

# Benchmark Input-Output Accounts for the U.S. Economy, 1982

**T**HIS article presents the 1982 benchmark input-output (I-O) accounts for the U.S. economy.<sup>1</sup> These accounts show the production of commodities (goods and services) by each industry, the use of commodities by each industry, the commodity composition of GNP, and the industry distribution of value added. BEA prepares these accounts primarily on the basis of data collected every 5 years in the economic censuses for agriculture, mining, construction, manufacturing, wholesale trade, retail trade, and selected services; data for other services are from other government reports and surveys and from private sources. The summary tables in this article present estimates for 85 industries, which are roughly equivalent to the two-digit level of the Standard Industrial Classification (SIC) for non-manufacturing and the three-digit SIC level for manufacturing. Information on obtaining the benchmark tables at the 500-industry level is in the box on page 34.

This article is in three sections. The first section describes the I-O accounts and the tables that present related detail. The second section discusses some uses of these estimates, highlighting analytical uses and providing recent examples. The third section is a summary of the sources and methods used to prepare these accounts.

## *The I-O accounts and related detail*

The I-O accounts are typically displayed in matrix form to show compactly the relationships between all industries in the economy and all the commodities they produce and use.<sup>2</sup>

1. Annual I-O accounts for 1982 were presented in the April 1988 SURVEY OF CURRENT BUSINESS. For an explanation of the relationship between the benchmark and the annual I-O accounts, see the box on BEA's I-O program on page 32.

2. In the detail that they provide on industries and commodities, the I-O accounts can be viewed as a deconsolidation of the account in the national income and product accounts (NIPA's) that shows the components

Estimates for commodities are typically shown at producers' prices (although they can be shown at purchasers' prices). When producers' prices are used, wholesale and retail trade margins, which are measured as sales less the cost of goods sold, and transportation costs are treated as commodities that are separately produced and used by industries.

*Make and use tables.*—Two tables are basic to the accounts. The first, referred to as the "make" table, is a matrix showing the industry production of each commodity in the economy (table 1). The second, referred to as the "use" table, is a matrix showing the commodities consumed, or used, by each industry and final consumer (table 2). (Tables of coefficients that are derived from the make and use tables are described in the next section.) Chart 4 provides a schematic representation that highlights the relationship between the make and use tables.

that sum to GNP. For a further discussion of the relationship of the I-O accounts to the NIPA's, see U.S. Department of Commerce, Bureau of Economic Analysis, *An Introduction to National Economic Accounting*, Methodology Paper Series MP-1 (Washington, DC: U.S. Government Printing Office, March 1985): 15-16.

In the make table, the entries in a row represent the dollar value of commodities produced by the industry named at the beginning of the row. In chart 4, each row shows one white cell. That cell, called the diagonal cell, shows the value of production of the commodity for which the industry has been designated the "primary" producer. Any entries in the other cells in the row show the value of production of commodities for which other industries are the primary producers (that is, the value of production of commodities for which the given industry is a "secondary" producer). The entries in a column represent the value of the production by each industry of the commodity named at the head of the column.

The row total in the make table is total industry output, and the column total is total commodity output. As indicated by the shading on the chart, the row totals of the make table equal the column totals of the use table, and the column totals of the make table equal the row totals of the use table.

In the use table, the entries in a row represent the dollar value of the use by each industry of the commodity named

## Acknowledgments

Paula C. Young, former Chief of the Interindustry Economics Division, planned and directed the preparation of the 1982 benchmark input-output study and wrote this article. Robert P. Parker, Associate Director for National Economic Accounts, provided guidance. Claiborne M. Ball, Belinda L. Bonds, and Mark A. Planting assisted in the review and finalization of the data. Leo C. Maley, in his capacity as Assistant Chief of the Division—with assistance from Edwin J. Albetski, Belinda L. Bonds, Colin B. Brown, Brian D. Kajutti, Arthur A. Morton, Mark A. Planting, Joanne S. Thompson, and Gregory M. Wilson—prepared the computer programs for assembling the data to produce the tables. Peggy L. Burcham, Esther M. Carter, Marjorie S. Crenshaw, Kimberley A. Karman, and Conswella L. McGhee provided secretarial and clerical assistance.

The following BEA staff also contributed to the input-output study: William A. Allen, Rudolph P. Andras, Sandra D. Baker, Claiborne M. Ball, Wharton H. Berger, Alvin D. Blake, Carl A. Chentrens, Susan P. Clements, Richard J. DeKaser, Sergio B. Delgado, Nicholas R. Dopuch, Jennifer A. Duane, Teresa M. Germann, Mary E. Joyce, Myles J. Levin, John J. Linek, Jodi L. Lis, Jennie M. Mangan, David W. McCarthy, Rhonda E. Monroe, Raymond J. Murphy, David R. Nelson, James E. O'Malley, Georgeanne E. Patmios, Anne L. Probst, Robert S. Robinowitz, Arlene K. Shapiro, Gerald Silverstein, Nancy W. Simon, George M. Swisko, Joanne S. Thompson, Patricia A. Washington, Patricia A. Weiss, and Robert E. Yuskavage.

Estimates for the agricultural industries were prepared by Gerald Schluter and his staff, Economic Research Service, U.S. Department of Agriculture.

at the beginning of the row and of the sales of the commodity to final uses. The industry uses sum to total intermediate use, shown in the far right column of the industries portion. The final uses sum to GNP, shown in the far right column of the final-uses por-

tion. The entries in a column represent the value of the commodities—that is, of raw materials, semifinished products, and services—used and the value added that is generated in production by the industry named at the head of the column. The row total (total




commodity output) is the production of the commodity (no matter which industry contributed to that production), and the column total (total industry output) is the production of the industry (no matter what commodity was produced).

CHART 4

**The U.S. Input-Output Accounts**

MAKE TABLE: INDUSTRIES PRODUCING COMMODITIES

		COMMODITIES									TOTAL INDUSTRY OUTPUT
		Agricultural products	Minerals	Construction	Manufactured products	Transportation	Trade	Finance	Services	Other*	
INDUSTRIES	Agriculture										
	Mining										
	Construction										
	Manufacturing										
	Transportation										
	Trade										
	Finance										
	Services										
	Other*										
TOTAL COMMODITY OUTPUT											

 TOTAL COMMODITY OUTPUT  
 PRIMARY PRODUCT OF THE INDUSTRY  
 TOTAL INDUSTRY OUTPUT

USE TABLE: COMMODITIES USED BY INDUSTRIES AND FINAL USES

		INDUSTRIES										FINAL USES (GNP)							TOTAL COMMODITY OUTPUT			
		Agriculture	Mining	Construction	Manufacturing	Transportation	Trade	Finance	Services	Other*	Total intermediate use	Personal consumption expenditures	Gross private fixed investment	Change in business inventories	Exports	Imports	Government purchases	GNP				
COMMODITIES	Agricultural products																					
	Minerals																					
	Construction																					
	Manufactured products																					
	Transportation																					
	Trade																					
	Finance																					
	Services																					
	Other*																					
	Noncomparable imports																					
Total intermediate inputs																						
VALUE ADDED	Compensation of employees																					
	Indirect business taxes																					
	Other value added**																					
	Total																					
TOTAL INDUSTRY OUTPUT																						

\* Includes government enterprises, scrap, used and second-hand goods, government industry, rest-of-the-world industry, household industry, and inventory valuation adjustment.

\*\* Consists of net interest, capital consumption allowances, proprietors' income, rental income of persons, corporate profits, and business transfer payments less subsidies less current surplus of government enterprises.

The entries in the industries and final-uses portions of the table include imported, as well as domestically produced, commodities.<sup>3</sup> Imports by commodity are treated as negative entries in the imports column in the final-uses portion. The entries in the industries portion exclude capitalized purchases. Purchases of equipment and structures are treated as positive entries in gross private fixed investment or government purchases in the final-uses portion.

*Supplementary tables.*—Additional detail on I-O commodities and industries is presented in a series of supplementary tables, which are described below.<sup>4</sup>

The *personal consumption expenditures by NIPA category table* expands the personal consumption expenditures (PCE) component of the use table to show, in both producers' and purchasers' prices, the commodities that make up the detailed PCE categories in the national income and product accounts (NIPA) table 2.4. For example, the table shows relative proportions of agriculture, manufactured food, and chemical (salt and monosodium glutamate) commodities that make up the NIPA PCE category "food purchased for off-premise consumption." This table is essential to analyses that attempt to relate the effects of changes in consumption to industry and commodity output.

The *gross private fixed investment by NIPA category table* expands the gross private fixed investment component of the use table to show, in both producers' and purchasers' prices, the commodities that make up the detailed categories for structures and for producers' durable equipment purchases in NIPA tables 5.4 and 5.6. For example, the table shows the relative proportions of new office buildings and utility plants that make up the NIPA structures category "electric light and power." This table is essential to analyses that attempt to relate the effects of changes in investment to industry and commodity output.

3. In the summary tables presented in this article, commodity and industry output are shown as domestic output. However, for some analyses, it is preferable to show domestic supply—that is, imports plus domestic output—by eliminating the import column in the use table and adding an import row in the make table. The coefficients from the resulting table are referred to as "total based."

4. The availability of the supplementary tables will be announced in the Survey.

The *capital flows table* expands the gross private fixed investment component of the use table to show the type of equipment and structures purchased by industry. Frequently, the analytical use of the I-O accounts requires the construction of a dynamic model in which the purchases of equipment and structures are included in the model as intermediate purchases; this table makes it possible to compute entries in the industries portion that include capitalized purchases.

The *employment and employee compensation table* expands the employee compensation component of the use table to show the number of employees and to separate supplements to wages and salaries from wages and salaries by industry. This table can be used to relate industry output to employment and to calculate employment multipliers.

The *exports and imports by balance of payments category table* expands the exports and imports component of the use table to show the commodities classified according to the detailed categories in table 2 of BEA's balance-of-payments presentation. This new table shows relative proportions of commodities that make up the categories. For merchandise exports and imports, the table also provides a concordance between I-O commodity codes and the commodity classifications used for data on merchandise trade (Schedule B of the Statistical Classification of Domestic and Foreign Commodities Exported from the United States for exports and the Tariff Schedules of the U.S. Annotated for imports).

The *I-O workfile table* expands the commodity detail of the use table to show the products within the commodity. The workfile identifies over 7,000 products. Within a consistent definitional framework, it provides the maximum detail on product use for each industry that is permitted by the source data. It also notes the survey, report, or other reference for the source data.

#### *Uses of I-O estimates*

I-O accounts, both the benchmark accounts and the annual accounts that are based on them, are less well known than other parts of the Nation's economic accounts. Similarly, their uses are less well known. This section describes two kinds of uses—uses in analyses of the economy and uses in the preparation of economic statistics.

*Analytical uses.*—The make and use tables, because they completely account for commodity production and use for the entire economy and because they include detailed information for products, provide useful information to market researchers and others who wish to analyze and project the use of particular products. For example, a trade association has used the accounts to estimate import penetration in the apparel industry, and the U.S. Copyright Office has used the accounts to measure the size of U.S. copyright-related industries.

The major analytical use of the estimates in the I-O accounts is in economic analyses that require the measurement of both the direct and indirect

### BEA's Input-Output Program

BEA's input-output (I-O) program includes the preparation of benchmark and annual I-O accounts. The benchmark I-O accounts are prepared for years for which there are economic censuses. The censuses provide comprehensive data—including information on production, product receipts, secondary products, materials consumed, and operating expenses—that are not available on a more frequent basis. The benchmark I-O tables include over 500 industries and commodities. With the completion of the 1982 table, the number of years covered by BEA benchmark I-O tables is increased to seven—1947, 1958, 1963, 1967, 1972, 1977, and 1982.

The annual I-O accounts are prepared using basically the same procedures as used to prepare the benchmark accounts. However, primarily for census-covered industries, the source data used are less comprehensive and less reliable than those used for the benchmark accounts: For agriculture, construction, manufacturing, part of wholesale trade, retail trade, and selected services, the major data sources are annual surveys; for mining, quantity and price data are used to estimate output. Where comprehensive data are not available, as is the case for most estimates for secondary products and intermediate consumption, proportions from the most recent benchmark accounts are used to estimate the detailed components. The basic I-O tables are prepared at the summary level only; the supplementary detail is not prepared. Annual I-O tables were prepared for most years beginning with 1966. Annual tables based on the 1977 benchmark tables were prepared for the years 1980 through 1986. Annual tables based on the 1982 benchmark will be prepared beginning with 1987. The annual I-O accounts do not provide a consistent time series, because they are not prepared by interpolating between benchmark tables and because they are not revised to reflect definitional changes that are introduced in later benchmark years.

effects of changes in demand.<sup>5</sup> Tables, referred to as "coefficient tables," that quantify these direct and indirect effects are calculated using the estimates in the make and use tables. BEA publishes three coefficient tables, which appear in this article at the summary 85-industry level.

The *commodity-by-industry direct requirements table* is prepared using the use table to relate commodity input for an industry to the industry's output (table 3). The values in this table, referred to as the "direct requirements coefficients," show the amount of a commodity required by the industry to produce a dollar of the industry's output.

The *commodity-by-commodity total requirements table* is prepared using both the make and use tables (table 4). The values in this table, referred to as "commodity-by-commodity total requirements coefficients," show the production required both directly and indirectly of the commodity named at the beginning of each row per dollar of delivery to final use of the commodity named at the head of the column.

The *industry-by-commodity total requirements table* is also prepared using both the make and use tables (table 5). The values in this table, referred to as "industry-by-commodity total requirements coefficients," show the production required directly and indirectly from the industry named at the beginning of the row per dollar of delivery to final use of the commodity named at the head of the column.

These coefficient tables can be used, for example, to determine the impact of a disaster on the economy or to compute the effect on employment of an increased demand for imported, rather than domestic, goods. The Federal Emergency Management Agency, the Department of Defense, and the Bureau of the Census have used the accounts for such studies. When the accounts are used in conjunction with regional data, they can be modified to

show the regional impacts. For example, a trade association analyzed the economic effect of the fishing industry in areas bordering the Gulf of Mexico, and a real estate developer analyzed the impact of constructing a new airport. BEA's Regional Economic Analysis Division performs such analyses for other government agencies.

*Statistical uses.*—The I-O accounts are used in several ways in the preparation of economic statistics. First, I-O accounts are a source of weights that can be used to prepare price or output indexes. For example, the Bureau of Labor Statistics uses I-O-based weights to calculate producer price indexes by stage of fabrication. BEA uses I-O-based weights to prepare the constant-dollar estimates of GNP. The weights also can be applied to NIPA totals for nonbenchmark years to estimate commodity composition. For example, the weights from the I-O accounts can be applied to the NIPA expenditure total for drug preparation and sundries to estimate spending on prescription drugs. Second, the I-O accounts are used by BEA to benchmark the national economic accounts. For example, PCE for 1982 will be derived from the 1982 benchmark I-O accounts.<sup>6</sup> Third, the I-O accounts are used to identify data gaps and inconsistencies in economic statistics. For example, discrepancies between construction activity reported in the Census Bureau's value put-in-place survey and that reported in the census of construction and other economic census data were identified during the preparation of the 1982 benchmark I-O accounts. As a result, the Census Bureau undertook a number of special studies, two of which have already led to major improvements in the current statistics.

#### Sources and methods

There are three major steps in the preparation of the benchmark accounts. Each of these steps and the major source data are described below.

1. *Determine industry and commodity output totals.*—The SIC groups establishments into industries based on their principal product. For most

SIC groups, the economic censuses, conducted by the Bureau of the Census, provide detailed data for industries and commodities for establishments with payroll. For 1982, the censuses did not cover finance, insurance, real estate, transportation, utilities, hospitals, and schools; for these industries, survey or regulatory information was used to derive output. To determine the output totals, two adjustments were made to the published data for the censuses-covered industries: Where necessary, they were adjusted by adding estimates of the output of establishments with no payroll, and where the Census Bureau uses tax return records rather than reports that it directly collects, they were adjusted for misreporting.<sup>7</sup>

The SIC-based totals were then adjusted to the industry classification system used in the I-O accounts. The SIC groups require adjustment when the SIC industry's input structure is more heterogeneous than is desirable for I-O analysis. (The I-O industry categories and their composition in terms of the 1972 SIC industries are given in appendix A—see page 68.) These definitional differences usually relate to secondary activity. Adjustments are made, for example, to include all construction work—wherever performed—in the construction industry, all manufacturing performed at trade and service establishments in the manufacturing industry, all services performed by trade establishments in the service industry, and all reselling by any industry in the trade industry. For each of these differences, production is transferred to the appropriate I-O industry. In a few cases, these differences involve primary activity. For instance, chemical establishments primarily producing aluminum oxide are included in the SIC chemical products industry, but they are included in the I-O primary aluminum industry because their primary input is bauxite. After these adjustments, industry output by commodity is summed for all producing industries to derive total commodity output.

2. *Derive the GNP components and their commodity composition.*—Estimates of some final uses are derived from direct information; for example, imports are from Census Bu-

5. These direct and indirect effects may be illustrated by tracing a few of the impacts resulting from a change in consumer demand for autos. An increase in consumer demand for autos will lead, first, to an increase in the production of autos. The increase in the production of autos will result in more steel production, which in turn will require more chemicals, more iron ore, more limestone, and more coal. The increased production of autos will also require more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. There will be even further impacts; for instance, the increased production of synthetic fibers will require more electricity and containers.

6. For more information on the use of the I-O accounts in benchmarking the NIPA's, see U.S. Department of Commerce, Bureau of Economic Analysis, *Personal Consumption Expenditures*, Methodology Paper Series MP-6 (Washington, DC: U.S. Government Printing Office, June 1990): 31-34.

7. See Robert P. Parker, "Improved Adjustments for Misreporting of Tax Return Information Used to Estimate the National Income and Product Accounts, 1977," *SURVEY*, 64 (June 1984): 17-25.



reau foreign trade statistics. For other estimates, the commodity-flow method is the mostly widely used method. This method first converts domestic sales, which is the value of sales of commodities produced by domestic firms at producers' prices, to domestic supply, which is the value of sales to domestic purchasers at purchasers' prices and, therefore, includes imports and excludes exports. It then allocates domestic supply among domestic purchasers—that is, persons, business, and government.<sup>8</sup>

3. *Estimate the commodities used by industries.*—For industries covered by the economic censuses, the data do not always include all intermediate uses, and they are primarily for establishments with payroll (and therefore must be adjusted to cover all establishments). For other industries, the data are from government or private sources. In some cases, the source data provide direct information on the use of a commodity—for example, purchased electricity. In other cases, the data provide a total for a broad category of purchases—for example, office supplies, equipment repairs, or equipment rental. For these totals, estimates of individual commodities are made using commodity-shipment weights and

other applicable data. When direct information is not available, estimates of intermediate use are derived using related information. For instance, ac-

counting fees are distributed based on the number of employees, and auto-related expenditures are distributed based on estimates of auto use.

#### Data Availability

The estimates from the 1982 benchmark input-output (I-O) accounts are available at a two-digit and six-digit I-O industry level on magnetic tapes, diskettes, or computer printout. They can be ordered for "transactions," for "total requirements coefficients," or for "all." "Transactions" include the make table, use table, direct requirements coefficients, and transportation and wholesale and retail trade estimates by commodity. "Total requirements coefficients" include industry-by-commodity or commodity-by-commodity or both. Products specifying "all" contain all of these data, but for the two-digit I-O industry level only. All products include information on the mathematical derivation of the coefficients tables. The specific products available, their BEA accession numbers, and their prices follow.

Item	BEA accession number	Price
<i>Magnetic tapes:*</i>		
1982 benchmark six-digit, transactions	51-91-00-002	\$100
1982 benchmark six-digit, total requirements coefficients	51-91-00-003	100
1982 benchmark two-digit, all	51-91-00-004	100
<i>Diskettes:</i>		
1982 benchmark six-digit, transactions:		
3½ inch	51-91-40-002	40
5¼ inch	51-91-40-003	120
1982 benchmark six-digit, industry-by-commodity total requirements:		
3½ inch	51-91-40-004	40
5¼ inch	51-91-40-005	100
1982 benchmark six-digit, commodity-by-commodity total requirements:		
3½ inch	51-91-40-006	40
5¼ inch	51-91-40-007	100
1982 benchmark two-digit, all (5¼ inch only)	51-91-40-008	20
<i>Printout:</i>		
1982 benchmark two-digit, all	51-91-20-002	55

\* Orders for magnetic tapes must specify density (1600 BPI or 6250 BPI) and whether or not internal labels are needed.

To order, write to Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. Specify the item, BEA accession number, and price of the product(s) being ordered. For foreign shipment, add 25 percent to the total amount of the order. A check or money order payable to "Bureau of Economic Analysis" must accompany all written orders. Be sure to include a return address.

For further information about these products or how to order them, or to place an order using MasterCard or VISA, call the Interindustry Economics Division at (202) 523-0792.

8. For more information, see *Personal Consumption Expenditures*, 31-34.

Table 1.—The Make of Commodities by Industries, 1982

[Millions of dollars at producers' prices]

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	Iron and ferroalloy ores mining	Non-ferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining
	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
1	Livestock and livestock products	76,555		155	177						
2	Other agricultural products		92,292	1,027	560						
3	Forestry and fishery products			6,094							
4	Agricultural, forestry, and fishery services				13,245						
5	Iron and ferroalloy ores mining					1,705	2				1
6	Nonferrous metal ores mining					128	3,373	2			17
7	Coal mining						4	28,627	2		8
8	Crude petroleum and natural gas								136,933		
9	Stone and clay mining and quarrying									5,899	1
10	Chemical and fertilizer mineral mining									9	1,697
11	New construction										
12	Repair and maintenance construction										
13	Ordinance and accessories										
14	Food and kindred products										
15	Tobacco manufactures										
16	Broad and narrow fabrics, yarn and thread mills										
17	Miscellaneous textile goods and floor coverings										
18	Apparel										
19	Miscellaneous fabricated textile products										
20	Lumber and wood products, except containers										
21	Wood containers										
22	Household furniture										
23	Other furniture and fixtures										
24	Paper and allied products, except containers										
25	Paperboard containers and boxes										
26	Printing and publishing										
27	Chemicals and selected chemical products								36	1	429
28	Plastics and synthetic materials										
29	Drugs, cleaning and toilet preparations										
30	Paints and allied products										
31	Petroleum refining and related industries										
32	Rubber and miscellaneous plastics products										142
33	Leather tanning and finishing										
34	Footwear and other leather products										
35	Glass and glass products										
36	Stone and clay products										246
37	Primary iron and steel manufacturing										1
38	Primary nonferrous metals manufacturing										6
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	Farm and garden machinery										
45	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 equipment										2
50	Miscellaneous machinery, except electrical										
51	Office, computing, and accounting machines										
52	Service industry machines										
53	Electric industrial equipment and apparatus										
54	Household appliances										
55	Electric lighting and wiring equipment										
56	Radio, TV, and communication equipment										
57	Electronic components and accessories										
58	Miscellaneous electrical machinery and supplies										
59	Motor vehicles and equipment										
60	Aircraft and parts										
61	Other transportation equipment										
62	Scientific and controlling instruments										
63	Optical, ophthalmic, and photographic equipment										
64	Miscellaneous manufacturing										
65	Transportation and warehousing										
66	Communications, except radio and TV										
67	Radio and television broadcasting										
68	Private electric, gas, water, and sanitary services										
69	Wholesale and retail trade								117		
70	Finance and insurance										
71	Real estate and rental										
72	Hotels; personal and repair services (except auto)										
73	Business and professional services (except medical)										
74	Eating and drinking places										
75	Automobile repair and services										
76	Amusements										
77	Health, educational, and social services and nonprofit organizations										
78	Federal Government enterprises										
79	State and local government enterprises										
82	Government industry										
83	Rest of the world industry										
84	Household industry										
85	Inventory valuation adjustment										
T	Total commodity output	76,555	92,292	7,276	13,982	1,833	3,380	28,631	137,088	6,331	2,129

\* Less than \$500,000.

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  Commodity number	New construction	Repair and maintenance construction	Ordnance and accessories	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mill	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers
		11	12	13	14	15	16	17	18	19	20
1	Livestock and livestock products .....				3,421						
2	Other agricultural products .....				686						155
3	Forestry and fishery products .....										
4	Agricultural, forestry, and fishery services .....										
5	Iron and ferroalloy ores mining .....										
6	Nonferrous metal ores mining .....										
7	Coal mining .....										
8	Crude petroleum and natural gas .....										
9	Stone and clay mining and quarrying .....										
10	Chemical and fertilizer mineral mining .....										
11	New construction .....	319,130									
12	Repair and maintenance construction .....		119,661								
13	Ordnance and accessories .....			16,196							
14	Food and kindred products .....				276,864						(*)
15	Tobacco manufactures .....					19,622					
16	Broad and narrow fabrics, yarn and thread mills .....						26,827	247	156	1,442	1
17	Miscellaneous textile goods and floor coverings .....				(*)		156	10,155	40	66	1
18	Apparel .....						91	6	53,652	188	
19	Miscellaneous fabricated textile products .....				2		16	29	36	9,846	2
20	Lumber and wood products, except containers .....				1			1		7	39,995
21	Wood containers .....										34
22	Household furniture .....			(*)				1		35	42
23	Other furniture and fixtures .....			6						7	45
24	Paper and allied products, except containers .....				1	48	5	80	1	21	89
25	Paperboard containers and boxes .....				(*)			1			3
26	Printing and publishing .....						1	36		9	2
27	Chemicals and selected chemical products .....			1	79			1			4
28	Plastics and synthetic materials .....				10		49	326		1	
29	Drugs, cleaning and toilet preparations .....				181					10	
30	Paints and allied products .....						1				1
31	Petroleum refining and related industries .....										
32	Rubber and miscellaneous plastics products .....			1	4		13	134	25	19	32
33	Leather tanning and finishing .....						1		7	1	3
34	Footwear and other leather products .....								28	8	1
35	Glass and glass products .....									1	16
36	Stone and clay products .....						1	23		1	23
37	Primary iron and steel manufacturing .....			3							
38	Primary nonferrous metals manufacturing .....								(*)		1
39	Metal containers .....										
40	Heating, plumbing, and fabricated structural metal products .....			17			1	1		1	69
41	Screw machine products and stampings .....			3						1	1
42	Other fabricated metal products .....			6			2	3		1	18
43	Engines and turbines .....			7							
44	Farm and garden machinery .....							1		1	1
45	Construction and mining machinery .....			3							
46	Materials handling machinery and equipment .....				1						1
47	Metalworking machinery and equipment .....			4							
48	Special industry machinery and equipment .....				1			1		1	4
49	General industrial machinery equipment .....			1					2	4	1
50	Miscellaneous machinery, except electrical .....			2						1	
51	Office, computing, and accounting machines .....			3							
52	Service industry machines .....			1	1					2	1
53	Electric industrial equipment and apparatus .....			1							
54	Household appliances .....			1						1	1
55	Electric lighting and wiring equipment .....			2				1			1
56	Radio, TV, and communication equipment .....			213				1			
57	Electronic components and accessories .....			1				3			
58	Miscellaneous electrical machinery and supplies .....							3			
59	Motor vehicles and equipment .....			62							
60	Aircraft and parts .....			1,719						1	8
61	Other transportation equipment .....						23	29	51	6	5
62	Scientific and controlling instruments .....			1						58	1
63	Optical, ophthalmic, and photographic equipment .....			6							
64	Miscellaneous manufacturing .....			5			9	12	5	39	28
65	Transportation and warehousing .....										
66	Communications, except radio and TV .....										
67	Radio and television broadcasting .....										
68	Private electric, gas, water, and sanitary services .....										
69	Wholesale and retail trade .....										
70	Finance and insurance .....										
71	Real estate and rental .....										
72	Hotels; personal and repair services (except auto) .....										
73	Business and professional services except medical .....										
74	Eating and drinking places .....										
75	Automobile repair and services .....										
76	Amusements .....										
77	Health, educational, and social services and nonprofit organizations .....										
78	Federal Government enterprises .....										
79	State and local government enterprises .....										
82	Government industry .....										
83	Rest of the world industry .....										
84	Household industry .....										
85	Inventory valuation adjustment .....										
T	Total commodity output .....	319,130	119,661	18,260	281,251	19,670	27,194	11,087	54,004	11,788	40,588

\* Less than \$500,000.

by Industries, 1982—Continued  
at producers' prices]

Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Industry number
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
																1
																2
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																85
619	12,523	11,087	58,758	18,613	54,403	90,664	30,466	47,912	8,547	201,944	55,695	1,728	7,400	12,444	31,935	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  Commodity number	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment
		37	38	39	40	41	42	43	44	45	46
1	Livestock and livestock products .....										
2	Other agricultural products .....										
3	Forestry and fishery products .....										
4	Agricultural, forestry, and fishery services .....										
5	Iron and ferroalloy ores mining .....										
6	Nonferrous metal ores mining .....										
7	Coal mining .....	1									
8	Crude petroleum and natural gas .....										
9	Stone and clay mining and quarrying .....										
10	Chemical and fertilizer mineral mining .....										
11	New construction .....										
12	Repair and maintenance construction .....										
13	Ordnance and accessories .....	13	7		31	6	12	29		1	
14	Food and kindred products .....			11		3			4		
15	Tobacco manufactures .....			1							
16	Broad and narrow fabrics, yarn and thread mills .....				(*)		3				
17	Miscellaneous textile goods and floor coverings .....		1		1	1	11				
18	Apparel .....						1				1
19	Miscellaneous fabricated textile products .....					4	4		1		
20	Lumber and wood products, except containers .....	1			76	1	12				(*)
21	Wood containers .....						1				
22	Household furniture .....				4	5	12				
23	Other furniture and fixtures .....	7			39	9	20				5
24	Paper and allied products, except containers .....				1	1	132	1	1		
25	Paperboard containers and boxes .....	(*)		13		34	6				
26	Printing and publishing .....		1		1	1	57				1
27	Chemicals and selected chemical products .....	23	26		1	1	11	1	1		
28	Plastics and synthetic materials .....	1					1				
29	Drugs, cleaning and toilet preparations .....	1					6				
30	Paints and allied products .....				1						
31	Petroleum refining and related industries .....		16				1				
32	Rubber and miscellaneous plastics products .....	11	57	22	33	56	117		3	1	5
33	Leather tanning and finishing .....										
34	Footwear and other leather products .....					2	6				
35	Glass and glass products .....		1		6		10				
36	Stone and clay products .....	6	4		27	4	27			7	
37	Primary iron and steel manufacturing .....	56,126	376		208	74	1,594		16	5	4
38	Primary nonferrous metals manufacturing .....	346	45,224	1	159	14	221		1	1	
39	Metal containers .....			11,498	2	43	48		2		
40	Heating, plumbing, and fabricated structural metal products .....	120	55	2	35,561	90	284	3	36	82	43
41	Screw machine products and stampings .....	32	12	43	68	19,988	113	4	56	23	4
42	Other fabricated metal products .....	312	93	2	159	142	33,780	1	8	58	20
43	Engines and turbines .....	11			69	7	49	11,060	7	15	10
44	Farm and garden machinery .....	107			22	21	22	121	11,845	223	10
45	Construction and mining machinery .....	199			91	2	214	62	254	22,063	227
46	Materials handling machinery and equipment .....	4	3		21	9	17	1	8	96	6,093
47	Metalworking machinery and equipment .....	61	13		16	53	91	10	31	55	13
48	Special industry machinery and equipment .....	15	6		37	8	43	4	52	26	34
49	General industrial machinery equipment .....	32	9		135	44	194	122	46	170	63
50	Miscellaneous machinery, except electrical .....	31	7		21	22	126	3	4	32	14
51	Office, computing, and accounting machines .....	15			1	2	10		1	1	1
52	Service industry machines .....	3			207	12	91	1	3	1	21
53	Electric industrial equipment and apparatus .....	1	14		9	25	35	54		1	21
54	Household appliances .....	11	17		13	139	13		16	1	1
55	Electric lighting and wiring equipment .....	153	77		23	19	66		3	2	
56	Radio, TV, and communication equipment .....	1	89		40	2	39		1	1	9
57	Electronic components and accessories .....	8	42		5	10	43				
58	Miscellaneous electrical machinery and supplies .....	1	199		1	3	43	1	1	3	
59	Motor vehicles and equipment .....	261	35	1	14	833	214	366	40	92	49
60	Aircraft and parts .....	1			30	2	49	978	5	4	17
61	Other transportation equipment .....	1			48	5	19	101	174	8	30
62	Scientific and controlling instruments .....	5	7		22	9	113			6	4
63	Optical, ophthalmic, and photographic equipment .....	1	19		1	4	5				
64	Miscellaneous manufacturing .....	1	7		10	16	72		1		1
65	Transportation and warehousing .....										
66	Communications, except radio and TV .....										
67	Radio and television broadcasting .....										
68	Private electric, gas, water, and sanitary services .....										
69	Wholesale and retail trade .....										
70	Finance and insurance .....										
71	Real estate and rental .....										
72	Hotels, personal and repair services (except auto) .....										
73	Business and professional services except medical .....										
74	Eating and drinking places .....										
75	Automobile repair and services .....										
76	Amusements .....										
77	Health, educational, and social services and nonprofit organizations .....										
78	Federal Government enterprises .....										
79	State and local government enterprises .....										
82	Government industry .....										
83	Rest of the world industry .....										
84	Household industry .....										
85	Inventory valuation adjustment .....										
T	Total commodity output .....	57,908	46,417	11,609	37,211	21,724	38,054	12,921	12,618	22,972	6,702

\* Less than \$500,000.

SURVEY OF CURRENT BUSINESS

July 1991  
by Industries, 1982—Continued  
at producers' prices]

Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Industry number
47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	
															1
															2
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															4
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															12
	15	11	16	19	1	35		(*)	590	9	1	2	677	1	13
		2			6		1								14
		2				1									15
		1	1							(*)					16
								1							17
	8	1	3		1	1		1				14			18
	1	1	1				1	5			1	16			19
															20
															21
	1	(*)	1	1	1	1	5	3	1	32		1			22
	1	2	23	1	12	19	3	30	1				1		23
	1	2	1		93						1				24
	2	8	3		59			1			1				25
	2	7	10	2		5	1		10	1	1		3		26
	1	1							1						27
	2					5				1					28
							(*)				1				29
															30
															31
	219	87	8	4	1	1	23	31	22	1	5	26	92	12	32
			9				9								33
	(*)														34
	1														35
	24	7	4	16	1	7	5	1	3	1		7			36
	69	3	78	13					25	3		12	20		37
	119	10	53	26	1				44	(*)	2	16		11	38
	1						2		41	51	29	5	22	13	39
	27	38	107	31	1	47	14	21	1	6	2	5	42	10	40
	573	21	28	27	16	27	32	66	6	4	38	2	7	17	41
	192	23	146	108	16	39	63	4	29	5	14	1	17	38	42
	29	6	101	78	1	17	512					3	156	48	43
	19	7	34	7	4	4	17	10	39				16		44
	22	34	297	28	1	33	40				7		71	10	45
	16	78	82	23	1	23	19			13	2		28		46
	16,346	103	76	87	5	3	76	32	10	1	12	3	26	1	47
	108	11,792	131	40	7	42	16	1	1	1	13		1	3	48
	55	203	21,451	117	10	110	106	29	12	1	11	19	59	49	49
	60	41	63	14,059	9	6	89	1	5	6	2	75	184	32	50
	19	28	1	5	38,777	1	32		307	1,155		2	2	10	51
	69	22	111	17	17	1	25	84				72	350	9	52
	10	25	69	7	26	2	25,500	1	189	93	222	43		14	53
	9	1	9		6	354	29	16	17	17	39	17	3		54
	3	8	10	12	58	1	195	9	10,740	3	39	42	241	3	55
	17	85	14	4	398	2	229	67	67	50,322	853	21	67	178	56
	4	2	5	4	986	1	186	1	154	740	86	4	1	1	57
	132	3	65	73	1	20	34	7	183	32	30,085	9	278	4	58
	21	60	142	22	12	60	5	6	88	1	10,889	1	108,098	33	59
	5	15	4	17		12	328	2	6	2	229	393	54,121	13	60
	12	11	75	6	26	9	109	6	44	248	16	27	1	31	61
	5	105	1	1	115	1	9	46	46	93	134	76	1	4	62
	5	3	12	4	4	1		9	122	56	5	6		41	63
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18,227	12,888	23,241	14,868	40,664	15,081	27,813	11,775	11,779	53,304	33,117	11,715	110,259	55,353	26,093	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  Commodity number	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Private electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance
		62	63	64	65	66	67	68	69	70
1	Livestock and livestock products .....									
2	Other agricultural products .....				921					
3	Forestry and fishery products .....									
4	Agricultural, forestry, and fishery services .....									
5	Iron and ferroalloy ores mining .....									
6	Nonferrous metal ores mining .....									
7	Coal mining .....									
8	Crude petroleum and natural gas .....							5,235		
9	Stone and clay mining and quarrying .....									
10	Chemical and fertilizer mineral mining .....									
11	New construction .....									
12	Repair and maintenance construction .....									
13	Ordnance and accessories .....	10	27	1						
14	Food and kindred products .....	1		1						
15	Tobacco manufactures .....			1						
16	Broad and narrow fabrics, yarn and thread mills .....	11		19						
17	Miscellaneous textile goods and floor coverings .....	5		9						
18	Apparel .....	7		15						
19	Miscellaneous fabricated textile products .....	13		36						
20	Lumber and wood products, except containers .....	12		10						
21	Wood containers .....	1								
22	Household furniture .....	4		44						
23	Other furniture and fixtures .....	41	1	9						
24	Paper and allied products, except containers .....	122	155	77						
25	Paperboard containers and boxes .....			41						
26	Printing and publishing .....	1	29	167						
27	Chemicals and selected chemical products .....	3	12	8						
28	Plastics and synthetic materials .....			52						
29	Drugs, cleaning and toilet preparations .....	363	38	2						
30	Paints and allied products .....			1						
31	Petroleum refining and related industries .....			34						
32	Rubber and miscellaneous plastics products .....	119	12							
33	Leather tanning and finishing .....									
34	Footwear and other leather products .....	6	1	9						
35	Glass and glass products .....	22	6	22						
36	Stone and clay products .....	4	93	4						
37	Primary iron and steel manufacturing .....	2		1				27		
38	Primary nonferrous metals manufacturing .....	7	1	1						
39	Metal containers .....									
40	Heating, plumbing, and fabricated structural metal products .....	29	1	14						
41	Screw machine products and stampings .....	42	1	24						
42	Other fabricated metal products .....	202	1	41						
43	Engines and turbines .....	1	1							
44	Farm and garden machinery .....	9		1						
45	Construction and mining machinery .....	6		1						
46	Materials handling machinery and equipment .....	2	1	1						
47	Metalworking machinery and equipment .....	20	3	7						
48	Special industry machinery and equipment .....	28	3	4						
49	General industrial machinery equipment .....	83	11	12						
50	Miscellaneous machinery, except electrical .....	6	3	8						
51	Office, computing, and accounting machines .....	40	105	132						
52	Service industry machines .....	14	1	2						
53	Electric industrial equipment and apparatus .....	135	49	2						
54	Household appliances .....	10		33						
55	Electric lighting and wiring equipment .....	15	5	7						
56	Radio, TV, and communication equipment .....	369	101	86						
57	Electronic components and accessories .....	34	62	68						
58	Miscellaneous electrical machinery and supplies .....	106	24	8						
59	Motor vehicles and equipment .....	62		5						
60	Aircraft and parts .....	115	7	3						
61	Other transportation equipment .....	2		8						
62	Scientific and controlling instruments .....	20,961	139	54						
63	Optical, ophthalmic, and photographic equipment .....	218	19,755	10						
64	Miscellaneous manufacturing .....	6	37	25,676						
65	Transportation and warehousing .....				194,575			1,759		
66	Communications, except radio and TV .....					96,111				
67	Radio and television broadcasting .....						1,101			
68	Private electric, gas, water, and sanitary services .....							220,607		
69	Wholesale and retail trade .....								577,029	
70	Finance and insurance .....									241,041
71	Real estate and rental .....									
72	Hotels; personal and repair services (except auto) .....									
73	Business and professional services except medical .....									
74	Eating and drinking places .....									
75	Automobile repair and services .....									
76	Amusements .....									
77	Health, educational, and social services and nonprofit organizations .....									
78	Federal Government enterprises .....									
79	State and local government enterprises .....				62			5,009	1,884	-105
80	Government industry .....				4,401			24,332	998	73
81	Rest of the world industry .....									
82	Government industry .....									
83	Rest of the world industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
T	Total commodity output .....	23,268	20,682	26,764	199,960	96,111	1,101	256,968	579,911	241,009

\* Less than \$500,000.

SURVEY OF CURRENT BUSINESS

July 1991

by Industries, 1982—Continued  
at producers' prices]

Real estate and rental	Hotels; personal and repair services (exc. auto)	Business and professional services except medical	Eating and drinking places	Auto-moblie repair and services	Amuse-ments	Health, educational, and social services and nonprofit organizations	Federal Government enterprises	State and local govern-ment enter-prises	Scrap and used goods	Government industry	Rest of the world industry	Household industry	Inventory valuation adjustment	Total interme-diate use	Industry number
71	72	73	74	75	76	77	78	79	81	82	83	84	85	99	
					25									80,333	1
					78									95,720	2
														6,094	3
														13,245	4
														1,708	5
														3,520	6
														28,642	7
														149,599	8
														6,056	9
														3,089	10
														319,130	11
														119,661	12
														17,808	13
									6					277,396	14
														19,655	15
									24					30,221	16
														10,621	17
														54,031	18
														10,104	19
									21					40,432	20
									4					598	21
									2					12,672	22
									2					10,991	23
									54					59,776	24
									109					18,807	25
		32,121							64					86,803	26
									127					77,749	27
									18					28,123	28
									1					48,150	29
									(*)					8,532	30
									8					206,706	31
									33					54,707	32
														1,732	33
														7,367	34
									7					12,427	35
									9					32,119	36
									209					59,033	37
									423					47,099	38
									215					12,006	39
									63					36,997	40
									134					21,474	41
									87					36,145	42
									12					12,217	43
									8					12,598	44
									16					23,736	45
									3					6,581	46
									8					17,247	47
									4					12,470	48
									16					23,243	49
									3					14,950	50
									9					40,697	51
									24					15,480	52
									26					26,733	53
									11					12,120	54
									8					11,818	55
									22					53,333	56
									62					32,793	57
									19					11,880	58
									116					111,241	59
									22					58,439	60
									15					26,565	61
									68					22,638	62
									41					21,253	63
		1,338							34					27,993	64
									86					196,419	65
														96,111	66
		14,614												15,715	67
										108				221,389	68
														577,029	69
														242,008	70
														473,823	71
														70,103	72
														268,217	73
									174					143,209	74
														61,079	75
														43,517	76
						42,652								307,654	77
						61								33,303	78
						322		24,687						44,347	79
								9,318						337,370	82
										337,370				49,088	83
													7,596	7,596	84
													-11,299	-11,299	85
479,084	69,531	318,321	144,549	61,417	43,138	307,493	24,687	9,426	2,423	337,370	49,088	7,596	-11,299	5,939,773	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  Industry number	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Non-ferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining
		1	2	3	4	5	6	7	8	9	10
1	Livestock and livestock products .....	16,358	1,580	13	570	.....	.....	.....	.....	.....	.....
2	Other agricultural products .....	.....	24,596	3,091	.....	1,128	.....	.....	.....	.....	.....
3	Forestry and fishery products .....	.....	.....	75	41	.....	.....	.....	.....	.....	.....
4	Agricultural, forestry, and fishery services .....	2,091	5,281	823	6	.....	.....	1	3	1	1
5	Iron and ferroalloy ores mining .....	.....	.....	.....	.....	83	.....	.....	.....	.....	.....
6	Nonferrous metal ores mining .....	.....	.....	.....	.....	7	340	.....	.....	.....	.....
7	Coal mining .....	35	5	.....	.....	22	7	3,728	.....	7	3
8	Crude petroleum and natural gas .....	.....	.....	.....	.....	.....	.....	.....	4,460	.....	.....
9	Stone and clay mining and quarrying .....	1	211	.....	2	9	2	29	.....	150	38
10	Chemical and fertilizer mineral mining .....	.....	(*)	.....	.....	.....	1	.....	.....	9	72
11	New construction .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Repair and maintenance construction .....	711	842	52	207	25	49	265	4,319	67	25
13	Ordinance and accessories .....	.....	.....	46	.....	.....	.....	.....	.....	.....	.....
14	Food and kindred products .....	11,756	.....	177	22	.....	1	(*)	5	1	(*)
15	Tobacco manufactures .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	Broad and narrow fabrics, yarn and thread mills .....	.....	64	.....	.....	.....	.....	.....	.....	.....	4
17	Miscellaneous textile goods and floor coverings .....	16	33	64	56	.....	.....	.....	.....	.....	.....
18	Apparel .....	.....	.....	.....	.....	.....	(*)	6	7	1	(*)
19	Miscellaneous fabricated textile products .....	.....	100	20	55	.....	.....	.....	(*)	.....	.....
20	Lumber and wood products, except containers .....	19	20	.....	.....	3	32	82	(*)	.....	4
21	Wood containers .....	2	364	.....	.....	.....	.....	.....	.....	.....	.....
22	Household furniture .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23	Other furniture and fixtures .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
24	Paper and allied products, except containers .....	69	219	1	8	(*)	1	4	17	5	1
25	Paperboard containers and boxes .....	1	288	1	80	.....	(*)	.....	2	2	1
26	Printing and publishing .....	22	27	4	26	1	3	15	91	11	1
27	Chemicals and selected chemical products .....	234	7,434	27	2,031	34	154	303	641	85	134
28	Plastics and synthetic materials .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	Drugs, cleaning and toilet preparations .....	208	.....	.....	1	.....	.....	.....	11	.....	1
30	Paints and allied products .....	.....	.....	4	.....	.....	.....	.....	19	.....	.....
31	Petroleum refining and related industries .....	1,071	5,977	422	825	99	156	792	964	255	109
32	Rubber and miscellaneous plastics products .....	96	295	4	59	24	77	316	21	56	13
33	Leather tanning and finishing .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34	Footwear and other leather products .....	25	.....	.....	2	.....	.....	.....	.....	.....	.....
35	Glass and glass products .....	3	.....	1	3	(*)	1	(*)	17	2	1
36	Stone and clay products .....	2	18	.....	7	1	25	78	37	3	2
37	Primary iron and steel manufacturing .....	.....	.....	.....	.....	47	88	14	(*)	2	.....
38	Primary nonferrous metals manufacturing .....	.....	.....	.....	.....	5	9	24	.....	27	7
39	Metal containers .....	.....	.....	12	.....	.....	.....	.....	.....	.....	.....
40	Heating, plumbing, and fabricated structural metal products .....	16	19	.....	.....	11	52	100	522	39	64
41	Screw machine products and stampings .....	15	.....	.....	.....	9	30	197	.....	19	13
42	Other fabricated metal products .....	132	185	37	34	12	7	102	609	20	10
43	Engines and turbines .....	.....	.....	23	65	34	53	290	35	75	46
44	Farm and garden machinery .....	253	673	12	46	.....	.....	.....	.....	.....	.....
45	Construction and mining machinery .....	.....	.....	.....	.....	40	101	1,032	633	203	72
46	Materials handling machinery and equipment .....	.....	.....	.....	.....	10	26	90	.....	66	22
47	Metalworking machinery and equipment .....	86	101	(*)	1	2	4	5	30	5	1
48	Special industry machinery and equipment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
49	General industrial machinery equipment .....	25	46	12	2	34	54	544	267	92	25
50	Miscellaneous machinery, except electrical .....	42	113	1	4	3	8	243	30	21	1
51	Office, computing, and accounting machines .....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
52	Service industry machines .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
53	Electric industrial equipment and apparatus .....	10	26	.....	.....	3	17	87	331	26	11
54	Household appliances .....	.....	.....	.....	.....	.....	.....	.....	(*)	.....	.....
55	Electric lighting and wiring equipment .....	9	13	1	2	(*)	1	27	35	3	1
56	Radio, TV, and communication equipment .....	.....	.....	.....	(*)	.....	.....	(*)	1	.....	.....
57	Electronic components and accessories .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
58	Miscellaneous electrical machinery and supplies .....	31	83	1	14	1	4	5	7	5	1
59	Motor vehicles and equipment .....	81	217	3	36	4	10	9	16	2	(*)
60	Aircraft and parts .....	.....	.....	.....	(*)	.....	.....	.....	.....	.....	.....
61	Other transportation equipment .....	.....	.....	356	.....	.....	.....	.....	.....	.....	.....
62	Scientific and controlling instruments .....	.....	.....	9	7	1	4	3	4	1	(*)
63	Optical, ophthalmic, and photographic equipment .....	.....	.....	1	8	(*)	1	3	30	1	(*)
64	Miscellaneous manufacturing .....	15	18	1	13	3	2	6	16	5	2
65	Transportation and warehousing .....	2,183	1,127	52	406	41	70	221	472	85	16
66	Communications, except radio and TV .....	187	219	3	1	8	17	52	204	26	10
67	Radio and television broadcasting .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
68	Private electric, gas, water, and sanitary services .....	1,393	1,378	7	46	321	386	733	2,557	504	477
69	Wholesale and retail trade .....	2,221	3,572	115	803	47	116	798	627	152	60
70	Finance and insurance .....	1,323	1,884	122	124	18	72	249	604	78	151
71	Real estate and rental .....	2,377	5,439	.....	234	33	179	827	23,674	111	87
72	Hotels; personal and repair services (except auto) .....	64	118	15	137	5	11	9	65	65	16
73	Business and professional services except medical .....	632	1,021	270	380	40	136	445	3,110	164	65
74	Eating and drinking places .....	.....	.....	13	96	3	9	29	212	19	5
75	Automobile repair and services .....	322	568	42	369	56	129	110	178	10	3
76	Amusements .....	.....	.....	.....	164	.....	.....	(*)	4	1	1
77	Health, educational, and social services and nonprofit organizations .....	687	46	14	22	3	8	36	59	8	5
78	Federal Government enterprises .....	15	18	6	46	5	13	3	4	10	8
79	State and local government enterprises .....	14	36	3	14	2	4	4	6	1	2
80	Noncomparable imports .....	.....	(*)	.....	19	4	11	1	418	2	2
81	Scrap, used, and secondhand goods .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
82	Government industry .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
83	Rest of the world industry .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
84	Household industry .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
85	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1	Total intermediate inputs .....	69,449	42,764	2,861	8,223	1,113	2,486	11,937	45,371	2,487	1,594
88	Compensation of employees .....	2,433	7,184	541	4,091	690	1,762	9,958	10,560	2,039	875
89	Indirect business taxes .....	1,007	2,491	183	.....	158	287	2,011	23,698	270	126
90	Other value added .....	7,444	43,280	2,509	930	-252	-1,014	4,375	69,970	1,260	495
VA	Value added .....	10,884	52,956	3,232	5,021	596	1,034	16,705	104,228	3,569	1,496
T	Total industry input .....	80,333	95,720	6,094	13,245	1,708	3,520	28,642	149,599	6,056	3,089

\* Less than \$500,000.

July 1991  
by Industries, 1982  
at producers' prices]

New construction	Repair and maintenance construction	Ordnance and accessories	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mill	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Commodity number
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
.....	.....	.....	55,016	.....	56	98	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
.....	.....	.....	19,132	3,131	1,600	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	.....	2,570	.....	.....	.....	17	.....	4,314	.....	.....	.....	59	.....	.....	.....	3
144	342	2	10	(*)	4	(*)	(*)	.....	13	(*)	(*)	.....	5	(*)	2	.....	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	5
4	.....	5	136	13	40	9	9	3	18	(*)	5	2	305	2	12	.....	6
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
1,583	1,191	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	215	.....	.....	.....	8
.....	.....	.....	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	27	.....	.....	.....	9
156	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
220	76	91	508	16	115	27	85	18	225	5	107	74	227	43	202	.....	11
17	1	1,218	.....	1	(*)	.....	(*)	.....	(*)	.....	.....	.....	.....	.....	.....	.....	12
2	(*)	(*)	49,044	1	4	3	4	2	2	(*)	24	2	294	2	7	.....	13
.....	.....	.....	.....	3,365	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
.....	.....	1	.....	.....	8,547	1,840	10,627	2,854	.....	.....	786	18	497	.....	60	.....	15
1,109	379	(*)	26	.....	266	886	99	768	15	.....	233	218	346	.....	44	.....	16
59	17	4	8	1	2	6	11,296	152	5	(*)	7	1	6	1	3	1	17
40	62	(*)	40	.....	19	2	946	410	.....	.....	60	3	(*)	.....	1	28	18
13,705	2,797	40	35	1	6	2	.....	14	12,797	269	1,566	661	4,541	.....	2	64	19
.....	.....	.....	75	.....	.....	.....	.....	.....	.....	12	.....	.....	.....	.....	.....	.....	20
75	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	22	(*)	.....	.....	.....	.....	21
512	100	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	126	2	.....	.....	.....	22
570	298	7	2,229	94	34	41	44	17	18	(*)	21	13	9,786	7,614	13,804	392	23
8	3	17	5,056	601	208	54	210	84	103	36	134	119	880	735	168	399	24
187	40	36	2,073	267	27	8	81	21	28	24	24	12	62	16	7,098	223	25
1,409	538	99	2,145	40	764	518	141	71	680	.....	70	101	3,102	406	1,985	18,506	26
.....	.....	30	103	.....	5,051	2,613	1,404	104	30	4	43	5	1,269	174	16	783	27
-9	19	2	1,445	17	137	29	285	.....	.....	.....	.....	.....	190	.....	.....	238	28
1,730	1,799	2	.....	.....	4	5	1	.....	250	.....	158	110	19	33	34	254	29
10,878	5,205	57	1,241	121	389	69	531	18	738	7	129	88	1,932	401	1,121	2,489	30
2,140	1,790	135	4,054	90	321	202	411	293	303	(*)	498	250	1,353	61	858	907	31
.....	.....	.....	.....	.....	.....	.....	196	149	.....	.....	68	6	.....	.....	.....	.....	32
6	.....	1	.....	.....	5	.....	3	.....	7	.....	(*)	.....	.....	.....	7	.....	33
286	175	3	4,172	1	99	86	.....	.....	72	.....	77	14	1	(*)	1	123	34
16,962	4,351	38	43	3	9	2	4	1	80	2	59	36	86	3	19	160	35
8,109	1,364	537	8	1	4	3	.....	.....	14	2	170	1,024	2	5	6	225	36
3,570	917	544	.....	.....	.....	.....	1	1	22	.....	81	208	41	42	197	365	37
.....	.....	.....	8,528	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
19,216	5,831	.....	.....	.....	.....	.....	.....	.....	116	.....	.....	.....	.....	.....	.....	.....	39
163	61	129	625	.....	.....	.....	.....	.....	496	.....	101	225	.....	.....	173	.....	40
6,092	2,593	128	843	98	2	1	13	1	731	3	649	282	371	82	165	687	41
.....	.....	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
2,003	451	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
1,262	363	.....	1	1	28	.....	2	.....	24	.....	.....	.....	(*)	.....	.....	.....	45
28	11	68	39	5	18	4	13	4	105	1	13	30	31	17	23	28	46
.....	.....	.....	189	.....	233	146	110	10	42	2	10	.....	109	39	377	417	47
1,381	191	108	121	5	.....	.....	7	.....	68	.....	2	42	44	.....	2	188	48
90	34	89	99	14	44	10	31	5	193	2	21	13	73	28	48	67	49
.....	.....	(*)	(*)	.....	.....	.....	.....	.....	.....	.....	.....	.....	(*)	.....	9	(*)	50
2,885	1,225	.....	23	.....	.....	.....	.....	.....	14	.....	.....	.....	.....	.....	.....	38	51
1,649	609	27	.....	.....	.....	.....	.....	.....	22	.....	.....	19	.....	.....	.....	29	52
792	513	.....	(*)	.....	(*)	.....	5	(*)	.....	.....	.....	.....	.....	.....	(*)	.....	53
4,622	1,630	1	9	(*)	3	(*)	2	(*)	17	(*)	1	3	4	1	4	3	54
2,332	649	611	2	(*)	(*)	(*)	1	(*)	(*)	(*)	1	1	1	(*)	4	1	55
.....	.....	898	.....	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	56
362	84	2	4	1	1	1	2	.....	10	.....	(*)	(*)	4	1	8	1	57
164	94	1	22	4	7	1	17	.....	19	(*)	4	3	22	8	44	5	58
.....	.....	898	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
2	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	60
865	360	5	38	3	9	1	8	2	7	1	11	6	29	10	285	77	61
82	35	20	31	2	9	3	14	2	9	(*)	7	2	12	4	570	26	62
455	151	10	29	1	8	3	512	34	10	(*)	26	2	9	4	211	7	63
5,952	2,513	202	7,436	125	309	222	425	81	1,117	31	252	168	2,288	1,013	2,148	2,953	64
1,053	490	105	665	26	59	33	292	40	125	3	41	52	195	76	1,097	233	65
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
1,090	359	269	5,064	101	1,230	280	721	131	943	14	198	173	4,247	373	981	7,084	67
22,992	9,493	449	14,485	417	1,305	438	1,859	557	1,766	68	786	634	2,861	275	3,015	3,212	68
1,900	800	71	1,592	159	228	65	545	110	296	13	196	197	315	66	803	523	69
1,555	333	68	604	37	64	41	358	56	137	3	94	86	150	62	1,163	188	70
363	83	30	414	14	283	52	238	55	25	2	18	20	193	9	367	64	71
32,500	2,370	852	10,499	566	994	421	1,595	199	695	25	634	720	1,002	261	4,219	3,172	72
1,031	264	110	557	24	121	36	318	45	149	6	107	64	139	70	1,074	300	73
2,623	617	15	246	34	56	13	143	2	224	3	37	28	193	70	377	53	74
16	4	1	.....	.....	.....	.....	.....	.....	.....	.....	9	4	2	1	15	4	75
11	4	6	107	10	44	3	41	48	112	4	37	21	44	4	190	33	76
148	46	9	385	51	73	30	290	33	47	2	37	38	74	30	1,354	101	77
60	19	5	260	6	22	5	14	.....	11	(*)	3	7	91	6	24	51	78
2	(*)	8	4,083	4	15	196	35	69	4	.....	21	2	58	2	54	489	79
4	2	3	107	.....	27	26	.....	.....	.....	.....	.....	.....	672	.....	.....	32	80
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	82
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	85
179,014	53,770	8,101	206,324	9,470	22,891	8,545	34,142	6,464	27,271	519	7,655	5,933	38,500	12,220	44,281	51,107	I
93,939	50,536	7,600	37,576	2,394	7,189	1,919	16,177	2,793	10,279	212	4,044	3,723	12,825	4,830	29,069	15,273	88
1,328	749	191	6,689	2,533	263	65	256	38	457	6	72	67	691	140	730	1,419	89
44,849	14,607	1,915	26,807	5,236	-122	93	3,456	810	2,426	-139	901	1,268	7,760	1,617	12,724	9,950	90
140,116	65,892	9,707	71,071	10,185	7,330	2,077	19,889	3,641	13,162	79	5,017	5,058	21,275	6,587	42,523	26,642	VA
319,130	119,661	17,808															

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  Industry number	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products
		28	29	30	31	32	33	34	35	36
1	Livestock and livestock products		65							
2	Other agricultural products		46	1						
3	Forestry and fishery products		11	39						
4	Agricultural, forestry, and fishery services	1	3	(*)	2	2		(*)	1	2
5	Iron and ferroalloy ores mining			4						25
6	Nonferrous metal ores mining			38						21
7	Coal mining	124	20		25	17	1	1	2	392
8	Crude petroleum and natural gas	66		113	131,502	163				
9	Stone and clay mining and quarrying		22	45	252	16			167	2,216
10	Chemical and fertilizer mineral mining			7	22	15	3		9	48
11	New construction									
12	Repair and maintenance construction	84	103	26	489	204	4	15	99	235
13	Ordinance and accessories					(*)				102
14	Food and kindred products	46	462	152	26	5	612	7	1	16
15	Tobacco manufactures									
16	Broad and narrow fabrics, yarn and thread mills	80				552		215		95
17	Miscellaneous textile goods and floor coverings		20		33	882		283		1
18	Apparel	2	1	(*)	(*)	6	(*)	7		3
19	Miscellaneous fabricated textile products	(*)	2	(*)	(*)	8				(*)
20	Lumber and wood products, except containers	3	8		47	126		72	130	96
21	Wood containers								62	
22	Household furniture									
23	Other furniture and fixtures									
24	Paper and allied products, except containers	429	129	4	107	429	(*)	6	10	338
25	Paperboard containers and boxes	232	1,036	43	258	661	10	92	712	113
26	Printing and publishing	17	326	60	23	70	1	11	36	30
27	Chemicals and selected chemical products	11,715	2,169	1,732	2,762	2,768	246	96	1,254	963
28	Plastics and synthetic materials	752	138	969	56	10,245		78		254
29	Drugs, cleaning and toilet preparations	171	4,668	57	351	21		26		49
30	Paints and allied products	78	89	7	47		61			73
31	Petroleum refining and related industries	407	657	143	17,497	438	25	15	130	499
32	Rubber and miscellaneous plastics products	940	1,392	17	315	2,176	(*)	309	139	124
33	Leather tanning and finishing					2	97	1,224		
34	Footwear and other leather products	(*)	(*)	(*)	3	1		294	2	(*)
35	Glass and glass products	16	545	14	204	269			857	53
36	Stone and clay products	13	48	72	157	124	5	5	138	3,610
37	Primary iron and steel manufacturing	(*)	1	27	48	159		2	6	91
38	Primary nonferrous metals manufacturing	5	6	73		88			4	153
39	Metal containers	26	536	476	153					(*)
40	Heating, plumbing, and fabricated structural metal products		26			16				5
41	Screw machine products and stampings		213	16		241		24	31	38
42	Other fabricated metal products	11	363	54	327	501	(*)	56	3	360
43	Engines and turbines					20				5
44	Farm and garden machinery									
45	Construction and mining machinery									103
46	Materials handling machinery and equipment					4		1		2
47	Metalworking machinery and equipment	16	11	2	17	93	1	8	90	26
48	Special industry machinery and equipment	9				103		6	8	6
49	General industrial machinery equipment	86	157	1	4	21		(*)	7	29
50	Miscellaneous machinery, except electrical	34	26	4	43	157	2	16	57	62
51	Office, computing, and accounting machines		(*)		(*)	(*)				
52	Service industry machines									
53	Electric industrial equipment and apparatus								26	8
54	Household appliances					(*)		1		1
55	Electric lighting and wiring equipment	1	2	(*)	11	63	(*)	(*)	4	29
56	Radio, TV, and communication equipment	(*)	1	(*)	(*)	1		(*)	(*)	(*)
57	Electronic components and accessories					30				
58	Miscellaneous electrical machinery and supplies		8		1	10				1
59	Motor vehicles and equipment	1	11	1	36	10	(*)		3	8
60	Aircraft and parts									
61	Other transportation equipment									
62	Scientific and controlling instruments	4	35	6	20	35	(*)	2	16	14
63	Optical, ophthalmic, and photographic equipment	6	22	3	8	16	(*)	3	5	13
64	Miscellaneous manufacturing	3	20	6	5	18	(*)	104	2	26
65	Transportation and warehousing	687	690	304	8,108	1,513	42	116	457	2,522
66	Communications, except radio and TV	98	232	41	204	560	6	24	267	174
67	Radio and television broadcasting									
68	Private electric, gas, water, and sanitary services	1,634	803	112	5,595	1,830	46	82	1,340	2,076
69	Wholesale and retail trade	1,249	2,660	392	4,600	2,692	125	338	578	898
70	Finance and insurance	108	485	51	1,457	347	9	129	96	298
71	Real estate and rental	51	269	24	437	307	4	40	52	114
72	Hotels; personal and repair services (except auto)	75	128	18	67	75	30	51	27	54
73	Business and professional services except medical	1,142	5,312	238	1,849	1,257	29	348	439	951
74	Eating and drinking places	63	206	43	74	201	5	58	52	144
75	Automobile repair and services	64	87	18	65	92	3	14	57	82
76	Amusements	1	5	1	2	4		(*)	1	1
77	Health, educational, and social services and nonprofit organizations	30	209	12	101	133	1	4	10	30
78	Federal Government enterprises	20	121	28	92	79	5	81	29	62
79	State and local government enterprises	11	38	2	13	16	9	(*)	6	8
80	Noncomparable imports	77	332	68	310	865	(*)	1	61	88
81	Scrap, used and secondhand goods					4			95	
82	Government industry									
83	Rest of the world industry									
84	Household industry									
85	Inventory valuation adjustment									
1	Total intermediate inputs	20,694	24,963	5,645	177,781	30,804	1,381	4,266	7,603	17,832
88	Compensation of employees	5,882	10,922	1,952	8,117	16,053	409	2,463	4,553	9,807
89	Indirect business taxes	420	302	56	4,767	1,202	10	28	173	460
90	Other value added	1,127	11,963	880	16,041	6,648	-68	612	98	4,020
VA	Value added	7,428	23,187	2,888	28,925	23,903	351	3,102	4,824	14,287
T	Total industry output	28,123	48,150	8,532	206,706	54,707	1,732	7,367	12,427	32,119

\* Less than \$500,000.

by Industries, 1982—Continued  
at producers' prices]

Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Commodity number
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
2	2	(*)	1	(*)	1	1	2	1	(*)	1	(*)	1	1	1	(*)	1
1,554	2,447		34													
173	30		7		9	15	4	8	1	7	1	3	2	1	3	6
2,005		1					4									7
33																8
165	11		1		6											9
100	2															10
1,268	201	29	493	228	434	61	97	217	70	90	90	147	155	130	92	11
40																12
5	3	(*)	4	1	3	1	1	1	1	2	2	2	1	2	1	13
																14
	16															15
6	2	1	1	1	6	2	(*)	1	(*)	1	1	128	36	2	1	16
1	(*)		(*)	81						(*)	3	3	1	(*)	(*)	17
150	70	16	144	33	161		45	21	14	12	35	62	6		45	18
																19
5									30							20
15	15	37	38	32	321	8	3	5	2	6	4	33	8	119	13	21
45	62	5	126	101	321	15	29	3	3	54	20	92	75	251	87	22
39	31	245	38	15	37	10	10	22	9	26	18	29	29	133	16	23
2,175	1,300	45	121	170	849	4	14	52	10	107	206	33	20	8	93	24
	663	25	52	136								15		83	75	25
2	1	9	21	13	19								2			26
24	49	225	138	75	224	6	43	35	10	30		10	7	84		27
759	797	54	350	52	302	35	24	74	37	200	86	144	106	268	78	28
106	456	14	341	93	550	67	483	477	88	119	185	274	42	1,346	193	29
																30
2	4	(*)	243	32	83	(*)	(*)	(*)	(*)	(*)	27	1	(*)	1	18	31
381	178	12	77	48	147	81	34	115	34	192	78	175	231	143	90	32
10,772	316	2,529	7,533	5,105	5,021	1,793	1,183	3,109	591	1,411	1,134	2,574	737	269	882	33
1,250	16,404	2,514	2,801	904	2,131	582	107	125	80	270	506	1,002	437	381	752	34
1	(*)	760	4	7												35
			1,438	104	104	135		542	220	187	183	186	80	300	189	36
277	137	6	1,441	314	398	141	237	95	95	114	101	270	109	253	309	37
510	342	154	1,262	454	1,474	290	102	576	141	143	187	355	344	358	206	38
25			2		70	1,104	729	459	70		156	148	65		67	39
							1,259									40
14	14							1,221								41
401	594	19	152	272	169	100	49	168	35	737	6	236	353	50	125	42
				2							158	236				43
786	495	3	394	35	91	277	427	746	310	232	446	1,620	284	53	288	44
186	93	23	109	920	188	341	314	311	102	370	339	462	1,008	55	250	45
14			(*)				(*)	(*)		(*)		24	(*)	7,286	(*)	46
4			68								6				1,233	47
463	244	1	208	34	112	529	34	202	296	510	770	967	45	1,252	1,153	48
(*)																49
9	4	(*)	4	11	1	(*)	7	1	(*)	8	1	1	1	144	104	50
(*)	(*)	(*)	1	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	3	(*)	51
3	2	(*)	2		3	147	93	12	23	5	(*)	(*)	37	3,790	(*)	52
7	14	2	19	10	9	14	56	14	1	7	2	4	3	10	2	53
													35			54
3																55
26	13	2	49	5	14	2	3	4	2	5	4	23	5	28	198	56
15	10	2	14	5	13	4	4	8	3	10	6	10	10	25	6	57
12	7	1	21	5	14	2	2	9	4	7	3	4	6	39	23	58
2,471	2,191	236	674	335	661	136	221	266	61	197	170	315	165	677	237	59
391	241	29	404	255	787	67	43	129	50	117	103	158	71	368	94	60
			7													61
5,421	3,293	249	586	505	885	208	176	393	84	292	197	427	261	420	237	62
3,439	2,480	657	2,307	1,102	2,062	660	1,081	1,243	408	673	878	1,406	518	3,357	1,247	63
312	355	61	243	183	359	67	52	119	38	118	125	169	247	556	75	64
102	142	39	179	106	157	24	22	71	28	116	80	87	154	366	51	65
80	87	16	225	31	62	19	17	43	12	41	37	74	40	367	44	66
2,998	943	294	651	884	1,246	259	455	799	203	576	454	756	971	951	485	67
147	108	21	181	62	169	30	46	88	30	115	74	121	126	305	68	68
68	120	18	108	64	82	28	8	20	13	63	22	38	70	88	19	69
1	2	(*)	4	1	2	1	(*)	1	1	1	1	5	2	4	1	70
11	30	11	46	50	35	4	4	5	3	22	6	29	27	16	77	71
115	54	5	64	34	69	17	31	33	15	28	38	54	22	42	11	72
33	17	5	11	6	20	4	2	4	1	6	2	6	3	9	4	73
78	967	4	11	8	27	19	25	87	9	85	28	19	8	434	1	74
1,541	2,617		59		31	24	15	8		4		26	8			75
																76
																77
																78
																79
																80
																81
																82
																83
																84
																85
41,042	38,698	8,379	23,450	12,740	19,782	7,321	7,592	11,942	3,548	7,325	7,297	12,770	6,975	24,892	9,286	1
21,285	10,396	2,121	11,475	8,181	12,556	4,003	3,430	7,604	2,462	8,250	5,083	9,027	7,138	12,530	4,637	2
797	387	69	344	314	329	132	107	267	47	188	110	227	214	369	107	3
-4,090	-2,382	1,437	1,728	239	3,479	760	1,469	3,923	523	1,484	-19	1,220	623	2,905	1,450	4
17,991	8,401	3,627	13,547	8,734	16,363	4,896	5,006	11,794	3,033	9,922	5,173	10,473	7,974	15,804	6,194	5
59,033	47,099	12,006	36,997	21,474	36,145	12,217	12,598	23,736	6,581	17,247	12,470	23,243	14,950	40,697	15,480	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  Industry number	Electric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment
		53	54	55	56	57	58	59	60	61
1	Livestock and livestock products .....									
2	Other agricultural products .....									
3	Forestry and fishery products .....									
4	Agricultural, forestry, and fishery services .....	2	(*)	1	3	2	1	4	3	1
5	Iron and ferroalloy ores mining .....						3			
6	Nonferrous metal ores mining .....						129			
7	Coal mining .....	7	6	2	6	2	3	38	7	6
8	Crude petroleum and natural gas .....									
9	Stone and clay mining and quarrying .....							1		
10	Chemical and fertilizer mineral mining .....									
11	New construction .....									
12	Repair and maintenance construction .....	188	55	52	187	197	65	498	243	617
13	Ordnance and accessories .....				(*)			(*)	2	(*)
14	Food and kindred products .....	2	1	1	1	4	1	1	5	3
15	Tobacco manufactures .....									
16	Broad and narrow fabrics, yarn and thread mills .....		32	12				28	94	8
17	Miscellaneous textile goods and floor coverings .....	5					3	213		206
18	Apparel .....	2	1	1	11	12	1	5	4	3
19	Miscellaneous fabricated textile products .....				(*)	(*)	(*)	1,660	139	205
20	Lumber and wood products, except containers .....	40	108	31	56		5	120	33	899
21	Wood containers .....		2							
22	Household furniture .....				360	26				119
23	Other furniture and fixtures .....							113	219	62
24	Paper and allied products, except containers .....	135	20	4	78	46	6	86	14	52
25	Paperboard containers and boxes .....	116	239	175	111	84	85	68	5	13
26	Printing and publishing .....	43	13	16	235	49	28	53	65	22
27	Chemicals and selected chemical products .....	151	79	138	146	1,128	674	249	47	95
28	Plastics and synthetic materials .....	74	203	259	211	142	88	314	34	96
29	Drugs, cleaning and toilet preparations .....							9		1
30	Paints and allied products .....	60	88	43	50	2	26	486	59	162
31	Petroleum refining and related industries .....	286	24	77	114	139	112	611	263	277
32	Rubber and miscellaneous plastics products .....	310	321	148	1,481	2,318	327	4,357	555	321
33	Leather tanning and finishing .....									
34	Footwear and other leather products .....	(*)			1	1	(*)	3	1	(*)
35	Glass and glass products .....	13	159	490	38	311	3	475	13	122
36	Stone and clay products .....	236	109	30	28	57	14	526	153	237
37	Primary iron and steel manufacturing .....	1,254	993	584	219	192	156	6,495	1,251	1,392
38	Primary nonferrous metals manufacturing .....	1,584	412	673	914	2,132	818	1,699	1,690	501
39	Metal containers .....									
40	Heating, plumbing, and fabricated structural metal products .....	123			195	73	3	147	52	800
41	Screw machine products and stampings .....	223	251	401	441	419	184	6,129	591	261
42	Other fabricated metal products .....	245	409	205	535	1,160	299	1,836	474	480
43	Engines and turbines .....	132						1,770		678
44	Farm and garden machinery .....									
45	Construction and mining machinery .....							(*)		238
46	Materials handling machinery and equipment .....							14		3
47	Metalworking machinery and equipment .....	85	35	36	62	87	34	612	641	74
48	Special industry machinery and equipment .....									4
49	General industrial machinery equipment .....	82	114	8	51	4	41	806	263	663
50	Miscellaneous machinery, except electrical .....	136	19	35	75	104	47	1,750	593	161
51	Office, computing, and accounting machines .....	67			281	87	(*)	(*)	(*)	
52	Service industry machines .....		405		8			1,905		103
53	Electric industrial equipment and apparatus .....	2,189	705	285	289	157	214	193	86	289
54	Household appliances .....		29					(*)		214
55	Electric lighting and wiring equipment .....	87	172	397	192	38	74	357	1	118
56	Radio, TV, and communication equipment .....	1	(*)	(*)	2,418	6	(*)	420	711	90
57	Electronic components and accessories .....	1,237	10	87	8,686	6,305	979	273	1,526	11
58	Miscellaneous electrical machinery and supplies .....	1	2	57	33	9	897	1,314	109	74
59	Motor vehicles and equipment .....	5						25,308	4	602
60	Aircraft and parts .....	41				3	4	25	10,214	45
61	Other transportation equipment .....							14		786
62	Scientific and controlling instruments .....	9	324	3	92	12	4	390	1,195	100
63	Optical, ophthalmic, and photographic equipment .....	13	4	6	58	18	9	23	243	8
64	Miscellaneous manufacturing .....	17	41	28	28	16	3	27	19	33
65	Transportation and warehousing .....	460	193	232	436	501	288	2,250	871	356
66	Communications, except radio and TV .....	516	60	86	514	369	95	224	334	129
67	Radio and television broadcasting .....									
68	Private electric, gas, water, and sanitary services .....	501	222	224	617	701	225	1,359	704	320
69	Wholesale and retail trade .....	1,722	987	863	3,027	2,454	895	8,338	1,366	1,464
70	Finance and insurance .....	342	115	173	344	466	191	448	964	155
71	Real estate and rental .....	121	24	62	318	192	53	95	174	426
72	Hotels; personal and repair services (except auto) .....	161	42	86	366	162	115	136	666	36
73	Business and professional services except medical .....	1,167	357	364	2,105	997	688	2,347	2,555	644
74	Eating and drinking places .....	141	44	62	202	184	129	227	172	88
75	Automobile repair and services .....	45	15	21	31	30	34	1,159	35	68
76	Amusements .....	1	(*)	(*)	5	12	13	9	14	13
77	Health, educational, and social services and nonprofit organizations .....	11	16	8	72	74	6	100	83	9
78	Federal Government enterprises .....	50	57	24	181	50	11	232	146	40
79	State and local government enterprises .....	8	5	4	11	13	4	45	13	6
80	Noncomparable imports .....	94	61	11	219	130	29	483	92	7
81	Scrap, used and secondhand goods .....	(*)	1	1				82	216	
82	Government industry .....									
83	Rest of the world industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
I	Total intermediate inputs .....	14,637	7,583	6,508	26,146	21,675	8,192	79,093	29,812	15,014
88	Compensation of employees .....	10,878	3,361	4,086	21,729	13,902	4,193	23,648	23,049	9,880
89	Indirect business taxes .....	246	81	98	427	494	136	1,658	397	162
90	Other value added .....	972	1,096	1,126	5,031	-3,280	-640	6,842	5,181	1,509
T	Value added .....	12,096	4,537	5,310	27,186	11,117	3,689	32,147	28,627	11,551
T	Total industry output .....	26,733	12,120	11,818	53,333	32,793	11,880	111,241	58,439	26,565

\* Less than \$500,000.

by Industries, 1982—Continued

at producers' prices]

Scientific and controlling instruments	Optical, ophthalmic, and photo- graphic equipment	Miscel- laneous manufac- turing	Transporta- tion and ware- housing	Communi- cations, except radio and TV	Radio and TV broad- casting	Private electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels, personal and repair services (exc. auto)	Business and professional services except medical	Eating and drinking places	Auto- mobile repair and services	Amuse- ments	Health, educational, and social services and nonprofit organizations	Commodity number
62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	
		3	1							2	7	414		40	124	1
		29	3						23	2		1,038		4	136	2
		(*)	2						1	1		1,173		2	33	3
1	2	3	12	2	2	22	171	18	2,981	133	34	13	2	336	308	4
																5
23																6
4	20	4	15				14,117	28		(*)	7	6	2	2		7
(*)		37	206				38,714									8
																9
																10
77	64	165	5,367	3,861	164	8,326	3,711	1,511	24,174	1,065	869	663	153	408	9,528	11
			1	(*)		(*)	3	(*)	(*)	(*)	72	(*)		(*)	1	12
51	1	49	249	1	3	2	959	4	5	71	68	38,844	2	450	3,998	13
																14
330		349	2				1			137				38		15
167	17	144	52				52		(*)	28	3	13	9	5		16
6	1	9	60	28	(*)	3	37		(*)	234	20	(*)	20	42		17
	(*)	118	128	1	(*)	(*)	131	98	4	505	27	19	(*)	48		18
104		776	28				105		10	16	26	23	2	118	101	19
		3														20
3										1				1		21
		22					8		1	1	3	1	(*)	1	3	22
198	215	345	115	61	8	108	5,139	571	316	318	1,134	659	44	100	2,328	23
173	96	458	47	16	(*)	6	1,685	1	7	9	22	876	1	2	84	24
78	29	137	476	473	36	146	2,242	3,608	611	389	3,147	128	28	140	7,410	25
208	668	537	172	38	13	657	71	6	293	220	446	66	12	65	3,830	26
169	218	620														27
3		1	5	20		5	141	15	33	766	421	180	4	12	4,389	28
30		164	55	79						1	97		579	1	18	29
210	157	314	26,426	299	18	7,138	11,816	1,097	940	958	1,947	515	1,218	171	2,986	30
512	653	896	1,075	191	1	273	1,238	85	318	746	1,085	1,138	127	137	3,782	31
		43														32
6	(*)	50	8	2	1	1	59	21	5	220	18	25	2	20	29	33
59	147	15	34	7	(*)	52	129	19	4	227	23	364	392	7	412	34
96	74	157	44	1		11	155	8	24	190	72	42	288	7	149	35
378	40	471	166	1		2	25	(*)	1	2	11	1	(*)	(*)	13	36
905	475	1,664	80	34		56				12		5		8		37
16						10	326				62					38
61		81					27		87							39
441	256	165	33	180		87			36		107	10	2,620	14	196	40
296	189	320	909	145	(*)	279	732	8	34	91	128	55	2,055	28	193	41
		10	429	303		1,245					163		76			42
									119		495					43
											28					44
											191					45
			2			8	123		1		7					46
63	25	86	132	2	1	23	84	2	1	(*)	108	124	18	3	10	47
							32		1		698		(*)	(*)	2	48
41	17	15	700	131		61	4	16	8		52		6		2	49
88	46	162	564	4	1	45	201	4	2	52	158	611	820	7	30	50
75	(*)	(*)	43			10	186	294	17	403	1,264	7	3	5	138	51
		30	17			2	142			229	98	27	432	16	16	52
295	73	62	177	181		179				12	195		117			53
		(*)	4	(*)		(*)	9	1	40	558	50	1		(*)	11	54
40	27	16	51	35	(*)	111	53	22	40	92	112	100	205	33	304	55
1	(*)	12	28	2,954	41	1	46	31	12	35	42	9	60	2	144	56
873	1,734	496	48	780	428	5	14	88		971	1,602				163	57
25	21	7	66	16	1	22	99	11	99	7	116	7	355	2	320	58
8	4	10	357	9	1	380	443	57	27	25	115	30	8,783	6	118	59
		5	1,526	7	1	8		29		3	278		5	125	7	60
1,131	14	16	5	1	329	82	8	2	17		100	(*)	41	10	2,193	61
14	438	23	64	141	40	307	900	70	304	1,186	12	16	146	679	63	
30	7	1,339	131	82	7	578	436	73	1,208	518	261	16	101	664	64	
184	288	546	26,731	277	139	5,238	5,957	4,703	1,020	573	2,571	2,124	563	299	2,928	65
195	135	105	2,297	1,754	146	262	9,068	5,967	1,187	1,222	4,672	602	349	426	3,767	66
						86				193						67
324	236	403	2,114	827	29	60,031	14,305	1,218	288	3,011	1,410	3,841	503	973	5,141	68
1,032	831	1,912	4,222	602	92	1,135	7,736	778	628	1,390	2,327	7,333	5,934	295	5,045	69
154	306	330	3,595	1,226	160	2,968	7,497	53,482	11,137	990	2,662	2,956	364	401	2,009	70
149	75	197	2,804	1,412	748	559	22,081	7,241	29,149	2,633	7,294	4,123	991	2,378	23,942	71
38	55	53	490	240	155	378	4,603	1,449	755	1,141	2,215	610	1,028	294	1,530	72
846	1,036	1,937	6,086	2,134	457	1,841	46,559	20,046	8,395	4,548	30,583	7,404	1,306	4,109	11,921	73
163	96	362	2,068	458	169	251	11,973	5,561	2,644	403	2,486	826	300	457	2,110	74
177	57	94	2,703	140	8	152	6,999	394	230	263	1,393	175	268	183	701	75
15	10	6	33	409	4,988	4	604	79	31	17	174	841	3	6,462	495	76
72	109	104	285	135	41	218	812	440	262	524	1,224	360	44	213	4,270	77
60	28	130	222	231	14	526	2,499	4,871	340	328	1,534	216	123	262	1,989	78
7	4	7	128	17	10	21	518	32	50	149	93	186	42	37	188	79
48	210	668	5,369	1,916	19	11	1,426	1,377	54	24	1,466	60	5	120	139	80
			42			23				20			524			81
																82
																83
																84
																85
10,750	9,205	17,262	100,281	21,790	8,131	146,242	174,780	116,604	86,550	27,543	79,829	79,115	30,860	19,569	111,965	86
9,030	6,434	7,263	73,765	37,058	5,445	20,952	248,124	102,784	15,457	24,567	107,587	45,928	13,555	13,995	161,235	88
171	182	2														

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  Industry number	Federal Government enterprises	State and local government enterprises	Government industry	Rest of the world industry	Household industry	Inventory valuation adjustment	Total intermediate use
		78	79	82	83	84	85	
1	Livestock and livestock products .....	8						74,355
2	Other agricultural products .....	2,013	(*)					56,040
3	Forestry and fishery products .....	22						8,514
4	Agricultural, forestry, and fishery services .....	2	78					12,891
5	Iron and ferroalloy ores mining .....							1,872
6	Nonferrous metal ores mining .....							3,676
7	Coal mining .....	736	1,009					23,310
8	Crude petroleum and natural gas .....							177,019
9	Stone and clay mining and quarrying .....							6,385
10	Chemical and fertilizer mineral mining .....		24					2,161
11	New construction .....							156
12	Repair and maintenance construction .....	421	9,755					86,456
13	Ordnance and accessories .....	(*)	(*)					1,505
14	Food and kindred products .....	1,341	4					109,132
15	Tobacco manufactures .....							3,365
16	Broad and narrow fabrics, yarn and thread mills .....	6						27,340
17	Miscellaneous textile goods and floor coverings .....	2	6					6,888
18	Apparel .....	1	21					12,377
19	Miscellaneous fabricated textile products .....	36	4					5,445
20	Lumber and wood products, except containers .....							41,314
21	Wood containers .....							625
22	Household furniture .....							636
23	Other furniture and fixtures .....							1,210
24	Paper and allied products, except containers .....	20	38					49,233
25	Paperboard containers and boxes .....	7	(*)					18,048
26	Printing and publishing .....	176	119					31,581
27	Chemicals and selected chemical products .....	4	896					81,472
28	Plastics and synthetic materials .....							27,594
29	Drugs, cleaning and toilet preparations .....	15	35					14,096
30	Paints and allied products .....		1					7,827
31	Petroleum refining and related industries .....	731	2,803					120,901
32	Rubber and miscellaneous plastics products .....	16	124					47,406
33	Leather tanning and finishing .....	(*)						1,790
34	Footwear and other leather products .....	5	1					842
35	Glass and glass products .....	2	3					11,042
36	Stone and clay products .....	1	125					30,943
37	Primary iron and steel manufacturing .....		(*)					70,562
38	Primary nonferrous metals manufacturing .....	(*)						50,296
39	Metal containers .....							11,475
40	Heating, plumbing, and fabricated structural metal products .....	(*)	2					31,422
41	Screw machine products and stampings .....	22	1					20,126
42	Other fabricated metal products .....	6	28					33,597
43	Engines and turbines .....	103	57					8,541
44	Farm and garden machinery .....		160					3,028
45	Construction and mining machinery .....							6,124
46	Materials handling machinery and equipment .....	2						2,587
47	Metalworking machinery and equipment .....	4	8					6,855
48	Special industry machinery and equipment .....							2,373
49	General industrial machinery equipment .....	4	12					13,795
50	Miscellaneous machinery, except electrical .....	10	511					13,028
51	Office, computing, and accounting machines .....	5	4					10,226
52	Service industry machines .....	7	15					8,945
53	Electric industrial equipment and apparatus .....	(*)	693					16,106
54	Household appliances .....	1	44					2,274
55	Electric lighting and wiring equipment .....	17	56					9,543
56	Radio, TV, and communication equipment .....	2	1					10,679
57	Electronic components and accessories .....	2	20					31,127
58	Miscellaneous electrical machinery and supplies .....	6	80					4,814
59	Motor vehicles and equipment .....	143	123					37,606
60	Aircraft and parts .....							12,223
61	Other transportation equipment .....		100					3,276
62	Scientific and controlling instruments .....	3	4					8,353
63	Optical, ophthalmic, and photographic equipment .....	15	15					6,117
64	Miscellaneous manufacturing .....	29	30					7,650
65	Transportation and warehousing .....	2,388	807					118,281
66	Communications, except radio and TV .....	83	199					44,984
67	Radio and television broadcasting .....							285
68	Private electric, gas, water, and sanitary services .....	241	10,923					168,902
69	Wholesale and retail trade .....	538	1,599					174,717
70	Finance and insurance .....	48	561					112,602
71	Real estate and rental .....	291	448					148,961
72	Hotels; personal and repair services (except auto) .....	31	53					21,338
73	Business and professional services except medical .....	329	1,032					253,265
74	Eating and drinking places .....	103	121					39,135
75	Automobile repair and services .....	239	55					23,497
76	Amusements .....	10	2					14,524
77	Health, educational, and social services and nonprofit organizations .....	11	55					12,018
78	Federal Government enterprises .....	618	52					18,858
79	State and local government enterprises .....	12	5					2,519
80	Noncomparable imports .....	730						23,873
81	Scrap, used and secondhand goods .....		2					6,225
82	Government industry .....							
83	Rest of the world industry .....							
84	Household industry .....							
85	Inventory valuation adjustment .....							
I	Total intermediate inputs .....	11,624	32,919					2,732,176
88	Compensation of employees .....	22,686	10,259	337,370		44	7,596	1,916,700
89	Indirect business taxes .....		16					252,500
90	Other value added .....	-1,007	1,154		49,044		-11,299	1,038,397
VA	Value added .....	21,679	11,429	337,370	49,088	7,596	-11,299	
T	Total industry output .....	33,303	44,347	337,370	49,088	7,596	-11,299	

\* Less than \$500,000.

SURVEY OF CURRENT BUSINESS

July 1991

by Industries, 1982—Continued  
at producers' prices]

Personal consumption expenditures	Gross private fixed investment	Change in business inventories	Exports	Imports	Federal Government purchases			State and local government purchases			GNP	Total commodity output	Commodity number
					Total	National defense	Nondefense	Total	Education	Other			
91	92	93	94	95	96	97	98	99					
2,958		-625	418	-620	7	2	6	63	25	38	2,200	76,555	1
11,422		-909	18,678	-1,409	8,041		8,041	428	169	259	36,252	92,292	2
1,183		21	283	-2,120	-408		-408	-198	5	-203	-1,238	7,276	3
435			69	-4	93	22	71	498	169	329	1,090	13,982	4
		364	367	-652	-118	-118					-39	1,833	5
	885	-78	293	-1,335	-62	-63	(*)				-296	3,380	6
223		49	4,646	-30	296	108	188	136	88	49	5,320	28,631	7
	252	647	2,440	-43,675	406	1	405				-39,931	137,088	8
25		2	319	-321	-2	-2					-55	6,331	9
3		-41	325	-469	2	2					-32	2,129	10
	259,377		27		10,308	3,616	6,692	49,263	6,299	42,964	318,974	319,130	11
	10,709		56		4,461	2,836	1,626	17,979	4,062	13,917	33,205	119,661	12
1,024	98	817	2,886	-193	12,037	10,076	1,961	87	(*)	86	16,755	18,260	13
166,402		865	10,933	-12,416	1,993	166	1,827	4,342	2,921	1,421	172,119	281,251	14
14,249		364	2,666	-973							16,305	19,670	15
845		-592	1,116	-1,727	102	96	5	109	45	64	-146	27,194	16
2,580	1,391	-41	699	-482	17	3	15	35	6	29	4,199	11,087	17
50,893		-143	978	-11,167	523	522	1	544	11	533	41,627	54,004	18
6,026		-51	435	-456	102	80	23	287	59	228	6,343	11,788	19
821	4	-1,029	2,531	-3,171	34	29	5	86	42	45	-726	40,588	20
		-8	7	-11	6	2	2				619	21	21
11,595	953	-234	293	-843	43	14	29				11,887	12,532	22
898	8,402	-14	312	-700	85	35	50	893	518	375	9,877	11,087	23
8,978		418	3,816	-5,589	226	96	130	1,676	892	784	9,525	58,758	24
282		-96	256	-46	53	37	17	116	28	88	565	18,613	25
17,388		105	1,403	-638	670	364	306	3,894	2,627	1,267	22,822	54,403	26
1,366	1,458	-1,318	11,609	-6,982	1,336	1,271	65	1,723	525	1,198	9,192	90,664	27
		-523	4,067	-688	14	14	(*)	1			2,872	30,466	28
30,271		381	2,823	-2,941	721	523	198	2,562	178	2,384	33,816	47,912	29
323		-48	263	-31	4	2	3	208	167	41	719	8,547	30
78,469		-2,310	9,388	-19,489	7,297	7,059	239	7,687	3,565	4,123	81,043	201,944	31
8,597	45	-227	2,397	-4,184	715	607	108	946	64	881	8,289	55,695	32
		-19	291	-336	2	1	1				-62	1,728	33
10,391		136	221	-4,292	42	40	2	61	(*)	61	6,559	7,400	34
1,262		-11	696	-821	63	28	35	214	56	158	1,402	12,444	35
1,791		-64	1,015	-1,968	91	58	33	127	52	75	992	31,935	36
6	18	-3,544	1,889	-11,182	126	99	27	33	5	28	-12,654	57,908	37
44	50	-1,346	2,966	-6,417	786	655	131	37	34	34	-3,879	46,417	38
	32	-35	124	-64	72	72		5	3	2	134	11,609	39
921	3,720	-531	1,673	-836	841	678	164				5,789	37,211	40
946		-263	1,488	-941	173	144	29	194	149	46	1,598	21,724	41
2,743	2,218	-457	2,384	-3,390	591	516	76	368	137	232	4,457	38,054	42
247	1,968	-340	3,200	-1,502	615	453	162	193		193	4,380	12,921	43
111	8,596	309	1,594	-1,222	34	52	2	168	65	103	9,591	12,618	44
	8,798	3	8,459	-1,228	248	230	18	568		568	16,848	22,972	45
	3,857	-92	584	-436	195	187	9	6	2	4	4,115	6,702	46
357	11,797	-545	1,884	-2,503	252	222	32	130	76	55	11,372	18,227	47
220	10,301	-120	2,189	-2,218	105	97	9	37	35	2	10,515	12,888	48
	8,362	-554	4,341	-3,511	729	710	16	80		80	9,446	23,241	49
29	32	-170	905		898	831	67	146		70	1,839	14,868	50
722	20,767	617	8,916	-4,097	2,443	1,781	662	1,070	658	412	30,439	40,664	51
812	4,622	-726	1,300	-369	103	84	19	394	297	98	6,136	15,081	52
107	8,491	-318	3,672	-1,902	1,443	1,160	284	214	100	114	11,707	27,813	53
8,293	1,828	-416	864	-1,260	61	56	4	130	55	75	9,500	11,775	54
1,740	250	-28	964	-1,091	45	20	25	356	213	144	2,236	11,779	55
10,798	23,531	352	3,891	-9,574	13,147	12,129	1,018	481	310	171	42,625	53,304	56
649	53	285	5,822	-6,748	1,815	1,638	177	114	56	59	1,990	33,117	57
2,723	3,051	13	2,266	-1,730	290	200	90	290	26	264	6,902	11,715	58
51,624	37,216	-1,337	12,305	-31,998	1,038	882	156	3,805	986	2,819	72,653	110,259	59
128	6,256	3,487	14,480	-3,016	21,783	20,533	1,249	12		12	43,130	55,353	60
7,991	8,984	-393	1,966	-2,061	6,006	5,604	403	325	60	264	22,818	26,093	61
2,625	8,210	23	3,824	-2,577	931	619	313	1,879	112	1,767	14,915	23,268	62
3,641	7,657	-114	2,899	-3,213	1,385	943	442	2,310	993	1,317	14,565	20,682	63
18,845	4,348	-42	1,905	-7,527	159	94	65	1,427	874	553	19,114	26,764	64
49,682	3,068	-540	19,706	-902	5,844	5,089	754	4,821	2,959	1,861	81,679	199,960	65
39,471	4,705		1,490		2,259	1,259	1,000	3,203	1,521	1,682	51,127	96,111	66
816											816	1,101	67
80,722			252	-5,581	2,506	1,733	773	10,167	4,091	6,076	88,066	256,968	68
331,268	35,305	-494	21,757	8,609	3,848	3,237	611	4,902	1,965	2,937	405,194	579,911	69
116,127			6,155	-1,076	1,667	71	1,596	5,534	335	5,199	128,407	241,009	70
309,906	9,535		5,996		914	425	488	3,772	459	3,313	330,123	479,084	71
46,177			38		1,043	775	268	936	-647	1,583	48,193	69,531	72
26,696	4,361		4,519	-68	18,688	11,395	7,292	10,861	4,590	6,271	65,056	318,321	73
107,045			184		826	267	559	-2,641	-4,271	1,630	105,413	144,549	74
36,532		6	9		78	33	45	1,296	491	804	37,920	61,417	75
27,413		-90	759	-56	462	291	171	127	127	(*)	28,614	43,138	76
288,664			510		4,980	431	4,549	1,322	-995	2,317	295,475	307,493	77
4,771			101		105	201	-96	852	84	768	5,829	24,687	78
6,638					70	53	17	199	95	104	6,907	9,426	79
15,061	116	4		-46,804	7,721	6,669	1,052	29	26	3	-23,873		80
8,770	-15,706	-152	2,280	-480	125	155	-30	1,362	379	982	-3,802	2,423	81
					116,615	83,638	32,977	220,755	123,569	97,187	337,370	337,370	82
-14,184			106,000	-42,166	-562	-87					49,088	49,088	83
7,596											7,596	7,596	84
		-11,299									-11,299	-11,299	85
													I
													88
													89
													90
													VA
2,036,190	519,966	-23,055	357,528	-331,913	272,699	193,828	78,871	376,182	162,700	213,482	3,207,597	5,939,773	T



Table 3.—Commodity-by-Industry  
[Direct requirements per dollar of industry]

Commodity number	For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction
		1	2	3	4	5	6	7	8	9	10	11
1	Livestock and livestock products .....	.20363	.01650	.00207	.04304							
2	Other agricultural products .....	.30617	.03230		.08520							
3	Forestry and fishery products .....			.01232	.00310							
4	Agricultural, forestry, and fishery services .....	.02603	.05517	.13501	.00046		.00011	.00002	.00002	.00008	.00042	.00045
5	Iron and ferroalloy ores mining .....					.04835						
6	Nonferrous metal ores mining .....					.00392	.09665					
7	Coal mining .....	.00044	.00005			.01305	.00190	.13016		.00119	.00094	.00001
8	Crude petroleum and natural gas .....								.02981			
9	Stone and clay mining and quarrying .....	.00001	.00221		.00012	.00550	.00054	.00102		.02469	.01227	.00433
10	Chemical and fertilizer mineral mining .....		(*)								.02337	
11	New construction .....											.00049
12	Repair and maintenance construction .....	.00885	.00880	.00858	.01561	.01440	.01401	.00925	.02887	.01101	.00796	.00069
13	Ordnance and accessories .....			.00760								.00005
14	Food and kindred products .....	.14634		.02901	.00165			.00001	.00003	.00010	.00013	(*)
15	Tobacco manufactures .....											
16	Broad and narrow fabrics, yarn and thread mills .....		.00066				.00014	.00080			.00133	
17	Miscellaneous textile goods and floor coverings .....	.00020	.00034	.01052	.00421							.00348
18	Apparel .....						.00009	.00022	.00004	.00023	.00010	.00019
19	Miscellaneous fabricated textile products .....		.00104	.00332	.00418				(*)			.00013
20	Lumber and wood products, except containers .....	.00024	.00021			.00164	.00895	.00288	(*)		.00113	.04294
21	Wood containers .....	.00002	.00381									
22	Household furniture .....											.00024
23	Other furniture and fixtures .....											.00160
24	Paper and allied products, except containers .....	.00086	.00229	.00020	.00063	.00012	.00017	.00012	.00011	.00083	.00029	.00179
25	Paperboard containers and boxes .....	.00002	.00300	.00011	.00604		.00003		.00002	.00026	.00016	.00022
26	Printing and publishing .....	.00028	.00028	.00069	.00193	.00070	.00094	.00052	.00061	.00185	.00036	.00059
27	Chemicals and selected chemical products .....	.00291	.07766	.00440	.15332	.02014	.04375	.01059	.00429	.01400	.04341	.00441
28	Plastics and synthetic materials .....											
29	Drugs, cleaning and toilet preparations .....	.00259			.00006				.00007		.00039	-.00003
30	Paints and allied products .....			.00064					.00012			.00542
31	Petroleum refining and related industries .....	.01334	.06244	.06920	.06225	.05801	.04435	.02764	.00644	.04209	.03538	.03408
32	Rubber and miscellaneous plastics products .....	.00119	.00308	.00057	.00445	.01376	.02187	.01102	.00014	.00921	.00424	.00671
33	Leather tanning and finishing .....											.00002
34	Footwear and other leather products .....	.00031			.00014			(*)	.00001			.00002
35	Glass and glass products .....	.00004		.00011	.00024	.00018	.00023	.00001	.00011	.00028	.00032	.00090
36	Stone and clay products .....	.00003	.00019		.00051	.00035	.00702	.00271	.00025	.00043	.00052	.05315
37	Primary iron and steel manufacturing .....					.02734	.02511	.00050	(*)	.00030		.02541
38	Primary nonferrous metals manufacturing .....					.00316	.00256	.00083		.00443	.00233	.01119
39	Metal containers .....			.00194								
40	Heating, plumbing, and fabricated structural metal products .....	.00020	.00020			.00667	.01480	.00348	.00349	.00637	.02055	.06021
41	Screw machine products and stampings .....	.00019				.00350	.00844	.00687		.00309	.00418	.00051
42	Other fabricated metal products .....	.00164	.00193	.00601	.00259	.00726	.00205	.00355	.00407	.00327	.00314	.01909
43	Engines and turbines .....			.00369	.00489	.01961	.01491	.01012	.00024	.01235	.01489	
44	Farm and garden machinery .....	.00314	.00703	.00199	.00350							
45	Construction and mining machinery .....					.02318	.02864	.03603	.00423	.03355	.02334	.00628
46	Materials handling machinery and equipment .....					.00574	.00750	.00314		.01096	.00706	.00395
47	Metalworking machinery and equipment .....	.00107	.00105	.00003	.00008	.00094	.00111	.00016	.00020	.00081	.00019	.00009
48	Special industry machinery and equipment .....											
49	General industrial machinery equipment .....	.00031	.00048	.00202	.00014	.02014	.01545	.01898	.00178	.01511	.00800	.00433
50	Miscellaneous machinery, except electrical .....	.00053	.00118	.00011	.00026	.00158	.00222	.00847	.00020	.00339	.00045	.00028
51	Office, computing, and accounting machines .....				.00026							
52	Service industry machines .....											.00904
53	Electric industrial equipment and apparatus .....	.00012	.00027			.00170	.00480	.00304	.00221	.00424	.00366	.00517
54	Household appliances .....								(*)			.00248
55	Electric lighting and wiring equipment .....	.00011	.00013	.00013	.00017	.00023	.00026	.00093	.00023	.00045	.00029	.01448
56	Radio, TV, and communication equipment .....				.00003			(*)	.00001			.00731
57	Electronic components and accessories .....											
58	Miscellaneous electrical machinery and supplies .....	.00039	.00086	.00008	.00103	.00059	.00125	.00017	.00005	.00081	.00045	.00113
59	Motor vehicles and equipment .....	.00101	.00227	.00051	.00273	.00246	.00287	.00033	.00010	.00031	.00006	.00051
60	Aircraft and parts .....				.00002							
61	Other transportation equipment .....			.05844	.00051	.00035	.00114					.00001
62	Scientific and controlling instruments .....			.00146	.00005	.00012	.00125	.00011	.00003	.00008	.00006	.00271
63	Optical, ophthalmic, and photographic equipment .....			.00010	.00062		.00040	.00012	.00020	.00023	.00006	.00026
64	Miscellaneous manufacturing .....	.00019	.00019	.00015	.00095	.00164	.00043	.00022	.00010	.00078	.00052	.00143
65	Transportation and warehousing .....	.02717	.01177	.00845	.03062	.02406	.01986	.00772	.00316	.01400	.00524	.01865
66	Communications, except radio and TV .....	.00233	.00229	.00049	.00006	.00468	.00472	.00180	.00136	.00431	.00327	.00330
67	Radio and television broadcasting .....						.18779	.10957	.02560	.01709	.08318	.15440
68	Private electric, gas, water, and sanitary services .....	.01734	.01440	.00118	.00344	.00664	.02775	.03295	.02786	.00419	.02503	.01952
69	Wholesale and retail trade .....	.02764	.03732	.01892	.06054	.02775	.03295	.02786	.00419	.02503	.01952	.02705
70	Finance and insurance .....	.01647	.01968	.02009	.00939	.01024	.02054	.00869	.00403	.01293	.04888	.00595
71	Real estate and rental .....	.02959	.05682		.01767	.01920	.05088	.02886	.15825	.01828	.02803	.00487
72	Hotels; personal and repair services (except auto) .....	.00079	.00124	.00241	.01033	.00275	.00312	.00032	.00043	.01065	.00524	.00114
73	Business and professional services except medical .....	.00787	.01066	.04434	.02869	.02342	.03869	.01555	.02709	.02715	.02091	.01884
74	Eating and drinking places .....			.00210	.00727	.00181	.00264	.00100	.00141	.00319	.00075	.00323
75	Automobile repair and services .....	.00401	.00593	.00681	.02785	.03290	.03676	.00384	.00119	.00165	.00110	.00822
76	Amusements .....				.01238			.00001	.00003	.00018	.00019	.00005
77	Health, educational, and social services and nonprofit organizations .....	.00855	.00048	.00228	.00168	.00193	.00239	.00126	.00039	.00134	.00146	.00003
78	Federal Government enterprises .....	.00019	.00018	.00097	.00350	.00263	.00361	.00012	.00003	.00159	.00265	.00046
79	State and local government enterprises .....	.00017	.00038	.00046	.00102	.00100	.00114	.00013	.00004	.00008	.00062	.00019
80	Noncomparable imports .....		(*)		.00140		.00252	.00324	.00003	.00279	.00058	.00001
81	Scrap, used and secondhand goods .....											.00001
82	Government industry .....											
83	Rest of the world industry .....											
84	Household industry .....											
85	Inventory valuation adjustment .....											
I	Total intermediate inputs .....	.86452	.44676	.46953	.62087	.65123	.70620	.41678	.30329	.41066	.51581	.56094
88	Compensation of employees .....	.03028	.07505	.08873	.30891	.40368	.50053	.34767	.07059	.33677	.28324	.29436
89	Indirect business taxes .....	.01253	.02603	.03000		.09249	.08139	.07022	.15841	.04455	.04066	.00416
90	Property-type income .....	.09267	.45216	.41173	.07022	-.14740	-.28812	.16533	.46772	.20802	.16030	.14054
VA	Value added .....	.13548	.53224	.53047	.37913	.34877	.29380	.58322	.69671	.58934	.48419	.43906
T	Total .....	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

\*Less than 0.000005.



Table 3.—Commodity-by-Industry  
[Direct requirements per dollar]

Commodity number	For the composition of inputs to an industry, read the column for that industry  Industry number	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing
		29	30	31	32	33	34	35	36	37	38
1	Livestock and livestock products .....	.00136									
2	Other agricultural products .....	.00095	.00008								
3	Forestry and fishery products .....	.00022	.00462								
4	Agricultural, forestry, and fishery services .....	.00006	.00001	.00001	.00004		.00003	.00004	.00006	.00003	.00003
5	Iron and ferroalloy ores mining .....		.00049						.00077	.02632	
6	Nonferrous metal ores mining .....		.00440						.00064	.0293	.05196
7	Coal mining .....	.00042		.00012	.00031	.00075	.00010	.00016	.01220	.03396	.00063
8	Crude petroleum and natural gas .....		.01329	.63618	.00299					.00056	
9	Stone and clay mining and quarrying .....	.00045	.00531	.00122	.00030			.01341	.06899	.00279	.00024
10	Chemical and fertilizer mineral mining .....		.00076	.00011	.00028	.00185		.00072	.00150	.00169	.00004
11	New construction .....										
12	Repair and maintenance construction .....	.00213	.00308	.00237	.00373	.00248	.00204	.00795	.00730	.02148	.00427
13	Ordinance and accessories .....				(*)				.00317	.00068	
14	Food and kindred products .....	.00959	.01785	.00012	.00008	.35325	.00100	.00006	.00051	.00009	.00007
15	Tobacco manufactures .....										
16	Broad and narrow fabrics, yarn and thread mills .....				.01010		.02912		.00297		.00034
17	Miscellaneous textile goods and floor coverings .....	.00041		.00016	.01612		.03835		.00002		.00011
18	Apparel .....	.00001	.00002	(*)	.00010	.00006	.00095	.00015	.00010	.00009	.00004
19	Miscellaneous fabricated textile products .....	.00003	.00001	(*)	.00014			.00002		.00002	(*)
20	Lumber and wood products, except containers .....	.00016		.00023	.00231		.00983	.01047	.00299	.00254	.00149
21	Wood containers .....							.00497			
22	Household furniture .....										.00009
23	Other furniture and fixtures .....										
24	Paper and allied products, except containers .....	.00269	.00052	.00052	.00785	.00017	.00084	.00083	.01052	.00025	.00031
25	Paperboard containers and boxes .....	.02151	.00502	.00125	.01208	.00549	.01251	.05727	.00351	.00727	.00131
26	Printing and publishing .....	.00678	.00706	.00011	.00179	.00046	.00153	.00291	.00092	.00067	.00066
27	Chemicals and selected chemical products .....	.04505	.20304	.01336	.05059	.14198	.01304	.10091	.02989	.03684	.02760
28	Plastics and synthetic materials .....	.00287	.11353	.00027	.18727		.01057		.00792		.01408
29	Drugs, cleaning and toilet preparations .....	.09695	.00667	.00170	.00039	.03505	.00357		.00153	.00003	.00001
30	Paints and allied products .....	.00168	.01037	.00004	.00086			.00198	.00228	.00040	.00103
31	Petroleum refining and related industries .....	.01364	.01678	.08465	.08000	.01426	.00201	.01049	.01554	.01285	.01692
32	Rubber and miscellaneous plastics products .....	.02891	.00196	.00152	.03977	.00017	.04197	.01116	.00387	.00180	.00969
33	Leather tanning and finishing .....				.00003	.05572	.16607				
34	Footwear and other leather products .....	.00001	.00002	.00002	.00003		.03992	.00019	.00001	.00004	.00001
35	Glass and glass products .....	.01131	.00162	.00099	.00492			.06893	.00164	.00006	.00055
36	Stone and clay products .....	.00099	.00844	.00076	.00226	.00294	.00067	.01114	.11239	.00645	.00378
37	Primary iron and steel manufacturing .....	.00003	.00320	.00023	.00290		.00024	.00046	.00284	.18247	.00670
38	Primary nonferrous metals manufacturing .....	.00013	.00858		.00160			.00034	.00477	.02118	.34829
39	Metal containers .....	.01114	.05584	.00074					.00001	.00002	.00001
40	Heating, plumbing, and fabricated structural metal products .....	.00053			.00028			.00016			
41	Screw machine products and stampings .....	.00442	.00192		.00441		.00326	.00251	.00120	.00470	.00290
42	Other fabricated metal products .....	.00753	.00627	.00158	.00917	.00006	.00759	.00023	.01121	.00865	.00726
43	Engines and turbines .....				.00036				.00015	.00043	
44	Farm and garden machinery .....								.00319		
45	Construction and mining machinery .....								.00006	.00023	.00030
46	Materials handling machinery and equipment .....				.00007		.00007		.00079	.00678	.01261
47	Metalworking machinery and equipment .....	.00022	.00022	.00008	.00170	.00035	.00109	.00722			
48	Special industry machinery and equipment .....				.00188		.00077	.00067			
49	General industrial machinery equipment .....	.00327	.00007	.00002	.00039		.00005	.00057	.00090	.01332	.01050
50	Miscellaneous machinery, except electrical .....	.00054	.00048	.00021	.00288	.00087	.00221	.00458	.00191	.00315	.00196
51	Office, computing, and accounting machines .....	(*)		(*)	(*)					.00024	
52	Service industry machines .....									.00006	
53	Electric industrial equipment and apparatus .....						.00205	.00023	.00784	.00517	
54	Household appliances .....				(*)		.00019	.00005		(*)	
55	Electric lighting and wiring equipment .....	.00003	.00002	.00005	.00115	.00017	.00003	.00031	.00090	.00016	.00008
56	Radio, TV, and communication equipment .....	.00001	.00001	(*)	.00001		.00003	.00002	.00001	.00001	(*)
57	Electronic components and accessories .....				.00054						
58	Miscellaneous electrical machinery and supplies .....	.00016		.00001	.00018			.00004	.00002	.00005	.00004
59	Motor vehicles and equipment .....	.00022	.00009	.00017	.00019	.00012		.00027	.00024	.00011	.00029
60	Aircraft and parts .....										
61	Other transportation equipment .....									.00005	
62	Scientific and controlling instruments .....	.00072	.00067	.00009	.00064	.00023	.00027	.00131	.00043	.00044	.00027
63	Optical, ophthalmic, and photographic equipment .....	.00046	.00033	.00004	.00029	.00012	.00043	.00041	.00041	.00025	.00021
64	Miscellaneous manufacturing .....	.00041	.00064	.00002	.00032	.00012	.01410	.00017	.00082	.00020	.00015
65	Transportation and warehousing .....	.01433	.03558	.03922	.02765	.02419	.01570	.03676	.07853	.04185	.04652
66	Communications, except radio and TV .....	.00481	.00477	.00099	.01023	.00329	.00327	.02146	.00542	.00662	.00511
67	Radio and television broadcasting .....										
68	Private electric, gas, water, and sanitary services .....	.01667	.01317	.02707	.03345	.02656	.01113	.10781	.06464	.09183	.06992
69	Wholesale and retail trade .....	.05525	.04596	.02225	.04921	.07229	.04589	.04650	.02796	.05826	.05265
70	Finance and insurance .....	.01008	.00593	.00705	.00634	.00514	.01747	.00773	.00927	.00528	.00754
71	Real estate and rental .....	.00559	.00275	.00211	.00561	.00231	.00542	.00422	.00356	.00173	.00300
72	Hotels, personal and repair services (except auto) .....	.00265	.00209	.00032	.00137	.01755	.00696	.00213	.00168	.00135	.00184
73	Business and professional services except medical .....	.11031	.02792	.00894	.02297	.01680	.04720	.03533	.02961	.05078	.02002
74	Eating and drinking places .....	.00428	.00508	.00036	.00368	.00271	.00790	.00416	.00448	.00249	.00230
75	Automobile repair and services .....	.00181	.00211	.00031	.00169	.00162	.00187	.00461	.00255	.00116	.00255
76	Amusements .....	.00011	.00006	.00001	.00007		.00003	.00005	.00003	.00002	.00003
77	Health, educational, and social services and nonprofit organizations .....	.00434	.00141	.00049	.00243	.00046	.00048	.00077	.00092	.00019	.00063
78	Federal Government enterprises .....	.00251	.00331	.00044	.00145	.00260	.01099	.00232	.00193	.00195	.00114
79	State and local government enterprises .....	.00079	.00022	.00006	.00030	.00497	.00005	.00051	.00025	.00056	.00036
80	Noncomparable imports .....	.00690	.00792	.00150	.01580	.00012	.00012	.00488	.00274	.00132	.02053
81	Scrap, used and secondhand goods .....				.00006			.00764		.02610	.05356
82	Government industry .....										
83	Rest of the world industry .....										
84	Household industry .....										
85	Inventory valuation adjustment .....										
1	Total intermediate inputs .....	.51844	.66157	.86007	.56307	.79727	.57899	.61182	.55518	.69523	.82164
88	Compensation of employees .....	.22683	.22874	.03927	.29343	.23639	.33428	.36637	.30534	.36055	.22073
89	Indirect business taxes .....	.00628	.00660	.02306	.02197	.00549	.00373	.01395	.01433	.01350	.00821
90	Property-type income .....	.24846	.10309	.07760	.12153	-.03915	.08300	.00785	.12515	-.06929	-.05058
VA	Value added .....	.48156	.33843	.13993	.43693	.20273	.42101	.38818	.44482	.30477	.17836
T	Total .....	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

\*Less than 0.000005.



Table 3.—Commodity-by-Industry  
[Direct requirements per dollar]

Commodity number	For the composition of inputs to an industry, read the column for that industry  Industry number	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment
		55	56	57	58	59	60	61	62	63
1	Livestock and livestock products .....									
2	Other agricultural products .....									
3	Forestry and fishery products .....									
4	Agricultural, forestry, and fishery services .....	.00005	.00006	.00006	.00008	.00003	.00004	.00002	.00004	.00007
5	Iron and ferroalloy ores mining .....				.00024					
6	Nonferrous metal ores mining .....				.01088				.00103	
7	Coal mining .....	.00014	.00011	.00007	.00021	.00034	.00011	.00021	.00016	.00096
8	Crude petroleum and natural gas .....									
9	Stone and clay mining and quarrying .....					.00001			.00001	
10	Chemical and fertilizer mineral mining .....									
11	New construction .....									
12	Repair and maintenance construction .....	.00442	.00351	.00602	.00545	.00448	.00416	.02321	.00341	.00301
13	Ordinance and accessories .....		(*)			(*)	.00003	(*)		
14	Food and kindred products .....	.00008	.00002	.00013	.00005	.00001	.00008	.00011	.00226	.00005
15	Tobacco manufactures .....									
16	Broad and narrow fabrics, yarn and thread mills .....	.00103				.00025	.00161	.00030	.01458	
17	Miscellaneous textile goods and floor coverings .....				.00025	.00191	.00077	.00736		.00078
18	Apparel .....	.00006	.00021	.00036	.00004	.00005	.00007	.00010	.00027	.00002
19	Miscellaneous fabricated textile products .....		.00001	.00001	.00001	.01492	.00238	.00773		(*)
20	Lumber and wood products, except containers .....	.00263	.00104		.00040	.00108	.00056	.03384	.00459	
21	Wood containers .....									
22	Household furniture .....		.00675	.00079			.00012	.00447	.00012	
23	Other furniture and fixtures .....					.00102	.00374	.00235		
24	Paper and allied products, except containers .....	.00033	.00146	.00141	.00046	.00077	.00024	.00196	.00873	.01011
25	Paperboard containers and boxes .....	.01477	.00209	.00257	.00715	.00061	.00009	.00048	.00764	.00450
26	Printing and publishing .....	.00138	.00441	.00149	.00233	.00048	.00111	.00082	.00343	.00135
27	Chemicals and selected chemical products .....	.01167	.00274	.03440	.05671	.00224	.00080	.00358	.00921	.03143
28	Plastics and synthetic materials .....	.02188	.00395	.00434	.00737	.00282	.00059	.00360	.00745	.01024
29	Drugs, cleaning and toilet preparations .....					.00008		.00005	.00012	
30	Paints and allied products .....	.00361	.00094	.00005	.00217	.00437	.00101	.00610	.00133	.00006
31	Petroleum refining and related industries .....	.00652	.00214	.00425	.00939	.00549	.00450	.01043	.00929	.00736
32	Rubber and miscellaneous plastics products .....	.01256	.02777	.07069	.02752	.03917	.00949	.01208	.02263	.03074
33	Leather tanning and finishing .....									
34	Footwear and other leather products .....		.00002	.00002	.00003	.00002	.00001	.00001	.00026	.00001
35	Glass and glass products .....	.04147	.00072	.00947	.00028	.00427	.00022	.00458	.00259	.00689
36	Stone and clay products .....	.00251	.00053	.00173	.00116	.00473	.00262	.00893	.00422	.00349
37	Primary iron and steel manufacturing .....	.04942	.00410	.00586	.01312	.05839	.02141	.05240	.01670	.00189
38	Primary nonferrous metals manufacturing .....	.05696	.01714	.06501	.06888	.01527	.02891	.01886	.03998	.02234
39	Metal containers .....								.00069	
40	Heating, plumbing, and fabricated structural metal products .....		.00366	.00222	.00024	.00132	.00090	.03013	.00269	.00010
41	Screw machine products and stampings .....	.03395	.00827	.01277	.01552	.05509	.01011	.00984	.01949	.01204
42	Other fabricated metal products .....	.01734	.01004	.03536	.02515	.01651	.00811	.01807	.01307	.00890
43	Engines and turbines .....					.01592		.02552		
44	Farm and garden machinery .....						(*)	.00896		
45	Construction and mining machinery .....						.00013	.00011		
46	Materials handling machinery and equipment .....						.00551	.01097	.00279	.00118
47	Metalworking machinery and equipment .....	.00307	.00116	.00265	.00287	.00551	.01097	.00279	.00280	
48	Special industry machinery and equipment .....							.00015		
49	General industrial machinery equipment .....	.00071	.00096	.00011	.00344	.00724	.00450	.00295	.00180	.00080
50	Miscellaneous machinery, except electrical .....	.00297	.00141	.00317	.00394	.01573	.01014	.00604	.00388	.00214
51	Office, computing, and accounting machines .....		.00526	.00264	.00001	(*)	.00001		.00331	(*)
52	Service industry machines .....		.00015			.01713		.00387		
53	Electric industrial equipment and apparatus .....	.02414	.00542	.00479	.01804	.00173	.00147	.01087	.01302	.00344
54	Household appliances .....					(*)		.00805		
55	Electric lighting and wiring equipment .....	.03359	.00361	.00115	.00624	.00321	.00002	.00444	.00178	.00129
56	Radio, TV, and communication equipment .....	.00002	.04533	.00018	.00003	.00378	.01216	.00008	.00003	.00002
57	Electronic components and accessories .....	.00482	.16287	.19226	.08238	.00246	.02611	.00040	.03855	.08160
58	Miscellaneous electrical machinery and supplies .....	.00734	.00062	.00028	.07547	.01181	.00187	.00277	.00077	.00097
59	Motor vehicles and equipment .....	.00019	.00006	.00011	.00033	.22751	.00007	.02266	.00033	.00018
60	Aircraft and parts .....					.00022	.17478	.00171		
61	Other transportation equipment .....					.00013		.02960		
62	Scientific and controlling instruments .....	.00029	.00172	.00035	.00035	.00351	.02045	.00376	.04998	.00064
63	Optical, ophthalmic, and photographic equipment .....	.00051	.00109	.00056	.00077	.00021	.00415	.00029	.00065	.02061
64	Miscellaneous manufacturing .....	.00234	.00052	.00048	.00024	.00033	.00125	.00133	.00034	
65	Transportation and warehousing .....	.01963	.00817	.01528	.02428	.02022	.01490	.01342	.00813	.01354
66	Communications, except radio and TV .....	.00729	.00965	.01126	.00795	.00202	.00571	.00486	.00863	.00636
67	Radio and television broadcasting .....									
68	Private electric, gas, water, and sanitary services .....	.01896	.01158	.02137	.01895	.01221	.01204	.01205	.01431	.01108
69	Wholesale and retail trade .....	.07304	.05675	.07484	.07533	.07495	.02337	.05511	.04557	.03911
70	Finance and insurance .....	.01460	.00644	.01420	.01609	.00403	.01649	.00584	.00679	.01439
71	Real estate and rental .....	.00528	.00996	.00586	.00448	.00086	.00298	.01604	.00659	.00354
72	Hotels; personal and repair services (except auto) .....	.00728	.00686	.00495	.00964	.00122	.01140	.00137	.00166	.00259
73	Business and professional services except medical .....	.03076	.03947	.03039	.05791	.02110	.04371	.02424	.03735	.04876
74	Eating and drinking places .....	.00525	.00378	.00560	.01082	.00204	.00294	.00331	.00721	.00452
75	Automobile repair and services .....	.00176	.00057	.00092	.00283	.01042	.00060	.00255	.00780	.00266
76	Amusements .....	.00003	.00010	.00038	.00106	.00008	.00024	.00049	.00065	.00046
77	Health, educational, and social services and nonprofit organizations .....	.00068	.00136	.00227	.00047	.00090	.00142	.00034	.00320	.00512
78	Federal Government enterprises .....	.00201	.00339	.00151	.00096	.00209	.00251	.00151	.00266	.00133
79	State and local government enterprises .....	.00034	.00021	.00041	.00031	.00040	.00021	.00023	.00030	.00019
80	Noncomparable imports .....	.00090	.00411	.00395	.00240	.00434	.00158	.00026	.00213	.00989
81	Scrap, used and secondhand goods .....	.00011			.00686	.00194				
82	Government industry .....									
83	Rest of the world industry .....									
84	Household industry .....									
85	Inventory valuation adjustment .....									
1	Total intermediate inputs .....	.55068	.49025	.66099	.68953	.71101	.51014	.56519	.47489	.43311
8	Compensation of employees .....	.34576	.40742	.42395	.35290	.21258	.39442	.37192	.39887	.30275
89	Indirect business taxes .....	.00831	.00800	.01507	.01144	.01490	.00679	.00608	.00754	.00856
90	Property-type income .....	.09525	.09434	-.10001	-.05387	.06150	.08865	.05681	.11870	.25558
VA	Value added .....	.44932	.50975	.33901	.31047	.28899	.48986	.43481	.52511	.56689
T	Total .....	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

\* Less than 0.000005.

Direct Requirements, 1982—Continued

of industry output, at producers' prices]

Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Private electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels, personal and repair services (exc. auto)	Business and professional services except medical	Eating and drinking places	Auto-moblie repair and services	Amusements	Health, educational, and social services and nonprofit organizations	Federal Government enterprises	State and local government enterprises	Commodity number
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
.00010	.00001							.00002	.00003	.00289		.00091	.00040	.00024		1
.00103	.00001						.00005	.00003		.00725		.00009	.00044	.00045	.00001	2
(*)	.00001							.00001		.00819		.00004	.00011	.00066		3
.00012	.00006	.00002	.00013	.00010	.00030	.00008	.00629	.00190	.00013	.00009	.00004	.00772	.00100	.00007	.00176	4
																5
																6
.00015	.00008			.06377	.00005		(*)	.00011	.00001	.00004	.00003	.00004	.00008	.02211	.02274	7
.00132	.00105			.17487									(*)			8
																9
															.00053	10
.00589	.02732	.04017	.01045	.03761	.00643	.00624	.05102	.01519	.00324	.00463	.00251	.00937	.03097	.01264	.21998	11
.00175	.00001	(*)		(*)	.00001	(*)	(*)	(*)	.00027	(*)	(*)	(*)	(*)	(*)	(*)	12
	.00127	.00001	.00017	.00001	.00166	.00002	.00001	.00101	.00025	.27124	.00003	.01035	.01299	.04027	.00008	13
																14
.01245	.00001				(*)			.00196				.00088	.00009	.00018		15
.00514	.00027				.00009		(*)	.00040	.00001	.00009	.00014	.00012	.00005	.00006	.00013	16
.00032	.00031	.00029	.00001	.00001	.00006		(*)	.00334	.00007	(*)	.00033	.00097	.00073	.00002	.00046	17
.00420	.00065	.00001	.00002		(*)	.00041	.00001	.00721	.00010	.00013	.00001	.00111	.00145	.00108	.00009	18
.02774	.00014			.00047	.00133		.00002	.00022	.00010	.00016	.00003	.00271	.00033			19
.00009				.00014												20
								.00002				.00002				21
.00077					.00001		(*)	.00001	.00001	(*)	(*)	.00002	.00001			22
.01232	.00058	.00064	.00053	.00049	.00081	.00236	.00067	.00453	.00423	.00460	.00072	.00230	.00757	.00059	.00085	23
.01637	.00024	.00017	.00003	.00003	.00292	.00001	.00001	.00012	.00008	.00611	.00002	.00005	.00027	.00021	.00001	24
.00490	.00242	.00042	.00226	.00066	.00388	.01491	.00129	.00554	.01173	.00090	.00047	.00323	.02409	.00528	.00267	25
.01918	.00087	.00039	.00085	.00297	.00012	.00003	.00062	.00314	.00166	.00046	.00019	.00150	.01245	.00013	.02019	26
.02214																27
.00002	.00002	.00020		.00002	.00024	.00006	.00007	.01092	.00157	.00126	.00007	.00028	.01427	.00044	.00078	28
.00587	.00028	.00082						.00001	.00036		.00006	.00003	.00006		.00001	29
.01123	.13454	.00311	.00115	.03224	.02048	.00453	.00198	.01367	.00726	.00360	.01994	.00392	.00970	.02194	.06321	30
.05202	.00547	.00198	.00008	.00123	.00215	.00035	.00067	.01064	.00405	.00795	.00208	.00316	.01229	.00049	.00280	31
.00153														.00001		32
.00179	.00004	.00002	.00004	.00001	.00010	.00009	.00001	.00314	.00007	.00017	.00002	.00046	.00009	.00014	.00002	33
.00053	.00017	.00007	.00001	.00023	.00022	.00008	.00001	.00324	.00008	.00254	.00642	.00003	.00134	.00003	.00007	34
.00559	.00022	.00001		.00005	.00027	.00003	.00005	.00270	.00027	.00229	.00471	.00016	.00048	.00002	.00282	35
.01684	.00085	.00001		.00001	.00004	(*)	(*)	.00003	.00004	(*)	(*)	.00001	.00004		(*)	36
.05943	.00041	.00035		.00025	.00005	.00057		.00017		.00023		.00019		.00001		37
																38
.00290					.00005				.00018					.00001	.00003	39
.00588	.00017	.00187		.00039				.00051	.00040	.00007	.04290	.00032	.00064	.00066	.00003	40
.01143	.00463	.00151	.00002	.00126	.00127	.00003	.00007	.00130	.00048	.00039	.03365	.00064	.00063	.00018	.00063	41
.00035	.00218	.00315		.00562					.00061		.00125			.00310	.00128	42
					.00002		.00025		.00184						.00361	43
									.00011				(*)			44
	.00001			.00004	.00021				.00071					.00005		45
.00306	.00067	.00002	.00004	.00010	.00015	.00001	(*)	.00010	.00063	.00001	.00030	.00007	.00003	.00012	.00018	46
					.00006		(*)	.00001	.00040	.00087	(*)	.00001	.00001			47
.00052	.00357	.00137		.00027	.00001	.00007	.00002	.00260	.00059	.00426	.00009	.00001	.00001	.00012	.00028	48
.00579	.00287	.00004	.00008	.00020	.00035	.00002	(*)	.00074	.00059	.00426	.01343	.00017	.00010	.00031	.01152	49
.00001	.00022			.00005	.00032	.00121	.00004	.00575	.00471	.00005	.00004	.00012	.00045	.00014	.00008	50
.00106	.00008			.00001	.00025			.00326	.00037	.00019	.00707	.00038	.00005	.00022	.00033	51
.00223	.00090	.00189		.00081				.00017	.00073	.00017	.00192		.00001	.00001	.01563	52
.00001	.00002	(*)		(*)	.00002	(*)	.00008	.00796	.00018	.00001		.00001	.00004	.00002	.00099	53
.00055	.00026	.00036	.00002	.00050	.00009	.00009	.00008	.00131	.00042	.00070	.00335	.00075	.00099	.00050	.00127	54
.00041	.00014	.03073	.00260	.00001	.00008	.00013	.00003	.00050	.00015	.00006	.00098	.00005	.00047	.00005	.00001	55
.01771	.00024	.00812	.00225	.00002	.00002	.00036		.01385	.00597				.00053	.00005	.00045	56
.00025	.00033	.00016	.00004	.00010	.00017	.00005	.00021	.00010	.00043	.00005	.00581	.00005	.00104	.00018	.00180	57
.00036	.00182	.00010	.00006	.00171	.00077	.00024	.00006	.00035	.00043	.00021	.14380	.00013	.00038	.00429	.00278	58
	.00491															59
.00019	.00777	.00007	.00006	.00004	.00012			.00004	.00104		.00009	.00287	.00002	.00023	.00225	60
.00049	.00008	.00005	.00005	.00149	.00014	.00003	(*)	.00025	.00037	(*)	.00066	.00022	.00713	.00010	.00009	61
.00083	.00036	.00066	.00096	.00018	.00053	.00372	.00015	.00434	.00042	.00008	.00025	.00335	.00286	.00045	.00033	62
.04784	.00066	.00085	.00046	.00017	.00100	.00180	.00015	.01722	.00193	.00182	.00025	.00233	.00216	.00086	.00067	63
.01951	.13609	.00289	.00087	.02366	.01032	.01943	.00215	.00817	.00958	.01483	.00922	.00688	.00952	.07169	.01820	64
.00373	.01169	.01825	.00927	.00118	.01571	.02465	.00251	.01743	.01742	.00420	.00572	.00980	.01225	.00248	.00448	65
			.00547						.00072							66
.01438	.01076	.00860	.00183	.27116	.02479	.00503	.00061	.04295	.00526	.02682	.00823	.02235	.00167	.00722	.24631	67
.06830	.02149	.00627	.00585	.00513	.01341	.00321	.00133	.01982	.00868	.05121	.09715	.00677	.01640	.01615	.03605	68
.01179	.01830	.01275	.01017	.01340	.01299	.22099	.02351	.01412	.00992	.02064	.00596	.00922	.00653	.00143	.01264	69
.00703	.01428	.01469	.04762	.00252	.03827	.02992	.06152	.03756	.02719	.02879	.01623	.05464	.07782	.00873	.01011	70
.00189	.00250	.00250	.00985	.00171	.00798	.00599	.00159	.01628	.00826	.00426	.01683	.00675	.00497	.00092	.00118	71
.06920	.03099	.02220	.02905	.00832	.08069	.08283	.01772	.06487	.11402	.05170	.02138	.09441	.03875	.00987	.02327	72
.01294	.01053	.00047	.01074	.00113	.02075	.02298	.00558	.00575	.00927	.00577	.00492	.01051	.00686	.00310	.00272	73
.00336	.01376	.00146	.00049	.00069	.01213	.00163	.									



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

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agri-cultural, forestry, and fishery services	Iron and ferroalloy ores mining	Non-ferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction
		1	2	3	4	5	6	7	8	9	10	11
1	Livestock and livestock products .....	1.33879	.02758	.02495	.06457	.00111	.00146	.00067	.00053	.00097	.00115	.00159
2	Other agricultural products .....	.43966	1.04850	.03425	.11247	.00095	.00128	.00065	.00049	.00080	.00107	.00143
3	Forestry and fishery products .....	.00318	.00097	1.01182	.00394	.00098	.00220	.00084	.00029	.00048	.00064	.00740
4	Agricultural, forestry, and fishery services .....	.06137	.05970	.12124	1.01234	.00087	.00137	.00063	.00138	.00067	.00107	.00184
5	Iron and ferroalloy ores mining .....	.00045	.00048	.00045	.00078	1.04900	.00197	.00071	.00019	.00067	.00516	.00187
6	Nonferrous metal ores mining .....	.00092	.00099	.00078	.00167	.01732	1.10675	.00088	.00028	.00149	.00363	.00274
7	Coal mining .....	.00704	.00453	.00285	.00537	.03947	.02009	1.15508	.00258	.01341	.01958	.00723
8	Crude petroleum and natural gas .....	.07111	.08151	.06825	.10007	.11714	.09425	.04226	1.04634	.07106	.08487	.05016
9	Stone and clay mining and quarrying .....	.00207	.00336	.00084	.00188	.00707	.00257	.00210	.00070	1.03073	.01178	.00955
10	Chemical and fertilizer mineral mining .....	.00153	.00245	.00094	.00424	.00110	.00175	.00056	.00021	.00071	1.02514	.00083
11	New construction .....											1.00049
12	Repair and maintenance construction .....	.03494	.02464	.02112	.03345	.04593	.04256	.02199	.04300	.02755	.03097	.01551
13	Ordinance and accessories .....	.00006	.00004	.00690	.00007	.00011	.00014	.00006	.00003	.00027	.00006	.00042
14	Food and kindred products .....	.24486	.00795	.04228	.02196	.00388	.00504	.00230	.00169	.00346	.00404	.00515
15	Tobacco manufactures .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00182	.00235	.00487	.00408	.00127	.00171	.00211	.00026	.00091	.00223	.00235
17	Miscellaneous textile goods and floor coverings .....	.00145	.00121	.01138	.00546	.00102	.00118	.00070	.00027	.00065	.00052	.00458
18	Apparel .....	.00016	.00012	.00019	.00028	.00021	.00030	.00040	.00010	.00043	.00023	.00041
19	Miscellaneous fabricated textile products .....	.00113	.00163	.00414	.00486	.00049	.00056	.00020	.00010	.00029	.00028	.00046
20	Lumber and wood products, except containers .....	.00553	.00538	.00500	.00426	.00763	.01847	.00693	.00207	.00323	.00431	.00694
21	Wood containers .....	.00175	.00376	.00018	.00064	.00003	.00003	.00002	.00001	.00002	.00002	.00006
22	Household furniture .....	.00002	.00001	.00025	.00002	.00003	.00003	.00001	.00001	.00001	.00002	.00031
23	Other furniture and fixtures .....	.00005	.00003	.00016	.00005	.00011	.00011	.00005	.00004	.00009	.00007	.00168
24	Paper and allied products, except containers .....	.01432	.00920	.00681	.01240	.00638	.00787	.00406	.00042	.00029	.00613	.01177
25	Paperboard containers and boxes .....	.00844	.00537	.00324	.00962	.00214	.00260	.00140	.00052	.00204	.00265	.00323
26	Printing and publishing .....	.00677	.00322	.00441	.00624	.00451	.00553	.00279	.00218	.00468	.00432	.00562
27	Chemicals and selected chemical products .....	.07307	.12245	.04462	.21232	.04998	.07951	.02451	.00930	.02971	.07884	.02802
28	Plastics and synthetic materials .....	.00483	.00415	.00649	.00756	.00669	.00877	.00474	.00100	.00428	.00392	.00784
29	Drugs, cleaning and toilet preparations .....	.00634	.00120	.00124	.00224	.00095	.00117	.00051	.00034	.00105	.00132	.00102
30	Paints and allied products .....	.00140	.00111	.00183	.00183	.00188	.00210	.00090	.00099	.00105	.00118	.00741
31	Petroleum refining and related industries .....	.08099	.09463	.09321	.10652	.10247	.08479	.04771	.01480	.07384	.06246	.06203
32	Rubber and miscellaneous plastics products .....	.01258	.00843	.00733	.01277	.02452	.03267	.01755	.00232	.01480	.00934	.01502
33	Leather tanning and finishing .....	.00011	.00004	.00012	.00012	.00003	.00003	.00002	.00001	.00002	.00004	.00004
34	Footwear and other leather products .....	.00049	.00006	.00033	.00026	.00007	.00008	.00004	.00003	.00007	.00006	.00010
35	Glass and glass products .....	.00480	.00085	.00181	.00186	.00153	.00181	.00065	.00047	.00105	.00131	.00320
36	Stone and clay products .....	.00265	.00209	.00238	.00323	.00589	.01288	.00599	.00243	.01141	.00277	.00273
37	Primary iron and steel manufacturing .....	.00978	.00638	.01215	.00947	.06505	.06238	.02336	.00559	.02199	.02199	.06285
38	Primary nonferrous metals manufacturing .....	.00758	.00443	.00791	.00718	.01943	.01966	.01068	.00351	.01575	.01322	.03753
39	Metal containers .....	.00872	.00128	.00368	.00243	.00073	.00100	.00040	.00021	.00052	.00138	.00099
40	Heating, plumbing, and fabricated structural metal products .....	.00291	.00221	.00341	.00279	.01338	.02146	.00732	.00627	.01001	.02088	.06492
41	Screw machine products and stampings .....	.00290	.00170	.00262	.00323	.01174	.01572	.01041	.00085	.00543	.00621	.00740
42	Other fabricated metal products .....	.00868	.00624	.01068	.00950	.01692	.01252	.00957	.00656	.00903	.00924	.02937
43	Engines and turbines .....	.00202	.00171	.00633	.00667	.02607	.02143	.01465	.00079	.01518	.01618	.00165
44	Farm and garden machinery .....	.00857	.00864	.00407	.00537	.00034	.00037	.00020	.00015	.00024	.00027	.00039
45	Construction and mining machinery .....	.00095	.00093	.00114	.00114	.03014	.03452	.04427	.00499	.03555	.02210	.00795
46	Materials handling machinery and equipment .....	.00026	.00022	.00019	.00030	.00736	.00888	.00397	.00019	.01132	.00648	.00456
47	Metalworking machinery and equipment .....	.00285	.00180	.00124	.00127	.00345	.00377	.00202	.00042	.00042	.00174	.00262
48	Special industry machinery and equipment .....	.00071	.00070	.00057	.00125	.00041	.00062	.00026	.00011	.00029	.00282	.00052
49	General industrial machinery equipment .....	.00292	.00237	.00496	.00278	.02908	.02353	.02703	.00282	.01944	.01112	.00938
50	Miscellaneous machinery, except electrical .....	.00334	.00282	.00237	.00290	.00706	.00780	.01348	.00086	.00659	.00366	.00372
51	Office, computing, and accounting machines .....	.00056	.00038	.00059	.00093	.00063	.00076	.00038	.00025	.00054	.00059	.00107
52	Service industry machines .....	.00079	.00059	.00080	.00107	.00126	.00133	.00046	.00055	.00061	.00061	.01060
53	Electric industrial equipment and apparatus .....	.00210	.00166	.00232	.00219	.00808	.01103	.00733	.00338	.00029	.00681	.01034
54	Household appliances .....	.00024	.00017	.00058	.00030	.00031	.00031	.00014	.00023	.00025	.00023	.00265
55	Electric lighting and wiring equipment .....	.00106	.00075	.00094	.00111	.00160	.00159	.00166	.00097	.00117	.00109	.01578
56	Radio, TV, and communication equipment .....	.00071	.00047	.00084	.00064	.00087	.00092	.00042	.00042	.00058	.00064	.00833
57	Electronic components and accessories .....	.00155	.00111	.00205	.00194	.00230	.00281	.00139	.00068	.00195	.00184	.00478
58	Miscellaneous electrical machinery and supplies .....	.00153	.00143	.00096	.00190	.00178	.00259	.00068	.00023	.00133	.00092	.00182
59	Motor vehicles and equipment .....	.00669	.00583	.00607	.01072	.01260	.01393	.00252	.00086	.00224	.00211	.00414
60	Aircraft and parts .....	.00052	.00027	.00090	.00055	.00078	.00078	.00047	.00009	.00056	.00053	.00045
61	Other transportation equipment .....	.00091	.00044	.05135	.00139	.00126	.00197	.00032	.00015	.00046	.00047	.00100
62	Scientific and controlling instruments .....	.00067	.00044	.00193	.00075	.00133	.00238	.00054	.00032	.00067	.00091	.00371
63	Optical, ophthalmic, and photographic equipment .....	.00094	.00063	.00093	.00154	.00117	.00150	.00066	.00056	.00094	.00108	.00151
64	Miscellaneous manufacturing .....	.00117	.00077	.00095	.00192	.00251	.00141	.00069	.00041	.00152	.00122	.00250
65	Transportation and warehousing .....	.07564	.03573	.03210	.06514	.06072	.05617	.02421	.01036	.03945	.03710	.05170
66	Communications, except radio and TV .....	.01213	.00761	.00663	.00815	.01332	.01458	.00695	.00414	.01026	.01041	.01361
67	Radio and television broadcasting .....	.00005	.00004	.00006	.00006	.00008	.00008	.00004	.00003	.00005	.00006	.00014
68	Private electric, gas, water, and sanitary services .....	.07545	.05201	.02813	.05790	.30348	.20378	.05994	.03167	.13578	.23487	.04883
69	Wholesale and retail trade .....	.09308	.06365	.05172	.09828	.06956	.07681	.05222	.01389	.04882	.04635	.10998
70	Finance and insurance .....	.05501	.03848	.03664	.03117	.03286	.04621	.02122	.01384	.02741	.06463	.02198
71	Real estate and rental .....	.09647	.08858	.03322	.06109	.05592	.09272	.04989	.17971	.04093	.05160	.02921
72	Hotels; personal and repair services (except auto) .....	.00565	.00413	.00602	.01386	.00700	.00777	.00239	.00164	.01284	.00746	.00562
73	Business and professional services except medical .....	.06308	.04177	.07394	.07380	.06972	.08973	.04255	.03559	.05704	.06513	.15209
74	Eating and drinking places .....	.00760	.00525	.00727	.01381	.00847	.01032	.00509	.00407	.00777	.00859	.01091
75	Automobile repair and services .....	.01363	.01039	.01322	.01398	.04010	.04474	.00662	.00236	.00453	.00424	.01316
76	Amusements .....	.00237	.00182	.00330	.01560	.00164	.00207	.00102	.00083	.00153	.00171	.00334
77	Health, educational, and social services and nonprofit organizations .....	.01342	.00174	.00365	.00380	.00377	.00429	.00227	.00089	.00244	.00250	.00191
78	Federal Government enterprises .....	.00388	.00253	.00358	.00629	.00605	.00765	.00188	.00105	.00381	.00575	.00384
79	State and local government enterprises .....	.00104	.00075	.00088	.00155	.00150	.00171	.00036	.00015	.00037	.00093	.00066
80	Noncomparable imports .....	.00829	.00347	.00390	.00696	.00762	.00903	.00264	.00395	.00379	.00601	.00525
81	Scrap, used and secondhand goods .....	.00122	.00076	.00112	.00132	.0						

**Total Requirements, 1982**

delivery to final demand, at producers' prices]

Repair and maintenance construction	Ordnance and accessories	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mill	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Commodity number
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
.00145	.00130	.32262	.00589	.00757	.01613	.00409	.00657	.00525	.00439	.00435	.00226	.00379	.00245	.00252	.00286	.00281	1
.00145	.00107	.19901	.20176	.07987	.02293	.02287	.03404	.00653	.00450	.00848	.00229	.00397	.00245	.00219	.00317	.00680	2
.00428	.00086	.01280	.00077	.00095	.00117	.00388	.00121	.15716	.07193	.02017	.01030	.01620	.00703	.00324	.00172	.00138	3
.00380	.00057	.02224	.01173	.00542	.00240	.00227	.00270	.01984	.00973	.00348	.00183	.00280	.00148	.00100	.00110	.00117	4
.00127	.00165	.00064	.00020	.00069	.00090	.00034	.00047	.00070	.00061	.00118	.00378	.00054	.00056	.00033	.00351	.00156	5
.00220	.00454	.00149	.00042	.00169	.00222	.00086	.00111	.00116	.00094	.00184	.00339	.00167	.00163	.00107	.00820	.00439	6
.00556	.00702	.00771	.00365	.01463	.01426	.00747	.00953	.00735	.00859	.00801	.01122	.01961	.01207	.00643	.01705	.00271	7
.05378	.02561	.05289	.03100	.08513	.08929	.04866	.05411	.05885	.06039	.04539	.03925	.08830	.07488	.04307	.22167	.14386	8
.01395	.00094	.00166	.00098	.00153	.00174	.00079	.00103	.00122	.00135	.00154	.00157	.00561	.00283	.00141	.00441	.00245	9
.00079	.00066	.00138	.00072	.00384	.00522	.00165	.00236	.00113	.00088	.00126	.00119	.00288	.00201	.00136	.02515	.01073	10
1.01330	.01696	.02299	.01014	.02569	.02455	.01618	.01889	.02384	.03009	.02452	.02313	.02549	.02177	.01498	.03131	.02769	11
.00024	1.06608	.00014	.00003	.00007	.00007	.00007	.00006	.00113	.00056	.00023	.00024	.00016	.00009	.00011	.00009	.00007	12
.00432	.00470	1.27580	.00365	.00807	.01040	.00961	.01359	.01144	.01255	.01311	.00681	.01296	.00855	.00906	.01039	.00024	13
(*)	(*)	(*)	1.20627	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.00004	.00002	.00001	(*)	(*)	14
.00239	.00164	.00200	.00129	1.40852	.26321	.36173	.43611	.00201	.00220	.09698	.00981	.01823	.00823	.00590	.00171	.01403	15
.00428	.00078	.00149	.00068	.01458	1.08761	.00869	.07857	.00303	.00202	.02274	.02238	.00880	.00399	.00298	.00089	.00236	16
.00032	.00048	.00020	.00015	.00105	.00114	1.26365	.01987	.00039	.00051	.00103	.00029	.00034	.00027	.00024	.00017	.00027	17
.00082	.00047	.00085	.00042	.00059	.00239	.02329	1.03619	.00097	.00075	.00529	.00084	.00042	.00034	.00035	.00061	.00047	18
.03768	.00642	.00737	.00545	.00529	.00663	.00380	.00731	1.46009	.66583	1.8412	.09329	.13665	.05837	.02553	.00599	.00674	19
.00006	.00002	.00137	.00073	.00034	.00016	.00011	.00017	.00010	1.01854	.00011	.00005	.00005	.00003	.00003	.00004	.00006	20
.00024	.00035	.00002	.00001	.00002	.00002	.00002	.00003	.00006	.00008	1.00168	.00007	.00002	.00002	.00002	.00002	.00002	21
.00089	.00076	.00004	.00002	.00004	.00004	.00004	.00005	.00009	.00008	.00010	1.01109	.00008	.00005	.00004	.00004	.00004	22
.00964	.00748	.03448	.03376	.02093	.02780	.01484	.02127	.00944	.03937	.01790	.01620	1.20668	.50487	.21390	.01689	.03246	23
.00310	.00317	.02850	.04053	.01567	.01500	.01105	.01749	.00656	.06206	.01619	.01455	.02153	1.05070	.00853	.00845	.01366	24
.00346	.00568	.01556	.02042	.00626	.00697	.00701	.00468	.00748	.00682	.00586	.00594	.00590	.00550	1.10201	.00731	.00633	25
.02886	.02649	.05624	.03469	.18480	.25144	.07781	.11152	.05238	.03921	.05517	.04396	.11303	.08625	.06140	1.27452	.51145	26
.00979	.00894	.00865	.00408	.25023	.31831	.10434	1.29500	.00845	.01440	.03900	.01746	.04087	.02985	.01293	.01793	1.06069	27
.00110	.00076	.00930	.00181	.01045	.00872	.01095	.00646	.01107	.00132	.00215	.00119	.00582	.00309	.00175	.00687	.00986	28
.01672	.00122	.00189	.00062	.00222	.00291	.00124	.00155	.01033	.00571	.01514	.01197	.00254	.00356	.00153	.00468	.00527	29
.06916	.02154	.05415	.03533	.06077	.05564	.04155	.03931	.06490	.06614	.04284	.03555	.07947	.07511	.04167	.08106	.06943	30
.02214	.02007	.02636	.01002	.03147	.04258	.02326	.04526	.01715	.01345	.05103	.03167	.03597	.02181	.02248	.02009	.04331	31
.00004	.00004	.00005	.00002	.00009	.00009	.00542	.01410	.00016	.00010	.00584	.00063	.00005	.00003	.00017	.00004	.00004	32
.00007	.00009	.00018	.00004	.00032	.00015	.00025	.00021	.00039	.00024	.00016	.00009	.00011	.00010	.00011	.00009	.00010	33
.00357	.00163	.02114	.00053	.00694	.01093	.00251	.00416	.00400	.00255	.00870	.00289	.00175	.00132	.00101	.00289	.00259	34
.04345	.00552	.00259	.00120	.00300	.00326	.00188	.00235	.00582	.00708	.00851	.00736	.00466	.00323	.00216	.00364	.00346	35
.04124	.05717	.01810	.00409	.00854	.01036	.00541	.00691	.01992	.01803	.03618	.13228	.00925	.01233	.00620	.01574	.01127	36
.02929	.07280	.01865	.00311	.00712	.00876	.00536	.00599	.01232	.01005	.02210	.04428	.00879	.01501	.01036	.01794	.01154	37
.00149	.00051	.04206	.00059	.00229	.00293	.00132	.00173	.00177	.00143	.00195	.00144	.00168	.00169	.00103	.00922	.00594	38
.05261	.00230	.00218	.00127	.00255	.00263	.00156	.00190	.00668	.00518	.00284	.00268	.00289	.01195	.00152	.00410	.00304	39
.00607	.01255	.00478	.00099	.00193	.00229	.00153	.00187	.02036	.01179	.01293	.02472	.00366	.00289	.00192	.00243	.00216	40
.03014	.01630	.00997	.00623	.00739	.00422	.00521	.00521	.03314	.02376	.06169	.03468	.01571	.01450	.00805	.01466	.01066	41
.00140	.00343	.00154	.00069	.00188	.00199	.00112	.00131	.00219	.00198	.00146	.00192	.00204	.00167	.00104	.00284	.00227	42
.00021	.00022	.00309	.00177	.00093	.00053	.00042	.00051	.00084	.00073	.00040	.00039	.00031	.00023	.00023	.00029	.00033	43
.00527	.00076	.00084	.00042	.00136	.00144	.00073	.00089	.00093	.00096	.00089	.00109	.00166	.00117	.00067	.00327	.00220	44
.00353	.00026	.00026	.00017	.00172	.00064	.00063	.00085	.00114	.00070	.00049	.00040	.00044	.00030	.00022	.00068	.00046	45
.00209	.00783	.00205	.00104	.00214	.00214	.00134	.00174	.00554	.00431	.00353	.00574	.00204	.00250	.00126	.00166	.00184	46
.00041	.00034	.00154	.00051	.01265	.01830	.00632	.00741	.00151	.00388	.00269	.00388	.00345	.00388	.00594	.00584	.00431	47
.00546	.01090	.00303	.00143	.00356	.00423	.00216	.00241	.00554	.00408	.00335	.00875	.00380	.00302	.00195	.00632	.00670	48
.00304	.00945	.00300	.00208	.00474	.00300	.00345	.00345	.01036	.00890	.00565	.00538	.00442	.00455	.00255	.00320	.00379	49
.00055	.00188	.00068	.00040	.00081	.00082	.00068	.00069	.00053	.00083	.00080	.00104	.00056	.00048	.00081	.00066	.00070	50
.01180	.00043	.00067	.00028	.00069	.00069	.00049	.00054	.00118	.00101	.00066	.00082	.00064	.00058	.00045	.00107	.00087	51
.00965	.00546	.00195	.00083	.00266	.00316	.00160	.00188	.00330	.00300	.00269	.00559	.00226	.00225	.00172	.00359	.00280	52
.00441	.00016	.00019	.00009	.00031	.00025	.00032	.00028	.00024	.00034	.00021	.00019	.00021	.00017	.00016	.00021	.00022	53
.01476	.00083	.00077	.00035	.00090	.00084	.00062	.00072	.00136	.00133	.00097	.00110	.00090	.00073	.00059	.00092	.00088	54
.00625	.03441	.00066	.00033	.00056	.00072	.00067	.00064	.00071	.00091	.00084	.00081	.00063	.00064	.00083	.00053	.00067	55
.00335	.07685	.00176	.00100	.00299	.00236	.00233	.00245	.00170	.00248	.00277	.00256	.00183	.00158	.00280	.00228	.00233	56
.00124	.00078	.00074	.00045	.00048	.00040	.00037	.00035	.00088	.00071	.00047	.00044	.00050	.00048	.00041	.00040	.00038	57
.00358	.00240	.00379	.00244	.00303	.00260	.00277	.00222	.00488	.00510	.00324	.00305	.00339	.00362	.00304	.00220	.00242	58
.00040	.06985	.00051	.00018	.00039	.00050	.00027	.00045	.00059	.00089	.00043	.00039	.00057	.00071	.00046	.00054	.00051	59
.00071	.00046	.00140	.00033	.00061	.00077	.00061	.00058	.00865	.00469	.00162	.00110	.00160	.00134	.00072	.00084	.00080	60
.00394	.00258	.00082	.00056	.00136	.00134	.00095	.00141	.00107	.00195	.00178	.00141	.00150	.00149	.00438	.00174	.00142	61
.00100	.00307	.00116	.00079	.00157	.00156	.00136	.00137	.00112	.00170	.00165	.00149	.00111	.00106	.00077	.00133	.00135	62
.00206	.00136	.00106	.00059	.00150	.00146	.01353	.00476	.00112	.00167	.00328	.00113	.00100	.00099	.00445	.00086	.00096	63
.04891	.03541	.00759	.02562	.05235	.06942	.03709	.04325	.06769	.10798	.05535	.04875	.08276	.10879	.05433	.07647	.07301	64
.01205	.01434	.01257	.00633	.01193	.01393	.01445	.01290	.01199	.01099	.0136							

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

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing
		29	30	31	32	33	34	35	36	37	38
1	Livestock and livestock products .....	.00756	.00781	.00079	.00224	.12145	.02333	.00164	.00161	.00134	.00157
2	Other agricultural products .....	.00570	.00601	.00068	.00357	.07529	.01782	.00147	.00154	.00110	.00143
3	Forestry and fishery products .....	.00125	.00576	.00040	.00139	.00534	.00316	.00330	.00128	.00112	.00112
4	Agricultural, forestry, and fishery services .....	.00111	.00170	.00117	.00087	.00881	.00244	.00102	.00076	.00078	.00084
5	Iron and ferroalloy ores mining .....	.00056	.00214	.00025	.00088	.00049	.00069	.00152	.03410	.00129	.00129
6	Nonferrous metal ores mining .....	.00132	.00935	.00045	.00199	.00197	.00107	.00149	.00235	.00848	.00873
7	Coal mining .....	.00608	.01024	.00557	.01055	.01038	.00623	.01586	.02668	.06309	.01729
8	Crude petroleum and natural gas .....	.04644	.10988	.71471	.07124	.08120	.04154	.08006	.06626	.07437	.08513
9	Stone and clay mining and quarrying .....	.00160	.00797	.00218	.00187	.00188	.00097	.01682	.07990	.00552	.00208
10	Chemical and fertilizer mineral mining .....	.00220	.00755	.00073	.00415	.00646	.00222	.00390	.00313	.00358	.00188
11	New construction .....										
12	Repair and maintenance construction .....	.01466	.02295	.03900	.02093	.02534	.01607	.03095	.02788	.04891	.03185
13	Ordinance and accessories .....	.00008	.00014	.00004	.00016	.00010	.00008	.00012	.00383	.00104	.00013
14	Food and kindred products .....	.02063	.02978	.00266	.00643	.47942	.08866	.00579	.00478	.00559	.00559
15	Tobacco manufactures .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00223	.00268	.00047	.02277	.00184	.05878	.00192	.00534	.00104	.00230
17	Miscellaneous textile goods and floor coverings .....	.00182	.00090	.00055	.01922	.00116	.04459	.00111	.00076	.00077	.00118
18	Apparel .....	.00016	.00020	.00012	.00036	.00034	.00398	.00038	.00033	.00032	.00028
19	Miscellaneous fabricated textile products .....	.00035	.00041	.00018	.00054	.00074	.00085	.00040	.00032	.00040	.00040
20	Lumber and wood products, except containers .....	.00541	.00471	.00277	.00978	.00559	.01940	.02785	.00976	.00856	.00822
21	Wood containers .....	.00011	.00007	.00002	.00007	.00054	.00013	.00529	.00004	.00003	.00004
22	Household furniture .....	.00001	.00002	.00001	.00002	.00002	.00002	.00003	.00002	.00003	.00003
23	Other furniture and fixtures .....	.00003	.00004	.00004	.00004	.00004	.00004	.00004	.00005	.00018	.00005
24	Paper and allied products, except containers .....	.02871	.01727	.00490	.03223	.02269	.02055	.03940	.00218	.00827	.00974
25	Paperboard containers and boxes .....	.02804	.01089	.00238	.01815	.01974	.02036	.06662	.00623	.00313	.00515
26	Printing and publishing .....	.01358	.01382	.00288	.00545	.00976	.00742	.00749	.00467	.00518	.00542
27	Chemicals and selected chemical products .....	.09052	.33120	.02865	.18104	.21908	.09040	.15227	.06120	.07028	.08407
28	Plastics and synthetic materials .....	.01427	.12618	.00228	.20863	.00776	.04553	.00901	.01502	.00515	.03048
29	Drugs, cleaning and toilet preparations .....	1.10316	.01074	.00256	.00370	.04572	.01328	.00152	.00294	.00102	.00128
30	Paints and allied products .....	.00311	1.01373	.00109	.00293	.00190	.00139	.00395	.00377	.00215	.00310
31	Petroleum refining and related industries .....	.03907	.06299	1.11237	.04409	.06266	.03224	.05045	.05954	.05570	.07053
32	Rubber and miscellaneous plastics products .....	.03880	.01607	.00504	1.05420	.01671	.05338	.02015	.01175	.01116	.02545
33	Leather tanning and finishing .....	.00003	.00003	.00002	.00026	1.05941	.17858	.00007	.00004	.00003	.00003
34	Footwear and other leather products .....	.00008	.00010	.00005	.00015	.00053	1.04071	.00027	.00007	.00011	.00008
35	Glass and glass products .....	.01429	.00362	.00172	.00690	.00919	.00315	1.07329	.00309	.00107	.00213
36	Stone and clay products .....	.00304	.01213	.00331	.00497	.00600	.00331	.01619	1.12740	.01290	.01041
37	Primary iron and steel manufacturing .....	.01158	.02959	.00627	.01534	.01154	.00936	.01096	.00591	1.23372	.03640
38	Primary nonferrous metals manufacturing .....	.01067	.04158	.00404	.01208	.01170	.00820	.00911	.01595	.05290	1.53817
39	Metal containers .....	.01446	.06236	.00130	.00224	.01779	.00392	.00161	.00106	.00094	.00117
40	Heating, plumbing, and fabricated structural metal products .....	.00216	.00255	.00508	.00254	.00242	.00169	.00337	.00336	.00457	.00445
41	Screw machine products and stampings .....	.00642	.00411	.00104	.00642	.00302	.00552	.00539	.00383	.00934	.00851
42	Other fabricated metal products .....	.01296	.01467	.00768	.01548	.00807	.01321	.00722	.01830	.01807	.01873
43	Engines and turbines .....	.00104	.00184	.00115	.00196	.00166	.00109	.00240	.00346	.00459	.00394
44	Farm and garden machinery .....	.00041	.00032	.00018	.00024	.00134	.00047	.00026	.00024	.00027	.00027
45	Construction and mining machinery .....	.00074	.00194	.00388	.00116	.00128	.00069	.00195	.00826	.00469	.00406
46	Materials handling machinery and equipment .....	.00026	.00047	.00023	.00037	.00033	.00036	.00050	.00130	.00117	.00148
47	Metalworking machinery and equipment .....	.00136	.00200	.00073	.00315	.00171	.00241	.00919	.00229	.00914	.02164
48	Special industry machinery and equipment .....	.00102	.00199	.00025	.00376	.00161	.00277	.00185	.00056	.00054	.00068
49	General industrial machinery equipment .....	.00563	.00428	.00270	.00372	.00298	.00211	.00361	.00554	.02217	.02211
50	Miscellaneous machinery, except electrical .....	.00249	.00309	.00139	.00562	.00341	.00480	.00781	.00501	.00808	.00718
51	Office, computing, and accounting machines .....	.00099	.00063	.00035	.00056	.00080	.00078	.00063	.00055	.00119	.00074
52	Service industry machines .....	.00045	.00065	.00058	.00059	.00074	.00051	.00069	.00059	.00100	.00077
53	Electric industrial equipment and apparatus .....	.00160	.00261	.00302	.00234	.00201	.00159	.00500	.00331	.01449	.01311
54	Household appliances .....	.00016	.00019	.00022	.00017	.00035	.00042	.00027	.00021	.00031	.00024
55	Electric lighting and wiring equipment .....	.00057	.00073	.00097	.00184	.00097	.00066	.00134	.00181	.00158	.00142
56	Radio, TV, and communication equipment .....	.00064	.00070	.00049	.00082	.00072	.00065	.00128	.00082	.00100	.00107
57	Electronic components and accessories .....	.00269	.00214	.00102	.00280	.00217	.00245	.00248	.00202	.00301	.00432
58	Miscellaneous electrical machinery and supplies .....	.00049	.00038	.00028	.00056	.00052	.00033	.00050	.00051	.00067	.00100
59	Motor vehicles and equipment .....	.00217	.00270	.00157	.00282	.00316	.00226	.00347	.00316	.00431	.00475
60	Aircraft and parts .....	.00030	.00055	.00040	.00050	.00052	.00036	.00058	.00107	.00074	.00081
61	Other transportation equipment .....	.00058	.00109	.00058	.00070	.00104	.00071	.00098	.00118	.00102	.00119
62	Scientific and controlling instruments .....	.00134	.00159	.00052	.00147	.00111	.00099	.00250	.00113	.00142	.00136
63	Optical, ophthalmic, and photographic equipment .....	.00181	.00143	.00069	.00119	.00129	.00157	.00137	.00126	.00134	.00135
64	Miscellaneous manufacturing .....	.00132	.00150	.00054	.00113	.00175	.01653	.00106	.00166	.00116	.00117
65	Transportation and warehousing .....	.04160	.08185	.06043	.06441	.07855	.05082	.07732	.12251	.08608	.11037
66	Communications, except radio and TV .....	.01359	.01373	.00641	.01815	.01418	.01259	.03043	.01331	.01697	.01745
67	Radio and television broadcasting .....	.00014	.00007	.00004	.00006	.00008	.00009	.00007	.00006	.00009	.00007
68	Private electric, gas, water, and sanitary services .....	.06162	.10008	.06965	.10841	.10879	.06551	.19932	.13800	.19652	.19483
69	Wholesale and retail trade .....	.08534	.09295	.04000	.08835	.14055	.09691	.08114	.05843	.10327	.11667
70	Finance and insurance .....	.02578	.02513	.02349	.02257	.03119	.03848	.02617	.02767	.02485	.03331
71	Real estate and rental .....	.02872	.03695	.13617	.03093	.04279	.02936	.03233	.02909	.03214	.03981
72	Hotels, personal and repair services (except auto) .....	.00633	.00599	.00245	.00524	.02350	.01451	.00572	.00551	.00542	.00693
73	Business and professional services except medical .....	.16191	.08505	.04601	.07159	.09063	.10144	.07945	.06926	.10666	.08048
74	Eating and drinking places .....	.01104	.01269	.00542	.01040	.01196	.01594	.01119	.01090	.01015	.01178
75	Automobile repair and services .....	.00575	.00718	.00352	.00607	.00817	.00664	.00933	.00719	.00772	.01207
76	Amusements .....	.00355	.00207	.00109	.00180	.00227	.00237	.00201	.00167	.00243	.00202
77	Health, educational, and social services and nonprofit organizations .....	.00632	.00321	.00155	.00398	.00365	.00255	.00243	.00243	.00193	.00279
78	Federal Government enterprises .....	.00583	.00654	.00210	.00434	.00689	.01527	.00551	.00471	.00557	.00531
79	State and local government enterprises .....	.00129	.00090	.00030	.00087	.00632	.00153	.00102	.00067	.00115	.00112
80	Noncomparable imports .....	.01275	.01593	.00654	.02183	.01332	.00781	.01083	.00914	.00841	.03767
81	Scrap, used and secondhand goods .....	.00151	.00365	.00056	.00192	.00173	.00133	.00956	.00184	.03575	.08659
	<b>Total commodity output multiplier .....</b>	<b>2.05560</b>	<b>2.53067</b>	<b>2.39298</b>	<b>2.29425</b>	<b>2.98050</b>	<b>2.39375</b>	<b>2.31205</b>	<b>2.16281</b>	<b>2.48455</b>	<b>2.95965</b>

\* Less than 0.000005.

SURVEY OF CURRENT BUSINESS

Total Requirements, 1982—Continued

of delivery to final demand, at producers' prices)

Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Commodity number
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
.00168	.00158	.00136	.00151	.00121	.00153	.00121	.00143	.00140	.00165	.00154	.00164	.00193	.00159	.00152	.00167	1
.00137	.00127	.00123	.00128	.00100	.00132	.00097	.00113	.00112	.00138	.00128	.00127	.00155	.00138	.00123	.00170	2
.00117	.00155	.00102	.00149	.00066	.00125	.00074	.00103	.00069	.00113	.00109	.00067	.00073	.00136	.00095	.00229	3
.00073	.00077	.00066	.00073	.00056	.00078	.00053	.00060	.00055	.00068	.00063	.00062	.00067	.00069	.00066	.00082	4
.00826	.00805	.00856	.00602	.00592	.00471	.00552	.00440	.00369	.00407	.00471	.00256	.00087	.00321	.00245	.00378	5
.02228	.01066	.00641	.00726	.00709	.00332	.00290	.00373	.00335	.00594	.00604	.00414	.00292	.00672	.00704	.00548	6
.02192	.01947	.02055	.01663	.01540	.01278	.01386	.01165	.01081	.01185	.01111	.00877	.00560	.01080	.00964	.01272	7
.05713	.04822	.04246	.04729	.03583	.03271	.03087	.03192	.03396	.03875	.03632	.02951	.03170	.03710	.03878	.04006	8
.00226	.00233	.00222	.00226	.00204	.00163	.00180	.00175	.00198	.00190	.00200	.00226	.00110	.00179	.00179	.00228	9
.00166	.00135	.00140	.00167	.00095	.00092	.00089	.00081	.00084	.00122	.00092	.00061	.00071	.00309	.00088	.00137	10
.02810	.03623	.03223	.03184	.02419	.02526	.02565	.02710	.01961	.02471	.02383	.02385	.01751	.02321	.02326	.02285	11
.00029	.00034	.00033	.00026	.00033	.00021	.00023	.00020	.00033	.00025	.00025	.00029	.00009	.00018	.00023	.00021	13
.00559	.00569	.00484	.00541	.00436	.00546	.00436	.00517	.00508	.00596	.00533	.00585	.00699	.00571	.00549	.00589	14
.00001	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
.00132	.00137	.00303	.00169	.00156	.00207	.00125	.00138	.00145	.00185	.00276	.00163	.00214	.00190	.00154	.00618	16
.00074	.00100	.00124	.00111	.00100	.00172	.00110	.00137	.00085	.00137	.00659	.00342	.00150	.00126	.00113	.00156	17
.00028	.00025	.00033	.00037	.00034	.00023	.00019	.00024	.00026	.00024	.00026	.00023	.00031	.00026	.00029	.00029	18
.00032	.00053	.00443	.00037	.00083	.00090	.00037	.00042	.00067	.00035	.00037	.00033	.00039	.00041	.00045	.00047	19
.00812	.01227	.00758	.01169	.00460	.00975	.00530	.00787	.00460	.00845	.00837	.00033	.00433	.01057	.00682	.01895	20
.00003	.00008	.00004	.00005	.00003	.00004	.00003	.00003	.00003	.00005	.00004	.00003	.00005	.00166	.00004	.00031	21
.00002	.00003	.00002	.00003	.00005	.00002	.00002	.00003	.00002	.00004	.00003	.00002	.00024	.00003	.00012	.00078	22
.00007	.00010	.00011	.00008	.00015	.00008	.00011	.00465	.00006	.00008	.00009	.00007	.00004	.00007	.00007	.00025	23
.01508	.01060	.01230	.01309	.00849	.00991	.00701	.00819	.00651	.01006	.01130	.01026	.01795	.01295	.01596	.02186	24
.00679	.00707	.00785	.01129	.00421	.00585	.00272	.00357	.00580	.00514	.00695	.00747	.01116	.01020	.00751	.02529	25
.02873	.00513	.00509	.00527	.00466	.00498	.00441	.00519	.00478	.00580	.00515	.00616	.00821	.00532	.00591	.00567	26
.05379	.03930	.04133	.06171	.02685	.02835	.02522	.02401	.02809	.04496	.00731	.01939	.02983	.03567	.03303	.04904	27
.01521	.00864	.01030	.01377	.00696	.01297	.00768	.00743	.00841	.00979	.00972	.00556	.01763	.01503	.01246	.03115	28
.00204	.00156	.00154	.00154	.00072	.00086	.00068	.00072	.00076	.00088	.00082	.00092	.00098	.00097	.00089	.00127	29
.02223	.00575	.00514	.00763	.00226	.00515	.00290	.00322	.00295	.00170	.00190	.00179	.00347	.00526	.00361	.00918	30
.04692	.04343	.03338	.03883	.03026	.02778	.02577	.02913	.03202	.03375	.03216	.02765	.03055	.02386	.03654	.03216	31
.01274	.01894	.01420	.02314	.01615	.05087	.02836	.02241	.01419	.02508	.02057	.00962	.05841	.02386	.02476	.03843	32
.00003	.00004	.00010	.00008	.00003	.00004	.00003	.00003	.00007	.00004	.00004	.00003	.00005	.00004	.00003	.00006	33
.00008	.00010	.00008	.00009	.00007	.00008	.00007	.00007	.00007	.00008	.00007	.00009	.00014	.00009	.00009	.00011	34
.00123	.00818	.00277	.00358	.00121	.00118	.00103	.00128	.00112	.00377	.00120	.00096	.00270	.00296	.00232	.01591	35
.00763	.00857	.00894	.00938	.01297	.00858	.01032	.01103	.01585	.01240	.01352	.02154	.00747	.01212	.01379	.01483	36
.29403	.28444	.30197	.19485	.21166	.16702	.19729	.15653	.12978	.14292	.16759	.08998	.02803	.11210	.09515	.13160	37
.36454	.14262	.08605	.10589	.10359	.04041	.03273	.04956	.04503	.08859	.08932	.06273	.04504	.10509	.11336	.07983	38
1.07037	.00099	.00121	.00150	.00060	.00087	.00062	.00067	.00066	.00064	.00056	.00082	.00077	.00095	.00078	.00132	39
.00292	1.04234	.00349	.00615	.01416	.00477	.02737	.03774	.01279	.01844	.01170	.00882	.01117	.01674	.00778	.00357	40
.00556	.04520	1.02066	.01519	.01908	.02629	.00978	.02083	.01128	.01400	.01669	.01127	.01266	.02723	.01727	.02726	41
.02526	.04572	.03093	1.04652	.03490	.02013	.03415	.03295	.01612	.02526	.02482	.03078	.02201	.02487	.01972	.04391	42
.00255	.00275	.00307	.00423	1.08764	.06972	.02398	.01528	.00278	.01501	.00956	.00727	.00133	.00766	.00955	.00250	43
.00032	.00035	.00035	.00035	.00087	1.10438	.00087	.00045	.00024	.00034	.00026	.00034	.00022	.00041	.00026	.00034	44
.00234	.00204	.00178	.00192	.00173	.00230	1.05327	.00304	.00113	.00144	.00207	.00112	.00067	.00135	.00120	.00128	45
.00071	.00060	.00055	.00050	.00042	.00042	.00061	1.04471	.00037	.00123	.00064	.00024	.00048	.00039	.00040	.00040	46
.00933	.00997	.01793	.01109	.01410	.00919	.01142	.01007	1.04425	.01776	.01520	.02853	.00386	.01332	.00726	.00729	47
.00060	.00045	.00056	.00060	.00034	.00054	.00037	.00045	.00045	1.02246	.00055	.00041	.00052	.00049	.00043	.00067	48
.01124	.02049	.01123	.01109	.03272	.04809	.04158	.05780	.01881	.04447	1.07642	.02642	.00432	.02805	.01001	.01635	49
.00658	.00953	.04864	.00997	.03443	.01947	.01947	.02272	.03443	.02775	.03260	1.07323	.00487	.02331	.00778	.00755	50
.00078	.00080	.00083	.00081	.00093	.00082	.00075	.00096	.00076	.00136	.00216	.00091	1.20942	.00112	.00480	.00120	51
.00064	.00331	.00130	.00089	.00117	.00080	.00073	.00084	.00070	.00121	.00093	.00068	.00054	1.08509	.00080	.03512	52
.00727	.01361	.00841	.00921	.05097	.01249	.01666	.05526	.03459	.07163	.05019	.00945	.04201	.09049	1.08832	.06982	53
.00021	.00028	.00025	.00022	.00020	.00020	.00018	.00020	.00016	.00021	.00019	.00019	.00023	.00022	.00023	1.00253	54
.00100	.00127	.00169	.00110	.00115	.00163	.00084	.00109	.00125	.00114	.00101	.00087	.00532	.00861	.00463	.01570	55
.00081	.00118	.00116	.00135	.00125	.00079	.00076	.00095	.00078	.00102	.00089	.00078	.00163	.00090	.00169	.00271	56
.00256	.00329	.00295	.00373	.00712	.00368	.00284	.00632	.00451	.01199	.00332	.14389	.00332	.00797	.06348	.01524	57
.00056	.00058	.00112	.00072	.01319	.00957	.00137	.00436	.00089	.00073	.00071	.00338	.00195	.00070	.00109	.00080	58
.00345	.00416	.01296	.00409	.01199	.01062	.00433	.00429	.00523	.00288	.00330	.00385	.00261	.00308	.00297	.00283	59
.00059	.00071	.00063	.00071	.01752	.00182	.00081	.00112	.00068	.00172	.00153	.00361	.00050	.00079	.00285	.00061	60
.00088	.00080	.00070	.00073	.00153	.00130	.00057	.00071	.00050	.00070	.00065	.00055	.00057	.00078	.00197	.00078	61
.00121	.00235	.00127	.00128	.00139	.00108	.00089	.00133	.00104	.00118	.00199	.00109	.00151	.01496	.00129	.02882	62
.00137	.00138	.00130	.00133	.00142	.00134	.00121	.00144	.00135	.00179	.00145	.00175	.00186	.00138	.00156	.00139	63
.00112	.00156	.00117	.00130	.00103	.00103	.00115	.00147	.00114	.00118	.00107	.00122	.00220	.00255	.00161	.00463	64
.07921	.06307	.05586	.05632	.04802	.05128	.04072	.03939	.03797	.04758	.04696	.03705	.04669	.05036	.04929	.05415	65
.01471	.02278	.02181	.03079	.01635	.01398	.01461	.01802	.01506	.01938	.01704	.01345	.02180	.01784	.02962	.01733	66
.00008	.00024	.00009	.00007	.00007	.00008	.00008	.00008	.00007	.00008	.00008	.00010	.00007	.00008	.00008	.00008	67
.13284	.10264	.10489	.09877	.08628	.07388	.07356	.06778	.06615	.07769	.08129	.06236	.05515	.07663	.07492	.08659	68
.12134	.11657	.09442	.10027	.10142	.13660	.09342	.10617	.07293	.11442	.10338	.13696	.13696	.13159	.10641	.13206	69
.02640	.02527	.02644	.02684	.02363	.02036	.01893	.02134	.02026	.02833	.02376	.03330	.03538	.			

Table 4.—Commodity-by-Commodity

[Total requirements, direct and indirect, per dollar

Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing
		55	56	57	58	59	60	61	62	63	64
1	Livestock and livestock products .....	.00162	.00136	.00190	.00231	.00160	.00118	.00165	.00256	.00139	.00380
2	Other agricultural products .....	.00149	.00119	.00168	.00193	.00198	.00120	.00180	.00312	.00127	.00527
3	Forestry and fishery products .....	.00129	.00086	.00086	.00096	.00059	.00059	.00067	.00151	.00073	.00438
4	Agricultural, forestry, and fishery services .....	.00072	.00060	.00076	.00084	.00070	.00052	.00141	.00081	.00057	.00148
5	Iron and ferroalloy ores mining .....	.00260	.00070	.00112	.00179	.00383	.00134	.00297	.00130	.00060	.00122
6	Nonferrous metal ores mining .....	.00714	.00361	.00806	.02133	.00430	.00417	.00385	.00604	.00345	.00671
7	Coal mining .....	.01023	.00521	.00848	.00934	.01212	.00599	.00966	.00705	.00612	.00799
8	Crude petroleum and natural gas .....	.04218	.02585	.04604	.05484	.04061	.02530	.03760	.03523	.03397	.04738
9	Stone and clay mining and quarrying .....	.00203	.00077	.00142	.00140	.00191	.00096	.00220	.00126	.00121	.00307
10	Chemical and fertilizer mineral mining .....	.00135	.00077	.00186	.00238	.00116	.00051	.00092	.00101	.00148	.00158
11	New construction .....										
12	Repair and maintenance construction .....	.02128	.01569	.02379	.02410	.02387	.01610	.04001	.01657	.01424	.02170
13	Ordnance and accessories .....	.00013	.00070	.00011	.00011	.00020	.00094	.00022	.00013	.00014	.00014
14	Food and kindred products .....	.00581	.00484	.00678	.00836	.00536	.00415	.00517	.00868	.00492	.01264
15	Tobacco manufactures .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.00001
16	Broad and narrow fabrics, yarn and thread mills .....	.00350	.00265	.00329	.00240	.01191	.00580	.00813	.02334	.00272	.02527
17	Miscellaneous textile goods and floor coverings .....	.00108	.00145	.00219	.00174	.00592	.00132	.01079	.00900	.00220	.00822
18	Apparel .....	.00050	.00051	.00073	.00032	.00066	.00037	.00047	.00060	.00020	.00088
19	Miscellaneous fabricated textile products .....	.00048	.00039	.00043	.00056	.02061	.00350	.00894	.00041	.00030	.00507
20	Lumber and wood products, except containers .....	.00977	.00629	.00549	.00567	.00703	.00410	.05728	.01148	.00479	.04595
21	Wood containers .....	.00025	.00004	.00009	.00006	.00011	.00002	.00007	.00006	.00007	.00016
22	Household furniture .....	.00005	.00669	.00130	.00016	.00010	.00032	.00472	.00027	.00013	.00021
23	Other furniture and fixtures .....	.00005	.00010	.00004	.00005	.00139	.00457	.00258	.00012	.00003	.00088
24	Paper and allied products, except containers .....	.01741	.01205	.01575	.01546	.01131	.00726	.01039	.02417	.02478	.03704
25	Paperboard containers and boxes .....	.02099	.00578	.00836	.01208	.00567	.00248	.00434	.01182	.00837	.02188
26	Printing and publishing .....	.00571	.00906	.00654	.00781	.00494	.00529	.00456	.00558	.00120	.00120
27	Chemicals and selected chemical products .....	.05576	.03422	.08644	.11200	.03990	.01946	.03303	.04559	.06882	.07067
28	Plastics and synthetic materials .....	.03170	.01814	.02820	.02369	.02332	.00888	.01614	.02511	.02373	.04460
29	Drugs, cleaning and toilet preparations .....	.00116	.00088	.00135	.00155	.00126	.00087	.00102	.00368	.00141	.00193
30	Paints and allied products .....	.00522	.00217	.00186	.00418	.00758	.00220	.00867	.00272	.00123	.00772
31	Petroleum refining and related industries .....	.03515	.02112	.03456	.04387	.03662	.02365	.03686	.03171	.02782	.04263
32	Rubber and miscellaneous plastics products .....	.02480	.05073	.09257	.04771	.06245	.02180	.02322	.03587	.04540	.04533
33	Leather tanning and finishing .....	.00004	.00008	.00006	.00005	.00032	.00008	.00018	.00004	.00004	.00224
34	Footwear and other leather products .....	.00010	.00010	.00012	.00013	.00011	.00011	.00009	.00035	.00007	.00212
35	Glass and glass products .....	.04480	.00420	.01269	.00430	.00787	.00158	.00698	.00509	.00927	.00250
36	Stone and clay products .....	.00716	.00339	.00608	.00576	.01156	.00630	.01553	.00759	.00628	.00971
37	Primary iron and steel manufacturing .....	.08500	.02156	.03161	.04553	.13396	.04635	.10357	.00423	.01527	.03715
38	Primary nonferrous metals manufacturing .....	.10632	.05779	.13035	.13580	.05705	.06672	.05404	.07856	.05150	.10689
39	Metal containers .....	.00109	.00067	.00110	.00150	.00112	.00053	.00107	.00175	.00088	.00162
40	Heating, plumbing, and fabricated structural metal products .....	.00265	.00591	.00550	.00346	.00487	.00309	.03671	.00502	.00189	.00434
41	Screw machine products and stampings .....	.03729	.01380	.01879	.02224	.07788	.01581	.01804	.02365	.01504	.01001
42	Other fabricated metal products .....	.02582	.02288	.04867	.03861	.03288	.01660	.03006	.02157	.01724	.02010
43	Engines and turbines .....	.00193	.00101	.00160	.00232	.02454	.00118	.03012	.00140	.00099	.00187
44	Farm and garden machinery .....	.00067	.00021	.00024	.00031	.00031	.00022	.00034	.00029	.00021	.00035
45	Construction and mining machinery .....	.00116	.00060	.00108	.00163	.00124	.00069	.01103	.00087	.00071	.00108
46	Materials handling machinery and equipment .....	.00037	.00025	.00037	.00050	.00057	.00025	.00059	.00031	.00023	.00042
47	Metalworking machinery and equipment .....	.00704	.00386	.00672	.00707	.01223	.01660	.00683	.00574	.00327	.00629
48	Special industry machinery and equipment .....	.00063	.00050	.00087	.00090	.00072	.00036	.00080	.00086	.00074	.00119
49	General industrial machinery equipment .....	.00591	.00367	.00450	.00946	.01628	.00888	.03212	.00576	.00327	.00471
50	Miscellaneous machinery, except electrical .....	.00799	.00475	.00748	.00965	.02895	.01621	.01240	.00778	.00490	.00952
51	Office, computing, and accounting machines .....	.00102	.01035	.01448	.00224	.00087	.00156	.00074	.00554	.00244	.00174
52	Service industry machines .....	.00084	.00058	.00060	.00157	.02508	.00044	.00607	.00054	.00039	.00179
53	Electric industrial equipment and apparatus .....	.03060	.01005	.01193	.02615	.01084	.00575	.01864	.01790	.00689	.00515
54	Household appliances .....	.00022	.00018	.00022	.00022	.00021	.00023	.00864	.00015	.00014	.00020
55	Electric lighting and wiring equipment .....	1.03229	.00463	.00258	.00704	.00565	.00077	.00608	.00262	.00206	.00130
56	Radio, TV, and communication equipment .....	.00113	1.04681	.00279	.00124	.00597	.01787	.00468	.00135	.00100	.00161
57	Electronic components and accessories .....	.01573	.20853	1.23607	.10876	.00993	.04655	.00517	.05499	.10253	.02791
58	Miscellaneous electrical machinery and supplies .....	.01020	.00121	.00084	1.07639	.01764	.00279	.00435	.00171	.00138	.00074
59	Motor vehicles and equipment .....	.00305	.00208	.00257	.00761	1.29567	.00193	.03323	.00414	.00214	.00327
60	Aircraft and parts .....	.00054	.00300	.00063	.00073	.00223	1.21265	.00360	.00102	.00050	.00046
61	Other transportation equipment .....	.00068	.00043	.00062	.00079	.00092	.00051	1.02927	.00051	.00047	.00106
62	Scientific and controlling instruments .....	.00153	.00279	.00144	.00163	.00591	.02785	.00532	1.04811	.00162	.00143
63	Optical, ophthalmic, and photographic equipment .....	.00160	.00228	.00194	.00223	.00129	.00587	.00120	.00178	1.02125	.00210
64	Miscellaneous manufacturing .....	.00333	.00158	.00165	.00149	.00136	.00136	.00228	.00216	.00113	1.05190
65	Transportation and warehousing .....	.05518	.03268	.05342	.06458	.06277	.04034	.04562	.03533	.03806	.05684
66	Communications, except radio and TV .....	.01840	.01993	.02475	.02102	.01421	.01487	.01456	.01759	.01476	.01404
67	Radio and television broadcasting .....	.00007	.00007	.00008	.00010	.00007	.00008	.00007	.00007	.00007	.00011
68	Private electric, gas, water, and sanitary services .....	.08400	.05292	.08876	.09012	.07907	.05100	.06527	.06293	.05270	.07467
69	Wholesale and retail trade .....	.11534	.09895	.13126	.12777	.14703	.05753	.10201	.08376	.07199	.11367
70	Finance and insurance .....	.03352	.02305	.03723	.04008	.02318	.03622	.02216	.02210	.03009	.03158
71	Real estate and rental .....	.02754	.02421	.03187	.03323	.02457	.01968	.03714	.02579	.02153	.03228
72	Hotels; personal and repair services (except auto) .....	.01126	.01098	.01062	.01499	.00648	.01673	.00538	.00568	.00594	.00674
73	Business and professional services except medical .....	.08110	.08293	.08706	.11805	.08373	.08981	.07187	.08214	.08612	.12229
74	Eating and drinking places .....	.01286	.01100	.01493	.01933	.01123	.00932	.01050	.01340	.01049	.02135
75	Automobile repair and services .....	.00674	.00437	.00621	.00966	.01840	.00412	.00755	.01163	.00594	.00866
76	Amusements .....	.00204	.00218	.00267	.00402	.00216	.00236	.00233	.00268	.00252	.00309
77	Health, educational, and social services and nonprofit organizations .....	.00234	.00320	.00453	.00271	.00309	.00319	.00199	.00475	.00661	.00595
78	Federal Government enterprises .....	.00534	.00631	.00533	.00512	.00614	.00577	.00461	.00550	.00404	.00852
79	State and local government enterprises .....	.00087	.00067	.00102	.00098	.00110	.00062	.00072	.00077	.00060	.00086
80	Noncomparable imports .....	.00809	.01022	.01383	.01186	.01225	.00690	.00585	.00841	.01541	.03408
81	Scrap, used and secondhand goods .....	.00936	.00411	.00860	.01584	.00989	.00519	.00638	.00611	.00379	.00762
	<b>Total commodity output multiplier .....</b>	<b>2.22383</b>	<b>2.06195</b>	<b>2.47043</b>	<b>2.51583</b>	<b>2.64078</b>	<b>2.06629</b>	<b>2.23882</b>	<b>2.05721</b>	<b>1.93410</b>	<b>2.35210</b>

\* Less than 0.000005.



Total Requirements, 1982—Continued

of delivery to final demand, at producers' prices]

Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Private electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels; personal and repair services (exc. auto)	Business and professional services except medical	Eating and drinking places	Auto-mobile repair and services	Amusements	Health, educational, and social services and nonprofit organizations	Federal Government enterprises	State and local government enterprises	Noncomparable imports	Scrap, used, and secondhand goods	Commodity number
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	
.00240	.00082	.00392	.00078	.00309	.00329	.00124	.00194	.00179	.09246	.00146	.00792	.00624	.00325	.00152			1
.00191	.00063	.00290	.00068	.00221	.00237	.00140	.00206	.00134	.06370	.00123	.00586	.00456	.00240	.00149			2
.00067	.00038	.00071	.00066	.00089	.00069	.00041	.00067	.00079	.01216	.00061	.00061	.00124	.00098	.00165			3
.00114	.00049	.00414	.00115	.00111	.00089	.00078	.00271	.00089	.00826	.00067	.01067	.00238	.00054	.00427			4
.00032	.00017	.00012	.00033	.00011	.00028	.00010	.00023	.00015	.00027	.00129	.00014	.00020	.00009	.00069			5
.00055	.00044	.00045	.00054	.00022	.00021	.00019	.00063	.00041	.00060	.00162	.00051	.00048	.00015	.00126			6
.00396	.00181	.00225	.00173	.00368	.00171	.00093	.00622	.00220	.00582	.00569	.00405	.00346	.00156	.02883			7
.12609	.01089	.01383	.26237	.02888	.01552	.00812	.03327	.01780	.03319	.03540	.02066	.02510	.01623	.10734			8
.00114	.00073	.00050	.00156	.00045	.00039	.00087	.00095	.00046	.00087	.00132	.00055	.00092	.00024	.00508			9
.00034	.00015	.00023	.00043	.00017	.00015	.00013	.00043	.00031	.00057	.00054	.00028	.00060	.00009	.00203			10
.04965	.04561	.02499	.08613	.01678	.01715	.05928	.02847	.01193	.01988	.01805	.02523	.04314	.00971	.31769			11
.00006	.00005	.00004	.00005	.00005	.00005	.00002	.00006	.00029	.00013	.00010	.00006	.00005	.00002	.00013			12
.00815	.00293	.01217	.00262	.01151	.01221	.00310	.00633	.00629	.34937	.00525	.02217	.02165	.01201	.00466			13
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)			14
.00132	.00057	.00140	.00074	.00081	.00087	.00031	.00882	.00119	.00134	.00259	.00315	.00224	.00136	.00154			15
.00109	.00039	.00051	.00064	.00050	.00040	.00035	.00197	.00063	.00105	.00141	.00081	.00099	.00043	.00167			16
.00057	.00045	.00061	.00021	.00020	.00013	.00006	.00458	.00024	.00015	.00068	.00157	.00106	.00012	.00108			17
.00116	.00016	.00073	.00027	.00048	.00080	.00016	.000793	.00036	.00060	.00343	.00169	.00177	.00178	.00057			18
.00382	.00254	.00363	.00522	.00500	.00251	.00262	.00437	.00526	.00477	.00352	.00732	.00483	.00105	.01338			19
.00003	.00001	.00003	.00002	.00017	.00002	.00001	.00005	.00002	.00043	.00009	.00005	.00005	.00002	.00004			20
.00007	.00023	.00008	.00003	.00001	.00002	.00002	.00007	.00003	.00002	.00003	.00006	.00002	.00001	.00009			21
.00011	.00005	.00004	.00009	.00004	.00003	.00006	.00006	.00004	.00004	.00023	.00006	.00006	.00003	.00029			22
.00623	.00453	.00719	.00441	.01767	.01316	.00311	.01325	.03363	.02241	.00785	.01032	.01941	.00372	.00890			23
.00182	.00100	.00129	.00107	.00425	.00125	.00052	.00281	.00179	.01527	.00322	.00157	.00265	.00100	.00215			24
.00632	.00698	.00698	.00348	.00756	.02479	.00301	.00996	.02257	.00816	.00395	.00732	.02952	.00769	.00556			25
.01334	.00622	.01024	.01677	.00674	.00619	.00551	.01836	.01389	.02339	.01922	.01217	.02783	.00369	.00562			26
.00364	.00231	.00265	.00243	.00210	.00181	.00106	.00754	.00362	.00538	.00728	.00312	.00542	.00127	.00524			27
.00093	.00054	.00081	.00070	.00093	.00078	.00033	.01311	.00225	.00439	.00104	.00123	.01671	.00090	.00143			28
.00169	.00179	.00068	.00172	.00065	.00055	.00105	.00107	.00097	.00097	.00160	.00082	.00115	.00043	.00566			29
.18450	.01094	.01330	.07645	.03309	.01837	.00937	.03009	.01980	.03114	.04026	.01781	.02470	.02043	.06493			30
.00144	.00655	.00715	.00681	.00549	.00427	.00280	.01838	.00964	.01799	.01542	.00788	.01808	.00277	.01209			31
.00004	.00002	.00007	.00002	.00004	.00005	.00001	.00075	.00004	.00007	.00008	.00015	.00007	.00008	.00004			32
.00010	.00006	.00030	.00005	.00017	.00019	.00003	.00343	.00014	.00028	.00014	.00063	.00016	.00022	.00009			33
.00124	.00067	.00104	.00102	.00090	.00175	.00038	.00469	.00077	.00886	.00886	.00095	.00262	.00057	.00206			34
.00350	.00234	.00156	.00154	.00117	.00117	.00275	.00527	.00145	.00208	.00913	.00151	.00294	.00078	.01954			35
.01019	.00529	.00344	.00989	.00320	.00236	.00246	.00632	.00421	.00751	.04347	.00371	.00453	.00282	.01886			36
.00702	.00638	.00641	.00656	.00260	.00263	.00221	.00827	.00502	.00732	.00205	.00364	.00446	.00191	.01335			37
.00067	.00029	.00056	.00046	.00114	.00054	.00023	.00064	.00066	.01171	.00116	.00093	.00123	.00048	.00101			38
.00373	.00272	.00164	.00629	.00124	.00112	.00334	.00205	.00116	.00163	.00216	.00171	.00258	.00070	.01738			39
.00265	.00323	.00155	.00274	.00143	.00092	.00056	.00257	.00176	.00216	.05661	.00167	.00203	.00178	.00337			40
.01035	.00479	.00358	.00751	.00365	.00203	.00222	.00564	.00336	.00499	.04362	.00335	.00403	.00206	.01368			41
.00414	.00383	.00054	.00963	.00070	.00058	.00027	.00097	.00129	.00109	.00572	.00086	.00062	.00062	.00380			42
.00026	.00010	.00028	.00053	.00029	.00030	.00046	.00027	.00200	.00114	.00024	.00049	.00024	.00009	.00644			43
.00114	.00037	.00032	.00058	.00040	.00026	.00037	.00062	.00039	.00057	.00068	.00046	.00052	.00021	.00328			44
.00027	.00020	.00017	.00072	.00038	.00016	.00023	.00023	.00079	.00020	.00025	.00021	.00023	.00014	.00129			45
.00175	.00053	.00058	.00099	.00054	.00037	.00021	.00091	.00116	.00103	.00406	.00055	.00054	.00039	.00174			46
.00024	.00014	.00024	.00018	.00031	.00034	.00010	.00044	.00118	.00151	.00031	.00033	.00047	.00012	.00046			47
.00623	.00229	.00088	.00449	.00092	.00101	.00055	.00146	.00354	.00172	.00452	.00114	.00107	.00081	.00420			48
.00534	.00092	.00113	.00382	.00143	.00088	.00057	.00225	.00177	.00611	.02188	.00139	.00110	.00110	.02108			49
.00082	.00071	.00111	.00044	.00107	.00271	.00029	.00796	.00575	.00077	.00073	.00103	.00107	.00040	.00075			50
.00114	.00062	.00062	.00120	.00075	.00039	.00074	.00443	.00072	.00069	.01166	.00101	.00066	.00416				51
.00746	.00339	.00114	.00411	.00087	.00094	.00073	.00257	.00209	.00131	.00595	.00104	.00120	.00085	.00471			52
.00039	.00024	.00027	.00052	.00020	.00019	.00039	.00836	.00033	.00020	.00029	.00029	.00031	.00009	.00298			53
.00139	.00129	.00094	.00243	.00059	.00061	.00102	.00224	.00085	.00130	.00481	.00155	.00188	.00098	.00547			54
.00130	.00316	.00360	.00080	.00093	.00155	.00056	.00160	.00120	.00068	.00244	.00086	.00137	.00034	.00243			55
.00257	.01763	.03705	.00150	.00192	.00360	.00070	.02119	.01116	.00176	.00394	.00252	.00302	.00070	.00247			56
.00103	.00040	.00031	.00075	.00048	.00029	.00038	.00042	.00069	.00046	.00910	.00039	.00139	.00056	.00255			57
.00762	.00099	.00133	.00417	.00403	.00183	.00064	.00225	.00241	.00244	.18773	.00223	.00189	.01000	.00352			58
.00701	.00023	.00018	.00051	.00016	.00026	.00007	.00020	.00022	.00034	.00059	.00017	.00018	.00048	.00044			59
.00980	.00025	.00150	.00064	.00036	.00066	.00014	.00040	.00135	.00116	.00053	.00387	.00036	.00080	.00144			60
.00078	.00045	.00051	.00235	.00049	.00042	.00031	.00109	.00110	.00054	.00200	.00073	.00088	.00032	.00212			61
.00117	.00117	.01122	.00085	.00138	.00590	.00055	.00543	.00615	.00113	.00110	.00487	.00374	.00060	.00137			62
.00144</																	



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

Industry number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Non-ferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction
		1	2	3	4	5	6	7	8	9	10	11
1	Livestock and livestock products .....	1.34261	.02846	.04859	.07773	.00119	.00158	.00073	.00058	.00103	.00123	.00183
2	Other agricultural products .....	.44354	1.05124	.18223	.15399	.00145	.00199	.00094	.00065	.00110	.00140	.00306
3	Forestry and fishery products .....	.02066	.00081	.84738	.00330	.00082	.00184	.00070	.00024	.00040	.00054	.00620
4	Agricultural, forestry, and fishery services .....	.05814	.05656	.11485	.95898	.00082	.00130	.00060	.00131	.00063	.00102	.00174
5	Iron and ferroalloy ores mining .....	.00042	.00045	.00042	.00073	.97555	.00253	.00067	.00017	.00062	.00538	.00175
6	Nonferrous metal ores mining .....	.00095	.00103	.00082	.00173	.09078	1.10470	.00101	.00030	.00427	.00402	.00290
7	Coal mining .....	.00704	.00454	.00285	.00538	.03950	.02130	1.15496	.00259	.01478	.01959	.00725
8	Crude petroleum and natural gas .....	.07559	.08607	.07218	.10528	.12697	.10147	.04520	1.04635	.07646	.09192	.05338
9	Stone and clay mining and quarrying .....	.00195	.00316	.00081	.00179	.00663	.00253	.00204	.00067	.96048	.01133	.00916
10	Chemical and fertilizer mineral mining .....	.00228	.00373	.00140	.00645	.00158	.00277	.00082	.00031	.00247	.81852	.00123
11	New construction .....											1.00049
12	Repair and maintenance construction .....	.03494	.02464	.02112	.03345	.04593	.04256	.02199	.04300	.02755	.03097	.01551
13	Ordinance and accessories .....	.00113	.00011	.00621	.00020	.00029	.00033	.00018	.00005	.00036	.00019	.00061
14	Food and kindred products .....	.24025	.00810	.04173	.02211	.00395	.00517	.00234	.00169	.00349	.00417	.00516
15	Tobacco manufactures .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00221	.00275	.00589	.00512	.00167	.00223	.00236	.00032	.00117	.00244	.00287
17	Miscellaneous textile goods and floor coverings .....	.00140	.00117	.01050	.00052	.00101	.00117	.00070	.00026	.00064	.00053	.00427
18	Apparel .....	.00019	.00015	.00028	.00038	.00023	.00032	.00041	.00010	.00044	.00025	.00043
19	Miscellaneous fabricated textile products .....	.00097	.00138	.00351	.00410	.00044	.00051	.00019	.00009	.00026	.00025	.00044
20	Lumber and wood products, except containers .....	.00565	.00566	.00499	.00431	.00761	.01833	.00688	.00206	.00324	.00432	.00621
21	Wood containers .....	.00158	.00340	.00017	.00058	.00003	.00004	.00002	.00001	.00002	.00002	.00011
22	Household furniture .....	.00007	.00004	.00029	.00007	.00007	.00009	.00004	.00002	.00004	.00004	.00044
23	Other furniture and fixtures .....	.00008	.00006	.00019	.00009	.00018	.00021	.00010	.00006	.00014	.00012	.00187
24	Paper and allied products, except containers .....	.01443	.00942	.00703	.01288	.00675	.00838	.00431	.00247	.00649	.00637	.01218
25	Paperboard containers and boxes .....	.00841	.00535	.00325	.00956	.00225	.00275	.00149	.00053	.00211	.00268	.00329
26	Printing and publishing .....	.01324	.00753	.01196	.01384	.01162	.01466	.00713	.00579	.01048	.01094	.02112
27	Chemicals and selected chemical products .....	.05911	.09806	.03654	.16994	.03858	.06465	.02027	.00786	.02463	.27178	.02377
28	Plastics and synthetic materials .....	.00594	.00653	.00684	.01166	.00690	.00945	.00466	.00109	.00441	.00525	.00742
29	Drugs, cleaning and toilet preparations .....	.00741	.00306	.00200	.00543	.00176	.00248	.00094	.00049	.00155	.00252	.00158
30	Paints and allied products .....	.00146	.00122	.00185	.00203	.00190	.00216	.00092	.00097	.00108	.00124	.00724
31	Petroleum refining and related industries .....	.08761	.10729	.09551	.13072	.10488	.09221	.04920	.01548	.09806	.07080	.06380
32	Rubber and miscellaneous plastics products .....	.01228	.00833	.00735	.01269	.02361	.03143	.01686	.00230	.01429	.00918	.01504
33	Leather tanning and finishing .....	.00011	.00094	.00012	.00012	.00003	.00003	.00002	.00001	.00003	.00002	.00004
34	Footwear and other leather products .....	.00049	.00097	.00034	.00028	.00010	.00012	.00006	.00003	.00009	.00008	.00014
35	Glass and glass products .....	.00474	.00086	.00180	.00187	.00155	.00184	.00067	.00047	.00106	.00132	.00327
36	Stone and clay products .....	.00285	.00234	.00250	.00350	.00622	.01290	.00606	.00243	.05130	.00375	.06167
37	Primary iron and steel manufacturing .....	.01013	.00675	.01249	.01006	.06450	.06181	.02347	.00581	.02093	.02224	.06323
38	Primary nonferrous metals manufacturing .....	.00785	.00484	.00810	.00784	.01993	.02025	.01094	.00341	.01687	.01358	.03799
39	Metal containers .....	.00887	.00134	.00376	.00254	.00082	.00110	.00046	.00023	.00058	.00144	.00109
40	Heating, plumbing, and fabricated structural metal products .....	.00300	.00228	.00350	.00289	.01354	.02130	.00758	.00613	.01010	.02038	.06296
41	Screw machine products and stampings .....	.00292	.00173	.00261	.00315	.01122	.01493	.00989	.00086	.00528	.00597	.00730
42	Other fabricated metal products .....	.00805	.00579	.00980	.00879	.01608	.01226	.00927	.00598	.00879	.00734	.02734
43	Engines and turbines .....	.00185	.00156	.00555	.00583	.02278	.01885	.01296	.00078	.01336	.00415	.00188
44	Farm and garden machinery .....	.00813	.00818	.00399	.00517	.00108	.00111	.00089	.00023	.00083	.00073	.00074
45	Construction and mining machinery .....	.00126	.00120	.00149	.00141	.03013	.03429	.04330	.00493	.03506	.02190	.00853
46	Materials handling machinery and equipment .....	.00269	.00024	.00027	.00032	.00698	.00837	.00394	.00032	.01055	.00608	.00432
47	Metalworking machinery and equipment .....	.00270	.00175	.00125	.00132	.00355	.00387	.00223	.00059	.00253	.00185	.00277
48	Special industry machinery and equipment .....	.00077	.00074	.00062	.00124	.00074	.00093	.00056	.00015	.00058	.00078	.00078
49	General industrial machinery equipment .....	.00292	.00237	.00483	.00284	.02775	.02268	.02575	.00275	.01907	.01093	.00946
50	Miscellaneous machinery, except electrical .....	.00325	.00274	.00235	.00285	.00701	.00772	.01300	.00088	.00647	.00366	.00385
51	Office, computing, and accounting machines .....	.00064	.00046	.00067	.00105	.00076	.00092	.00045	.00029	.00063	.00069	.00132
52	Service industry machines .....	.00086	.00065	.00089	.00114	.00157	.00167	.00070	.00062	.00078	.00084	.01066
53	Electric industrial equipment and apparatus .....	.00205	.00163	.00226	.00220	.00779	.01051	.00699	.00316	.00788	.00649	.01007
54	Household appliances .....	.00032	.00022	.00063	.00037	.00047	.00051	.00026	.00025	.00034	.00033	.00294
55	Electric lighting and wiring equipment .....	.00109	.00077	.00101	.00114	.00184	.00186	.00171	.00096	.00127	.00119	.01488
56	Radio, TV, and communication equipment .....	.00081	.00054	.00106	.00077	.00112	.00123	.00059	.00049	.00079	.00079	.00850
57	Electronic components and accessories .....	.00154	.00112	.00199	.00194	.00232	.00283	.00144	.00082	.00195	.00185	.00493
58	Miscellaneous electrical machinery and supplies .....	.00151	.00139	.00100	.00187	.00186	.00262	.00076	.00026	.00137	.00098	.00220
59	Motor vehicles and equipment .....	.00700	.00604	.00666	.01110	.01443	.01579	.00391	.00103	.00344	.00320	.00527
60	Aircraft and parts .....	.00076	.00048	.00229	.00116	.00917	.00274	.00183	.00021	.00195	.00192	.00093
61	Other transportation equipment .....	.00108	.00061	.00576	.00155	.00165	.00236	.00060	.00021	.00077	.00076	.00128
62	Scientific and controlling instruments .....	.00077	.00053	.00193	.00090	.00151	.00248	.00073	.00036	.00083	.00103	.00380
63	Optical, ophthalmic, and photographic equipment .....	.00120	.00103	.00111	.00220	.00138	.00183	.00077	.00060	.00107	.00136	.00178
64	Miscellaneous manufacturing .....	.00153	.00104	.00143	.00235	.00289	.00195	.00097	.00059	.00181	.00156	.00332
65	Transportation and warehousing .....	.07415	.03514	.03145	.06381	.06119	.05608	.02398	.01030	.03933	.03772	.05066
66	Communications, except radio and TV .....	.01213	.00761	.00663	.00815	.01332	.01458	.00695	.00414	.01026	.01041	.01361
67	Radio and television broadcasting .....	.00295	.00195	.00346	.00345	.00326	.00420	.00199	.00167	.00267	.00305	.00712
68	Private electric, gas, water, and sanitary services .....	.06525	.04538	.02449	.05090	.26094	.17548	.05164	.02814	.11682	.20214	.04214
69	Wholesale and retail trade .....	.09262	.06334	.05146	.09780	.06921	.07643	.05196	.01382	.04858	.04612	.10943
70	Finance and insurance .....	.05521	.03861	.03685	.03138	.03307	.04648	.02135	.01398	.02758	.06483	.02240
71	Real estate and rental .....	.09541	.08760	.03286	.06042	.05530	.09170	.04935	.17774	.04048	.05104	.02889
72	Hotels; personal and repair services (except auto) .....	.00577	.00424	.00607	.01394	.00707	.00789	.00245	.00184	.01289	.00753	.00568
73	Business and professional services except medical .....	.05315	.03519	.06230	.06219	.05875	.07560	.03585	.02998	.04806	.05487	.12815
74	Eating and drinking places .....	.00753	.00520	.00720	.01368	.00839	.01022	.00505	.00404	.00770	.00851	.01081
75	Automobile repair and services .....	.01355	.01033	.01314	.03178	.03984	.04446	.00659	.00236	.00451	.00423	.01311
76	Amusements .....	.00251	.00191	.00346	.01562	.00181	.00229	.00112	.00092	.00167	.00187	.00571
77	Health, educational, and social services and nonprofit organizations .....	.01345	.00176	.00369	.00384	.00380	.00433	.00229	.00091	.00247	.00253	.00198
78	Federal Government enterprises .....	.00577	.00384	.00439	.00793	.01231	.01202	.00329	.00183	.00672	.01057	.00529
79	State and local government enterprises .....	.01103	.00748	.00477	.00953	.03250	.02356	.00719	.00510	.01461	.02460	.00705
	<b>Total industry output multiplier .....</b>	<b>3.03538</b>	<b>1.94125</b>	<b>1.96999</b>	<b>2.32581</b>	<b>2.44250</b>	<b>2.48014</b>	<b>1.81241</b>	<b>1.48032</b>	<b>1.87527</b>	<b>2.07169</b>	<b>2.16161</b>

**Total Requirements, 1982**

of delivery to final demand, at producers' prices]

Repair and maintenance construction	Ordnance and accessories	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mill	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Industry number
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
.00164	.00139	.33869	.00610	.00776	.01631	.00432	.00680	.00900	.00620	.00498	.00259	.00433	.00272	.00271	.00303	.00297	1
.00259	.00142	.20520	.20248	.08051	.02357	.02373	.03458	.03542	.01812	.01247	.00442	.00730	.00425	.00306	.00386	.00743	2
.00358	.00072	.01072	.00064	.00080	.00098	.00325	.00101	.13162	.06024	.01689	.00863	.01357	.00589	.00272	.00144	.00116	3
.00360	.00054	.02107	.01111	.00514	.00228	.00215	.00256	.01879	.00922	.00330	.00173	.00265	.00140	.00095	.00104	.00114	4
.00118	.00154	.00060	.00019	.00064	.00084	.00032	.00044	.00066	.00057	.00109	.00352	.00051	.00052	.00031	.00328	.00146	5
.00233	.00465	.00154	.00043	.00174	.00228	.00088	.00115	.00121	.00099	.00192	.00365	.00173	.00168	.00109	.00844	.00449	6
.00558	.00702	.00771	.00365	.01463	.01427	.00747	.00954	.00736	.00859	.00801	.01122	.01961	.01208	.00643	.01707	.01924	7
.05710	.02755	.05647	.03292	.09039	.09430	.05180	.05755	.06274	.06459	.04843	.04203	.09448	.07989	.04587	.22971	.15039	8
.01318	.00090	.00157	.00092	.00145	.00165	.00075	.00098	.00117	.00130	.00148	.00150	.00526	.00266	.00133	.00416	.00231	9
.00117	.00092	.00192	.00108	.00573	.00779	.00244	.00349	.00167	.00128	.00182	.00160	.00394	.00286	.00197	.03842	.01593	10
1.01330	.01696	.02299	.01014	.02569	.02455	.01618	.01889	.02384	.03009	.02452	.02313	.02549	.02177	.01498	.03131	.02769	11
.00041	.94727	.00021	.00008	.00019	.00023	.00014	.00015	.00113	.00061	.00033	.00034	.00025	.00018	.00100	.00059	.00031	12
.00435	.00471	1.25584	.00371	.00851	.01096	.00974	.01373	.01142	.01251	.01310	.00685	.01324	.00936	.00912	.01302	.01063	13
(*)	(*)	.00001	1.20477	(*)	.00001	(*)	(*)	(*)	.00001	(*)	(*)	.00021	.00009	.00004	(*)	.00001	14
.00304	.00213	.00254	.00155	1.40216	.29973	.36867	.56520	.00262	.00304	.09876	.01114	.02034	.00976	.00661	.00268	.06584	15
.00400	.00078	.00148	.00070	.02152	.99787	.01117	.08039	.00289	.00197	.02154	.02065	.00979	.00440	.00309	.00102	.00245	16
.00035	.00049	.00023	.00016	.00577	.00262	1.25700	.03781	.00042	.00054	.00146	.00041	.00042	.00031	.00028	.00019	.00033	17
.00073	.00042	.00077	.00038	.00140	.00502	.02058	.86600	.00092	.00071	.00533	.00149	.00078	.00066	.00054	.00056	.00048	18
.03734	.00639	.00748	.00548	.00533	.00671	.00383	.00790	1.43957	.74579	.18404	.09732	.13525	.05786	.02532	.00602	.00676	19
.00009	.00003	.00125	.00067	.00031	.00015	.00011	.00016	.00131	92.116	.00031	.00013	.00016	.00016	.00005	.00005	.00006	20
.00035	.00048	.00017	.00003	.00009	.00018	.00014	.00017	.00163	.00163	.98299	.00917	.00025	.00016	.00008	.00006	.00007	21
.00106	.00113	.00009	.00005	.00009	.00009	.00008	.00071	.00176	.00235	.00269	.97191	.00038	.00020	.00027	.00009	.00009	22
.01006	.00806	.03434	.03641	.02175	.03620	.01529	.02414	.01294	.04048	.01905	.01822	1.17793	.49627	.21711	.01957	.03362	23
.00319	.00325	.02829	.04001	.01561	.01507	.01103	.01747	.00670	.06393	.01639	.01455	.02338	1.03492	.00974	.00846	.01371	24
.00931	.01473	.02532	.02651	.01697	.02202	.01566	.01691	.01163	.01873	.01749	.01822	.02298	.01894	1.09686	.01627	.01655	25
.02478	.02236	.04658	.02822	.17581	.23659	.07415	.10378	.04319	.03326	.04896	.03751	.09543	.07255	.05073	1.01481	.52747	26
.00912	.00804	.00878	.00430	.21088	.29736	.08774	.11143	.00848	.01291	.03440	.01628	.03672	.02677	.01234	.04577	.87368	27
.00173	.00125	.01070	.00233	.01328	.01276	.01195	.00910	.00196	.00204	.00318	.00199	.00752	.00514	.00288	.02565	.01891	28
.01622	.00125	.00194	.00066	.00328	.00424	.00168	.00211	.01010	.00646	.01483	.01168	.00304	.00377	.00166	.00594	.00949	29
.07086	.02442	.05968	.03863	.08689	.09191	.05191	.05465	.06948	.06900	.04922	.04038	.09246	.08426	.04849	.24834	.15122	30
.02166	.01953	.02555	.00983	.03240	.05587	.02373	.04675	.01790	.01490	.05081	.03191	.04000	.02471	.02286	.02118	.04712	31
.00004	.00004	.00005	.00002	.00013	.00010	.00556	.01409	.00016	.00010	.00581	.00063	.00005	.00003	.00017	.00004	.00004	32
.00011	.00011	.00021	.00005	.00035	.00019	.00096	.00103	.00069	.00039	.00056	.00020	.00019	.00013	.00014	.00012	.00014	33
.00361	.00165	.00209	.00062	.00697	.01091	.00257	.00432	.00454	.00293	.00987	.00319	.00187	.00360	.00105	.00290	.00305	34
.04307	.00562	.00288	.00137	.00343	.00596	.00210	.00286	.00681	.00760	.00883	.00776	.00805	.00476	.00288	.00476	.00416	35
.04208	.05722	.01833	.00447	.00899	.01093	.00565	.00722	.02113	.01881	.03820	.01000	.01299	.00660	.00288	.01815	.01239	36
.02969	.07234	.01873	.00326	.00770	.00953	.00561	.00635	.01276	.01038	.02258	.04527	.00922	.01529	.01050	.02157	.01303	37
.00160	.00060	.00462	.00084	.00243	.00309	.00142	.00189	.00192	.00183	.00221	.00187	.00708	.00230	.00040	.00940	.00612	38
.05103	.00374	.00239	.00136	.00273	.00289	.00167	.00216	.00941	.00649	.00400	.00540	.00332	.01182	.00169	.00430	.00322	39
.00602	.01231	.00476	.00102	.00198	.00234	.00155	.00198	.01927	.01125	.01290	.02365	.00358	.00317	.00192	.00251	.00223	40
.02775	.01584	.00943	.00847	.00607	.00739	.00409	.00520	.03072	.02323	.05796	.03699	.01622	.01911	.00979	.01372	.01006	41
.00160	.00367	.00142	.00065	.00174	.00184	.00104	.00122	.00210	.00189	.00146	.00192	.00188	.00157	.00098	.00259	.00209	42
.00048	.00042	.00300	.00171	.00096	.00066	.00045	.00062	.00096	.00198	.00060	.00234	.00040	.00055	.00028	.00040	.00041	43
.00577	.00139	.00108	.00055	.00157	.00165	.00085	.00103	.00136	.00128	.00150	.00189	.00184	.00138	.00079	.00346	.00240	44
.00334	.00035	.00029	.00018	.00168	.00074	.00063	.00085	.00118	.00075	.00075	.00130	.00048	.00034	.00026	.00072	.00051	45
.00222	.00755	.00199	.00101	.00219	.00226	.00135	.00174	.00527	.00412	.00352	.00557	.00204	.00243	.00132	.00206	.00197	46
.00062	.00055	.00151	.00052	.01169	.01692	.00585	.00693	.00216	.00474	.00312	.00124	.00329	.00366	.00558	.00550	.00409	47
.00575	.01058	.00302	.00145	.00369	.00441	.00228	.00289	.00563	.00419	.00371	.00903	.00382	.00311	.00218	.00628	.00651	48
.00316	.00928	.00294	.00202	.00460	.00439	.00291	.00345	.01002	.00859	.00565	.00595	.00430	.00443	.00254	.00316	.00370	49
.00075	.00495	.00077	.00045	.00099	.00102	.00085	.00084	.00062	.00095	.00119	.00227	.00084	.00065	.00115	.00108	.00093	50
.01171	.00062	.00074	.00033	.00078	.00080	.00055	.00077	.00138	.00116	.00093	.00422	.00076	.00072	.00052	.00120	.00097	51
.00935	.00583	.00191	.00082	.00264	.00314	.00158	.00187	.00323	.00293	.00269	.00541	.00224	.00221	.00173	.00387	.00290	52
.00465	.00034	.00034	.00012	.00040	.00037	.00039	.00041	.00046	.00048	.00048	.00093	.00032	.00026	.00023	.00032	.00032	53
.01385	.00133	.00091	.00038	.00095	.00092	.00064	.00076	.00149	.00141	.00127	.00167	.00095	.00081	.00063	.00102	.00094	54
.00647	.04744	.00078	.00039	.00082	.00096	.00082	.00079	.00088	.00109	.00168	.00107	.00078	.00079	.00119	.00081	.00084	55
.00354	.00702	.00176	.00099	.00300	.00306	.00232	.00246	.00174	.00246	.00279	.00260	.00250	.00187	.00288	.00249	.00243	56
.00160	.00116	.00082	.00046	.00053	.00047	.00041	.00040	.00097	.00080	.00066	.00070	.00058	.00058	.00049	.00051	.00047	57
.00451	.00729	.00428	.00261	.00339	.00303	.00300	.00270	.00617	.00594	.00456	.00507	.00392	.00404	.00332	.00279	.00291	58
.00079	.16956	.00072	.00029	.00068	.00082	.00047	.00133	.00104	.00223	.00078	.00073	.00084	.00095	.00065	.00090	.00081	59
.00096	.00060	.00149	.00038	.00071	.00088	.00070	.00116	.00885	.00614	.00177	.00196	.00168	.00141	.00077	.00094	.00088	60
.00395	.00309	.00100	.00065	.00269	.00461	.00266	.00714	.00125	.00204	.00265	.00453	.00358	.00236	.00452	.00206	.00164	61
.00129	.00411	.00142	.00093	.00232	.00258	.00171	.00186	.00135	.00190	.00196	.00184	.00230	.00174	.00796	.00524	.00315	62
.00248	.00231	.00163	.00094	.00258	.00337	.01386	.00889	.00257	.00532	.00719	.00327	.00200	.00168	.00714	.00181	.00171	63
.04790	.03486	.07412	.02515	.05194	.06850	.03664	.04275	.06641	.10573</								

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

Industry number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing
		29	30	31	32	33	34	35	36	37	38
1	Livestock and livestock products .....	.00785	.00832	.00085	.00236	.12751	.02450	.00180	.00172	.00143	.00168
2	Other agricultural products .....	.00619	.00737	.00108	.00415	.07795	.01890	.00246	.00237	.00174	.00218
3	Forestry and fishery products .....	.00105	.00483	.00034	.00117	.00448	.00265	.00276	.00108	.00094	.00094
4	Agricultural, forestry, and fishery services .....	.00105	.00161	.00111	.00082	.00835	.00231	.00097	.00072	.00074	.00079
5	Iron and ferroalloy ores mining .....	.00053	.00200	.00024	.00082	.00081	.00046	.00065	.00142	.03172	.00126
6	Nonferrous metal ores mining .....	.00136	.00950	.00048	.00205	.00204	.00110	.00158	.00266	.01087	.08766
7	Coal mining .....	.00608	.01026	.00558	.01056	.01039	.00623	.01588	.02679	.06311	.01739
8	Crude petroleum and natural gas .....	.04918	.11452	.75562	.07521	.08589	.04412	.08607	.07123	.08040	.09167
9	Stone and clay mining and quarrying .....	.00151	.00749	.00219	.00177	.00179	.00092	.01575	.07897	.00520	.00200
10	Chemical and fertilizer mineral mining .....	.00306	.01083	.00100	.00593	.00832	.00308	.00536	.00621	.00391	.00275
11	New construction .....										
12	Repair and maintenance construction .....	.01466	.02295	.03900	.02093	.02534	.01607	.03095	.02788	.04891	.03185
13	Ordinance and accessories .....	.00016	.00031	.00008	.00065	.00022	.00017	.00024	.00349	.00133	.00049
14	Food and kindred products .....	.02619	.03020	.00270	.00751	.47269	.08768	.00610	.00582	.00487	.00572
15	Tobacco manufactures .....	.00001	.00001	(*)	.00001	(*)	(*)	.00001	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00302	.00884	.00062	.03343	.00232	.06142	.00242	.00610	.00135	.00385
17	Miscellaneous textile goods and floor coverings .....	.00181	.00094	.00053	.01939	.00116	.04171	.00119	.00079	.00075	.00119
18	Apparel .....	.00020	.00022	.00013	.00061	.00036	.01281	.00039	.00035	.00033	.00030
19	Miscellaneous fabricated textile products .....	.00049	.00038	.00016	.00095	.00066	.00170	.00067	.00032	.00036	.00038
20	Lumber and wood products, except containers .....	.00544	.00472	.00276	.01114	.00562	.01969	.02903	.01001	.00851	.00817
21	Wood containers .....	.00011	.00007	.00002	.00008	.00049	.00014	.00481	.00005	.00003	.00004
22	Household furniture .....	.00013	.00006	.00004	.00042	.00010	.00033	.00647	.00011	.00006	.00007
23	Other furniture and fixtures .....	.00008	.00008	.00006	.00069	.00008	.00019	.00022	.00014	.00037	.00011
24	Paper and allied products, except containers .....	.03468	.01889	.00500	.04215	.02322	.02165	.03950	.02262	.00854	.01016
25	Paperboard containers and boxes .....	.02785	.01091	.00239	.02253	.01958	.02037	.06575	.00623	.00318	.00523
26	Printing and publishing .....	.03015	.02250	.00756	.01360	.01911	.02133	.01602	.01189	.01604	.01367
27	Chemicals and selected chemical products .....	.09931	.29500	.02578	.17125	.17681	.07772	.12283	.05350	.05766	.07155
28	Plastics and synthetic materials .....	.01710	.11611	.00339	.18352	.01199	.04111	.01129	.01421	.00608	.02711
29	Drugs, cleaning and toilet preparations .....	1.05688	.01919	.00349	.00854	.04742	.01436	.00403	.00404	.00213	.00266
30	Paints and allied products .....	.00391	.97862	.00112	.00410	.00214	.00163	.00403	.00410	.00218	.00320
31	Petroleum refining and related industries .....	.05207	.11056	1.07099	.07023	.08966	.04379	.06933	.07034	.06309	.07999
32	Rubber and miscellaneous plastics products .....	.03753	.01768	.00494	.99924	.01649	.05790	.02137	.01544	.01132	.02675
33	Leather tanning and finishing .....	.00003	.00003	.00002	.00026	1.05279	.17836	.00007	.00004	.00003	.00003
34	Footwear and other leather products .....	.00012	.00012	.00006	.00111	.00305	1.01822	.00030	.00012	.00013	.00011
35	Glass and glass products .....	.01413	.00366	.00170	.00762	.00908	.00322	1.05093	.00417	.00109	.00219
36	Stone and clay products .....	.00355	.01329	.00369	.00773	.00624	.00383	.01989	1.09954	.01308	.01059
37	Primary iron and steel manufacturing .....	.01212	.03032	.00655	.01613	.01207	.00993	.01140	.01665	1.20160	.04906
38	Primary nonferrous metals manufacturing .....	.01096	.04218	.00427	.01303	.01232	.00853	.00966	.01701	.05990	1.51320
39	Metal containers .....	.01480	.06300	.00134	.00323	.01809	.00413	.00201	.00115	.00103	.00127
40	Heating, plumbing, and fabricated structural metal products .....	.00238	.00281	.00501	.00437	.00255	.00196	.00480	.00438	.00739	.00659
41	Screw machine products and stampings .....	.00618	.00432	.00105	.00656	.00301	.00540	.00562	.00377	.00978	.00916
42	Other fabricated metal products .....	.01219	.01389	.00701	.01598	.00763	.01281	.00750	.01785	.02338	.02066
43	Engines and turbines .....	.00099	.00171	.00115	.00189	.00152	.00104	.00225	.00314	.00464	.00385
44	Farm and garden machinery .....	.00046	.00042	.00025	.00046	.00134	.00052	.00037	.00046	.00300	.00050
45	Construction and mining machinery .....	.00096	.00217	.00387	.00149	.00143	.00086	.00209	.00829	.00927	.00457
46	Materials handling machinery and equipment .....	.00029	.00049	.00025	.00043	.00035	.00038	.00052	.00127	.00130	.00160
47	Metalworking machinery and equipment .....	.00140	.00207	.00074	.00339	.00172	.00234	.00846	.00346	.00981	.02016
48	Special industry machinery and equipment .....	.00104	.00193	.00028	.00397	.00156	.00264	.00185	.00078	.00109	.00117
49	General industrial machinery equipment .....	.00547	.00431	.00265	.00428	.00297	.00222	.00364	.00374	.02159	.02116
50	Miscellaneous machinery, except electrical .....	.00246	.00305	.00138	.00565	.00331	.00465	.00751	.00356	.00856	.00734
51	Office, computing, and accounting machines .....	.00110	.00041	.00040	.00074	.00093	.00097	.00078	.00065	.00164	.00094
52	Service industry machines .....	.00058	.00074	.00063	.00108	.00081	.00060	.00078	.00069	.00126	.00121
53	Electric industrial equipment and apparatus .....	.00162	.00264	.00285	.00264	.00202	.00167	.00481	.00508	.01360	.01283
54	Household appliances .....	.00028	.00036	.00025	.00107	.00043	.00061	.00048	.00027	.00044	.00075
55	Electric lighting and wiring equipment .....	.00068	.00091	.00097	.00222	.00102	.00074	.00411	.00233	.00499	.00415
56	Radio, TV, and communication equipment .....	.00086	.00090	.00057	.00105	.00085	.00092	.00143	.00113	.00137	.00427
57	Electronic components and accessories .....	.00263	.00219	.00102	.00339	.00215	.00245	.00258	.00215	.00321	.00561
58	Miscellaneous electrical machinery and supplies .....	.00055	.00065	.00032	.00082	.00058	.00041	.00072	.00067	.00097	.00764
59	Motor vehicles and equipment .....	.00274	.00410	.00179	.00612	.00353	.00282	.00475	.00535	.01074	.00695
60	Aircraft and parts .....	.00051	.00080	.00055	.00097	.00074	.00053	.00090	.00181	.00145	.00138
61	Other transportation equipment .....	.00064	.00123	.00064	.00093	.00111	.00077	.00154	.00127	.00129	.00142
62	Scientific and controlling instruments .....	.00324	.00170	.00057	.00245	.00129	.00180	.00498	.00136	.00168	.00179
63	Optical, ophthalmic, and photographic equipment .....	.00420	.00451	.00079	.00321	.00207	.00250	.00227	.00165	.00161	.00232
64	Miscellaneous manufacturing .....	.00260	.00244	.00079	.00384	.00640	.01911	.00284	.00243	.00175	.00190
65	Transportation and warehousing .....	.04092	.08037	.05931	.06344	.07722	.04993	.07664	.12021	.08514	.10878
66	Communications, except radio and TV .....	.01359	.01373	.00641	.01815	.01418	.01259	.03043	.01331	.01697	.01745
67	Radio and television broadcasting .....	.00757	.00398	.00215	.00335	.00424	.00474	.00372	.00324	.00499	.00376
68	Private electric, gas, water, and sanitary services .....	.05342	.08767	.06118	.09405	.09464	.05675	.17197	.11887	.16917	.16779
69	Wholesale and retail trade .....	.08491	.09248	.03980	.08791	.13985	.09643	.08073	.05814	.10275	.11609
70	Finance and insurance .....	.02623	.02537	.02365	.02277	.03145	.03877	.02639	.02787	.02515	.03355
71	Real estate and rental .....	.02841	.03655	.13468	.03059	.04232	.02904	.03197	.02877	.03179	.03937
72	Hotels, personal and repair services (except auto) .....	.00639	.00604	.00261	.00528	.02356	.01456	.00577	.00556	.00548	.00698
73	Business and professional services except medical .....	.13642	.07166	.03876	.06032	.07636	.08547	.06694	.05835	.08987	.06781
74	Eating and drinking places .....	.01093	.01257	.00537	.01030	.01185	.01579	.01109	.01080	.01005	.01167
75	Automobile repair and services .....	.00575	.00716	.00351	.00605	.00814	.00662	.00929	.00715	.00770	.01201
76	Amusements .....	.00395	.00228	.00121	.00197	.00249	.00262	.00220	.00184	.00270	.00222
77	Health, educational, and social services and nonprofit organizations .....	.00640	.00325	.00158	.00401	.00370	.00260	.00247	.00246	.00199	.00283
78	Federal Government enterprises .....	.00745	.00895	.00371	.00687	.00963	.01704	.00980	.00774	.00988	.00965
79	State and local government enterprises .....	.00852	.01276	.00960	.01305	.01900	.00935	.02212	.01782	.02221	.02267
	<b>Total industry output multiplier .....</b>	<b>2.04231</b>	<b>2.51355</b>	<b>2.38616</b>	<b>2.27208</b>	<b>2.96654</b>	<b>2.38531</b>	<b>2.29332</b>	<b>2.15275</b>	<b>2.44565</b>	<b>2.84982</b>

\*Less than 0.000005.

SURVEY OF CURRENT BUSINESS

July 1991

Total Requirements, 1982—Continued

of delivery to final demand, at producers' prices

Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Metal-working machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Industry number
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
.00178	.00169	.00145	.00162	.00129	.00164	.00129	.00152	.00148	.00176	.00164	.00173	.00204	.00169	.00162	.00180	1
.00198	.00188	.00171	.00184	.00136	.00182	.00132	.00153	.00145	.00183	.00173	.00160	.00193	.00189	.00167	.00239	2
.00098	.00130	.00085	.00125	.00055	.00105	.00062	.00087	.00058	.00095	.00092	.00056	.00061	.00114	.00079	.00192	3
.00069	.00073	.00062	.00069	.00053	.00074	.00050	.00056	.00052	.00065	.00060	.00059	.00063	.00065	.00062	.00077	4
.00769	.00749	.00797	.00561	.00551	.00438	.00513	.00409	.00344	.00379	.00438	.00238	.00081	.00299	.00229	.00352	5
.02282	.01121	.00701	.00767	.00750	.00365	.00329	.00404	.00360	.00622	.00637	.00432	.00298	.00694	.00720	.00574	6
.02195	.01949	.02057	.01664	.01541	.01278	.01386	.01165	.01082	.01186	.01132	.00877	.00560	.01081	.00965	.01273	7
.06154	.05188	.04581	.05074	.03868	.03522	.03330	.03435	.03647	.04158	.03914	.03177	.03393	.03986	.04162	.04301	8
.00215	.00222	.00211	.00215	.00196	.00156	.00172	.00168	.00192	.00183	.00192	.00172	.00106	.00172	.00173	.00219	9
.00212	.00167	.00174	.00224	.00118	.00117	.00110	.00102	.00112	.00165	.00116	.00082	.00101	.00301	.00121	.00184	10
.02810	.03623	.03223	.03184	.02419	.02526	.02565	.02710	.01961	.02471	.02383	.02385	.01751	.02321	.02326	.02285	11
.00050	.00139	.00081	.00073	.00322	.00058	.00049	.00050	.00134	.00141	.00123	.00182	.00028	.00056	.00176	.00046	12
.00666	.00572	.00502	.00550	.00438	.00586	.00437	.00517	.00509	.00613	.00534	.00582	.00701	.00614	.00551	.00604	13
.00006	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	14
.00212	.00189	.00407	.00251	.00202	.00284	.00169	.00182	.00195	.00251	.00340	.00200	.00308	.00271	.00225	.00775	15
.00075	.00102	.00126	.00138	.00099	.00169	.00108	.00133	.00083	.00138	.00614	.00319	.00152	.00124	.00112	.00158	16
.00030	.00027	.00042	.00041	.00036	.00026	.00020	.00026	.00026	.00028	.00036	.00025	.00035	.00028	.00030	.00034	17
.00030	.00032	.00394	.00045	.00073	.00089	.00035	.00047	.00102	.00037	.00049	.00032	.00039	.00043	.00041	.00047	18
.00806	.01432	.00760	.01194	.00463	.00972	.00535	.00799	.00464	.00851	.00840	.00430	.00440	.01068	.00681	.01890	20
.00004	.00008	.00004	.00007	.00003	.00004	.00003	.00004	.00003	.00012	.00004	.00003	.00005	.00151	.00004	.00030	21
.00006	.00025	.00031	.00041	.00009	.00008	.00006	.00012	.00005	.00011	.00008	.00006	.00045	.00016	.00023	.00138	22
.00015	.00132	.00059	.00070	.00030	.00028	.00021	.00539	.00018	.00021	.00024	.00021	.00048	.00155	.00024	.00054	23
.01536	.01095	.01253	.01693	.00878	.01047	.00743	.00857	.00874	.01062	.01263	.01044	.02171	.01330	.01636	.02241	24
.00796	.00715	.00944	.01143	.00427	.00605	.00285	.00368	.00585	.00537	.00704	.00744	.01130	.01023	.00757	.02516	25
.03761	.01295	.01514	.01544	.01262	.01432	.01256	.01343	.01233	.01551	.01378	.01721	.01721	.01410	.01525	.01467	26
.04552	.03288	.03464	.05148	.02267	.02467	.02136	.02037	.02376	.03787	.02369	.01651	.02614	.03132	.02814	.04315	27
.01395	.00824	.00959	.01300	.00652	.01176	.00717	.00690	.00774	.00938	.00897	.00521	.01563	.01337	.01122	.02694	28
.00295	.00223	.00221	.00269	.00120	.00143	.00114	.00117	.00137	.00164	.00135	.00126	.00159	.00215	.00149	.00266	29
.02157	.00566	.00506	.00749	.00225	.00507	.00287	.00317	.00291	.00179	.00191	.00178	.00348	.00518	.00358	.00905	30
.05272	.04721	.03785	.04588	.03286	.03076	.02832	.03138	.03472	.03867	.03481	.02960	.03366	.03671	.03980	.03805	31
.01516	.01973	.01686	.02578	.01610	.04899	.02746	.02260	.02645	.03150	.02063	.01056	.05588	.02417	.02500	.04018	32
.00003	.00004	.00010	.00008	.00003	.00004	.00003	.00003	.00007	.00004	.00004	.00003	.00005	.00004	.00003	.00006	33
.00010	.00013	.00019	.00029	.00010	.00014	.00011	.00010	.00011	.00015	.00012	.00011	.00020	.00013	.00012	.00016	34
.00126	.00824	.00278	.00386	.00125	.00124	.00107	.00131	.00085	.00124	.00085	.00124	.00274	.00299	.00234	.01575	35
.00777	.00945	.00923	.01020	.01295	.00871	.01068	.01105	.01706	.01300	.01366	.02234	.00764	.01261	.01393	.01498	36
.29026	.28596	.29550	.23462	.20860	.16546	.19428	.15520	.13151	.14149	.16866	.09061	.08479	.11139	.08484	.13086	37
.36068	.14699	.08766	.11182	.10376	.04131	.03402	.05038	.05227	.08940	.09173	.06468	.04497	.10460	.11248	.07994	38
1.07960	.00125	.00337	.00296	.00074	.00124	.00073	.00081	.00079	.00089	.00080	.00069	.00099	.00113	.00091	.00161	39
.00441	.99934	.00880	.01450	.01507	.00880	.03104	.04406	.01453	.02175	.01707	.01144	.01125	.02039	.00862	.00588	40
.00984	.04450	.94599	.01777	.01890	.02994	.01089	.02078	.04382	.01568	.01761	.01351	.01272	.02801	.01776	.03161	41
.02541	.04775	.03678	.93300	.03350	.02071	.03505	.03464	.02681	.02646	.03073	.03653	.02094	.02702	.02128	.04150	42
.00253	.00485	.00357	.00534	.93336	.06111	.02197	.01620	.00501	.01512	.01404	.01227	.00206	.00984	.02844	.00370	43
.00995	.00163	.00202	.00140	.01156	1.03850	.01246	.00256	.00168	.00142	.00251	.00119	.00047	.00208	.00061	.00157	44
.00364	.00611	.00333	.00865	.00846	.02527	1.04101	.04018	.00329	.00566	.01671	.00402	.00109	.00483	.00339	.00240	45
.00079	.00153	.00110	.00104	.00074	.00134	.00521	.00358	.00145	.00760	.00451	.00225	.00033	.00236	.00121	.00060	46
.00900	.01015	.01937	.01289	.01437	.01176	.01346	.01197	.93753	.02500	.03222	.00399	.01301	.00988	.00995	.00995	47
.00087	.00184	.00132	.00200	.00119	.00565	.00205	.00642	.00690	.93644	.00690	.00371	.00093	.00393	.00128	.00114	48
.01096	.02348	.01335	.01602	.04152	.04984	.04713	.06435	.02117	.05832	.99514	.03340	.00482	.00390	.01393	.01877	49
.00664	.01012	.04747	.01315	.03355	.03462	.02037	.02431	.03002	.03557	.02814	1.01545	.00520	.02312	.01343	.00785	50
.00097	.00104	.00113	.00128	.00131	.00108	.00094	.00140	.00128	.00416	.00256	.00140	1.15867	.00161	.00813	.00192	51
.00086	.00928	.00213	.00354	.00174	.00153	.00129	.00484	.00209	.00397	.00630	.00222	.00126	1.02823	.00196	.04085	52
.00699	.01311	.00920	.00968	.05177	.01216	.01574	.05445	.03594	.06801	.04960	.00958	.04051	.08379	.99953	.06497	53
.00193	.00110	.00690	.00076	.00050	.00187	.00036	.00067	.00020	.00085	.00085	.00035	.00062	.02609	.00156	.96284	54
.00244	.00309	.00360	.00366	.00237	.00251	.00161	.00231	.00240	.00228	.00218	.00218	.00731	.00918	.01245	.01632	55
.00169	.00286	.00162	.00280	.00220	.00121	.00119	.00326	.00150	.00283	.00222	.00131	.01765	.00251	.01259	.01855	56
.00289	.00359	.00350	.00490	.00722	.00375	.00293	.00641	.00551	.01841	.00882	.00362	.16088	.00828	.06549	.01495	57
.00218	.00129	.00167	.00238	.01299	.00927	.00168	.00446	.00135	.00143	.00142	.00378	.00162	.00378	.00325	.00229	58
.00571	.00825	.05415	.01187	.04538	.01857	.01110	.01457	.01424	.00551	.00856	.01080	.00376	.00699	.00602	.00578	59
.00098	.00208	.00130	.00256	.01006	.00797	.00324	.00563	.00243	.00816	.00907	.00600	.00126	.00205	.00610	.00140	60
.00102	.00240	.00117	.00144	.01076	.01729	.00144	.00631	.00127	.00297	.00157	.00200	.00113	.00286	.01494	.00172	61
.00142	.00318	.00195	.00453	.00193	.00147	.00153	.00246	.00198	.00268	.00576	.00180	.00316	.01493	.00595	.02739	62
.00175	.00164	.00171	.00178	.00171	.00161	.00137	.00165	.00177	.01044	.00192	.00651	.00186	.00257	.00210	.00210	63
.00172	.00237	.00249	.00376	.00155	.00170	.00167	.00209	.00186	.00199	.00216	.00207	.00303	.00310	.00224	.00656	64
.07802	.06210	.05510	.05550	.04734	.05043	.04014	.03881	.03742	.04685	.04627	.03649	.04583	.04955	.04849	.05331	65
.01471	.02278	.02181	.03079	.01655	.01398	.01461	.01802	.01506	.01938	.01704	.01345	.02180	.01784	.02962	.01733	66
.00420	.00372	.00457	.00394	.00364	.00427	.00373	.00373	.00342	.00417	.00387	.00505	.00344	.00400	.00425	.04002	67
.11439	.08838	.09031	.08517	.07426	.06362	.06332	.05836	.05698	.06598	.06598	.05368	.04754	.06602	.06454	.07464	68
.12074	.11599	.09893	.09977	.10091	.13592	.09296	.10564	.07257	.11385	.10287	.06729	.13628	.13094	.10588	.13140	69
.02666	.02548	.02672	.02708	.02385	.02061	.01915	.02157	.02047	.02859	.02400	.0					

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

Industry number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment
		55	56	57	58	59	60	61	62	63
1	Livestock and livestock products .....	.00173	.00144	.00201	.00244	.00169	.00125	.00187	.00271	.00148
2	Other agricultural products .....	.00201	.00153	.00212	.00244	.00248	.00152	.00320	.00360	.00160
3	Forestry and fishery products .....	.00108	.00072	.00072	.00081	.00082	.00050	.00533	.00126	.00061
4	Agricultural, forestry, and fishery services .....	.00068	.00057	.00072	.00080	.00066	.00050	.00134	.00077	.00054
5	Iron and ferroalloy ores mining .....	.00242	.00065	.00104	.00168	.00356	.00125	.00276	.00121	.00057
6	Nonferrous metal ores mining .....	.00732	.00366	.00813	.02142	.00456	.00426	.00406	.00613	.00349
7	Coal mining .....	.01024	.00522	.00850	.00936	.01212	.00600	.00967	.00706	.00612
8	Crude petroleum and natural gas .....	.04519	.02771	.04916	.05835	.04355	.02719	.04027	.03768	.03611
9	Stone and clay mining and quarrying .....	.00192	.00073	.00135	.00134	.00183	.00092	.00212	.00121	.00116
10	Chemical and fertilizer mineral mining .....	.00190	.00112	.00274	.00353	.00153	.00070	.00125	.00145	.00219
11	New construction .....									
12	Repair and maintenance construction .....	.02128	.01569	.02379	.02410	.02387	.01610	.04001	.01657	.01424
13	Ordinance and accessories .....	.00033	.01240	.00062	.00040	.00055	.01601	.00057	.00074	.00162
14	Food and kindred products .....	.00590	.00489	.00694	.00853	.00545	.00415	.00520	.00873	.00505
15	Tobacco manufactures .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills .....	.00490	.00360	.00476	.00365	.01557	.00664	.01016	.02500	.00395
17	Miscellaneous textile goods and floor coverings .....	.00109	.00145	.00222	.00173	.00573	.00132	.01007	.00872	.00215
18	Apparel .....	.00038	.00054	.00076	.00035	.00104	.00045	.00065	.00102	.00023
19	Miscellaneous fabricated textile products .....	.00056	.00038	.00043	.00052	.01747	.00298	.00757	.00102	.00030
20	Lumber and wood products, except containers .....	.01018	.00632	.00560	.00576	.00728	.00414	.05672	.01194	.00483
21	Wood containers .....	.00024	.00005	.00009	.00006	.00011	.00003	.00011	.00010	.00007
22	Household furniture .....	.00061	.00084	.00261	.00034	.00030	.00486	.00057	.00032	.00032
23	Other furniture and fixtures .....	.00277	.00021	.00017	.00015	.00153	.00451	.00273	.00207	.00122
24	Paper and allied products, except containers .....	.01770	.01348	.02183	.01658	.01210	.00788	.01093	.03007	.03300
25	Paperboard containers and boxes .....	.02087	.00597	.00870	.01221	.00601	.00258	.00444	.01188	.00822
26	Printing and publishing .....	.01419	.01773	.01561	.02002	.01359	.01443	.01199	.01609	.01598
27	Chemicals and selected chemical products .....	.04838	.02962	.07251	.09277	.03502	.01684	.02861	.03808	.05833
28	Plastics and synthetic materials .....	.02739	.01607	.02590	.02247	.02071	.00795	.01452	.02211	.02143
29	Drugs, cleaning and toilet preparations .....	.00213	.00156	.00289	.00342	.00214	.00166	.00170	.02070	.00444
30	Paints and allied products .....	.00522	.00222	.00202	.00426	.00747	.00219	.00847	.00278	.00137
31	Petroleum refining and related industries .....	.04179	.02519	.04528	.05754	.04098	.02551	.04018	.03674	.03634
32	Rubber and miscellaneous plastics products .....	.00236	.04858	.08867	.04851	.06125	.02162	.02304	.04015	.00421
33	Leather tanning and finishing .....	.00004	.00008	.00006	.00005	.00032	.00008	.00018	.00014	.00004
34	Footwear and other leather products .....	.00014	.00016	.00021	.00019	.00020	.00015	.00014	.00066	.00015
35	Glass and glass products .....	.04418	.00423	.01260	.00431	.00790	.00162	.00699	.00606	.00944
36	Stone and clay products .....	.00893	.00411	.00656	.00604	.01186	.00682	.01551	.00791	.01107
37	Primary iron and steel manufacturing .....	.08879	.02262	.03424	.04747	.13286	.04656	.10339	.04315	.01622
38	Primary nonferrous metals manufacturing .....	.10909	.05849	.13012	.13509	.05779	.06658	.05440	.07826	.05125
39	Metal containers .....	.00139	.00081	.00136	.00171	.00142	.00063	.00121	.00193	.00102
40	Heating, plumbing, and fabricated structural metal products .....	.00528	.00629	.00627	.00468	.00649	.00374	.03652	.00674	.00229
41	Screw machine products and stampings .....	.03555	.01341	.01935	.02145	.07298	.01582	.01795	.02424	.01431
42	Other fabricated metal products .....	.02692	.02123	.04487	.03571	.03163	.01685	.02870	.02931	.01602
43	Engines and turbines .....	.00238	.00118	.00176	.00293	.02346	.02346	.02665	.00173	.00111
44	Farm and garden machinery .....	.00431	.00032	.00041	.00052	.00117	.00040	.00196	.00086	.00029
45	Construction and mining machinery .....	.00207	.00091	.00158	.00281	.00321	.00134	.01567	.00152	.00093
46	Materials handling machinery and equipment .....	.00050	.00055	.00050	.00065	.00109	.00034	.00176	.00045	.00032
47	Metalworking machinery and equipment .....	.00767	.00379	.00690	.00710	.01205	.00528	.00640	.00045	.00032
48	Special industry machinery and equipment .....	.00056	.00071	.00132	.00113	.00116	.00071	.00121	.00227	.00096
49	General industrial machinery equipment .....	.00711	.00385	.00514	.01112	.01702	.00981	.03095	.00950	.00389
50	Miscellaneous machinery, except electrical .....	.00840	.00483	.00749	.01641	.03010	.01628	.01237	.00787	.00493
51	Office, computing, and accounting machines .....	.00164	.00324	.05704	.00621	.00135	.00356	.00102	.00911	.01115
52	Service industry machines .....	.00352	.00075	.00086	.00843	.02833	.00084	.00673	.00137	.00057
53	Electric industrial equipment and apparatus .....	.04498	.01268	.01953	.02905	.01063	.00631	.01768	.02310	.00960
54	Household appliances .....	.00203	.00072	.00051	.00211	.00147	.00042	.00879	.00084	.00032
55	Electric lighting and wiring equipment .....	.94270	.00486	.00441	.01108	.00880	.00122	.00689	.00362	.00253
56	Radio, TV, and communication equipment .....	.00795	.99450	.03510	.00657	.00715	.02269	.00551	.01972	.00881
57	Electronic components and accessories .....	.02836	.20490	1.12588	.10749	.00971	.04296	.00522	.05211	.09668
58	Miscellaneous electrical machinery and supplies .....	.02616	.00221	.00184	1.00289	.02016	.00318	.00460	.00683	.00281
59	Motor vehicles and equipment .....	.00613	.00488	.00427	.03039	1.27701	.00409	.03853	.00849	.00316
60	Aircraft and parts .....	.00111	.01354	.00156	.00200	.00907	1.18676	.00970	.00650	.00107
61	Other transportation equipment .....	.00112	.00060	.00084	.00117	.00168	.00092	1.01474	.00086	.00059
62	Scientific and controlling instruments .....	.00586	.00853	.00680	.00857	.00608	.02640	.00550	.94767	.00902
63	Optical, ophthalmic, and photographic equipment .....	.00605	.00578	.01113	.01045	.00180	.00650	.00152	.01222	.97849
64	Miscellaneous manufacturing .....	.00465	.00488	.00447	.00294	.00220	.00199	.00446	.00302	.00368
65	Transportation and warehousing .....	.05429	.03218	.05262	.06348	.06165	.03962	.04486	.03502	.03742
66	Communications, except radio and TV .....	.01840	.01993	.02475	.02102	.01421	.01487	.01456	.01759	.01476
67	Radio and television broadcasting .....	.00379	.00388	.00407	.00552	.00392	.00420	.00337	.00384	.00403
68	Private electric, gas, water, and sanitary services .....	.07245	.04564	.07669	.07800	.06814	.04392	.05626	.05429	.04563
69	Wholesale and retail trade .....	.11476	.09846	.13061	.12714	.14630	.05724	.10151	.08334	.07164
70	Finance and insurance .....	.03375	.02329	.03748	.04042	.02341	.03648	.02237	.02233	.03033
71	Real estate and rental .....	.02723	.02394	.03152	.03286	.02430	.01946	.03674	.02550	.02130
72	Hotels, personal and repair services (except auto) .....	.01130	.01102	.01067	.01505	.00652	.01677	.00543	.00573	.00598
73	Business and professional services except medical .....	.06833	.06987	.07335	.09947	.07055	.07567	.06055	.06921	.07257
74	Eating and drinking places .....	.01274	.01090	.01479	.01915	.01113	.00924	.01041	.01327	.01040
75	Automobile repair and services .....	.00672	.00436	.00619	.00963	.01830	.00412	.00752	.01158	.00592
76	Amusements .....	.00223	.00238	.00288	.00429	.00236	.00258	.00250	.00287	.00273
77	Health, educational, and social services and nonprofit organizations .....	.00238	.00324	.00458	.00277	.00313	.00324	.00203	.00479	.00665
78	Federal Government enterprises .....	.00750	.00780	.00766	.00752	.00830	.00705	.00635	.00716	.00543
79	State and local government enterprises .....	.01056	.00684	.01119	.01156	.01059	.00667	.00850	.00800	.00682
	<b>Total industry output multiplier .....</b>	<b>2.20910</b>	<b>2.04945</b>	<b>2.45218</b>	<b>2.49210</b>	<b>2.62192</b>	<b>2.05589</b>	<b>2.22865</b>	<b>2.04713</b>	<b>1.91799</b>

\*Less than 0.000005.



SURVEY OF CURRENT BUSINESS

July 1991

Total Requirements, 1982—Continued

of delivery to final demand, at producers' prices]

Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Private electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels, personal and repair services (exc. auto)	Business and professional services except medical	Eating and drinking places	Automobile repair and services	Amusements	Health, educational, and social services and nonprofit organizations	Federal Government enterprises	State and local government enterprises	Industry number
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
.00406	.00253	.00087	.00435	.00084	.00327	.00347	.00137	.00206	.00190	.09708	.00154	.00903	.00656	.00342	.00167	1
.00643	.00749	.00079	.00400	.00110	.00254	.00273	.00180	.00241	.00168	.06685	.00153	.00877	.00498	.00289	.00218	2
.00367	.00056	.00032	.00059	.00056	.00074	.00057	.00034	.00056	.00067	.01018	.00051	.00104	.00082	.00048	.00138	3
.00140	.00108	.00046	.00392	.00109	.00105	.00084	.00670	.00256	.00084	.00783	.00064	.01011	.00226	.00051	.00405	4
.00114	.00030	.00016	.00012	.00031	.00010	.00008	.00009	.00021	.00014	.00025	.00120	.00013	.00018	.00008	.00064	5
.00679	.00058	.00045	.00046	.00058	.00023	.00022	.00020	.00065	.00042	.00062	.00171	.00032	.00049	.00016	.00132	6
.00800	.00397	.00181	.00225	.09773	.00368	.00171	.00093	.00622	.00220	.00583	.00569	.00405	.00346	.00156	.02885	7
.05049	.13357	.01170	.01486	.29275	.03100	.01659	.00866	.05393	.01900	.03572	.03783	.02235	.02682	.01733	.11751	8
.00291	.00110	.00069	.00047	.00149	.00043	.00037	.00082	.00091	.00044	.00082	.00127	.00052	.00088	.00023	.00482	9
.00231	.00047	.00021	.00034	.00060	.00023	.00021	.00019	.00062	.00046	.00079	.00073	.00040	.00089	.00013	.00249	10
.02170	.04965	.04561	.02499	.08613	.01678	.01715	.05928	.02847	.01193	.01988	.01805	.02523	.04314	.00971	.31769	11
.00031	.00021	.00045	.00013	.00012	.00008	.00010	.00004	.00013	.00033	.00017	.00024	.00010	.00012	.00004	.00025	12
.01269	.00807	.00291	.01202	.00262	.01136	.01204	.00307	.00636	.00625	.34403	.00524	.02186	.02147	.01184	.00474	13
.00003	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.00001	(*)	(*)	(*)	(*)	(*)	(*)	14
.02869	.00165	.00071	.00162	.00090	.00097	.00106	.00039	.01011	.00142	.00169	.00338	.00349	.00273	.00163	.00189	15
.00818	.00104	.00038	.00050	.00061	.00050	.00041	.00034	.00196	.00065	.00103	.00138	.00080	.00099	.00043	.00158	17
.00165	.00059	.00046	.00063	.00022	.00021	.00015	.00006	.00475	.00025	.00017	.00074	.00161	.00110	.00015	.00109	18
.00574	.00099	.00015	.00062	.00024	.00042	.00068	.00014	.00669	.00033	.00053	.00293	.00143	.00151	.00150	.00050	19
.04580	.00380	.00253	.00361	.00518	.00497	.00049	.00260	.00437	.00523	.00480	.00357	.00725	.00481	.00105	.01327	20
.00019	.00003	.00001	.00003	.00002	.00016	.00002	.00001	.00005	.00002	.00040	.00009	.00005	.00005	.00002	.00004	21
.00207	.00010	.00026	.00014	.00005	.00004	.00004	.00003	.00019	.00006	.00009	.00014	.00009	.00007	.00002	.00014	22
.00130	.00014	.00007	.00006	.00012	.00006	.00004	.00007	.00011	.00007	.00007	.00003	.00009	.00011	.00004	.00036	23
.04031	.00637	.00467	.00744	.00452	.01743	.01317	.00313	.01356	.03525	.02227	.00813	.01034	.01960	.00376	.00914	24
.02343	.00187	.00103	.00133	.00110	.00425	.00130	.00053	.00291	.00188	.01517	.00336	.00162	.00275	.00102	.00221	25
.03045	.01290	.01111	.01597	.00763	.01829	.03808	.00611	.01997	.13713	.01856	.01065	.02241	.05396	.00977	.01283	26
.06210	.01158	.00532	.00855	.01395	.00575	.00524	.00457	.01595	.01163	.01959	.01658	.01017	.02329	.00318	.04609	27
.03867	.00356	.00212	.00250	.00253	.00197	.00169	.00105	.00686	.00341	.00517	.00665	.00294	.00533	.00118	.00587	28
.00520	.00124	.00065	.00100	.00103	.00105	.00090	.00042	.01296	.00244	.00487	.00145	.00143	.01662	.00096	.00234	29
.00778	.00167	.00175	.00068	.00170	.00065	.00055	.00102	.00110	.00097	.00100	.01125	.00082	.00118	.00043	.00555	30
.05123	.17888	.01140	.01420	.07568	.03270	.01850	.00978	.03151	.02094	.03313	.04142	.01879	.02757	.02012	.07012	31
.04528	.01104	.00632	.00691	.00663	.00536	.00418	.00272	.01773	.00940	.01734	.01537	.00763	.01740	.00270	.01187	32
.00223	.00004	.00002	.00007	.00002	.00004	.00005	.00001	.00075	.00004	.00007	.00008	.00015	.00007	.00008	.00004	33
.00248	.00011	.00007	.00031	.00006	.00018	.00019	.00004	.00339	.00015	.00030	.00017	.00063	.00018	.00022	.00011	34
.00347	.00124	.00067	.00104	.00102	.00018	.00075	.00038	.00465	.00078	.00873	.00874	.00095	.00260	.00057	.00207	35
.01010	.00359	.00238	.00175	.00506	.00158	.00125	.00274	.00533	.00160	.00224	.00917	.00192	.00306	.00080	.01940	36
.03813	.01051	.00546	.00359	.01024	.00332	.00244	.00033	.00653	.00434	.00766	.04462	.00384	.00470	.00287	.01934	37
.10583	.00715	.00643	.00644	.00668	.00264	.00265	.00225	.00833	.00507	.00739	.02069	.00369	.00456	.00194	.01367	38
.00184	.00072	.00032	.00060	.00050	.00119	.00059	.00024	.00069	.00072	.01193	.00138	.00097	.00131	.00051	.00108	39
.00534	.00379	.00272	.00166	.00622	.00127	.00113	.00325	.00215	.00124	.00173	.00300	.00174	.00260	.00073	.01701	40
.01063	.00262	.00307	.00153	.00266	.00138	.00090	.00055	.00256	.00174	.00215	.05282	.00161	.00196	.00169	.00339	41
.02052	.00951	.00443	.00333	.00296	.00340	.00195	.00206	.00531	.00325	.00477	.03988	.00314	.00389	.00193	.01277	42
.00184	.00380	.00338	.00051	.00841	.00065	.00054	.00026	.00093	.00119	.00102	.00552	.00079	.00059	.00058	.00356	43
.00051	.00036	.00016	.00029	.00070	.00030	.00030	.00006	.00032	.00193	.00113	.00053	.00050	.00027	.00011	.00622	44
.00146	.00137	.00047	.00038	.00552	.00046	.00031	.00042	.00072	.00055	.00069	.00137	.00053	.00059	.00026	.00365	45
.00049	.00031	.00022	.00017	.00071	.00036	.00016	.00023	.00024	.00075	.00023	.00041	.00022	.00023	.00014	.00128	46
.00621	.00172	.00055	.00058	.00102	.00053	.00037	.00022	.00094	.00112	.00103	.00418	.00055	.00056	.00039	.00187	47
.00145	.00033	.00018	.00026	.00032	.00032	.00034	.00011	.00047	.00115	.00145	.00053	.00034	.00048	.00013	.00062	48
.00525	.00600	.00225	.00091	.00445	.00093	.00100	.00057	.00155	.00341	.00176	.00505	.00115	.00113	.00081	.00441	49
.00951	.00518	.00093	.00110	.00371	.00139	.00087	.00056	.00220	.00173	.00583	.02136	.00135	.00110	.00108	.02009	50
.00790	.00092	.00151	.00245	.00051	.00112	.00277	.00032	.00848	.00595	.00084	.00092	.00113	.00120	.00043	.00088	51
.00196	.00122	.00065	.00063	.00126	.00076	.00040	.00034	.00433	.00075	.00073	.01193	.00101	.00075	.00069	.00421	52
.00521	.00698	.00336	.00137	.00393	.00086	.00094	.00072	.00261	.00208	.00129	.00583	.00104	.00126	.00082	.00459	53
.00170	.00045	.00030	.00031	.00058	.00024	.00022	.00040	.00819	.00038	.00028	.00099	.00033	.00036	.00012	.00304	54
.00189	.00143	.00127	.00095	.00233	.00059	.00060	.00096	.00219	.00086	.00129	.00521	.00147	.00179	.00095	.00520	55
.00597	.00146	.00187	.00448	.00094	.00099	.00166	.00059	.00242	.00159	.00077	.00277	.00098	.00159	.00039	.00260	56
.02844	.00250	.01660	.03388	.00149	.00184	.00343	.00069	.01967	.01042	.00173	.00395	.00241	.00291	.00069	.00251	57
.00155	.00106	.00046	.00081	.00049	.00049	.00032	.00039	.00051	.00071	.00051	.00920	.00043	.00140	.00058	.00258	58
.00450	.00798	.00138	.00149	.00470	.00412	.00191	.00072	.00253	.00261	.00271	.18747	.00239	.00213	.00997	.00419	59
.00086	.00734	.00090	.00031	.00133	.00027	.00035	.00011	.00036	.00042	.00049	.00189	.00030	.00032	.00058	.00091	60
.00151	.00981	.00033	.00151	.00079	.00039	.00068	.00017	.00047	.00141	.00121	.00078	.00386	.00039	.00082	.00166	61
.00389	.00088	.00071	.00077	.00225	.00054	.00051	.00032	.00134	.00122	.00064	.00221	.00079	.00749	.00035	.00215	62
.00302	.00124	.00136	.00108	.00094	.00140	.00573	.00057	.00533	.00610	.00125	.00133	.00476	.00386			



**Appendix A.—Industry Classification of the 1982 Input-Output Accounts<sup>1</sup>**

[The titles in boldface represent the groupings of industries used for the summary version of the 1982 tables. An asterisk preceding an SIC code indicates that the SIC industry is included in more than one I-O industry.]

Industry number and title	Related 1972 SIC codes	Industry number and title	Related 1972 SIC codes
<b>AGRICULTURE, FORESTRY, AND FISHERIES</b>			
<b>1 Livestock and livestock products:</b>		11.0308 Local transit facilities .....	*16-17
1.0100 Dairy farm products .....	0241, *0191, *0259, 0291	11.0400 Highways and streets .....	*16-17
1.0200 Poultry and eggs .....	025 (excl. 0254 and *0259), *0191, *0219, *0291	11.0501 Farm housing units and additions and alterations .....	*15, *17
		11.0502 Farm service facilities .....	*15, *17
1.0301 Meat animals .....	021 (excl. *0219), *0191, *0259, *0291	11.0601 Petroleum and natural gas well drilling .....	*138
1.0302 Miscellaneous livestock .....	027 (excl. *0279), *0191, *0219, *0259, *0291	11.0602 Petroleum, natural gas, and solid mineral exploration .....	*108, *1112, *1213, *138, *148
<b>2 Other agricultural products:</b>		11.0603 Access structures for solid mineral development .....	*108, *1112, *1213, *148
2.0100 Cotton .....	0131, *0191, *0219, *0259, *0291	11.0701 Military facilities .....	*15-17
2.0201 Food grains .....	*011, *0191, *0219, *0259, *0291	11.0702 Dams and reservoirs .....	*15-17
2.0202 Feed grains .....	*011, *0139, *0191, *0219, *0259, *0291	11.0703 Other conservation and development facilities .....	*15-17
2.0203 Grass seeds .....	*0139, *0191, *0219, *0259, *0291	11.0704 Other nonbuilding facilities .....	*15-17
2.0300 Tobacco .....	0132, *0191, *0219, *0259, *0291	<b>12 Maintenance and repair construction:</b>	
2.0401 Fruits .....	*017, *0191, *0219, *0259, *0291	12.0100 Nonfarm residential structures .....	*15, *17
2.0402 Tree nuts .....	0173, *0179, *0191, *0219, *0259, *0291	12.0201 Other nonfarm buildings .....	*15-17
2.0501 Vegetables .....	0134, 0161, *0119, *0139, *0191, *0219, *0259, *0291	12.0202 Farm residential buildings .....	*15, *17
2.0502 Sugar crops .....	0133, *0191, *0219, *0259, *0291	12.0203 Farm service facilities .....	*15, *17
2.0503 Miscellaneous crops .....	*0119, *0139, *0191, *0219, *0259, *0291	12.0204 Telephone and telegraph facilities .....	*16-17
2.0600 Oil bearing crops .....	0116, *0119, *013, *0173, *0219, *0259, *0291	12.0205 Railroads .....	*16-17
2.0701 Forest products .....	*018, *0191, *0219, *0259, *0291	12.0206 Electric utility facilities .....	*16-17
2.0702 Greenhouse and nursery products .....	*018, *0191, *0219, *0259, *0291	12.0207 Gas utility facilities .....	*16-17
<b>3 Forestry and fishery products:</b>		12.0208 Petroleum pipelines .....	*16-17
3.0001 Forestry products .....	081-4, 097	12.0209 Water supply facilities .....	*16-17
3.0002 Commercial fishing .....	091	12.0210 Sewer facilities .....	*16-17
<b>4 Agricultural, forestry, and fishery services:</b>		12.0211 Local transit facilities .....	*16-17
4.0001 Agricultural, forestry, and fishery services .....	0254, 07 (excl. 074, and 078), 085, 092, *0279	12.0212 Military facilities .....	*15-17
4.0002 Landscape and horticultural services .....	078	12.0213 Conservation and development facilities .....	*15-17
<b>MINING</b>			
<b>5 Iron and ferrous alloy ores mining:</b>		12.0214 Highways and streets .....	*16-17
5.0000 Iron and ferrous alloy ores .....	101, 106	12.0215 Petroleum and natural gas wells .....	*138
<b>6 Nonferrous metal ores mining:</b>		12.0216 Other nonbuilding facilities .....	*15-17
6.0100 Copper ore .....	102	<b>MANUFACTURING</b>	
6.0200 Nonferrous metal ores, except copper .....	103-5, *108, 109	<b>13 Ordnance and accessories:</b>	
<b>7 Coal mining:</b>		13.0100 Guided missiles and space vehicles .....	3761
7.0000 Coal .....	1111, *1112, 1211, *1213	13.0200 Ammunition, except for small arms, n.e.c. ....	3483
<b>8 Crude petroleum and natural gas:</b>		13.0300 Tanks and tank components .....	3795
8.0000 Crude petroleum and natural gas .....	131, 132	13.0500 Small arms .....	3484
<b>9 Stone and clay mining and quarrying:</b>		13.0600 Small arms ammunition .....	3482
9.0001 Dimension, crushed and broken stone .....	141-2	13.0700 Other ordnance and accessories .....	3489
9.0002 Sand and gravel .....	144	<b>14 Food and kindred products:</b>	
9.0003 Clay, ceramic, and refractory minerals .....	145	14.0101 Meat packing plants .....	2011
9.0004 Nonmetallic mineral services and miscellaneous minerals .....	*148, 149	14.0102 Sausages and other prepared meats .....	2013
<b>10 Chemical and fertilizer mineral mining:</b>		14.0103 Poultry dressing plants .....	2016
10.0000 Chemical and fertilizer mineral .....	147	14.0104 Poultry and egg processing .....	2017
<b>CONSTRUCTION</b>			
<b>11 New construction:</b>		14.0200 Creamery butter .....	2021
11.0101 Residential 1-unit structures, nonfarm .....	*15, *17, 6552	14.0300 Cheese, natural and processed .....	2022
11.0102 Residential 2-4 unit structures, nonfarm .....	*15-17	14.0400 Condensed and evaporated milk .....	2023
11.0103 Residential garden apartments .....	*15-17, 6552	14.0500 Ice cream and frozen desserts .....	2024
11.0104 Residential high-rise apartments .....	*15-17	14.0600 Fluid milk .....	2026
11.0105 Residential additions and alterations, nonfarm .....	*15-17	14.0700 Canned and cured seafoods .....	2091
11.0106 Hotels and motels .....	*15-17	14.0800 Canned specialties .....	2032
11.0107 Dormitories and other group housing .....	*15-17	14.0900 Canned fruits and vegetables .....	2033
11.0201 Industrial buildings .....	*15-17	14.1000 Dehydrated food products .....	2034
11.0202 Office buildings .....	*15-17	14.1100 Pickles, sauces, and salad dressings .....	2035
11.0203 Warehouses .....	*15-17	14.1200 Fresh or frozen packaged fish .....	2037
11.0204 Garages and service stations .....	*15-17	14.1301 Frozen fruits, fruit juices and vegetables .....	2038
11.0205 Stores and restaurants .....	*15-17	14.1401 Flour and other grain mill products .....	2041
11.0206 Religious buildings .....	*15-17	14.1402 Cereal breakfast foods .....	2043
11.0207 Educational buildings .....	*15-17	14.1403 Blended and prepared flour .....	2045
11.0231 Hospitals .....	*15-17	14.1501 Dog, cat, and other pet food .....	2047
11.0232 Residential institutions and other health related facilities .....	*15-17	14.1502 Prepared feeds, n.e.c. ....	2048
11.0241 Amusement and recreation buildings .....	*15-17	14.1600 Rice milling .....	2044
11.0250 Other nonfarm buildings .....	*15-17	14.1700 Wet corn milling .....	2046
11.0301 Telephone and telegraph facilities .....	*16-17	14.1801 Bread, cake, and related products .....	*2051, 5462
11.0302 Railroads .....	*16-17	14.1802 Cookies and crackers .....	2052
11.0303 Electric utility facilities .....	*16-17	14.1900 Sugar .....	2061-3
11.0304 Gas utility facilities .....	*16-17	14.2001 Confectionery products .....	2065
11.0305 Petroleum pipelines .....	*16-17	14.2002 Chocolate and cocoa products .....	2066
11.0306 Water supply facilities .....	*16-17	14.2003 Chewing gum .....	2067
11.0307 Sewer system facilities .....	*16-17	14.2101 Malt beverages .....	2082
		14.2102 Malt .....	2083
		14.2103 Wines, brandy, and brandy spirits .....	2084
		14.2104 Distilled liquor, except brandy .....	2085
		14.2200 Bottled and canned soft drinks .....	2086
		14.2300 Flavoring extracts and syrups, n.e.c. ....	2087
		14.2400 Cottonseed oil mills .....	2074
		14.2500 Soybean oil mills .....	2075
		14.2600 Vegetable oil mills, n.e.c. ....	2076
		14.2700 Animal and marine fats and oils .....	2077
		14.2800 Roasted coffee .....	2095
		14.2900 Shortening and cooking oils .....	2079
		14.3000 Manufactured ice .....	2097
		14.3100 Macaroni and spaghetti .....	2098
		14.3200 Food preparations, n.e.c. ....	2099
		<b>15 Tobacco manufactures:</b>	
		15.0101 Cigarettes .....	211
		15.0102 Cigars .....	212
		15.0103 Chewing and smoking tobacco .....	213
		15.0200 Tobacco stemming and redrying .....	214
		<b>16 Broad and narrow fabrics, yarn and thread mills:</b>	
		16.0100 Broadwoven fabric mills and fabric finishing plants .....	221-3, 2261-2
		16.0200 Narrow fabric mills .....	224
		16.0300 Yarn mills and finishing of textiles, n.e.c. ....	2269, 2281-3
		16.0400 Thread mills .....	2284
		<b>17 Miscellaneous textile goods and floor coverings:</b>	
		17.0100 Floor coverings .....	227

Appendix A.—Industry Classification of the 1982 Input Accounts—Continued

Industry number and title	Related 1972 SIC codes	Industry number and title	Related 1972 SIC codes
17.0200 Felt goods, n.e.c.	2291	27.0201 Nitrogenous and phosphatic fertilizers	2873-4
17.0300 Lace goods	2292	27.0202 Fertilizers, mixing only	2875
17.0400 Padding and upholstery filling	2293	27.0300 Agricultural chemicals, n.e.c.	2879
17.0500 Processed textile waste	2294	27.0401 Gum and wood chemicals	2861
17.0600 Coated fabrics, not rubberized	2295	27.0402 Adhesives and sealants	2891
17.0700 Tire cord and fabric	2296	27.0403 Explosives	2892
17.0900 Cordage and twine	2298	27.0404 Printing ink	2893
17.1001 Nonwoven fabrics	2297	27.0405 Carbon black	2895
17.1002 Textile goods, n.e.c.	2299	27.0406 Chemical preparations, n.e.c.	2899
<b>18 Apparel:</b>		<b>28 Plastics and synthetic materials:</b>	
18.0101 Women's hosiery, except socks	2251	28.0100 Plastics materials and resins	2821
18.0102 Hosiery, n.e.c.	2252	28.0200 Synthetic rubber	2822
18.0201 Knit outerwear mills	2253	28.0300 Cellulosic manmade fibers	2823
18.0202 Knit underwear mills	2254	28.0400 Organic fibers, noncellulosic	2824
18.0203 Knitting mills, n.e.c.	2254		
18.0300 Knit fabric mills	2259	<b>29 Drugs, cleaning and toilet preparations:</b>	
18.0400 Apparel made from purchased materials	2257-8, 231-8, *3999	29.0100 Drugs	283
<b>19 Miscellaneous fabricated textile products:</b>		29.0201 Soap and other detergents	2841
19.0100 Curtains and draperies	2391	29.0202 Polishes and sanitation goods	2842
19.0200 Housefurnishings, n.e.c.	2392	29.0203 Surface active agents	2843
19.0301 Textile bags	2393	29.0300 Toilet preparations	2844
19.0302 Canvas and related products	2394		
19.0303 Pleating and stitching	2395	<b>30 Paints and allied products:</b>	
19.0304 Automotive and apparel trimmings	2396	30.0000 Paints and allied products	285
19.0305 Schiffl machine embroideries	2397		
19.0306 Fabricated textile products, n.e.c.	2399	<b>31 Petroleum refining and related products:</b>	
<b>20 Lumber and wood products, except containers:</b>		31.0101 Petroleum refining	291
20.0100 Logging camps and logging contractors	2411	31.0102 Lubricating oils and greases	2992
20.0200 Sawmills and planing mills, general	2421	31.0103 Products of petroleum and coal, n.e.c.	2999
20.0300 Hardwood dimension and flooring mills	2426	31.0200 Paving mixtures and blocks	2951
20.0400 Special product sawmills, n.e.c.	2429	31.0300 Asphalt felts and coatings	2952
20.0501 Millwork	2431		
20.0502 Wood kitchen cabinets	2434	<b>32 Rubber and miscellaneous plastics products:</b>	
20.0600 Veneer and plywood	2435-6	32.0100 Tires and inner tubes	301
20.0701 Structural wood members, n.e.c.	2439	32.0200 Rubber and plastics footwear	302
20.0702 Prefabricated wood buildings	2452	32.0301 Reclaimed rubber	303
20.0800 Wood preserving	2491	32.0302 Fabricated rubber products, n.e.c.	306
20.0901 Wood pallets and skids	2448	32.0400 Miscellaneous plastics products	307
20.0902 Particleboard	2492	32.0500 Rubber and plastics hose and belting	304
20.0903 Wood products, n.e.c.	2499		
<b>21 Wood containers:</b>		<b>33 Leather tanning and finishing:</b>	
21.0000 Wood containers	2441, 2449	33.0001 Leather tanning and finishing	311
<b>22 Household furniture:</b>		<b>34 Footwear and other leather products:</b>	
22.0101 Wood household furniture	2511	34.0100 Boot and shoe cutstock and findings	313
22.0102 Household furniture, n.e.c.	2519	34.0201 Shoes, except rubber	3143-9
22.0103 Wood TV and radio cabinets	2517	34.0202 House slippers	3142
22.0200 Upholstered household furniture	2512	34.0301 Leather gloves and mittens	315
22.0300 Metal household furniture	2514	34.0302 Luggage	316
22.0400 Mattresses and bedsprings	2515	34.0303 Women's handbags and purses	3171
		34.0304 Personal leather goods	3172
		34.0305 Leather goods, n.e.c.	319
<b>23 Other furniture and fixtures:</b>		<b>35 Glass and glass products:</b>	
23.0100 Wood office furniture	2521	35.0100 Glass and glass products, except containers	321, 3229, 323
23.0200 Metal office furniture	2522	35.0200 Glass containers	3221
23.0300 Public building furniture	2531		
23.0400 Wood partitions and fixtures	2541	<b>36 Stone and clay products:</b>	
23.0500 Metal partitions and fixtures	2542	36.0100 Cement, hydraulic	324
23.0600 Drapery hardware and blinds and shades	2591	36.0200 Brick and structural clay tile	3251
23.0700 Furniture and fixtures, n.e.c.	2599	36.0300 Ceramic wall and floor tile	3253
		36.0400 Clay refractories	3255
<b>24 Paper and allied products, except containers:</b>		36.0500 Structural clay products, n.e.c.	3259
24.0100 Pulp mills	261	36.0600 Vitreous plumbing fixtures	3261
24.0200 Paper mills, except building paper	262	36.0701 Vitreous china food utensils	3262
24.0300 Paperboard mills	263	36.0702 Fine earthenware food utensils	3263
24.0400 Envelopes	2642	36.0800 Porcelain electrical supplies	3264
24.0500 Sanitary paper products	2647	36.0900 Pottery products, n.e.c.	3269
24.0602 Building paper and board mills	266	36.1000 Concrete block and brick	3271
24.0701 Paper coating and glazing	2641	36.1100 Concrete products, n.e.c.	3272
24.0702 Bags, except textile	2643	36.1200 Ready-mixed concrete	3273
24.0703 Die-cut paper and board	2645	36.1300 Lime	3274
24.0704 Pressed and molded pulp goods	2646	36.1400 Gypsum products	3275
24.0705 Stationery products	2648	36.1500 Cutstone and stone products	328
24.0706 Converted paper products, n.e.c.	2649	36.1600 Abrasive products	3291
		36.1700 Asbestos products	3292
<b>25 Paperboard containers and boxes:</b>		36.1800 Gaskets, packing and sealing devices	3293
25.0000 Paperboard containers and boxes	265	36.1900 Minerals, ground or treated	3295
		36.2000 Mineral wool	3296
<b>26 Printing and publishing:</b>		36.2100 Nonclay refractories	3297
26.0100 Newspapers	271	36.2200 Nonmetallic mineral products, n.e.c.	3299
26.0200 Periodicals	272		
26.0301 Book publishing	2731	<b>37 Primary iron and steel manufacturing:</b>	
26.0302 Book printing	2732	37.0101 Blast furnaces and steel mills	3312
26.0400 Miscellaneous publishing	274	37.0102 Electrometallurgical products	3313
26.0501 Commercial printing	2751-2, 2754	37.0103 Steel wire and related products	3315
26.0502 Lithographic platemaking and services	2795	37.0104 Cold finishing of steel shapes	3316
26.0601 Manifold business forms	276	37.0105 Steel pipe and tubes	3317
26.0602 Blankbooks and looseleaf binders	2782	37.0200 Iron and steel foundries	332
26.0700 Greeting card publishing	277	37.0300 Iron and steel forgings	3462
26.0801 Engraving and plate printing	2753	37.0401 Metal heat treating	3398
26.0802 Bookbinding and related work	2789	37.0402 Primary metal products, n.e.c.	3399
26.0803 Typesetting	2791		
26.0804 Photoengraving, electrotyping and stereotyping	2793, 2794	<b>38 Primary nonferrous metals manufacturing:</b>	
<b>27 Chemicals and selected chemical products:</b>		38.0100 Primary copper	3331
27.0101 Alkalies and chlorine	2812	38.0200 Primary lead	3332
27.0102 Industrial gases	2813	38.0300 Primary zinc	3333
27.0103 Inorganic pigments	2816	38.0400 Primary aluminum	*2819, 3334
27.0104 Industrial inorganic chemicals, n.e.c.	*2819	38.0500 Primary nonferrous metals, n.e.c.	3339
27.0105 Cyclic crudes, intermediates, and industrial organic chemicals	286	38.0600 Secondary nonferrous metals	334
		38.0700 Copper rolling and drawing	3351
		38.0800 Aluminum rolling and drawing	3353-5

## Appendix A.—Industry Classification of the 1982 Input-Output Accounts—Continued

Industry number and title	Related 1972 SIC codes	Industry number and title	Related 1972 SIC codes
38.0900 Nonferrous rolling and drawing, n.e.c.	3356	53.0200 Transformers	3612
38.1000 Nonferrous wire drawing and insulating	3357	53.0300 Switchgear and switchboard apparatus	3613
38.1100 Aluminum castings	3361	53.0400 Motors and generators	3621
38.1200 Brass, bronze, and copper castings	3362	53.0500 Industrial controls	3622
38.1300 Nonferrous castings, n.e.c.	3369	53.0600 Welding apparatus, electric	3623
38.1400 Nonferrous forgings	3463	53.0700 Carbon and graphite products	3624
		53.0800 Electrical industrial apparatus, n.e.c.	3629
<b>39 Metal containers:</b>		<b>54 Household appliances:</b>	
39.0100 Metal cans	3411	54.0100 Household cooking equipment	3631
39.0200 Metal barrels, drums, and pails	3412	54.0200 Household refrigerators and freezers	3632
<b>40 Heating, plumbing, and fabricated structural metal products:</b>		54.0300 Household laundry equipment	3633
40.0100 Metal sanitary ware	3431	54.0400 Electric housewares and fans	3634
40.0200 Plumbing fixture fittings and trim	3432	54.0500 Household vacuum cleaners	3635
40.0300 Heating equipment, except electric	3433	54.0600 Sewing machines	3636
40.0400 Fabricated structural metal	3441	54.0700 Household appliances, n.e.c.	3639
40.0500 Metal doors, sash, and trim	3442		
40.0600 Fabricated plate work (boiler shops)	3443	<b>55 Electric lighting and wiring equipment:</b>	
40.0700 Sheet metal work	3444	55.0100 Electric lamps	3641
40.0800 Architectural metal work	3446	55.0200 Lighting fixtures and equipment	3645-8
40.0901 Prefabricated metal buildings	3448	55.0300 Wiring devices	3643-4
40.0902 Miscellaneous metal work	3449		
<b>41 Screw machine products and stampings:</b>		<b>56 Radio, TV, and communication equipment:</b>	
41.0100 Screw machine products and bolts, nuts, rivets, and washers	345	56.0100 Radio and TV receiving sets	3651
41.0201 Automotive stampings	3465	56.0200 Phonograph records and tapes	3652
41.0202 Crowns and closures	3466	56.0300 Telephone and telegraph apparatus	3661
41.0203 Metal stampings, n.e.c.	3469	56.0400 Radio and TV communication equipment	3662
<b>42 Other fabricated metal products:</b>		<b>57 Electronic components and accessories:</b>	
42.0100 Cutlery	3421	57.0100 Electron tubes	3671-3
42.0201 Hand and edge tools, n.e.c.	3423	57.0200 Semiconductors and related devices	3674
42.0202 Hand saws and saw blades	3425	57.0300 Other electronic components	3675-9
42.0300 Hardware, n.e.c.	3429		
42.0401 Plating and polishing	3471	<b>58 Miscellaneous electrical machinery and supplies:</b>	
42.0402 Metal coating and allied services	3479	58.0100 Storage batteries	3691
42.0500 Miscellaneous fabricated wire products	3495-6	58.0200 Primary batteries, dry and wet	3692
42.0700 Steel springs, except wire	3493	58.0300 X-ray apparatus and tubes	3693
42.0800 Pipe, valves, and pipe fittings	3494, 3498	58.0400 Engine electrical equipment	3694
42.1000 Metal foil and leaf	3497	58.0500 Electrical equipment and supplies, n.e.c.	3699
42.1100 Fabricated metal products, n.e.c.	3499		
<b>43 Engines and turbines:</b>		<b>59 Motor vehicles and equipment:</b>	
43.0100 Turbines and turbine generator sets	3511	59.0100 Truck and bus bodies	3713
43.0200 Internal combustion engines, n.e.c.	3519	59.0200 Truck trailers	3715
		59.0301 Motor vehicles and car bodies	3711
		59.0302 Motor vehicle parts and accessories	3714
<b>44 Farm and garden machinery:</b>		<b>60 Aircraft and parts:</b>	
44.0001 Farm machinery and equipment	3523	60.0100 Aircraft	3721
44.0002 Lawn and garden equipment	3524	60.0200 Aircraft and missile engines and engine parts	3724, 3764
<b>45 Construction and mining machinery:</b>		60.0400 Aircraft and missile equipment, n.e.c.	3728, 3769
45.0100 Construction machinery and equipment	3531		
45.0200 Mining machinery, except oil field	3532	<b>61 Other transportation equipment:</b>	
45.0300 Oil field machinery	3533	61.0100 Ship building and repairing	3731
<b>46 Materials handling machinery and equipment:</b>		61.0200 Boat building and repairing	3732
46.0100 Elevators and moving stairways	3534	61.0300 Railroad equipment	374
46.0200 Conveyors and conveying equipment	3535	61.0500 Motorcycles, bicycles, and parts	375
46.0300 Hoists, cranes, and monorails	3536	61.0601 Travel trailers and campers	3792
46.0400 Industrial trucks and tractors	3537	61.0602 Mobile homes	2451
		61.0603 Motor homes (made on purchased chassis)	3716
		61.0700 Transportation equipment, n.e.c.	3799
<b>47 Metalworking machinery and equipment:</b>		<b>62 Scientific and controlling instruments:</b>	
47.0100 Machine tools, metal cutting types	3541	62.0100 Engineering and scientific instruments	3811
47.0200 Machine tools, metal forming types	3542	62.0200 Mechanical measuring devices	3823-4, 3829
47.0300 Special dies and tools and machine tool accessories	3544-5	62.0300 Environmental controls	3822
47.0401 Power driven hand tools	3546	62.0400 Surgical and medical instruments	3841
47.0402 Rolling mill machinery	3547	62.0500 Surgical appliances and supplies	3842
47.0403 Metalworking machinery, n.e.c.	3549	62.0600 Dental equipment and supplies	3843
		62.0700 Watches, clocks, and parts	387
<b>48 Special industry machinery and equipment:</b>		<b>63 Optical, ophthalmic, and photographic equipment:</b>	
48.0100 Food products machinery	3551	63.0100 Optical instruments and lenses	383
48.0200 Textile machinery	3552	63.0200 Ophthalmic goods	385
48.0300 Woodworking machinery	3553	63.0300 Photographic equipment and supplies	386
48.0400 Paper industries machinery	3554		
48.0500 Printing trades machinery	3555	<b>64 Miscellaneous manufacturing:</b>	
48.0600 Special industry machinery, n.e.c.	3559	64.0101 Jewelry, precious metal	3911
<b>49 General industrial machinery and equipment:</b>		64.0102 Jewelers' materials and lapidary work	3915
49.0100 Pumps and compressors	3561, 3563	64.0104 Silverware and plated ware	3914
49.0200 Ball and roller bearings	3562	64.0105 Costume jewelry	3961
49.0300 Blowers and fans	3564	64.0200 Musical instruments	393
49.0400 Industrial patterns	3565	64.0301 Games, toys, and children's vehicles	3944
49.0500 Power transmission equipment	3566, 3568	64.0302 Dolls	3942
49.0600 Industrial furnaces and ovens	3567	64.0400 Sporting and athletic goods, n.e.c.	3949
49.0700 General industrial machinery, n.e.c.	3569	64.0501 Pens and mechanical pencils	3951
<b>50 Miscellaneous machinery, except electrical:</b>		64.0502 Lead pencils and art goods	3952
50.0001 Carburetors, pistons, rings, and valves	3592	64.0503 Marking devices	3953
50.0002 Machinery, except electrical, n.e.c.	3599	64.0504 Carbon paper and inked ribbons	3955
		64.0600 Artificial trees and flowers	3962
<b>51 Office, computing, and accounting machines:</b>		64.0701 Buttons	3963
51.0101 Electronic computing equipment	3573	64.0702 Needles, pins, and fasteners	3964
51.0102 Calculating and accounting machines	3574	64.0800 Brooms and brushes	3991
51.0300 Scales and balances	3576	64.0900 Hard surface floor coverings	3996
51.0400 Typewriters and office machines, n.e.c.	3572, 3579	64.1000 Burial caskets and vaults	3995
		64.1100 Signs and advertising displays	3993
<b>52 Service industry machines:</b>		64.1200 Manufacturing industries, n.e.c.	*3999
52.0100 Automatic merchandising machines	3581		
52.0200 Commercial laundry equipment	3582	<b>TRANSPORTATION, COMMUNICATIONS, AND UTILITIES</b>	
52.0300 Refrigeration and heating equipment	3585	<b>65 Transportation and warehousing:</b>	
52.0400 Measuring and dispensing pumps	3586	65.0100 Railroads and related services	40, 474, *4789
52.0500 Service industry machines, n.e.c.	3589	65.0200 Local and suburban transit and interurban highways passenger transportation	41
<b>53 Electric industrial equipment and apparatus:</b>			
53.0100 Instruments to measure electricity	3825		

Appendix A.—Industry Classification of the 1982 Input-Output Accounts—Continued

Industry number and title	Related 1972 SIC codes	Industry number and title	Related 1972 SIC codes
65.0300 Motor freight transportation and warehousing .....	42, *4789	73.0302 Engineering, architectural, and surveying services .....	8911
65.0400 Water transportation .....	44	73.0303 Accounting, auditing and bookkeeping, and miscellaneous services, n.e.c.	893, 899
65.0500 Air transportation .....	45		
65.0600 Pipelines, except natural gas .....	46	<b>74 Eating and drinking places:</b>	
65.0701 Freight forwarders and other transportation services .....	471, 4723, *478	74.0000 Eating and drinking places .....	58
65.0702 Arrangement of passenger transportation .....	4722		
<b>66 Communications, except radio and TV:</b>		<b>75 Automobile repair and services:</b>	
66.0000 Communications, except radio and TV .....	48 (excl. 483)	75.0001 Automotive rental and leasing, without drivers .....	751
		75.0002 Automotive repair shops and services .....	753, 7549
		75.0003 Automobile parking and car washes .....	752, 7542
<b>67 Radio and TV broadcasting:</b>		<b>76 Amusements:</b>	
67.0000 Radio and TV broadcasting .....	483	76.0100 Motion pictures .....	78
		76.0201 Theatrical producers (except motion pictures), bands, and entertainers.	792
<b>68 Electric, gas, water, and sanitary services:</b>		76.0202 Bowling alleys, billiard and pool establishments .....	793
68.0100 Electric services (utilities) .....	491, *493	76.0203 Commercial sports, except racing .....	7941
68.0200 Gas production and distribution (utilities) .....	492, *493	76.0204 Racing (including track operations) .....	7948
68.0301 Water supply and sewerage systems .....	494, 4952	76.0205 Membership sports and recreation clubs .....	7997
68.0302 Sanitary services, steam supply, and irrigation systems .....	495 (excl. 4952), 496-7, *493	76.0206 Other amusement and recreation services .....	791, 799 (excl. 7997)
<b>WHOLESALE AND RETAIL TRADE</b>			
<b>69 Wholesale and retail trade:</b>		<b>77 Health, educational, and social services and nonprofit organizations:</b>	
69.0100 Wholesale trade .....	50, 51	77.0100 Doctors and dentists .....	801-3, 8041
69.0200 Retail trade, except eating and drinking .....	52-7 (excl. 5462), 59, 7396, 8042	77.0200 Hospitals .....	806
		77.0301 Nursing and personal care facilities .....	805
		77.0302 Other medical and health services, including veterinarians .....	821
		77.0401 Elementary and secondary schools .....	822
		77.0402 Colleges, universities, and professional schools .....	822-9
		77.0403 Libraries, correspondence and vocational schools, and educational services, n.e.c.	861-2
		77.0501 Business associations and professional membership organizations .....	863-4
		77.0502 Labor organizations and civic, social, and fraternal associations .....	866
		77.0503 Religious organizations .....	84, 865, 869, 8922, 6732
		77.0504 Other membership organizations .....	8331
		77.0600 Job training and related services .....	8361
		77.0700 Child day care services .....	8321, 8399
		77.0800 Residential care .....	
		77.0900 Social services, n.e.c.	
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>			
<b>70 Finance and insurance:</b>		<b>GOVERNMENT ENTERPRISES</b>	
70.0100 Banking .....	60	<b>78 Federal Government enterprises:</b>	
70.0200 Credit agencies other than banks .....	61, 67 (excl. 6732)	78.0100 U.S. Postal Service .....	(2)
70.0300 Security and commodity brokers .....	62	78.0200 Federal electric utilities .....	(2)
70.0400 Insurance carriers .....	63	78.0300 Commodity Credit Corporation .....	(2)
70.0500 Insurance agents, brokers, and services .....	64	78.0400 Other Federal Government enterprises .....	(2)
		<b>79 State and local government enterprises:</b>	
<b>71 Real estate and rental:</b>		79.0100 Local government passenger transit .....	(2)
71.0100 Owner-occupied dwellings .....	65-6, (excl. 6552)	79.0200 State and local electric utilities .....	(2)
71.0201 Real estate .....		79.0300 Other State and local government enterprises .....	(2)
71.0202 Royalties .....			
<b>SERVICES</b>			
<b>72 Hotels; personal and repair services (except auto):</b>		<b>SPECIAL INDUSTRIES</b>	
72.0100 Hotels and lodging places .....	70	<b>80 Noncomparable imports:</b>	
72.0201 Laundry, cleaning, garment services, and shoe repair .....	721, 725	80.0000 Noncomparable imports .....	(2)
72.0202 Funeral service and crematories .....	726	<b>81 Scrap, used and secondhand goods:</b>	
72.0203 Portrait, photographic studios, and other miscellaneous personal services.	722, 729	81.0001 Scrap .....	(4)
72.0204 Electrical repair shops .....	762	81.0002 Used and secondhand goods .....	(4)
72.0205 Watch, clock, jewelry, and furniture repair .....	763-4	<b>82 Government industry<sup>6</sup>:</b>	
72.0300 Beauty and barber shops .....	723-4	82.0000 Government industry .....	(2)
		<b>83 Rest of the world industry:</b>	
<b>73 Business and professional services, except medical:</b>		83.0000 Rest of the world industry .....	(2)
73.0101 Miscellaneous repair shops .....	769	<b>84 Household industry:</b>	
73.0102 Services to dwellings and other buildings .....	734	84.0000 Household industry .....	(7)
73.0103 Personnel supply services .....	736	<b>85 Inventory valuation adjustment:</b>	
73.0104 Computer and data processing services .....	737	85.0000 Inventory valuation adjustment .....	(2)
73.0105 Management and consulting services, testing and research labs .....	7391-2, 7397		
73.0106 Detective and protective services .....	7393		
73.0107 Equipment rental and leasing services .....	7394		
73.0108 Photofinishing labs, photocopy, and commercial photography .....	7332-3, 7395		
73.0109 Other business services .....	732, 7331, 7339, 735, 7399		
73.0200 Advertising .....	731		
73.0301 Legal services .....	811		

1. The I-O industry classification shown in this appendix defines the industry data shown in the 1982 I-O accounts. A comparable commodity classification is not shown. However, the commodity titles used in the I-O tables are the same as the industry titles and, for the most part, the commodity output for the I-O industry is consistent with the primary product of the related SIC. Where the same commodity is the primary product of more than one SIC, the I-O accounts group the commodity as output of the I-O industry that is the largest producer.

2. Although the SIC assigns the same codes to activities of both private firms and government agencies, SIC codes in the I-O accounts are used only for classifying private activities.

3. Noncomparable imports include imported commodities that are not commercially produced in the United States, imported used goods, and commodities that are produced abroad and used abroad by U.S. residents—for example, defense spending abroad.

4. Industry output is zero because there is no primary producing industry. Scrap is a secondary product of

many industries, and used goods are sales and purchases typically between final uses. The sales are shown as negative values in the use table.

5. Industry output is defined as the compensation of general government employees except for those engaged in construction work; their compensation is included in industries 11 and 12. It also excludes the compensation of employees of government enterprises.

6. Industry output is defined as receipts of factor income by U.S. residents from abroad, less payments of factor income by U.S. residents to foreigners. The commodity entries include adjustments to personal consumption expenditures and government purchases that eliminate items that are actually exports.

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

8. The inventory valuation adjustment converts the inventory change based on withdrawals valued primarily at historical cost as reported by most businesses to replacement cost, the valuation used in the I-O accounts.