspapers and periodicals .....	17,424		-123	791	-222
26B	Other printing and publishing .....	21,669		1,505	3,635	-2,822
27A	Industrial and other chemicals .....	2,170	1,345	797	25,220	-22,147
27B	Agricultural fertilizers and chemicals .....	1,430		482	4,638	-3,275
28	Plastics and synthetic materials .....			541	13,453	-7,283
29A	Drugs .....	63,173		2,560	10,384	-26,766
29B	Cleaning and toilet preparations .....	37,430		390	4,513	-3,019
30	Paints and allied products .....	645		151	1,185	-459
31	Petroleum refining and related products .....	62,255		177	10,244	-13,656
32	Rubber and miscellaneous plastics products .....	20,302	335	1,443	11,932	-20,071
33+34	Footwear, leather, and leather products .....	20,320		305	1,863	-17,976
35	Glass and glass products .....	1,299		299	2,518	-3,698
36	Stone and clay products .....	3,432		512	2,455	-7,563
37	Primary iron and steel manufacturing .....	64	50	1,665	5,049	-18,137
38	Primary nonferrous metals manufacturing .....	78	70	806	10,214	-18,392
39	Metal containers .....		65	98	328	-304
40	Heating, plumbing, and fabricated structural metal products .....	559	4,485	772	3,356	-2,059
41	Screw machine products and stampings .....	1,933		256	1,492	-2,751
42	Other fabricated metal products .....	5,623	3,454	825	8,428	-14,631
43	Engines and turbines .....	222	3,656	-194	9,890	-3,688
44+45	Farm, construction, and mining machinery .....	258	36,096	2,083	14,979	-9,919
46	Materials handling machinery and equipment .....		10,017	117	2,284	-2,949
47	Metalworking machinery and equipment .....	1,091	29,340	390	6,139	-10,982
48	Special industry machinery and equipment .....	231	27,042	446	8,624	-9,782
49	General industrial machinery and equipment .....		17,066	391	12,403	-12,505
50	Miscellaneous machinery, except electrical .....	120	832	325	4,033	-2,587
51	Computer and office equipment .....	11,375	64,375	2,310	40,337	-68,245
52	Service industry machinery .....	1,150	10,000	95	5,238	-3,253
53	Electrical industrial equipment and apparatus .....	269	9,505	166	6,479	-9,492
54	Household appliances .....	15,956	3,425	-200	3,055	-6,151
55	Electric lighting and wiring equipment .....	2,149	288	128	4,522	-7,332
56	Audio, video, and communication equipment .....	26,825	44,024	1,082	19,525	-35,181
57	Electronic components and accessories .....	245		1,731	39,093	-43,947
58	Miscellaneous electrical machinery and supplies .....	8,196	2,516	194	8,817	-11,958
59A	Motor vehicles (passenger cars and trucks) .....	131,931	137,584	2,268	25,125	-87,956
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	5,728	8,963	574	28,633	-31,780
60	Aircraft and parts .....	219	13,838	1,300	48,545	-15,475
61	Other transportation equipment .....	17,128	10,644	762	4,388	-4,651
62	Scientific and controlling instruments .....	6,487	54,616	127	28,631	-21,696
63	Ophthalmic and photographic equipment .....	7,815	7,746	473	4,322	-11,176
64	Miscellaneous manufacturing .....	49,611	7,299	561	6,623	-32,905
65A	Railroads and related services; passenger ground transportation .....	25,156	1,278	186	5,349	-194
65B	Motor freight transportation and warehousing .....	33,873	5,837	943	14,754	-1,985
65C	Water transportation .....	6,081	6 9	10,243	4,038	
65D	Air transportation .....	52,422	2,519	145	30,591	-14,786
65E	Pipelines, freight forwarders, and related services .....	4,326		-10	3,090	
66	Communications, except radio and TV .....	134,243	6,884		4,931	
67	Radio and TV broadcasting .....	3,433				
68A	Electric services (utilities) .....	93,742			283	-1,100
68B	Gas production and distribution (utilities) .....	36,565		-1	428	
68C	Water and sanitary services .....	28,692			63	
69A	Wholesale trade .....	206,570	82,260	6,073	73,311	19,617
69B	Retail trade .....	617,156	23,797		32	
70A	Finance .....	304,148			30,822	-889
70B	Insurance .....	189,765			3,515	-5,646
71A	Owner-occupied dwellings .....	591,837				
71B	Real estate and royalties .....	194,952	43,539		34,742	-16
72A	Hotels and lodging places .....	40,071			114	
72B	Personal and repair services (except auto) .....	85,560			74	
73A	Computer and data processing services, including own-account software .....	8,476	120,335	313	4,406	-497
73B	Legal, engineering, accounting, and related services .....	56,367	19,636		8,542	-1,626
73C	Other business and professional services, except medical .....	28,581			9,086	-2,449
73D	Advertising .....	1,053			921	-1,361
74	Eating and drinking places .....	311,168			710	
75	Automotive repair and services .....	146,108		5	1,183	-3
76	Amusements .....	117,315			9,380	-371
77A	Health services .....	798,000			204	-9
77B	Educational and social services, and membership organizations .....	300,845			607	-564
78	Federal Government enterprises .....	8,511			273	
79	State and local government enterprises .....	32,220				
80	Noncomparable imports .....	43,989				-120,721
81	Scrap, used and secondhand goods .....	34,555	-46,033	2,251	6,075	-5,797
82	General government industry .....					
83	Rest of the world adjustment to final uses .....	-87,844			88,707	-40
84	Household industry .....	12,464				
85	Inventory valuation adjustment .....			10,751		
I	Total intermediate inputs .....					
VA	Value added .....					
T	<b>Total Industry Output</b> .....	<b>5,529,283</b>	<b>1,327,654</b>	<b>62,926</b>	<b>901,651</b>	<b>-990,973</b>

\* Less than \$500,000.

by Industries, 1997—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				265	265	2,686	100,418	1	
-62					1,187	1,187	38,423	136,349	2	
-548	-2		-62		-680	-680	-2,918	14,925	3	
38	24		15		2,400	2,400	3,428	43,414	4	
-282	-283		1				3,906	12,879	5+6	
34	1		33		48	48	2,218	22,973	7	
-321			-321				-61,558	112,799	8	
-1	-6		5		65	65	-219	15,143	9+10	
15,922		5,722		10,200	136,007		136,007	640,385	11	
12,369	8,206		4,163		42,861	42,861	88,366	303,583	12	
15,094	7,675	4,591	721	2,108	171	171	18,442	18,827	13	
194	176		18		10,829	10,814	295,025	485,921	14	
					-38	-38	38,079	41,558	15	
112	91		21		528	528	343	44,147	16	
43	3		33	8	129	104	9,568	21,522	17	
391	389		1		1,514	1,514	54,571	71,751	18	
127	77		50		647	647	13,237	27,251	19	
28	9		18	2	286	286	6,910	117,788	20+21	
160		24		136	4,166	4	4,162	49,815	22+23	
662	71		591		4,348	4,348	19,258	114,078	24	
105	46		59		258	258	1,853	38,413	25	
129	6		123		992	992	18,991	24,336	26A	
1,498	266		1,232		8,282	8,282	33,768	98,353	26B	
3,904	1,652		2,252		5,345	5,345	16,633	149,371	27A	
22	3		19		620	620	3,918	24,613	27B	
14	5		9		2	2	6,727	67,749	28	
911	628		283		6,853	6,853	57,115	85,355	29A	
173	106		67		1,106	1,106	40,593	52,380	29B	
16			16		1,199	1,199	2,737	18,346	30	
2,773	2,369		404		13,964	13,964	75,758	175,401	31	
715	478		185	52	2,901	2,901	17,556	156,843	32	
37	33		4		254	254	4,802	9,532	33+34	
117	5		112		219	219	755	22,613	35	
140	14		125		290	290	-735	62,304	36	
271	259		12		267	267	-10,771	102,368	37	
366	152	72	114	27	43	43	-6,816	87,421	38	
18	18				9	9	214	13,021	39	
800	353	59	338	50	16	15	7,929	71,140	40	
187	145		43		135	135	1,252	52,689	41	
668	252	261	127	28	2,120	1,350	6,486	78,094	42	
439	97	78	(*)	263	290	190	100	10,616	24,588	43
466	3	409	21	33	2,419	105	2,314	46,382	53,075	44+45
58		46	4	8	25		25	9,552	13,945	46
78	6	41	29	2	597	183	414	26,654	40,374	47
76	1	41	23	10	246	116	130	26,883	33,615	48
359	162	155	10	32	539	94	445	18,252	40,658	49
567	176	268	28	95	419	296	123	3,707	36,739	50
3,468	233	1,051	1,109	1,075	4,602	809	3,793	58,221	98,123	51
92	49	8	33	3	1,099	610	489	14,422	36,268	52
1,097	584	153	260	101	787	114	673	8,811	39,837	53
55	36	14	1	2	217	28	189	16,358	20,683	54
436	300		136		833	821	12	1,024	25,059	55
10,101	3,956	3,111	167	2,867	1,538	101	1,437	67,914	89,145	56
1,022	747		275		290	290	-1,565	143,250	143,250	57
1,424	343	733	203	145	538	290	248	9,728	27,685	58
1,490	4	976	16	494	8,069		8,069	218,512	221,259	59A
396	179	83	24	111	2,391	2,378	13	14,906	129,174	59B
26,605	18,969	5,833	934	869	90		90	75,123	102,433	60
7,701	1,283	6,218	70	130	1,112	58	1,054	37,084	41,688	61
14,724	4,594	7,115	1,642	1,373	6,049	3,348	2,701	88,937	123,806	62
1,178	702	404	66	5	3,319	2,375	944	13,677	22,644	63
67	15	43	3	5	2,634	1,942	692	33,889	49,696	64
669	377	12	276	5	5,820	5,742	78	38,263	78,362	65A
3,901	2,991	144	730	36	3,285	2,877	408	60,608	211,866	65B
1,666	1,568	(*)	98		542	542	22,584	(*)	37,136	65C
3,142	2,055	126	907	55	4,517	4,402	115	78,549	137,175	65D
12	26		-14		269	269		7,687	37,648	65E
6,558	1,979		4,579		11,328	11,328		163,944	314,228	66
								3,433	5,180	67
2,615	1,598		1,017		19,954	19,954	115,495	232,885	68A	
579	279		300		4,508	4,508	42,079	111,176	68B	
1,087	611		476		118	118	29,960	65,740	68C	
4,880	1,702	1,682	833	663	16,609	11,820	4,789	409,319	804,290	69A
2			2					640,987	694,876	69B
1,522			1,522		15,147	15,147		350,750	639,350	70A
2,149	32		2,117		901	901		190,684	337,367	70B
								591,837	591,837	71A
3,501	381		3,120		13,490	13,490		290,208	741,073	71B
704	588		116		909	909		41,798	77,855	72A
93	80		13		3,529	3,529		89,256	119,364	72B
32,696	8,106	8,908	3,266	12,416	18,889	8,029	10,860	184,618	305,384	73A
4,343	3,910		433		5,975	5,975		93,237	338,350	73B
21,694	15,234		6,460		22,754	22,754		79,666	533,214	73C
88	79		9		2,143	2,143		186,963	186,963	73D
1,407	314		1,093		-3,312	-3,312		309,974	357,943	74
347	275		72		5,271	5,271		152,911	251,976	75
1,108	1,089		19		-2,816	-2,816		124,615	190,881	76
1,885	18		1,867		-89,952	-89,952		710,129	726,052	77A
8,495	295		8,200		-32,414	-32,414		276,969	302,241	77B
1,270	1,281		-11		3,644	3,644		13,697	74,750	78
245	157		88		990	990		33,454	43,561	79
10,623	8,134		2,489					-66,110		80
198	553	33	120	-508	2,526	408	2,118	-6,226	1,542	81
292,813	194,840		97,974		627,383	627,383		920,196	920,196	82
-823			-823							83
								12,464	12,464	84
								10,751	10,751	85
										I
								8,318,442		VA
538,185	304,208	48,413	152,665	32,899	949,715	766,412	183,303		14,704,030	T

**Table 8.—Industry-by-Industry**  
[Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the industry named at the head of the column.	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Nonmetallic minerals mining	New construction, including own-account construction
	Industry number	1	2	3	4	5+6	7	8	9+10	11
1	Livestock and livestock products .....	1.20706	.00448	.03528	.02727	.00097	.00077	.00057	.00058	.00091
2	Other agricultural products .....	.44264	1.04742	.06702	.12921	.00225	.00183	.00139	.00110	.00560
3	Forestry and fishery products .....	.00265	.00084	1.02863	.00172	.00099	.00073	.00061	.00040	.00473
4	Agricultural, forestry, and fishery services .....	.09095	.07493	.25595	1.01609	.00372	.00226	.00275	.00139	.00550
5+6	Metallic ores mining .....	.00090	.00067	.00050	.00054	1.14016	.00156	.00133	.00163	.00228
7	Coal mining .....	.00299	.00136	.00083	.00089	.00785	1.11522	.00224	.00714	.00185
8	Crude petroleum and natural gas .....	.03745	.04087	.02742	.02418	.04552	.03979	1.35764	.04980	.02053
9+10	Nonmetallic minerals mining .....	.00457	.00760	.00237	.00492	.00441	.00231	.00184	1.03652	.01188
11	New construction, including own-account construction .....									1.00053
12	Maintenance and repair construction, including own-account construction .....	.04255	.02827	.04241	.01965	.04715	.02109	.07793	.02370	.01208
13	Ordinance and accessories .....	.00005	.00003	.00004	.00004	.00007	.00006	.00003	.00006	.00008
14	Food and kindred products .....	.31161	.00437	.06419	.01349	.00373	.00278	.00198	.00239	.00236
15	Tobacco products .....	(*)	(*)	(*)	(*)	.00001	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00453	.00721	.00283	.00258	.00082	.00625	.00043	.00071	.00252
17	Miscellaneous textile goods and floor coverings .....	.00388	.00268	.00624	.00299	.00045	.00053	.00031	.00039	.00280
18	Apparel .....	.00044	.00042	.00031	.00029	.00016	.00042	.00011	.00014	.00027
19	Miscellaneous fabricated textile products .....	.00152	.00269	.00156	.00214	.00022	.00024	.00020	.00017	.00096
20+21	Lumber and wood products .....	.01020	.00937	.00588	.00378	.01308	.00843	.00856	.00381	.07414
22+23	Furniture and fixtures .....	.00024	.00015	.00014	.00012	.00027	.00025	.00017	.00023	.00408
24	Paper and allied products, except containers .....	.01982	.01041	.00821	.00661	.00487	.00447	.00307	.00417	.01121
25	Paperboard containers and boxes .....	.01165	.00915	.00556	.00650	.00231	.00210	.00101	.00166	.00354
26A	Newspapers and periodicals .....	.00529	.00229	.00280	.00307	.00218	.00236	.00214	.00250	.00306
26B	Other printing and publishing .....	.00988	.00467	.00604	.00519	.00435	.00463	.00390	.00436	.00591
27A	Industrial and other chemicals .....	.02317	.02441	.01239	.02125	.08109	.02869	.01739	.03241	.01972
27B	Agricultural fertilizers and chemicals .....	.04345	.08415	.02704	.08283	.00256	.00119	.00086	.00105	.00156
28	Plastics and synthetic materials .....	.00830	.00683	.00461	.00504	.00811	.00697	.00244	.00518	.00925
29A	Drugs .....	.00713	.00172	.00098	.00183	.00077	.00029	.00018	.00032	.00023
29B	Cleaning and toilet preparations .....	.00371	.00408	.00276	.00386	.00204	.00108	.00074	.00103	.00143
30	Paints and allied products .....	.00103	.00066	.00075	.00128	.00084	.00094	.00094	.00075	.00816
31	Petroleum refining and related products .....	.03485	.03467	.02861	.01662	.03905	.04393	.01597	.04034	.02028
32	Rubber and miscellaneous plastics products .....	.02384	.01251	.00789	.00718	.01624	.02369	.00510	.01691	.02782
33+34	Footwear, leather, and leather products .....	.00085	.00013	.00012	.00013	.00006	.00006	.00006	.00005	.00013
35	Glass and glass products .....	.00360	.00072	.00119	.00092	.00089	.00099	.00062	.00131	.00468
36	Stone and clay products .....	.00330	.00313	.00239	.00186	.00913	.01050	.00727	.00245	.06304
37	Primary iron and steel manufacturing .....	.00918	.00578	.00539	.00389	.05939	.0270	.03199	.03212	.03372
38	Primary nonferrous metals manufacturing .....	.00833	.00371	.00423	.00297	.00939	.01010	.00524	.00738	.02637
39	Metal containers .....	.00670	.00072	.00172	.00084	.00068	.00037	.00022	.00036	.00052
40	Heating, plumbing, and fabricated structural metal products .....	.00313	.00214	.00247	.00131	.01505	.00883	.00484	.00810	.05520
41	Screw machine products and stampings .....	.00228	.00111	.00126	.00093	.00466	.01130	.00137	.00378	.00529
42	Other fabricated metal products .....	.00937	.00624	.00457	.00436	.00646	.00904	.00944	.00562	.02450
43	Engines and turbines .....	.00067	.00046	.00205	.00034	.00606	.00992	.00065	.00592	.00111
44+45	Farm, construction, and mining machinery .....	.00354	.00350	.00288	.00151	.02965	.06325	.00445	.0340	.00365
46	Materials handling machinery and equipment .....	.00033	.00027	.00016	.00018	.00719	.00837	.00075	.01502	.00386
47	Metalworking machinery and equipment .....	.00144	.00092	.00071	.00052	.00316	.00271	.00110	.00192	.00309
48	Special industry machinery and equipment .....	.00068	.00042	.00040	.00038	.00083	.00091	.00030	.00077	.00095
49	General industrial machinery and equipment .....	.00219	.00177	.00131	.00081	.00816	.01635	.00235	.01141	.00866
50	Miscellaneous machinery, except electrical .....	.00353	.00273	.00179	.00171	.00640	.01126	.00340	.00499	.00450
51	Computer and office equipment .....	.00168	.00108	.00097	.00085	.00117	.00110	.00089	.00112	.00170
52	Service industry machinery .....	.00099	.00063	.00103	.00058	.00114	.00099	.00130	.00091	.01460
53	Electrical industrial equipment and apparatus .....	.00194	.00127	.00136	.00083	.00499	.00616	.00243	.00633	.00963
54	Household appliances .....	.00022	.00015	.00018	.00015	.00025	.00019	.00029	.00015	.00267
55	Electric lighting and wiring equipment .....	.00184	.00112	.00128	.00133	.00125	.00181	.00417	.00091	.01653
56	Audio, video, and communication equipment .....	.00078	.00050	.00048	.00045	.00054	.00045	.00056	.00045	.00425
57	Electronic components and accessories .....	.00478	.00305	.00253	.00240	.0030	.00311	.00198	.0030	.00579
58	Miscellaneous electrical machinery and supplies .....	.00550	.00527	.00164	.00193	.00118	.00143	.00064	.00171	.00265
59A	Motor vehicles (passenger cars and trucks) .....	.00017	.00011	.00019	.00012	.00019	.00030	.00008	.00023	.00017
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00521	.00373	.00590	.00406	.00432	.00486	.00214	.00627	.00444
60	Aircraft and parts .....	.00062	.00039	.00078	.00115	.00089	.00120	.00047	.00081	.00059
61	Other transportation equipment .....	.00066	.00024	.00079	.00019	.00055	.00129	.00024	.00043	.00071
62	Scientific and controlling instruments .....	.00132	.00066	.00168	.00099	.00108	.00090	.00067	.00073	.00449
63	Ophthalmic and photographic equipment .....	.00076	.00050	.00065	.00060	.00062	.00062	.00051	.00042	.00080
64	Miscellaneous manufacturing .....	.00209	.00137	.00087	.00084	.00103	.00105	.00084	.00107	.00389
65A	Railroads and related services; passenger ground transportation .....	.02230	.00535	.00447	.00463	.01169	.03986	.00415	.00770	.00542
65B	Motor freight transportation and warehousing .....	.06559	.02851	.01783	.02426	.03531	.03362	.01223	.03356	.03635
65C	Water transportation .....	.00210	.00124	.02928	.00094	.00216	.00391	.00151	.00144	.00136
65D	Air transportation .....	.00795	.00486	.00960	.01694	.00737	.00854	.00587	.00645	.00565
65E	Pipelines, freight forwarders, and related services .....	.00696	.00337	.00478	.00388	.00440	.00511	.00243	.00419	.00314
66	Communications, except radio and TV .....	.01702	.00982	.00883	.01117	.01066	.00969	.00982	.00983	.01358
67	Radio and TV broadcasting .....	.00397	.00167	.00202	.00217	.00161	.00171	.00161	.00189	.00227
68A	Electric services (utilities) .....	.03092	.01248	.00670	.00748	.07082	.02981	.02050	.04286	.01095
68B	Gas production and distribution (utilities) .....	.01146	.01192	.00558	.00683	.02101	.00943	.07728	.03091	.00731
68C	Water and sanitary services .....	.00277	.00268	.00133	.00092	.00107	.00099	.00152	.00101	.00127
69A	Wholesale trade .....	.14395	.07731	.05112	.05660	.07079	.08008	.03049	.07008	.07717
69B	Retail trade .....	.00390	.00217	.00497	.00186	.00512	.00373	.00671	.00578	.04078
70A	Finance .....	.03060	.01845	.02355	.02032	.02489	.02492	.02089	.02122	.02314
70B	Insurance .....	.01985	.02061	.00988	.00886	.00920	.00749	.00814	.00830	.01197
71A	Owner-occupied dwellings .....									
71B	Real estate and royalties .....	.13246	.11753	.03044	.03775	.03718	.06415	.31751	.03906	.03162
72A	Hotels and lodging places .....	.00449	.00261	.00478	.00338	.00561	.00635	.00531	.00468	.00381
72B	Personal and repair services (except auto) .....	.00334	.00237	.00240	.00309	.00226	.00204	.00172	.00146	.00243
73A	Computer and data processing services, including own-account software .....	.00897	.00504	.00625	.00501	.00860	.00760	.00590	.00863	.00915
73B	Legal, engineering, accounting, and related services .....	.02068	.01432	.04105	.02451	.03361	.03420	.04032	.02261	.08568
73C	Other business and professional services, except medical .....	.05211	.03515	.04563	.03360	.04435	.03888	.03341	.03232	.06478
73D	Advertising .....	.00434	.00183	.00222	.00238	.00177	.00188	.00176	.00207	.00250
74	Eating and drinking places .....	.00448	.00248	.00508	.00365	.00657	.00673	.00516	.00551	.00417
75	Automotive repair and services .....	.01124	.00728	.00972	.01108	.00724	.00644	.00575	.00560	.00905
76	Amusements .....	.00457	.00241	.00449	.01069	.00215	.00303	.00265	.00209	.00262
77A	Health services .....	.02540	.00015	.00081	.00063	.00009	.00008	.00006	.00007	.00012
77B	Educational and social services, and membership organizations .....	.00321	.00181	.00445	.00174	.00397	.00518	.00217	.00201	.00194
78	Federal Government enterprises .....	.00569	.00314	.00352	.00345	.00671	.00411	.00399	.00466	.00504
79	State and local government enterprises .....	.01379	.00883	.00657	.00486	.01305	.01140	.01373	.00940	.00524
82	General government industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
T	<b>Total industry output multiplier .....</b>	<b>3.10816</b>	<b>1.88817</b>	<b>2.04939</b>	<b>1.76272</b>	<b>2.07529</b>	<b>1.99215</b>	<b>2.24568</b>	<b>1.78595</b>	<b>2.04597</b>

\* Less than .000005.

**Total Requirements, 1997**

of delivery to final demand, at producers' prices)

Maintenance and repair construction, including own-account construction	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
12	13	14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	
.00100	.00063	.24614	.00096	.01502	.00841	.00596	.00614	.00528	.00234	.00311	.00175	.00068	.00091	.00274	.00555	1
.00638	.00137	.20261	.09397	.09613	.02431	.03117	.02982	.03546	.00944	.00632	.00345	.00126	.00182	.00994	.00611	2
.00635	.00061	.00775	.00038	.00061	.00074	.00252	.00082	.08834	.00791	.00657	.00297	.00075	.00123	.00105	.00135	3
.00640	.00226	.02918	.00733	.00871	.00362	.00418	.00374	.02519	.0040	.00346	.00222	.00144	.00144	.00265	.00250	4
.00204	.00230	.00134	.00028	.00169	.00224	.00085	.00099	.00095	.00311	.00144	.00154	.00037	.00068	.01443	.00316	5+6
.00160	.00164	.00268	.00141	.0040	.00388	.00276	.00248	.00188	.00278	.00601	.00424	.00116	.00171	.00489	.00388	7
.02665	.01050	.02651	.00935	.03686	.04420	.02284	.02444	.02011	.01843	.03531	.03102	.00942	.01484	.12990	.15375	8
.01256	.00111	.00278	.00116	.00430	.00493	.00192	.00234	.00203	.00179	.00222	.0040	.00113	.00192	.01845	.05406	9+10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
1.01181	.01734	.02699	.01121	.02503	.03244	.02188	.02059	.01902	.01809	.03156	.02591	.01575	.01758	.03721	.03510	12
.00007	1.01032	.00004	.00003	.00005	.00006	.00006	.00004	.00004	.00006	.00005	.00005	.00004	.00004	.00010	.00006	13
.00238	.00228	1.25872	.00245	.00844	.00902	.00679	.00992	.00852	.00575	.01334	.00749	.00272	.00379	.01288	.02717	14
(*)	(*)	(*)	1.09132	.00001	.00002	.00001	.00001	(*)	(*)	.00002	.00003	.00001	.00001	.00003	.00002	15
.00231	.00258	.00299	.00176	1.26858	.23105	.37030	.36504	.0245	.06358	.00740	.00381	.00099	.00262	.00171	.00101	16
.00265	.00078	.00189	.00079	.00376	1.03068	.00549	.05923	.00329	.03131	.00864	.00403	.00099	.00194	.00065	.00052	17
.00028	.00050	.00033	.00016	.00636	.00473	1.23766	.00330	.00033	.00159	.00043	.00033	.00013	.00020	.00023	.00021	18
.00113	.00029	.00097	.00044	.00142	.00140	.04093	1.01885	.00056	.00110	.00044	.00044	.00020	.00026	.00028	.00027	19
.10073	.00670	.00923	.00383	.00512	.00588	.00470	.00657	1.4527	.12162	.10500	.04377	.01047	.01575	.00674	.00593	20+21
.00085	.00054	.00028	.00011	.00019	.00019	.00025	.00021	.00422	1.00544	.00068	.00044	.00019	.00022	.00021	.00018	22+23
.00945	.00608	.03960	.02002	.01009	.01446	.01016	.00976	.00834	.01615	1.17505	.46324	.09778	.15945	.01293	.01357	24
.00332	.00362	.02699	.01580	.00512	.00680	.00467	.00411	.00592	.01625	.01817	1.01092	.00281	.00773	.00817	.00741	25
.00296	.00329	.01075	.02572	.00346	.00580	.00647	.00424	.00365	.00513	.00444	.00360	1.01663	.00886	.00471	.00683	26A
.00550	.00495	.01777	.03543	.00603	.00874	.01020	.00804	.00658	.00810	.00978	.00960	.07634	1.09152	.00801	.01554	26B
.01891	.01851	.02593	.01222	.13067	.17399	.05293	.07016	.01951	.03041	.08870	.06664	.01954	.03916	1.30789	.14089	27A
.00170	.00199	.01874	.0080	.01272	.00867	.00468	.00509	.00760	.00230	.00375	.00248	.00080	.00137	.01684	1.12523	27B
.00928	.00881	.01032	.01118	.18547	.07212	.08857	.01124	.02970	.04417	.02566	.00528	.00258	.01096	.03058	.01420	28
.00023	.00038	.00559	.00030	.00135	.00164	.00068	.00073	.00037	.00034	.00097	.00069	.00021	.00040	.00303	.00359	29A
.00156	.00084	.00350	.00294	.00696	.01192	.00912	.00403	.00144	.00233	.00783	.00407	.00111	.00184	.00820	.01193	29B
.00861	.00095	.00150	.00040	.00183	.00244	.00101	.00109	.00330	.00695	.00163	.00489	.00044	.00071	.00812	.00166	30
.02906	.00787	.02090	.00786	.02299	.02697	.01483	.01566	.01831	.01411	.02205	.02412	.00735	.01049	.05204	.03273	31
.02935	.02236	.03628	.01265	.02293	.03378	.02028	.03293	.01990	.00513	.05273	.03204	.00826	.02403	.02405	.01983	32
.00013	.00008	.00026	.00007	.00024	.00022	.00974	.00309	.00024	.00135	.00010	.00008	.00009	.00010	.00008	.00008	33+34
.00237	.00177	.01109	.00044	.01053	.00353	.00362	.00363	.00393	.00466	.00141	.00106	.00044	.00066	.00212	.00190	35
.03750	.00388	.00262	.00106	.00240	.00179	.00179	.00216	.01164	.00690	.00417	.00349	.00124	.00172	.00551	.00535	36
.02923	.02559	.01227	.00241	.0050	.00681	.00428	.00401	.01316	.01642	.00786	.01611	.00246	.00402	.01511	.01090	37
.02420	.01766	.01766	.00187	.00410	.00552	.00391	.00329	.00834	.02591	.00707	.00932	.00214	.00367	.01085	.00761	38
.00053	.00027	.02533	.00025	.00116	.00147	.00068	.00078	.00057	.00066	.00101	.00083	.00024	.00041	.00765	.00605	39
.04694	.00294	.00213	.00080	.00175	.00233	.00154	.00148	.01232	.00312	.00301	.00229	.00104	.00137	.00290	.00262	40
.00453	.01183	.00309	.00062	.00106	.00134	.00104	.00099	.00805	.01555	.00196	.00233	.00070	.00099	.00176	.00145	41
.02111	.01693	.00865	.00303	.00361	.00447	.00312	.00312	.01743	.05265	.00880	.01273	.00255	.00356	.01184	.00705	42
.00092	.00122	.00053	.00021	.00042	.00052	.00038	.00033	.00066	.00053	.00055	.00054	.00025	.00030	.00071	.00080	43
.00283	.00062	.00147	.00049	.00096	.00084	.00057	.00054	.00090	.00029	.00097	.00075	.00026	.00037	.00189	.000271	44+45
.00061	.00021	.00028	.00011	.00027	.00031	.00025	.00023	.00054	.00033	.00036	.00030	.00012	.00016	.00062	.00104	46
.00246	.00404	.00137	.00073	.00136	.00152	.00104	.00127	.00210	.00312	.00177	.00221	.00055	.00099	.00179	.00106	47
.00082	.00468	.00104	.00051	.00227	.01184	.00456	.00320	.00141	.00191	.00464	.00704	.00130	.00538	.00338	.00082	48
.00422	.00693	.00193	.00051	.00106	.00151	.00106	.00083	.00274	.00407	.00167	.00169	.00053	.00082	.0182	.00216	49
.00342	.01023	.00311	.00111	.00435	.00460	.00290	.00350	.00457	.00578	.00502	.00533	.00141	.00259	.00681	.00301	50
.00145	.00760	.00146	.00105	.00137	.00162	.00147	.00120	.00126	.00126	.00152	.00164	.00171	.00157	.00174	.00164	51
.01347	.00057	.00086	.00052	.00070	.00089	.00067	.00057	.00283	.00090	.00106	.00084	.00045	.00052	.00151	.00090	52
.00732	.01283	.00180	.00113	.00136	.00188	.00140	.00108	.00175	.00228	.00188	.00183	.00079	.00107	.00312	.00194	53
.00299	.00021	.00020	.00008	.00024	.00024	.00024	.00019	.00262	.00043	.00039	.00025	.00011	.00014	.00023	.00021	54
.01531	.00246	.00131	.00088	.00093	.00106	.00078	.00073	.00347	.00123	.00141	.00109	.00059	.00070	.00137	.00134	55
.00359	.02433	.00059	.00039	.00045	.00057	.00053	.00046	.00050	.00049	.00051	.00054	.00049	.00050	.00059	.00056	56
.00510	.07960	.00402	.00212	.00329	.00385	.00362	.00310	.00384	.00369	.00357	.00391	.00270	.00299	.00404	.00365	57
.00223	.00160	.00220	.00082	.00098	.00079	.00076	.00061	.00104	.00067	.00073	.00073	.00062	.00055	.00078	.00079	58
.00017	.00014	.00015	.00005	.00010	.00011	.00009	.00008	.00030	.00020	.00013	.00014	.00008	.00008	.00012	.00014	59A
.00465	.00239	.00411	.00162	.00280	.00315	.00264	.00223	.00877	.00318	.00366	.00367	.00238	.00233	.00328	.00387	59B
.00053	.08837	.00070	.00042	.00059	.00069	.00077	.00067	.00065	.00080	.00066	.00080	.00043	.00052	.00072	.00064	60
.00070	.00021	.00047	.00014	.00034	.00043	.00045	.00029	.00069	.00036	.00054	.00056	.00022	.00026	.00049	.00056	61
.00354	.06426	.00087	.00043	.00076	.00098	.00067	.00067	.00089	.00098	.00130	.00181	.00088	.00170	.00246	.00116	62
.00070	.00102	.00079	.00063	.00083	.00099	.00081	.00070	.00068	.00076	.00124	.00193	.00293	.00642	.00149	.00103	63
.00422	.00082	.00193	.00280	.00139	.00177	.01309	.00267	.00321	.00178	.00157	.00124	.00159	.00216	.00122	.00129	64
.00538	.00371	.01453	.00320	.01008	.01237	.00621	.00619	.01224	.00799	.01558	.01860	.00504	.00722	.01432	.01724	65A
.03493	.01665	.05228	.01549	.03496	.04836	.03243	.03383	.05621	.03684	.06086	.08021	.00203	.03356	.05143	.09123	65B
.00140	.00053	.00226	.00050	.00144	.00226	.00102	.00112	.00411	.00139	.00219	.01056	.00064	.00086	.00265	.00315	65C
.00523	.00941	.00945	.00587	.00798	.00929	.01102	.00950	.00789	.00825	.00848	.01056	.00598	.00712	.00846	.00805	65D
.00328	.00236	.00492	.00187	.00385	.00484	.00365	.00352	.00455	.00342	.0050	.00610	.00209	.00295	.00713	.00681	65E
.01303	.01050	.01413	.01096	.01089	.01434	.01349	.01196	.01140	.01273	.01197	.01363	.01334	.01119	.01292	.01319	66
.00223	.00244	.00849	.00288	.00264	.00447	.00507	.00324	.00272	.00396	.00338	.00271	.00622	.00354	.00363</		

**Table 8.—Industry-by-Industry**  
[Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the industry named at the head of the column.	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
		28	29A	29B	30	31	32	33+34	35	36	37
1	Livestock and livestock products .....	.00263	.00278	.00594	.00393	.00098	.00190	.0370	.0010	.00088	.00069
2	Other agricultural products .....	.00536	.00601	.00583	.00592	.00175	.00678	.03548	.00241	.00197	.00134
3	Forestry and fishery products .....	.00107	.00101	.00116	.00119	.00063	.00718	.00181	.00208	.0010	.00067
4	Agricultural, forestry, and fishery services .....	.00222	.00208	.00226	.00207	.00233	.00356	.00575	.00216	.00170	.00165
5+6	Metallic ores mining .....	.00501	.00067	.00218	.00559	.00139	.00236	.00142	.00245	.00175	.03712
7	Coal mining .....	.00450	.00153	.00209	.00254	.00246	.00313	.00245	.00826	.00825	.02021
8	Crude petroleum and natural gas .....	.08600	.01354	.03659	.05588	.80354	.03661	.03070	.03761	.03913	.03275
9+10	Nonmetallic minerals mining .....	.01199	.00153	.00471	.00897	.00554	.00479	.00313	.01635	.07013	.00598
11	New construction, including own-account construction .....										
12	Maintenance and repair construction, including own-account construction .....	.03586	.01936	.02219	.02314	.06279	.02579	.02777	.02710	.02388	.02831
13	Ordnance and accessories .....	.00011	.00004	.00007	.00008	.00004	.00006	.00005	.00005	.00004	.00009
14	Food and kindred products .....	.01222	.0130	.02202	.01871	.00412	.00610	.18294	.00401	.00345	.00276
15	Tobacco products .....	.00005	.00001	.00002	.00003	(*)	.00002	.00001	.00001	.00001	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00389	.00123	.00283	.00788	.00064	.02533	.06492	.00150	.00556	.00091
17	Miscellaneous textile goods and floor coverings .....	.00124	.00073	.00169	.00115	.00039	.01152	.03204	.00084	.00054	.00044
18	Apparel .....	.00034	.00021	.00029	.00036	.00017	.00084	.00537	.00022	.00027	.00026
19	Miscellaneous fabricated textile products .....	.00031	.00025	.00046	.00024	.00029	.00048	.00189	.00029	.00034	.00027
20+21	Lumber and wood products .....	.00735	.00466	.0070	.00455	.00794	.00872	.00633	.02926	.01299	.00862
22-23	Furniture and fixtures .....	.00022	.00015	.00026	.00017	.00019	.00028	.00048	.00085	.00025	.00031
24	Paper and allied products, except containers .....	.02598	.01801	.03554	.00960	.00584	.02385	.02218	.02526	.01812	.00579
25	Paperboard containers and boxes .....	.00895	.01448	.04217	.00415	.00276	.01548	.01028	.03959	.00525	.00242
26A	Newspapers and periodicals .....	.00496	.02031	.02080	.00615	.00366	.00426	.01121	.00338	.00339	.00370
26B	Other printing and publishing .....	.00831	.03033	.02843	.00998	.00628	.00719	.01731	.00593	.00565	.00769
27A	Industrial and other chemicals .....	.42471	.04043	.14155	.29047	.03481	.15776	.08687	.07859	.04518	.02708
27B	Agricultural fertilizers and chemicals .....	.01542	.00187	.00420	.00848	.00126	.00622	.00563	.00237	.00151	.00103
28	Plastics and synthetic materials .....	1.05973	.00859	.02406	.12921	.00427	.17977	.03165	.01175	.01211	.00472
29A	Drugs .....	.00409	1.13342	.00247	.00266	.00041	.00140	.00174	.00078	.00048	.00029
29B	Cleaning and toilet preparations .....	.0160	.00326	1.06505	.00766	.00494	.00656	.01074	.00409	.00384	.00111
30	Paints and allied products .....	.00397	.00070	.00240	1.0180	.00098	.00295	.00129	.00230	.00291	.00122
31	Petroleum refining and related products .....	.04847	.00925	.02929	.04036	1.11883	.02314	.02268	.02056	.02483	.01764
32	Rubber and miscellaneous plastics products .....	.05965	.03114	.08560	.01687	.01006	1.07653	.05279	.03428	.01755	.01099
33-34	Footwear, leather, and leather products .....	.00010	.00008	.00011	.00006	.00008	.00010	1.35072	.00008	.00007	.00008
35	Glass and glass products .....	.00184	.00445	.00654	.00152	.00373	.00770	.00301	1.11965	.00328	.00110
36	Stone and clay products .....	.00407	.00175	.00257	.01306	.00718	.00438	.00327	.02308	1.12509	.00276
37	Primary iron and steel manufacturing .....	.00921	.00377	.00938	.01383	.02118	.01422	.00815	.00937	.01949	1.21235
38	Primary nonferrous metals manufacturing .....	.00807	.00344	.01099	.01500	.00524	.00750	.00695	.0060	.00746	.03855
39	Metal containers .....	.00305	.00191	.01232	.03136	.00138	.00126	.00438	.00075	.00053	.00045
40	Heating, plumbing, and fabricated structural metal products .....	.00274	.00131	.00193	.00189	.00386	.00263	.00206	.00257	.00293	.00341
41	Screw machine products and stampings .....	.00154	.00210	.00286	.00138	.00131	.00455	.00271	.00306	.00295	.00280
42	Other fabricated metal products .....	.00671	.00301	.00735	.00540	.00789	.01081	.01469	.00437	.01109	.00750
43	Engines and turbines .....	.00059	.00025	.00041	.00047	.00062	.00075	.00041	.00070	.00091	.00187
44+45	Farm, construction, and mining machinery .....	.00125	.00035	.00064	.00092	.00295	.00079	.00073	.00141	.00310	.00310
46	Materials handling machinery and equipment .....	.00045	.00020	.00029	.00036	.00059	.00030	.00027	.00050	.00123	.00111
47	Metalworking machinery and equipment .....	.00188	.00070	.00140	.00132	.00113	.00334	.00131	.00605	.00338	.00184
48	Special industry machinery and equipment .....	.00223	.00070	.00146	.00116	.00040	.0060	.00142	.00222	.00066	.00112
49	General industrial machinery and equipment .....	.00177	.00089	.00109	.00135	.00191	.00171	.00110	.00150	.00272	.02210
50	Miscellaneous machinery, except electrical .....	.00516	.00179	.00356	.00308	.00344	.00908	.00427	.00834	.00463	.01038
51	Computer and office equipment .....	.00191	.00137	.00146	.00136	.00151	.00147	.00165	.00144	.00132	.00192
52	Service industry machinery .....	.00107	.00053	.00093	.00072	.00115	.00083	.00077	.00088	.00079	.00104
53	Electrical industrial equipment and apparatus .....	.00207	.00103	.00196	.00162	.00204	.00212	.00139	.00536	.00213	.01408
54	Household appliances .....	.00024	.00013	.00017	.00016	.00027	.00021	.00017	.00053	.00019	.00028
55	Electric lighting and wiring equipment .....	.00130	.00083	.00133	.00093	.00293	.00149	.00111	.00151	.00127	.00133
56	Audio, video, and communication equipment .....	.00064	.00056	.00058	.00050	.00061	.00051	.00059	.00051	.00049	.00059
57	Electronic components and accessories .....	.00418	.00335	.00360	.00334	.00311	.00372	.00392	.00351	.00302	.00517
58	Miscellaneous electrical machinery and supplies .....	.00073	.00053	.00064	.00064	.00074	.00077	.00084	.00061	.0010	.00093
59A	Motor vehicles (passenger cars and trucks) .....	.00012	.00007	.00010	.00010	.00009	.00012	.00011	.00013	.00016	.00019
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00320	.00180	.00240	.00274	.00267	.00285	.00298	.00329	.00440	.00399
60	Aircraft and parts .....	.00072	.00055	.00066	.00062	.00047	.00067	.00089	.00059	.00057	.00083
61	Other transportation equipment .....	.00048	.00021	.00036	.00057	.00033	.00041	.00030	.00057	.00052	.00066
62	Scientific and controlling instruments .....	.00161	.00125	.00106	.00124	.00082	.00107	.00116	.00126	.00088	.00226
63	Ophthalmic and photographic equipment .....	.00172	.00091	.00124	.00129	.00066	.0102	.00083	.00081	.00064	.00072
64	Miscellaneous manufacturing .....	.00139	.00263	.00280	.00138	.00106	.0172	.00263	.00106	.00169	.00106
65A	Railroads and related services; passenger ground transportation .....	.01372	.00435	.00957	.01962	.0060	.01115	.00734	.01832	.01430	.02048
65B	Motor freight transportation and warehousing .....	.04925	.01554	.03588	.05203	.02007	.05551	.04947	.03919	.09505	.05616
65C	Water transportation .....	.00299	.00063	.00162	.00255	.00393	.00223	.00129	.00229	.00460	.00344
65D	Air transportation .....	.00872	.00769	.00847	.00783	.00587	.00815	.01202	.00757	.00684	.00874
65E	Pipelines, freight forwarders, and related services .....	.00608	.00223	.00417	.00553	.03552	.00476	.00477	.00403	.00635	.00482
66	Communications, except radio and TV .....	.01582	.01555	.01581	.01282	.01248	.01267	.01514	.01215	.01157	.01237
67	Radio and TV broadcasting .....	.00378	.01633	.01679	.00483	.00278	.00321	.00899	.00259	.00255	.00274
68A	Electric services (utilities) .....	.03204	.01241	.01529	.01837	.02385	.02781	.01956	.03346	.02903	.04162
68B	Gas production and distribution (utilities) .....	.03418	.00766	.01291	.01770	.06513	.01691	.01519	.03121	.03117	.03095
68C	Water and sanitary services .....	.00404	.00149	.00202	.00309	.00240	.00215	.00587	.00201	.00191	.00389
69A	Wholesale trade .....	.10524	.10226	.09989	.10067	.06968	.08648	.11219	.09311	.06868	.14161
69B	Retail trade .....	.00389	.00255	.00547	.00264	.00540	.00374	.00358	.00535	.00378	.0030
70A	Finance .....	.03030	.02358	.02666	.02698	.03037	.02683	.02774	.02447	.02280	.02727
70B	Insurance .....	.00777	.00559	.00696	.00698	.00856	.00711	.00992	.00678	.00753	.00737
71A	Owner-occupied dwellings .....										
71B	Real estate and royalties .....	.04716	.03181	.03895	.03548	.20922	.03704	.03968	.03189	.03260	.03111
72A	Hotels and lodging places .....	.00674	.00609	.00640	.00627	.00522	.00614	.00681	.00585	.00520	.00598
72B	Personal and repair services (except auto) .....	.00570	.00266	.00329	.00325	.00375	.00454	.00396	.00495	.00453	.00679
73A	Computer and data processing services, including own-account software .....	.01537	.01016	.01073	.01018	.01331	.01228	.01484	.01261	.01123	.01668
73B	Legal, engineering, accounting, and related services .....	.05664	.04648	.03465	.03407	.03963	.02783	.02044	.01851	.01849	.01987
73C	Other business and professional services, except medical .....	.05006	.06842	.06199	.04347	.04456	.04767	.05056	.04571	.04332	.05434
73D	Advertising .....	.04104	.01782	.01831	.00527	.00304	.00351	.00981	.00284	.00279	.00301
74	Eating and drinking places .....	.00730	.00704	.00694	.00671	.00588	.00689	.00854	.00686	.00581	.00677
75	Automotive repair and services .....	.01245	.00639	.00848	.00905	.00857	.01071	.00978	.01083	.01207	.01404
76	Amusements .....	.00441	.01172	.01211	.00495	.00351	.00373	.00652	.00290	.00279	.00341
77A	Health services .....	.00015	.00015	.00022	.00016	.00009	.				

**Total Requirements, 1997—Continued**

of delivery to final demand, at producers' prices]

Primary non-ferrous metal 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	
.00080	.00104	.00065	.00066	.00069	.00067	.00065	.00065	.00058	.00065	.00064	.00052	.00094	.00070	1
.00182	.00195	.00121	.00121	.00136	.00124	.00131	.00125	.00113	.00130	.00127	.00095	.00172	.00141	2
.00131	.00095	.00060	.00059	.00074	.00058	.00085	.00075	.00073	.00090	.00067	.00042	.00075	.00089	3
.00195	.00191	.00133	.00133	.00143	.00167	.00152	.00140	.00127	.00149	.00153	.00140	.00229	.00143	4
.05453	.02977	.01176	.01179	.00871	.00975	.00648	.00741	.00532	.00628	.00557	.00699	.00278	.00731	5+6
.00432	.00722	.00467	.00621	.00442	.00506	.00383	.00383	.00301	.00295	.00316	.00311	.00217	.00310	7
.02642	.03110	.01828	.01924	.01984	.01644	.01492	.01627	.01354	.01365	.01401	.01253	.01333	.01494	8
.00245	.00325	.00205	.00232	.00209	.00200	.00157	.00161	.00267	.00148	.00145	.00134	.00141	.00190	9+10
.02527	.03005	.01752	.02707	.02032	.02215	.01807	.01804	.01704	.01829	.01678	.01781	.03264	.02064	11
.00011	.00017	.00011	.00011	.00009	.00013	.00010	.00013	.00008	.00009	.00008	.00008	.00013	.00019	13
.00311	.00435	.00268	.00270	.00277	.00266	.00254	.00259	.00259	.00239	.00239	.00201	.00366	.00278	14
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
.00253	.00186	.00108	.00099	.00173	.00137	.00168	.00143	.00086	.00127	.00247	.00096	.00162	.00197	16
.00067	.00061	.00047	.00045	.00070	.00066	.00091	.00089	.00044	.00073	.00550	.00133	.00074	.00093	17
.00029	.00033	.00021	.00022	.00027	.00065	.00026	.00028	.00025	.00033	.00026	.00035	.00035	.00031	18
.00027	.00033	.00024	.00025	.00028	.00029	.00027	.00028	.00019	.00025	.00026	.00018	.00034	.00027	19
.01439	.01030	.00632	.00693	.00698	.00549	.00781	.00786	.00915	.01056	.00632	.00446	.00681	.00904	20+21
.00039	.00050	.00041	.00033	.00045	.00044	.00039	.00049	.00025	.00037	.00028	.00024	.00061	.00049	22+23
.00747	.01023	.00746	.00899	.01187	.00679	.00658	.00711	.00593	.01377	.01091	.00505	.01264	.00449	24
.00420	.00679	.00614	.00723	.00758	.00327	.00313	.00325	.00408	.00333	.00516	.00332	.00812	.00649	25
.00330	.00460	.00368	.00435	.00440	.00332	.00432	.00457	.00364	.00451	.00450	.00390	.00918	.00477	26A
.00637	.01498	.00633	.00739	.00702	.00608	.00702	.00769	.00577	.00725	.00694	.00588	.01355	.00749	26B
.03595	.04875	.02545	.01936	.02902	.01553	.01642	.01478	.00719	.01518	.01358	.01009	.02253	.01225	27A
.00147	.00167	.00094	.00082	.00111	.00076	.00081	.00077	.00072	.00075	.00073	.00053	.00111	.00096	27B
.02565	.01758	.00804	.00739	.01467	.00777	.01057	.00826	.00545	.00778	.00969	.00502	.01059	.01458	28
.00032	.00043	.00026	.00021	.00029	.00017	.00018	.00017	.00018	.00017	.00015	.00011	.00026	.00026	29A
.00143	.00176	.00103	.00103	.00137	.00084	.00085	.00085	.00074	.00081	.00079	.00054	.00131	.00144	29B
.00116	.03148	.00409	.00250	.00527	.00338	.00316	.00331	.00378	.00092	.00108	.00102	.00166	.00419	30
.01832	.02001	.01120	.01198	.01233	.01089	.01077	.01181	.00951	.00979	.00974	.00840	.01006	.01025	31
.02334	.01864	.01927	.01315	.03639	.02668	.04866	.03135	.01679	.02873	.03457	.01216	.03790	.04073	32
.00007	.00009	.00018	.00007	.00008	.00008	.00008	.00008	.00005	.00007	.00006	.00005	.00009	.00008	33+34
.01453	.00646	.00572	.00237	.00271	.00166	.00188	.00152	.00108	.00174	.00134	.00151	.00467	.00226	35
.00778	.01010	.00715	.00924	.00748	.01247	.00644	.00709	.01327	.00713	.00768	.00760	.00442	.01116	36
.03535	.26206	.20537	.28391	.16947	.22671	.15899	.16580	.10752	.10012	.11081	.10646	.02406	.09925	37
1.42724	.57913	.13176	.08804	.09232	.07744	.03740	.06292	.04837	.08418	.05734	.10074	.02406	.11033	38
.00049	1.05748	.00046	.00060	.00060	.00039	.00038	.00041	.00036	.00031	.00028	.00022	.00049	.00045	39
.00336	.00394	1.03801	.00310	.00410	.01847	.04290	.02244	.01097	.02016	.01529	.00673	.01442	.00960	40
.00362	.00519	.01816	1.02255	.03005	.04746	.02298	.04436	.01530	.01680	.01640	.01625	.01981	.03501	41
.01718	.03275	.04076	.03096	1.06288	.05055	.03119	.03934	.01951	.03826	.02181	.02308	.02338	.02885	42
.00096	.00109	.00092	.00099	.00171	1.03938	.05222	.01056	.00136	.00647	.00345	.00204	.00131	.00376	43
.00217	.00208	.00051	.00180	.00146	.00059	.00081	1.01738	.00045	.00069	.00080	.00039	.00043	.00053	44+45
.01346	.01026	.01041	.02646	.00836	.01292	.00960	.01051	1.04596	.01330	.01106	.01963	.00396	.00998	46
.00157	.00130	.00092	.00110	.00092	.00125	.00130	.00167	.00119	1.07209	.00151	.00103	.00160	.00136	48
.01093	.00973	.00796	.00932	.00535	.02373	.03373	.06615	.02883	1.07514	.01733	.02573	.00257	.02370	49
.00879	.01099	.00965	.02623	.01293	.05652	.03660	.03968	.03373	.04575	.03806	1.05567	.00838	.02911	50
.00159	.00206	.00139	.00160	.00144	.00251	.00184	.00192	.00130	.00290	.00131	1.18841	.00192	.00204	51
.00079	.00103	.00134	.00094	.00083	.00119	.00130	.00136	.00073	.00141	.00120	.00071	.00104	1.08121	52
.00682	.00652	.00581	.00581	.00897	.04565	.01345	.03622	.02592	.04252	.03982	.00619	.03225	.05992	53
.00026	.00027	.00025	.00030	.00027	.00044	.00030	.00041	.00030	.00032	.00031	.00021	.00033	.00071	54
.00206	.00202	.00114	.00155	.00121	.00182	.00152	.00148	.00146	.00132	.00132	.00125	.00459	.00829	55
.00055	.00068	.00054	.00052	.00050	.00087	.00069	.00075	.00053	.00068	.00060	.00046	.01326	.0010	56
.00538	.00676	.00425	.00428	.00417	.00812	.00550	.00679	.00436	.00879	.00699	.00631	.46665	.00861	57
.00209	.00271	.00099	.00094	.00092	.01267	.00653	.00607	.00210	.00174	.00128	.00161	.00163	.00121	58
.00014	.00017	.00022	.00027	.00030	.00051	.00036	.00042	.00020	.00020	.00019	.00019	.00025	.00034	59A
.00389	.00480	.00287	.00345	.00280	.00589	.00556	.00374	.00260	.00289	.00275	.00241	.00537	.00337	59B
.00082	.00103	.00078	.00079	.00089	.00323	.00377	.00148	.00073	.00118	.00089	.00077	.00115	.00108	60
.00046	.00053	.00040	.00041	.00032	.00049	.00052	.00046	.00030	.00038	.00034	.00031	.00033	.00039	61
.00097	.00133	.00312	.00123	.00108	.00230	.00195	.00179	.00150	.00166	.00175	.00091	.00592	.01681	62
.00067	.00109	.00071	.00073	.00067	.00073	.00067	.00073	.00062	.00070	.00063	.00071	.00196	.00084	63
.00105	.00125	.00102	.00105	.00103	.00093	.00075	.00631	.00092	.00104	.00098	.00077	.00182	.00520	64
.01371	.01576	.00873	.01017	.00794	.00729	.00635	.00658	.00505	.00552	.00532	.00545	.00549	.00641	65A
.05974	.0680	.03747	.04210	.03459	.04410	.03619	.03394	.02641	.02709	.02493	.02365	.01902	.03104	65B
.00186	.00222	.00126	.00155	.00134	.00124	.00118	.00108	.00087	.00089	.00086	.00085	.00080	.0010	65C
.00941	.01134	.00767	.00815	.00763	.01050	.00868	.00972	.00757	.00882	.00811	.00696	.01435	.00914	65D
.00481	.00565	.00330	.00360	.00319	.00388	.00326	.00335	.00262	.00284	.00266	.00242	.00335	.00311	65E
.01294	.01584	.01178	.01192	.01211	.01168	.01191	.01386	.01158	.01414	.01285	.00984	.02265	.01253	66
.00244	.00329	.00277	.00331	.00339	.00251	.00331	.00352	.00279	.00344	.00352	.00294	.0070	.00366	67
.04094	.03958	.02018	.02552	.02305	.02122	.01757	.01730	.01670	.01671	.01780	.01822	.02011	.01791	68A
.01819	.02307	.01356	.01566	.01540	.01265	.01101	.01127	.00936	.00933	.01014	.00969	.00775	.01032	68B
.00232	.00287	.00168	.00560	.00202	.00201	.00150	.00149	.00116	.00126	.00136	.00118	.00147	.00220	68C
.16243	.19403	.11121	.11559	.10212	.11375	.11566	.15208	.08349	.12398	.10153	.07507	.22109	.12137	69A
.00277	.00358	.00254	.00299	.00268	.00250	.00219	.00232	.00187	.00216	.00205	.00183	.00338	.00279	69B
.02629	.03484	.02251	.02615	.02274	.02507	.02314	.02340	.01934	.02157	.02101	.01930	.03708	.02456	70A
.00742	.00929	.00603	.00687	.00609	.00663	.00621	.00682	.00535	.00573	.00559	.00522	.00881	.00636	70B
.03222	.03898	.02988	.03054	.02859	.02620	.02348	.02811	.02572	.02969	.02354	.02774	.05087	.02496	71A
.00647	.00872	.00572	.0060	.00564	.00640	.00578	.00589	.00508	.00572	.00534	.00501	.00908	.00591	72A
.00474	.00664	.00340	.00513	.00398	.00416	.00350	.00324	.00267	.00296	.00337	.00281	.00421	.00335	72B
.01267	.01652	.01040	.01339	.01163	.01322	.01137	.01019	.00860	.00951	.01002	.00804	.02951	.01172	73A

**Table 8.—Industry-by-Industry**  
[Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the industry named at the head of the column.	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
		53	54	55	56	57	58	59A	59B	60	61
1	Livestock and livestock products .....	.00068	.00106	.00077	.00078	.00085	.00091	.00124	.00088	.00067	.00077
2	Other agricultural products .....	.00136	.00232	.00155	.00151	.00171	.00196	.00324	.00178	.00141	.00216
3	Forestry and fishery products .....	.00073	.00134	.00077	.00073	.00067	.00102	.00134	.0010	.00054	.00232
4	Agricultural, forestry, and fishery services .....	.00179	.00207	.00151	.00182	.00260	.00240	.00196	.00183	.00174	.00199
5+6	Metallic ores mining .....	.00709	.00722	.00581	.00306	.00327	.00588	.00604	.01323	.00367	.00499
7	Coal mining .....	.00294	.00368	.00283	.00187	.00248	.00260	.00334	.00466	.00180	.00300
8	Crude petroleum and natural gas .....	.01847	.02327	.01784	.01140	.01494	.01778	.02004	.01994	.01034	.01465
9+10	Nonmetallic minerals mining .....	.00351	.00470	.00256	.00122	.00192	.00190	.00227	.00233	.00114	.00148
11	New construction, including own-account construction .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Maintenance and repair construction, including own-account construction .....	.01896	.02317	.01892	.02621	.03634	.02307	.02474	.02710	.02032	.01681
13	Ordnance and accessories .....	.00008	.00025	.00007	.00017	.00011	.00014	.00019	.00015	.00378	.00010
14	Food and kindred products .....	.00265	.00409	.00304	.00305	.00324	.00350	.00424	.00343	.00249	.00267
15	Tobacco products .....	( <sup>c</sup> )	.00001	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )
16	Broad and narrow fabrics, yarn and thread mills .....	.00175	.00539	.00299	.00225	.00145	.00348	.01810	.00259	.00414	.00476
17	Miscellaneous textile goods and floor coverings .....	.00078	.00203	.00093	.00105	.00065	.00140	.01014	.00163	.00140	.00320
18	Apparel .....	.00023	.00044	.00027	.00027	.00027	.00033	.00219	.00033	.00049	.00063
19	Miscellaneous fabricated textile products .....	.00023	.00038	.00026	.00028	.00029	.00032	.02442	.00069	.00162	.00566
20+21	Lumber and wood products .....	.00665	.00871	.00664	.00671	.00652	.00627	.01069	.00995	.00460	.03326
22+23	Furniture and fixtures .....	.00029	.00068	.00048	.01005	.00066	.00050	.02653	.00139	.00095	.00275
24	Paper and allied products, except containers .....	.01288	.03028	.01941	.01247	.01049	.01717	.01256	.01199	.00637	.00653
25	Paperboard containers and boxes .....	.00540	.01485	.01631	.00559	.00486	.01586	.00706	.00821	.00258	.00318
26A	Newspapers and periodicals .....	.00541	.01002	.00776	.00585	.00701	.00571	.00679	.00890	.00344	.00399
26B	Other printing and publishing .....	.00797	.01390	.01054	.00901	.01010	.00867	.01082	.01270	.00577	.00638
27A	Industrial and other chemicals .....	.01953	.05233	.03170	.02120	.03839	.04245	.03863	.03114	.01432	.01763
27B	Agricultural fertilizers and chemicals .....	.00091	.00212	.00137	.00098	.00142	.00172	.00169	.00130	.00075	.00100
28	Plastics and synthetic materials .....	.01261	.04836	.03208	.01272	.01165	.03149	.02719	.01886	.01137	.01353
29A	Drugs .....	.00022	.00062	.00032	.00025	.00040	.00042	.00041	.00031	.00039	.00020
29B	Cleaning and toilet preparations .....	.00166	.00335	.00274	.00138	.00147	.00192	.00195	.00144	.00082	.00095
30	Paints and allied products .....	.00277	.00938	.00169	.00140	.00106	.00113	.01245	.00633	.00218	.00537
31	Petroleum refining and related products .....	.01462	.01629	.01216	.00832	.01038	.01225	.01468	.01373	.00799	.01089
32	Rubber and miscellaneous plastics products .....	.03865	.11347	.04395	.03828	.02917	.08822	.09344	.04522	.03017	.03673
33+34	Footwear, leather, and leather products .....	.00007	.00013	.00007	.00009	.00009	.00010	.00092	.00012	.00015	.00024
35	Glass and glass products .....	.00204	.00545	.02851	.00400	.01009	.00313	.01523	.00414	.00218	.00799
36	Stone and clay products .....	.03666	.01273	.01441	.00332	.00442	.00477	.00779	.00996	.00602	.00603
37	Primary iron and steel manufacturing .....	.07927	.10979	.06480	.02577	.02814	.04571	.08483	.15317	.03001	.10173
38	Primary nonferrous metals manufacturing .....	.09236	.09076	.09423	.04384	.05391	.09308	.06251	.15150	.06008	.04481
39	Metal containers .....	.00039	.00086	.00046	.00038	.00046	.00053	.00087	.00061	.00030	.00044
40	Heating, plumbing, and fabricated structural metal products .....	.00841	.00377	.00243	.01150	.00797	.00786	.00879	.01999	.00520	.02027
41	Screw machine products and stampings .....	.02671	.04133	.03411	.02011	.01719	.01824	.10439	.05635	.01633	.01957
42	Other fabricated metal products .....	.01435	.02889	.02582	.02395	.04477	.03144	.03703	.02984	.02796	.02839
43	Engines and turbines .....	.01299	.0020	.00130	.00058	.00060	.00103	.01599	.00489	.00083	.04650
44+45	Farm, construction, and mining machinery .....	.00122	.00150	.00117	.00074	.00087	.00096	.00246	.00218	.00084	.00253
46	Materials handling machinery and equipment .....	.00046	.00052	.00037	.00030	.00031	.00040	.00059	.00068	.00026	.00048
47	Metalworking machinery and equipment .....	.00606	.00675	.00641	.00374	.00485	.00573	.00773	.00968	.01192	.00545
48	Special industry machinery and equipment .....	.00091	.00161	.00098	.00132	.00246	.00142	.00170	.00152	.00085	.00104
49	General industrial machinery and equipment .....	.00858	.00889	.00309	.00217	.00217	.00684	.01091	.02519	.00568	.02984
50	Miscellaneous machinery, except electrical .....	.01239	.00906	.00882	.00761	.01081	.01056	.02686	.05254	.01953	.01619
51	Computer and office equipment .....	.00366	.00350	.00212	.02927	.02698	.01811	.00641	.00604	.00616	.00203
52	Service industry machinery .....	.00080	.02605	.00080	.00092	.00099	.00086	.02062	.00552	.00067	.00444
53	Electrical industrial equipment and apparatus .....	1.07629	.05080	.03196	.00702	.00539	.01953	.00653	.00612	.00471	.03549
54	Household appliances .....	.00039	1.00112	.00040	.00027	.00029	.00028	.00078	.00047	.00025	.00335
55	Electric lighting and wiring equipment .....	.00345	.01572	1.03251	.00940	.00402	.00479	.00803	.00290	.00145	.00448
56	Audio, video, and communication equipment .....	.00105	.00183	.00079	1.05994	.00668	.00517	.00875	.00165	.01736	.00420
57	Electronic components and accessories .....	.03342	.02493	.01429	.35720	1.26799	1.30311	.05798	.05461	.04135	.00996
58	Miscellaneous electrical machinery and supplies .....	.00141	.00148	.00114	.00511	.00112	1.03188	.01868	.01905	.00185	.0050
59A	Motor vehicles (passenger cars and trucks) .....	.00029	.00039	.00032	.00023	.00021	.00024	1.01012	.01095	.00019	.02911
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00035	.00329	.00261	.00475	.00399	.00509	3.1055	1.10961	.00281	.03905
60	Aircraft and parts .....	.00136	.00125	.00072	.00095	.00093	.00091	.00245	.00141	1.21783	.00348
61	Other transportation equipment .....	.00038	.00042	.00031	.00026	.00029	.00035	.00062	.00054	.00023	1.03513
62	Scientific and controlling instruments .....	.00396	.04114	.01044	.01084	.00791	.00758	.01123	.00265	.09039	.00696
63	Ophthalmic and photographic equipment .....	.00076	.00121	.00078	.00103	.00106	.00127	.00126	.00111	.00124	.00065
64	Miscellaneous manufacturing .....	.00115	.00532	.00385	.00123	.00134	.00136	.00212	.00169	.00124	.00120
65A	Railroads and related services; passenger ground transportation .....	.00698	.00867	.00646	.00493	.0060	.00672	.00952	.00980	.00408	.00647
65B	Motor freight transportation and warehousing .....	.02823	.04367	.03218	.01807	.01955	.03337	.04703	.04378	.01775	.03253
65C	Water transportation .....	.00118	.00151	.00101	.00070	.00087	.00106	.00139	.00145	.00066	.00098
65D	Air transportation .....	.00852	.01084	.00804	.01068	.00979	.00949	.01510	.01214	.01278	.00865
65E	Pipelines, freight forwarders, and related services .....	.00306	.00416	.00309	.00270	.00275	.00334	.00488	.00425	.00284	.00310
66	Communications, except radio and TV .....	.01357	.01579	.01285	.01751	.01618	.01378	.01530	.01422	.01035	.01076
67	Radio and TV broadcasting .....	.00417	.00797	.00609	.00445	.00541	.00426	.00519	.00699	.00256	.00306
68A	Electric services (utilities) .....	.01859	.02184	.01915	.01649	.02293	.02124	.02039	.02515	.01344	.01536
68B	Gas production and distribution (utilities) .....	.0110	.01374	.01173	.00677	.00876	.01058	.01168	.01349	.00599	.00933
68C	Water and sanitary services .....	.00139	.00178	.00157	.00117	.00145	.00218	.00237	.00285	.00133	.00154
69A	Wholesale trade .....	.11564	.13779	.11596	.13109	.11771	.13990	.16283	.14290	.07260	.10265
69B	Retail trade .....	.00271	.00452	.00399	.00292	.00311	.00332	.00353	.00317	.00190	.00213
70A	Finance .....	.02405	.02779	.02271	.02941	.02925	.02683	.05104	.03111	.02408	.02219
70B	Insurance .....	.00588	.00747	.00614	.00704	.00711	.00687	.00905	.00792	.00546	.00637
71A	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71B	Real estate and royalties .....	.02761	.03045	.03170	.03556	.03678	.03161	.03591	.03093	.02134	.03247
72A	Hotels and lodging places .....	.00564	.00695	.00584	.00712	.00686	.00641	.00817	.00726	.00572	.00555
72B	Personal and repair services (except auto) .....	.00337	.00373	.00303	.00360	.00501	.00420	.00523	.00536	.00353	.00278
73A	Computer and data processing services, including own-account software .....	.00986	.01119	.01084	.01669	.01712	.01196	.01330	.01416	.01620	.00986
73B	Legal, engineering, accounting, and related services .....	.01677	.02122	.01910	.02952	.03539	.02040	.02925	.02456	.02162	.01799
73C	Other business and professional services, except medical .....	.04551	.05243	.04507	.05609	.06409	.05822	.05780	.05727	.04458	.04000
73D	Advertising .....	.00456	.00870	.00665	.00486	.00592	.00466	.00568	.00763	.00281	.00335
74	Eating and drinking places .....	.00669	.00817	.00709	.00788	.00753	.00788	.00910	.00822	.00645	.00661
75	Automotive repair and services .....	.00774	.00956	.00804	.00817	.00988	.00959	.06321	.01208	.00735	.00859
76	Amusements .....	.00381	.00632	.00480	.00497	.00546	.00411	.00576	.00654	.00342	.00306



Total Requirements, 1997—Continued

of delivery to final demand, 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 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 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	
.00076	.00074	.00158	.00051	.00056	.00124	.00173	.00056	.00064	.00471	.00042	.00060	.00065	.00082	1
.00163	.00143	.00450	.00107	.00093	.00175	.00194	.00112	.00117	.00621	.00103	.00171	.00190	.00144	2
.00062	.00066	.00230	.00064	.00043	.00054	.00044	.00084	.00051	.00041	.00065	.00109	.00184	.00066	3
.00161	.00126	.00184	.00104	.00090	.00113	.00098	.00104	.00125	.00280	.00109	.00247	.00164	.00153	4
.00249	.00128	.00426	.00098	.00049	.00081	.00050	.00032	.00045	.00027	.00049	.00104	.00149	.00033	5+6
.00196	.00202	.00202	.0010	.00123	.00156	.00088	.00132	.00083	.00142	.07569	.00183	.00173	.00111	7
.00994	.01415	.01752	.04814	.04454	.02199	.07682	.01485	.00609	.00747	.03514	.78218	.05180	.01059	8
.00117	.00173	.00195	.00143	.00077	.00068	.00086	.00060	.00088	.00063	.00138	.00250	.00269	.00054	9+10
.01867	.01728	.01640	.06697	.02025	.01652	.01634	.02833	.05370	.02499	.08384	.15520	.10762	.01482	12
.00017	.00007	.00005	.00004	.00005	.00008	.00113	.00018	.00006	.00015	.00003	.00004	.00013	.00005	13
.00275	.00302	.00549	.00206	.00231	.00537	.00817	.00209	.00206	.00713	.00163	.00210	.00246	.00330	14
(*)	.00001	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
.00616	.00201	.01740	.00082	.00087	.00274	.00069	.00142	.00076	.00111	.00077	.00058	.00107	.00122	16
.00485	.00093	.00182	.00048	.00048	.00070	.00028	.00044	.00035	.00038	.00032	.00050	.00074	.00043	17
.00051	.00020	.00456	.00059	.00020	.00259	.00022	.00028	.00076	.00059	.00012	.00012	.00021	.00099	18
.00028	.00019	.0010	.00036	.00038	.00326	.00047	.00214	.00025	.00038	.00019	.00029	.00031	.00054	19
.00568	.00631	.02554	.00845	.00398	.00487	.00339	.01211	.00658	.00418	.00926	.01626	.02733	.00888	20+21
.00087	.00021	.00149	.00026	.00026	.00024	.00015	.00021	.00043	.00016	.00014	.00022	.00040	.00021	22+23
.01192	.04136	.02168	.00472	.00491	.00729	.00480	.00824	.00634	.00747	.00283	.00389	.00538	.01329	24
.00692	.01225	.01847	.00148	.00224	.00170	.00141	.00358	.00167	.00164	.00089	.00124	.00220	.01777	25
.00624	.00594	.01098	.00318	.00339	.01526	.00594	.00945	.00723	.01328	.00142	.00214	.00255	.00929	26A
.00900	.00828	.01510	.00847	.00754	.01898	.00982	.01879	.01303	.01701	.00327	.00431	.00478	.02092	26B
.01811	.04379	.04028	.00978	.00885	.00815	.00799	.00507	.00517	.00616	.00741	.01297	.03541	.00610	27A
.00087	.00148	.00187	.00049	.00046	.00055	.00048	.00038	.00041	.00170	.00041	.00077	.00128	.00112	27B
.01365	.02059	.03427	.00328	.00440	.00387	.00202	.00249	.00246	.00186	.00201	.00267	.00652	.00267	28
.00027	.00048	.00042	.00011	.00011	.00012	.00013	.00008	.00010	.00018	.00009	.00015	.00041	.00020	29A
.00120	.00208	.00263	.00071	.00071	.00073	.00081	.00046	.00062	.00067	.00044	.00075	.00126	.00136	29B
.00133	.00075	.00644	.00098	.00128	.00239	.00047	.00047	.00107	.00071	.00085	.00152	.00171	.00042	30
.00735	.00965	.0130	.05913	.05340	.02424	.09596	.00965	.00548	.00645	.01815	.01713	.03861	.00948	31
.03249	.03302	.04412	.01168	.01992	.01062	.00558	.00848	.00805	.00471	.00638	.00692	.01858	.00880	32
.00008	.00006	.00134	.00007	.00008	.00020	.00008	.00017	.00012	.00042	.00005	.00008	.00009	.00010	33+34
.00652	.00681	.00224	.00241	.00105	.00121	.00083	.00097	.00093	.00057	.00059	.00075	.00209	.00088	35
.00445	.00246	.00601	.00378	.00172	.00191	.00175	.00172	.00252	.00140	.00418	.00843	.01099	.00132	36
.02827	.01032	.03628	.01876	.00615	.01280	.00554	.00413	.00536	.00276	.00646	.00231	.01539	.00367	37
.03507	.01347	.06691	.00741	.00446	.00876	.00554	.00346	.00573	.00286	.00464	.00608	.01348	.00385	38
.00047	.00044	.00069	.00024	.00024	.00030	.00035	.00013	.00015	.00024	.00015	.00022	.00040	.00107	39
.01058	.00205	.00490	.00427	.00154	.00256	.00130	.00184	.00319	.00148	.00461	.00797	.00668	.00131	40
.01967	.01162	.00620	.00273	.00214	.00279	.00214	.00124	.00343	.00106	.00184	.00147	.00489	.00115	41
.02490	.00681	.01924	.00997	.00684	.01438	.00466	.00510	.00522	.00246	.00348	.00816	.01027	.00323	42
.00077	.00042	.00061	.00446	.00113	.01476	.00039	.00099	.00135	.00030	.00185	.00055	.00077	.00034	43
.00071	.00050	.00070	.00081	.00043	.00047	.00047	.00032	.00033	.00031	.00468	.00293	.00090	.00033	44+45
.00024	.00020	.00030	.00021	.00018	.00024	.00013	.00012	.00011	.00010	.00075	.00052	.00023	.00109	46
.00375	.00272	.00440	.00248	.00094	.00609	.00137	.00060	.00073	.00052	.00122	.00127	.00147	.00092	47
.00093	.00081	.00096	.00042	.00039	.00072	.00029	.00040	.00038	.00033	.00024	.00032	.00050	.00058	48
.00258	.00118	.00247	.00893	.00144	.01607	.00123	.00416	.00308	.00057	.00233	.00196	.00252	.00077	49
.00805	.00651	.01016	.00461	.00776	.00344	.00267	.00154	.00124	.00281	.00270	.00534	.00248	.00248	50
.02251	.00401	.00198	.00224	.00158	.00231	.00357	.00881	.00694	.00336	.00147	.00227	.00210	.00349	51
.00070	.00054	.00069	.00158	.00101	.00074	.00043	.00076	.00099	.00101	.00127	.00232	.00301	.00077	52
.01544	.00595	.00597	.00796	.00295	.00402	.00139	.00238	.00382	.00207	.00280	.00246	.00247	.00120	53
.00025	.00019	.00020	.00034	.00013	.00037	.00018	.00018	.00032	.00018	.00029	.00050	.00047	.00013	54
.00412	.00105	.00132	.00196	.00122	.00106	.00073	.00079	.00199	.00116	.00222	.00415	.00338	.00089	55
.01247	.00100	.00073	.00082	.00084	.00068	.00176	.00172	.02714	.00210	.00052	.00084	.00183	.00123	56
.12866	.03572	.00961	.00509	.00399	.00414	.00875	.01092	.03910	.01050	.00246	.00303	.00928	.01539	57
.00136	.00081	.00104	.00228	.00192	.00201	.00102	.00282	.00181	.00268	.00106	.00102	.00317	.00106	58
.00020	.00014	.00012	.00098	.00042	.00083	.00006	.00010	.00009	.00009	.00009	.00008	.00151	.00013	59A
.00262	.00201	.00237	.01205	.01382	.00326	.00172	.00312	.00258	.00270	.00173	.00238	.05853	.00416	59B
.00088	.00054	.00062	.00080	.00104	.00136	.06883	.00071	.00056	.00048	.00044	.00068	.00074	.00058	60
.00023	.00024	.00055	.00271	.00043	.00235	.00017	.00029	.00017	.00022	.00081	.00027	.00031	.00019	61
1.03023	.00773	.00101	.00091	.00087	.00109	.00605	.00070	.00171	.00088	.00119	.00095	.02483	.00067	62
.00099	1.02896	.00091	.00060	.00088	.00111	.00071	.00148	.00099	.00148	.00033	.00060	.00097	.00143	63
.00119	.00105	1.05652	.00107	.0010	.00390	.00128	.00214	.00181	.00289	.00083	.00119	.00124	.00206	64
.00410	.00573	.00599	1.04363	.00424	.00272	.00296	.00260	.00249	.00274	.02861	.00385	.00438	.00267	65A
.01670	.01855	.02896	.01820	1.23219	.01283	.01011	.01345	.00816	.00946	.01213	.01279	.03714	.01128	65B
.00065	.00089	.00109	.00097	.00667	1.24674	.00129	.00213	.00052	.00051	.00382	.00142	.00121	.00062	65C
.00781	.00636	.00705	.00697	.01419	.00608	.10633	.00922	.00655	.00654	.00464	.00926	.00641	.00816	65D
.00218	.00223	.00287	.01210	.04426	.06684	.10030	1.02618	.00155	.00165	.00274	.00867	.00410	.00253	65E
.01412	.0130	.0130	.01543	.02475	.01410	.02307	.04414	1.16919	.03420	.00669	.01007	.03265	.03122	66
.00484	.00455	.00866	.00219	.00223	.01098	.00449	.00682	.00596	1.04086	.00097	.00156	.00177	.00680	67
.01397	.01139	.01480	.00688	.01198	.01088	.00847	.01418	.00773	.01566	1.00495	.01561	.01282	.01091	68A
.00579	.00782	.00935	.00602	.00686	.00505	.00770	.00310	.00286	.00368	1.31588	.03612	.03584	.00526	68B
.01012	.00110	.00122	.00141	.00599	.00110	.00110	.00086	.00096	.00149	.00085	.00125	1.02317	.00113	68C
.08265	.07862	.11690	.05034	.04932	.03599	.03424	.02475	.03047	.02366	.02193	.03489	.05674	1.04332	69A
.00225	.00241	.00317	.00751	.00704	.00206	.00185	.00268	.00337	.00248	.00471	.00950	.01288	.00382	69B
.02234	.02086	.02092	.02882	.04122	.05121	.03142	.03448	.02545	.02711	.02701	.03068	.02275	.02425	70A
.00552	.00517	.00617	.00975	.01787	.00707	.00778	.01256	.00591	.01378	.00579	.00875	.02113	.00629	70B
.02753	.02152	.03117	.03713	.05277	.05930	.04883	.05075	.03783	.07902	.02860	.19422	.03154	.04937	71A
.00543	.00489	.00505	.00431	.00625	.00435	.00495	.0050	.00523	.00541	.00364	.00541	.00456	.00549	71B
.00260	.00217	.00280	.00227	.00269	.00295	.004								

**Table 8.—Industry-by-Industry**  
[Total requirements, direct and indirect, per dollar]

Industry number	Each entry represents the output required, directly and indirectly, of the industry named at the beginning of the row for each dollar of delivery to final demand of the industry named at the head of the column.	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
		69B	70A	70B	71A	71B	72A	72B	73A	73B
	Industry number	69B	70A	70B	71A	71B	72A	72B	73A	73B
1	Livestock and livestock products .....	.00068	.00045	.00060	.00051	.00063	.00156	.00076	.00054	.00043
2	Other agricultural products .....	.00118	.00069	.00090	.00187	.00191	.00289	.00150	.00095	.00072
3	Forestry and fishery products .....	.00037	.00022	.00028	.00033	.00051	.00061	.00043	.00033	.00022
4	Agricultural, forestry, and fishery services .....	.00232	.00095	.00122	.00893	.00718	.00639	.00159	.00168	.00131
5+6	Metallic ores mining .....	.00025	.00014	.00020	.00012	.00021	.00030	.00056	.00044	.00015
7	Coal mining .....	.00195	.00095	.00067	.00017	.00099	.00339	.00148	.00083	.00072
8	Crude petroleum and natural gas .....	.01001	.00530	.00468	.00204	.00611	.01480	.01196	.00538	.00426
9+10	Nonmetallic minerals mining .....	.00055	.00029	.00033	.00070	.00101	.00108	.00073	.00048	.00030
11	New construction, including own-account construction .....									
12	Maintenance and repair construction, including own-account construction .....	.02327	.01142	.01298	.04873	.06737	.04562	.01858	.01596	.01011
13	Ordnance and accessories .....	.00003	.00003	.00004	.00001	.00002	.00005	.00004	.00005	.00005
14	Food and kindred products .....	.00247	.00176	.00243	.00044	.00130	.00576	.00280	.00204	.00161
15	Tobacco products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
16	Broad and narrow fabrics, yarn and thread mills .....	.00073	.00044	.00045	.00017	.00034	.00440	.00565	.00051	.00031
17	Miscellaneous textile goods and floor coverings .....	.00038	.00018	.00021	.00017	.00027	.00106	.00103	.00029	.00017
18	Apparel .....	.00019	.00011	.00013	.00003	.00008	.00136	.00493	.00014	.00010
19	Miscellaneous fabricated textile products .....	.00023	.00043	.00034	.00009	.00019	.00760	.00309	.00017	.00014
20+21	Lumber and wood products .....	.00432	.00243	.00281	.00497	.00732	.00658	.00468	.00364	.00250
22+23	Furniture and fixtures .....	.00016	.00033	.00023	.00006	.00013	.00022	.00026	.00021	.00016
24	Paper and allied products, except containers .....	.01450	.00724	.00710	.00101	.00350	.01026	.01198	.01340	.00678
25	Paperboard containers and boxes .....	.00257	.00106	.00116	.00031	.00074	.00336	.00265	.00177	.00118
26A	Newspapers and periodicals .....	.01484	.00717	.00598	.00059	.00298	.00776	.00879	.00499	.00308
26B	Other printing and publishing .....	.01811	.01579	.01576	.00128	.00532	.01226	.02013	.01502	.01148
27A	Industrial and other chemicals .....	.00471	.00279	.00332	.00151	.00299	.00701	.01043	.00588	.00300
27B	Agricultural fertilizers and chemicals .....	.00051	.00024	.00031	.00155	.00104	.00296	.00060	.00044	.00028
28	Plastics and synthetic materials .....	.00221	.00105	.00147	.00062	.00122	.00337	.00497	.00253	.00116
29A	Drugs .....	.00008	.00005	.00006	.00005	.00006	.00018	.00029	.00009	.00006
29B	Cleaning and toilet preparations .....	.00073	.00037	.00039	.00018	.00042	.00191	.00947	.00053	.00049
30	Paints and allied products .....	.00044	.00022	.00049	.00044	.00070	.00062	.00069	.00037	.00023
31	Petroleum refining and related products .....	.00905	.00449	.00432	.00192	.00473	.00897	.00864	.00461	.00372
32	Rubber and miscellaneous plastics products .....	.00722	.00279	.00486	.00189	.00386	.00905	.01169	.00786	.00354
33+34	Footwear, leather, and leather products .....	.00048	.00013	.00002	.00006	.00040	.00408	.00009	.00009	.00024
35	Glass and glass products .....	.00048	.00040	.00062	.00017	.00039	.00537	.00084	.0010	.00127
36	Stone and clay products .....	.00136	.00073	.00083	.00188	.00343	.00316	.00165	.00124	.00088
37	Primary iron and steel manufacturing .....	.00298	.00160	.00229	.00166	.00282	.00346	.00605	.00414	.00167
38	Primary nonferrous metals manufacturing .....	.00250	.00151	.00215	.00134	.00233	.00284	.00687	.00642	.00160
39	Metal containers .....	.00013	.00008	.00011	.00005	.00009	.00024	.00028	.00014	.00009
40	Heating, plumbing, and fabricated structural metal products .....	.00142	.00072	.00086	.00245	.00331	.00241	.00160	.00191	.00069
41	Screw machine products and stampings .....	.00092	.00057	.00097	.00029	.00066	.00103	.00291	.00240	.00062
42	Other fabricated metal products .....	.00285	.00171	.00267	.00121	.00230	.00295	.00571	.00457	.00187
43	Engines and turbines .....	.00063	.00024	.00036	.00009	.00021	.00037	.00037	.00032	.00021
44+45	Farm, construction, and mining machinery .....	.00030	.00016	.00017	.00052	.00031	.00049	.00033	.00022	.00016
46	Materials handling machinery and equipment .....	.00012	.00007	.00008	.00004	.00008	.00015	.00012	.00011	.00009
47	Metalworking machinery and equipment .....	.00053	.00031	.00039	.00016	.00034	.00064	.00094	.00076	.00046
48	Special industry machinery and equipment .....	.00039	.00025	.00030	.00007	.00019	.00044	.00084	.00048	.00034
49	General industrial machinery and equipment .....	.00063	.00042	.00050	.00026	.00050	.00077	.00126	.00063	.00041
50	Miscellaneous machinery, except electrical .....	.00146	.00070	.00087	.00026	.00064	.00136	.00259	.00173	.00101
51	Computer and office equipment .....	.00176	.00367	.00347	.00029	.00076	.00195	.00941	.06993	.00481
52	Service industry machinery .....	.00079	.00032	.00048	.00068	.00105	.00103	.00463	.00044	.00033
53	Electrical industrial equipment and apparatus .....	.00093	.00074	.00089	.00043	.00085	.00152	.00265	.00392	.00089
54	Household appliances .....	.00017	.00008	.00009	.00015	.00031	.00059	.01251	.00013	.00008
55	Electric lighting and wiring equipment .....	.00105	.00044	.00059	.00077	.00122	.00125	.00111	.00091	.00042
56	Audio, video, and communication equipment .....	.00074	.00081	.00102	.00023	.00055	.00092	.00116	.00234	.00079
57	Electronic components and accessories .....	.00331	.00452	.00433	.00055	.00151	.00341	.01784	.07601	.00492
58	Miscellaneous electrical machinery and supplies .....	.00099	.00087	.00147	.00020	.00046	.00082	.00111	.00338	.00179
59A	Motor vehicles (passenger cars and trucks) .....	.00015	.00006	.00014	.00002	.00007	.00010	.00010	.00008	.00006
59B	Truck and bus bodies, trailers, and motor vehicles parts .....	.00543	.00196	.00417	.00048	.00198	.00305	.00288	.00244	.00171
60	Aircraft and parts .....	.00043	.00040	.00057	.00007	.00028	.00058	.00045	.00051	.00042
61	Other transportation equipment .....	.00018	.00017	.00022	.00006	.00014	.00030	.00025	.00017	.00019
62	Scientific and controlling instruments .....	.00057	.00036	.00087	.00022	.00053	.00089	.00214	.00172	.00054
63	Ophthalmic and photographic equipment .....	.00085	.00133	.00202	.00015	.00051	.00108	.00876	.00166	.00223
64	Miscellaneous manufacturing .....	.00248	.00202	.00170	.00033	.00096	.00242	.01678	.00168	.00161
65A	Railroads and related services; passenger ground transportation .....	.00264	.00212	.00287	.00051	.00182	.00366	.00277	.00238	.00177
65B	Motor freight transportation and warehousing .....	.00992	.01518	.01085	.00282	.00744	.01716	.01511	.00774	.00718
65C	Water transportation .....	.00059	.00110	.00061	.00013	.00037	.00083	.00064	.00046	.00049
65D	Air transportation .....	.00563	.00578	.00814	.00088	.00380	.00817	.00578	.00693	.00598
65E	Pipelines, freight forwarders, and related services .....	.00164	.00168	.00187	.00032	.00107	.01671	.00187	.00153	.00134
66	Communications, except radio and TV .....	.02008	.02538	.03535	.00263	.01201	.02385	.03297	.03297	.02134
67	Radio and TV broadcasting .....	.01187	.00489	.00431	.00042	.00229	.00535	.00648	.00341	.00163
68A	Electric services (utilities) .....	.02205	.00612	.00499	.00121	.01036	.03901	.01473	.00749	.00649
68B	Gas production and distribution (utilities) .....	.00499	.00301	.00210	.00068	.00390	.01246	.00835	.00268	.00218
68C	Water and sanitary services .....	.00168	.00125	.00079	.00020	.00254	.00528	.00234	.00072	.00060
69A	Wholesale trade .....	.01609	.01241	.01386	.00544	.01071	.02181	.03978	.04606	.03130
69B	Retail trade .....	1.00515	.00121	.00172	.00268	.00383	.00454	.00243	.00156	.00117
70A	Finance .....	.03388	1.24222	.13809	.03176	.01865	.08395	.02179	.02251	.02417
70B	Insurance .....	.00742	.00696	1.36854	.03273	.01461	.00662	.00634	.00446	.00407
71A	Owner-occupied dwellings .....				1.00000					
71B	Real estate and royalties .....	.08740	.04816	.06192	.03780	1.08051	.08223	.07426	.09071	.06798
72A	Hotels and lodging places .....	.00486	.00415	.00717	.00065	.00338	1.00662	.00436	.00470	.00546
72B	Personal and repair services (except auto) .....	.00453	.00189	.00238	.00035	.00286	.00882	1.04572	.00337	.00189
73A	Computer and data processing services, including own-account software .....	.01279	.03429	.01798	.00193	.00418	.01522	.01159	1.1019	.02936
73B	Legal, engineering, accounting, and related services .....	.01974	.04227	.05513	.01037	.02616	.02651	.05025	1.09133	1.09133
73C	Other business and professional services, except medical .....	.06896	.06742	.08389	.01245	.04374	.12482	.05807	.06552	.12007
73D	Advertising .....	.01296	.00534	.00471	.00047	.00251	.00589	.00707	.00373	.00183
74	Eating and drinking places .....	.00599	.00431	.00747	.00064	.00345	.00853	.00499	.00528	.00439
75	Automotive repair and services .....	.00775	.00473	.02272	.00152	.00902	.00889	.00759	.00792	.00596
76	Amusements .....	.00885	.00473	.00541	.00055	.00261	.00547	.00541	.00418	.00268
77A	Health services .....	.00011	.00010	.00013	.00003	.00007	.00021	.00010	.00010	.00017
77B	Educational and social services, and membership organizations .....	.00239	.00307	.00318	.00033	.00156	.00383	.00485	.01063	.00519
78	Federal Government enterprises .....	.00978	.03539	.01667	.00173	.00505	.01111	.00891	.00899	.01201
79	State and local government enterprises .....	.00792	.00446	.00394	.00125	.00783	.01713	.00825	.00440	.00364
82	General government industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
T	<b>Total industry output multiplier .....</b>	<b>1.55873</b>	<b>1.68641</b>	<b>1.99581</b>	<b>1.24827</b>	<b>1.43832</b>	<b>1.79206</b>	<b>1.71082</b>	<b>1.76243</b>	<b>1.53408</b>

**Total Requirements, 1997—Continued**

of delivery to final demand, 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 secondhand goods	General government industry	Household industry	Industry number
73C	73D	74	75	76	77A	77B	78	79	81	82	84	85
.00075	.00060	.05337	.00068	.00433	.00297	.00461	.00232	.00072				1
.00090	.00089	.05356	.00131	.00624	.00380	.00517	.00286	.00249				2
.00027	.00023	.00905	.00059	.00050	.00058	.00085	.00075	.00139				3
.00097	.00091	.01019	.00170	.00394	.00345	.00374	.00111	.00548				4
.00031	.00017	.00049	.00235	.00030	.00050	.00037	.00062	.00099				5+6
.00067	.00065	.00231	.00196	.00177	.00162	.00143	.01183	.01306				7
.00771	.00394	.01497	.02009	.00890	.01129	.01190	.02682	.06832				8
.00046	.00031	.00125	.00107	.00070	.00111	.00108	.00090	.00439				9+10
												11
.00982	.00757	.02416	.01984	.02267	.01943	.05255	.03886	.20027				12
.00031	.00004	.00004	.00007	.00028	.00010	.00005	.00005	.00004				13
.00236	.00172	.26083	.00256	.01163	.01322	.01979	.01121	.00198				14
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)				15
.00053	.00063	.00156	.00214	.00192	.00192	.00129	.00254	.00111				16
.00025	.00027	.00087	.00115	.00039	.00065	.00054	.00077	.00078				17
.00038	.00016	.00029	.00065	.00111	.00158	.00050	.00039	.00054				18
.00018	.00055	.00099	.00131	.00060	.00149	.00055	.00289	.00037				19
.00263	.00261	.00542	.00490	.00462	.00397	.00992	.00617	.02090				20+21
.00015	.00014	.00018	.00244	.00016	.00024	.00026	.00778	.00029				22+23
.0090	.01445	.01622	.00841	.00835	.01014	.01829	.00888	.00499				24
.00266	.00138	.00945	.00358	.00211	.00336	.00341	.00396	.00157				25
.00395	.00532	.00880	.00744	.01241	.00430	.01389	.00249	.00260				26A
.01108	.06658	.01382	.01054	.01669	.01065	.05203	.01943	.00614				26B
.00774	.00456	.01090	.0150	.00792	.02473	.00844	.00784	.02703				27A
.00040	.00034	.00537	.00076	.00278	.00132	.00120	.00057	.00307				27B
.00209	.00162	.00485	.00901	.00234	.00557	.00322	.00263	.00444				28
.00012	.00007	.00129	.00018	.00027	.02515	.00071	.00015	.00035				29A
.00176	.00042	.00145	.00141	.00091	.00242	.00155	.00155	.00170				29B
.00050	.00024	.00066	.00382	.00107	.00052	.00123	.00071	.00204				30
.00740	.00337	.01097	.0190	.00724	.00809	.01018	.02786	.04242				31
.00640	.00437	.01850	.03483	.00553	.01759	.00951	.00610	.01050				32
.00023	.00011	.00015	.00017	.00081	.00019	.00063	.00139	.00007				33+34
.00137	.00041	.00466	.00766	.00059	.00325	.00205	.00075	.00174				35
.00114	.00057	.00329	.00325	.00135	.00219	.00262	.00224	.01473				36
.00355	.00172	.00490	.03045	.00292	.00348	.00429	.00739	.01147				37
.00288	.00161	.00559	.02527	.00299	.00322	.00372	.00682	.00859				38
.00024	.00011	.00537	.00036	.00037	.00052	.00055	.00037	.00035				39
.00086	.00056	.00157	.00410	.00139	.00141	.00280	.00252	.00997				40
.00132	.00068	.00151	.02056	.00110	.00185	.00142	.00265	.00225				41
.00258	.00164	.00362	.02049	.00270	.00318	.00403	.00366	.00662				42
.00071	.00024	.00035	.00830	.00027	.00030	.00036	.00232	.00157				43
.00042	.00017	.00062	.00097	.00036	.00033	.00040	.00105	.00350				44+45
.00051	.00009	.00018	.00025	.00011	.00013	.00014	.00039	.00035				46
.00224	.00040	.00067	.00264	.00052	.00062	.00071	.00094	.00164				47
.00169	.00054	.00118	.00101	.00033	.00047	.00061	.00037	.00046				48
.00158	.00040	.00166	.00474	.00056	.00062	.00075	.00181	.00222				49
.00229	.00096	.00165	.01101	.00126	.00146	.00164	.00424	.00954				50
.00357	.00293	.00126	.00258	.00187	.00473	.00229	.00107	.00132				51
.00084	.00041	.00076	.00836	.00162	.00068	.00116	.00173	.00657				52
.00374	.00078	.00111	.00582	.00105	.00148	.00140	.00130	.00825				53
.00012	.00007	.00022	.00041	.00015	.00021	.00035	.00018	.00076				54
.00098	.00051	.00108	.00517	.00165	.00182	.00208	.00139	.00434				55
.00078	.00066	.00056	.00107	.00080	.00111	.00106	.00051	.00124				56
.00622	.00322	.00304	.01311	.00345	.00694	.00490	.00299	.00376				57
.00131	.00091	.00103	.00753	.00468	.00096	.00141	.00119	.00205				58
.00013	.00010	.00012	.00455	.00010	.00010	.00012	.00058	.00022				59A
.00327	.00301	.00378	.13533	.00303	.00293	.00376	.02112	.00590				59B
.00056	.00032	.00054	.00131	.00047	.00067	.00051	.00176	.00044				60
.00118	.00018	.00027	.00032	.00026	.00021	.00031	.00104	.00160				61
.00089	.00043	.00060	.00242	.00084	.01694	.00207	.00072	.00145				62
.00255	.00174	.00061	.00098	.00103	.00246	.00245	.00068	.00061				63
.00234	.00198	.00343	.00169	.00398	.00148	.00509	.00118	.00165				64
.00281	.00193	.00621	.00495	.00274	.00337	.00334	.01155	.00888				65A
.00974	.00674	.02708	.02114	.00996	.01198	.01461	.03712	.02471				65B
.00051	.00037	.00119	.00087	.00061	.00075	.00086	.02568	.00692				65C
.00707	.00447	.00746	.0090	.00620	.00774	.00695	.02434	.00448				65D
.00176	.00111	.00282	.00470	.00166	.00201	.00211	.00720	.00402				65E
.02076	.01801	.01313	.02037	.01841	.01948	.02077	.01112	.01238				66
.00254	.01004	.00690	.00563	.00948	.00258	.00667	.00131	.00183				67
.00585	.00603	.02426	.01586	.020	.01621	.01359	.00973	.03573				68A
.00299	.00196	.00978	.00858	.00483	.00663	.00637	.00948	.04283				68B
.00068	.00039	.00287	.00213	.00151	.00180	.00187	.00345	.00540				68C
.02070	.02063	.08442	.07390	.03084	.03616	.03448	.03169	.04012				69A
.00276	.00144	.00365	.00881	.00272	.00236	.00468	.00279	.01022				69B
.01938	.01678	.02623	.03881	.02286	.02091	.03503	.02492	.03240				70A
.00493	.00367	.00713	.01056	.00575	.00975	.00766	.00702	.00666				70B
												71A
.03742	.02056	.07351	.07652	.08987	.08855	.12141	.03065	.05255				71B
.00561	.00365	.00532	.00618	.00492	.00642	.00541	.00207	.00265				72A
.00285	.00210	.00424	.01375	.00444	.00392	.00381	.00140	.00248				72B
.01951	.01013	.00918	.01219	.01052	.01563	.01971	.00758	.0090				73A
.02826	.05282	.02104	.02232	.03722	.03040	.03017	.01443	.05392				73B
1.07781	.10058	.05419	.05337	.06902	.08434	.10615	.05319	.04670				73C
.00279	.100257	.00754	.00615	.01035	.00284	.00731	.00145	.00201				73D
.00649	.00383	.1.01763	.00671	.00556	.00940	.00877	.00353	.00346				74
.00724	.01165	.00857	.1.01681	.00896	.00965	.00963	.00765	.00832				75
.00474	.03188	.01734	.00552	.1.17114	.00346	.01077	.00152	.00204				76
.00013	.00016	.00120	.00009	.00050	.001935	.00025	.00013	.00009				77A
.00422	.00327	.00313	.00273	.00303	.00464	.1.0071	.00163	.00242				77B
.00827	.00780	.00568	.00792	.00806	.01325	.01392	.1.00383	.00725				78
.00338	.00254	.01088	.00907	.00770	.00748	.0080	.01127	.1.03291				79
									1.00000			82
										1.00000		84
											1.00000	85
<b>1.44508</b>	<b>1.49865</b>	<b>2.05976</b>	<b>1.97527</b>	<b>1.74915</b>	<b>1.68879</b>	<b>1.80539</b>	<b>1.62412</b>	<b>2.00756</b>	<b>1.00000</b>	<b>1.00000</b>	<b>1.00000</b>	<b>T</b>