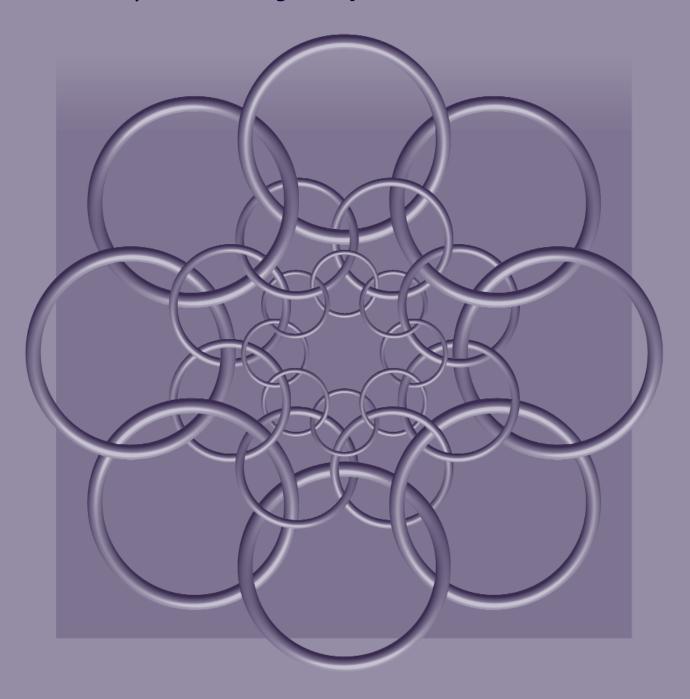
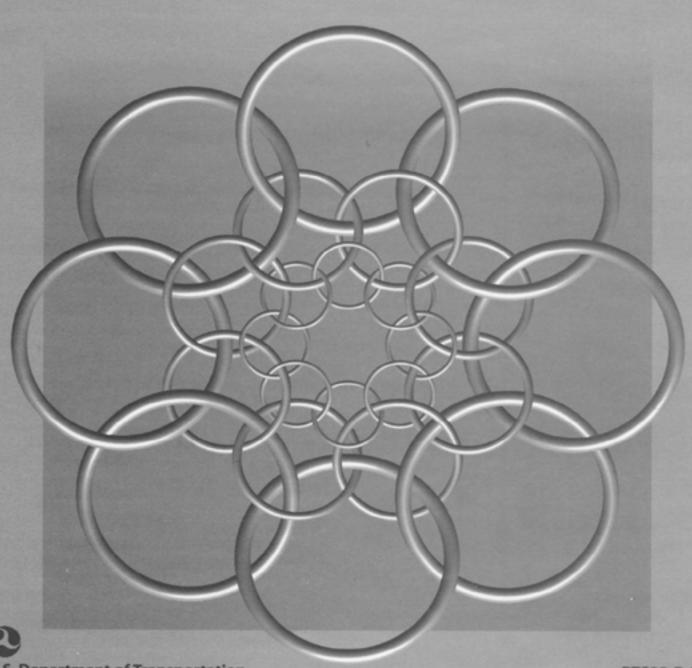
Transportation Satellite Accounts

A New Way of Measuring Transportation Services in America



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U.S. Department of Transportation Bureau of Transportation Statistics

BTS99-R-01 February 1999

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Overview

he magnitude of transportation services has long been underestimated in national economic data used by government and private sector decisionmakers. One reason is that, until now, national measures of transportation services only counted the value of for-hire transportation services. For-hire transportation services are provided by transportation firms to industries and the public on a fee basis, such as railroads, transit agencies, common carrier trucking companies, and pipeline companies. The sizable contribution of in-house transportation (i.e., transportation services that take place within nontransportation industries) was not explicitly identified, and their output was counted as part of nontransportation industries' output, rather than transportation output.

Now, a new accounting tool, called the Transportation Satellite Accounts (TSAs), provides a way to measure both in-house and for-hire transportation services. Developed jointly by the Bureau of Transportation Statistics (BTS) of the U.S. Department of Transportation and the Bureau of Economic Analysis of the U.S. Department of Commerce, the TSAs reveal several important features concerning the relationship between transportation and the U.S. economy that have not been known before:

- Transportation services contributed about \$313 billion, or 5 percent of U.S. gross domestic product (GDP) in 1992, the latest year for which Economic Census data are available (see page 2 box). The value-added by in-house transportation services was about \$121 billion, compared with about \$192 billion contributed by for-hire transportation.
- Of the total value-added by transportation services, trucking accounted for 65 percent: 38 percent for in-house trucking and 27 percent for for-hire trucking. Air transportation and railroads accounted for 13 percent and 11 percent, respectively.
- Agriculture, construction, and wholesale/retail trade are the most transportation-intensive sectors, counting both in-house and for-hire services.

Although manufacturing is the most intensive user of for-hire transportation services (about 3¢ of for-hire transportation services per dollar of output) and consumes the most transportation services in absolute terms, it ranks below the agriculture, construction, and wholesale-retail trade sectors in overall transportation intensity because these industries rely more heavily on inhouse services.

- Total transportation costs embodied in construction and agricultural products are larger than those embodied in manufactured products on a per-dollar basis. Therefore, transportation costs have a greater effect on agricultural product prices and markets than on manufacturing or mining products. A \$1 increase in the final demand for agricultural products will require 14.2¢ in transportation services, compared with 9.1¢ in the case of manufactured goods and about 8¢ for mining products.
- Transportation may have a greater influence on the competitiveness of U.S. products in international markets than previously thought, and the economic benefits of transportation infrastructure investments are larger than estimates based on for-hire transportation data alone.
- Transportation continues to play a key role in the economy, even as the economy shifts from a focus on manufacturing to a focus on services. The services sector, as defined

in the national accounts, is the largest and fastest growing sector in the U.S. economy. According to the national accounts, demand for for-hire transportation generated from service sector growth between 1992 and 1996 was about \$6 billion. Analysis based on TSAs data shows that the services sector would have used an additional \$12 billion of in-house transportation to support this growth.

Although the TSAs demonstrate that transportation services command a much larger role in the economy than previously understood, the picture is still incomplete. Some inhouse transportation services, such as the use of corporate aircraft and automobiles and private railcars and barges, have not yet been measured. Also, the TSAs do not fully reflect the economic role of personal transportation in getting people to work or school, in bringing goods home from retail outlets, and in supporting social and recreational activities.

* * *

This report provides an overview of the background, framework, and methodology of the TSAs, including their relationship to the U.S. Input-Output Accounts. It also describes the major components of the TSAs and discusses the contribution of transportation to GDP and the relationship between transportation and other industries of the economy. Finally, the report provides detailed tables of TSAs estimates.

Supply v. Demand Measures

It is important to note that the TSAs measure for-hire and in-house transportation services from the supply side, and comprise only services that move people and goods in the transportation system. It should not be confused with a demand-side measure that includes all purchases of transportation-related goods and services (e.g., motor vehicles, gasoline, and automobile insurance) by consumers and other end users. This transportation-related final demand was about 11 percent of GDP in 1992.

Measuring Transportation Services

he U.S. Transportation Satellite Accounts (TSAs) provide a new way to answer questions about the transportation system:

- How much do transportation services, including for-hire and in-house transportation activities, contribute to U.S. gross output and gross domestic product (GDP)?
- What industries rely heavily on transportation services? What is transportation's share in the total production costs of these industries?
- What is transportation's share in the total cost of commodities purchased by consumers and other end-users?

Jointly developed by the Bureau of Transportation Statistics (BTS)¹ of the U.S. Department of Transportation and the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce, the TSAs supplement the U.S. input-output (I-O) accounts² maintained by BEA. The TSAs provide a more comprehensive measure of transportation services in whatever industry they occur.

¹ The 1991 Intermodal Surface Transportation Efficiency Act (ISTEA) established BTS and charged it with carrying out various statistical functions, including "compiling, analyzing, and publishing a comprehensive set of transportation statistics to provide timely summaries and totals (including industry-wide aggregates and multi-year averages) of transportation-related information." ISTEA also mandated that "such statistics shall be suitable for conducting cost-benefit studies (including comparisons among individual transportation modes and intermodal transport systems) and shall include information on—(A) productivity in various parts of the transportation sector." See National Research Council, *Bureau of Transportation Statistics—Priorities for the Future* (Washington, DC: National Academy Press, 1997). Appendix A. In its first annual report to the U.S. Congress, BTS recommended that special studies be undertaken to measure total transportation services in a way that is consistent with the national economic accounts. U.S. Department of Transportation, Bureau of Transportation Statistics, *Transportation Statistics Annual Report*, 1994 (Washington, DC: 1994), pp. 4–5.

Satellite Accounts

In general, satellite accounts are frameworks designed to expand the analytical capacity of the basic economic accounts without overburdening them with details or interfering with their general-purpose orientation. Satellite accounts are meant to supplement rather than to replace existing accounts and organize information in an internally consistent way that suits a particular analytical focus, while maintaining links to the existing national accounts. They typically expand a particular segment of existing accounts with more details and additional dimensions of information, including nonmonetary information. They also may use definitions and classifications that differ from those in the existing accounts. Depending on the analytical focus, the production boundary of the national accounts can be maintained or modified.1

¹ For a discussion of the purposes and characteristics of satellite accounts, see Commission of the European Communities, International Monetary Fund, Organization for Economic Co-operation and Development, United Nations, World Bank, *System of National Accounts 1993* pp. 489–518.

For example, the TSAs identified and estimated transportation activities conducted by grocery companies' truck fleets when moving goods from warehouses to retail outlets, and presented these estimates on both industry and commodity bases.

To do this, the TSAs rearranged 1992 I-O data and added transportation data from other sources to provide a more complete picture of the economic impact of transportation on the U.S. economy. Because the TSAs estimates covered both for-hire transportation services (identified as transportation industries within the U.S. I-O accounts) and in-

house transportation services conducted by businesses for their own use (not separately identified as transportation in the I-O accounts), they have three major advantages for transportation analyses:

First, the TSAs permit analysts to measure all transportation activities, both in terms of their contribution to the economy and their use of inputs from other industries. For example, the TSAs show that the value-added by in-house and for-hire transportation services was 5 percent of GDP in 1992. In contrast, the total value-added attributed to all for-hire transportation industries identified in the I-O accounts was 3.1 percent of GDP.3 The TSAs also show that in-house and for-hire transportation activities consumed \$33.2 billion of petroleum products in 1992, while the I-O accounts show that for-hire transportation industries used \$21.6 billion of these products in the same year.

Second, TSAs estimates show the *total* use of transportation services by industries. According to the I-O accounts, the top four users of purchased transportation services were manufacturing (\$80.2 billion, 21.0 percent), motor freight and warehousing (\$35.0 billion, 9.2 percent), services (\$21.5 billion, 5.6 percent), and air transportation (\$14.4 billion, 3.8 percent). In the TSAs estimates, manufacturing remained the largest user of all transportation services (\$102.0 billion, 18.7 percent), but the next largest user was services (\$63.5 billion, 11.6 percent), followed by construction (\$52.2 billion, 9.6 percent) and wholesale and retail trade (\$51.8 billion, 9.5 percent).

² For a description of the I-O accounts, see Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *Survey of Current Business* vol. 77, November 1997; pp. 36–82; and Ann M. Lawson "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Requirements Tables," *Survey of Current Business*, vol. 77, December 1997, pp. 22–47.

³ Transportation industries in the I-O accounts include the following: railroads and related services and passenger ground transportation; motor freight transportation and warehousing; water transportation; air transportation; pipelines, freight forwarders, and related services; and state and local government passenger transit. These industries are described in table 1.

Third, the TSAs estimates of total transportation values are not affected when firms switch from in-house to for-hire services or vice versa, while I-O estimates are affected. For example, when a grocery company contracts out its formerly internal trucking operations to a common carrier trucking company, the I-O estimates show an increase in the output of transportation services; when the company switches back to its internal operations for its trucking needs, the I-O estimates show a decrease in the output of transportation services. In contrast, the TSAs estimates of total transportation values remain unchanged in both cases.

MEASURES OF TRANSPORTATION ACTIVITIES

Statistics on transportation are presented in different ways, reflecting the multifaceted nature of transportation and the variety of ways these statistics are used. In general, statistics on transportation can be grouped into the following categories:

- What is transported: Statistics are divided into two groups: the conveyance of goods (freight transportation) and the conveyance of people (passenger transportation).
- Mode of transportation: Statistics are organized by means of transportation, such as rail, urban transit, highway, air, water, and pipeline.
- Industry provider of transportation: Until the TSAs were developed, statistics focused only on businesses or establishments that sold transportation services in the marketplace. As a group, these establishments are referred to as an industry, such as the air transportation industry, the water transportation industry, and the motor freight transportation industry.

Although useful for many analytical purposes, statistics based on "what is transported" or "mode of transportation" are often presented in ways that preclude direct comparisons. One example of a comparability problem arises when measures are expressed in physical units, such as ton-miles, passenger-miles, or vehicle-miles, rather than in dollar values or other statistical units. Furthermore, until the TSAs, statistics based on "industry provider of transportation" did not reflect those transportation activities for which there are no corresponding, identifiable market transactions.

U.S. I-O accounts are one of the most important sources of statistics in the provider of transportation services category. In the case of for-hire transportation services, most estimates in the I-O accounts are based on data from the Census Bureau,4 which are collected at the establishment level of detail and are classified on the basis of the 1987 Standard Industrial Classification (SIC) system.⁵ Two

⁴ The Census Bureau collects information, such as revenues, payroll, employment, and other data, for all for-hire transportation industries, except railroads and air transportation in the quinquennial Census of Transportation, Communications, and Utilities (TCU). In addition, the Census publishes data collected by other sources on railroads and air transportation in the TCU. The Association of American Railroads collected railroad data. The Bureau of Transportation Statistics' Office of Airline Information, U.S. Department of Transportation, collected

Data on revenues and expenses for the trucking and warehousing industries are from the annual Motor Freight Transportation and Warehousing Survey. Data on goods flows are from the Commodity Flow Survey, and data on passenger flows are from the American Travel Survey, both of which are collected every 5 years by BTS and the Census Bureau. Data on the physical and operational characteristics of trucks are collected from the Truck Inventory and Use Survey, which is conducted by the Census Bureau at the same time as the quinquennial census.

⁵ The SIC system defines an establishment as an economic unit that is typically at a single location where business is conducted or where services or industrial operations are performed. An establishment is classified into an industry on the basis of the primary activity of the establishment, which is the activity that makes up the largest proportion of the establishment's output. All other activities of the establishment are secondary. See types of establishments are distinguished in the SIC: *Operating* establishments that primarily produce goods or provide services for personal or household use or for use by other enterprises; and *Auxiliary* establishments that primarily perform management or support services within the same enterprise.⁶

If transportation activities are conducted by an operating establishment, the activities are referred to as "for-hire" transportation, and the establishment is classified as part of transportation in the SIC system. If transportation activities are conducted as a support activity by an operating establishment within a nontransportation enterprise, the activities are referred to as "in-house" transportation. Data on these in-house transportation activities are included under the primary activity of the establishment; hence they are not classified as transportation in the SIC system. In the SIC system, an exception is made for auxiliary establishments primarily engaged in long-distance trucking, stevedoring, and water and pipeline transportation within nontransportation enterprises. These are classified as forhire transportation operating units in the SIC system, but auxiliary establishments performing other types of transportation activities, such as local furniture deliveries, are not.7 Since statistics based on "industry provider of transportation" do not include in-house transportation, they present an incomplete

picture of the magnitude of transportation activities in the economy.

Statistics expressed in physical units, such as ton-miles and passenger miles, might present a complete measure of a transportation subsystem. But, they cannot be added together to form a single measure of the entire transportation system, which is frequently desired in transportation analyses. Also, transportation statistics expressed in physical units are generally organized by mode of transportation, rather than by detailed industry use of transportation services. The comparability problem and the lack of industry details of transportation statistics in physical units has made it difficult to combine them with data from national accounts in order to analyze changes in transportation and the relationships between transportation and other industries.

The 1993 manual of the System of National Accounts (SNA) recommended using satellite accounts to handle measurements of economic activities, such as in-house transportation.8 In-house transportation in the TSAs is an auxiliary activity in the SIC and an ancillary activity in the SNA manual. The SNA manual defines an ancillary production unit as one whose sole function is to produce one or more common types of services for intermediate consumption within the same enterprise. Although the SNA manual does not treat ancillary units as separate units, it suggests that this may be useful and necessary to estimate and record the activities of ancillary units separately for some types of analyses preferably by using satellite accounts. In addition, the United Nations handbook of I-O accounts suggests that the satellite account

Office of Management and Budget, *Standard Industrial Classification Manual*, 1987 (Springfield, VA: National Technical Information Services) 1989, pp. 118 and 265.

⁶ Auxiliaries primarily producing goods and services for other establishments of the same enterprise are generally classified as establishments in the industry where the goods or services are primary.

⁷ Under the recently developed North American Industrial Classification System (NAICS), an auxiliary establishment is classified according to the nature of its own primary activity. Therefore, auxiliary establishments primarily engaged in transportation activities are classified as transportation.

⁸ Commission of the European Communities, International Monetary Fund, Organization for Economic Co-operation and Development, United Nations, World Bank, *System of National Accounts 1993.* p. 490.

approach be used to estimate in-house transportation as an output of the transportation industry. The satellite account approach has also been used for in-house transportation in other countries. For example, France's Ministry of Transportation and Tourism developed a 1992 national Transportation Satellite Account, the results of which were published in March 1996.¹⁰

CONCEPTUAL OVERVIEW

As a satellite to the 1992 benchmark I-O accounts, the TSAs' primary purpose is to provide a systematic and consistent framework and data set for conducting analytical studies of the role of transportation in the economy on both an industry and commodity basis.

The TSAs covered all activities related to the use of vehicles (such as trucks, aircraft, and boats) and related structures (such as highways, airports, and port facilities) for the movement of goods and passengers. As shown in table 1, transportation in the TSAs consists of six groups of for-hire transportation industries from the I-O accounts and a single group for in-house transportation.

RELATIONSHIP OF THE TSAs TO THE I-O ACCOUNTS

The I-O accounts provide detailed estimates of intermediate purchases by industries, including for-hire transportation industries;

this detailed information can be used to prepare the TSAs estimates. The I-O accounts also provide an analytical framework with detailed linkages among and between industries and final demand; this framework facilitates the estimates of the interdependencies between transportation and the rest of the economy. The TSAs used the following I-O account approaches:

- The measurement used to determine the value of in-house transportation activities is similar to that used for in-house construction activities in the I-O accounts. For example, the intermediate inputs and the value-added inputs associated with inhouse construction, such as capital consumption allowance and labor costs, are moved—or, using I-O terminology, "redefined"—to the other industries in which the activities are primary. In the TSAs, these inputs are similarly redefined, but to a newly defined industry—in-house transportation.
- The overall industry and commodity classification system and the special definitions and conventions in the I-O accounts are used in the TSAs except for in-house transportation, which forms a new industry and a new commodity category in the TSAs.
- The total value-added (or GDP) by all industries is the same in the TSAs and the I-O accounts.11

⁹ United Nations, Statistics Division, Handbook of National Accounting—Input-Output Table Compilation and Analysis, manuscript, November 1997, pp. 149-50.

¹⁰ France's satellite account provides estimates of transportation expenditures by transportation modes in a framework similar to BEA's national income and product accounts. See Commission of National Accounts, Ministry of Transportation and Tourism, Transportation Satellite Accounts 1992, project report, March 1996.

¹¹ Although total value-added for the total economy remains unchanged, the value-added estimate for transportation industries is increased by the amount of value-added by the in-house transportation that is subtracted from other industries' valueadded. In addition, although the output for each industry remains unchanged, the total gross output for all industries is increased by the amount of output identified for the in-house transportation industry; this is because the total of all purchases of intermediate inputs—including in-house transportation services—by industries is increased by the same amount as the sum of the in-house transportation industry output.

	Industry components	Industry output					
For-hire transportation industries							
Railroads and related services; passenger ground transportation	Railroads, including AMTRAK Switching and terminal companies Freight car rental Private local and suburban passenger transportation Intercity, rural, and other bus ser- vices, including charter and school buses Bus terminal and service facilities Taxicabs	Total operating revenues Less: Rental receipts					
Motor freight transportation and warehousing	Trucking and courier services, except air Public warehousing and storage Trucking terminal facilities	Total operating revenues Plus: Trucking receipts of construction firms Warehousing revenues of wholesalers Delivery and storage charges of retailers Less: Merchandise sales Rental receipts					
Water transportation	Deep sea and other water transporta- tion of freight. Water transportation of passengers Services incidental to water transpor- tation, including marinas and other services	Total operating revenues Plus: Docking and boat cleaning and mainte nance at retailers Federal excise tax on cruise ship receipts Less: Merchandise sales Boat repair at marinas					
Air transportation	Domestic and international passenger and freight air transportation Airport terminal services	Total operating revenues Plus: Federal taxes on air fares, air freight, and air facilities Aircraft storage and services by whole salers and retailers Less: Rental receipts Flight training and instruction					
Pipelines, freight forwarders, and related services	Refined petroleum pipelines Other pipelines, including crude petro- leum and natural gas Arrangement of freight and passen- ger transportation, including freight forwarding Miscellaneous services incidental to transportation	Total operating revenues Plus: Pipeline receipts by wholesalers Less: Rental receipts					
State and local government passenger transit	State and local government passenger transit	Total operating revenues Less: Operating subsidies					
In-house transportation services							
In-house transportation	Private trucking and bus operations in all nontransportation industries	Total operating expenses of highway motor vehicles and overhead expenses Less: Expenses on advertising, depository institutions, security and commodity brokers, and other services unrelate to in-house transportation operation					

• The general valuation conventions used in the TSAs are consistent with those in the I-O accounts: all transactions are valued in producers' prices, the valuations of purchases for final use are unchanged, and transportation costs (the costs to move commodities from producers to purchasers) are unchanged.

The TSAs differ from the I-O accounts only because of the specific need to separately measure in-house transportation. In the TSAs, inhouse transportation is treated as a separate industry where the only output is in-house transportation service. The use of in-house transportation by an industry includes the costs of operating an industry's own trucks and buses, whether or not those vehicles are used to move an industry's intermediate inputs or its output. In the I-O accounts the use of for-hire transportation by an industry includes only those transportation expenses associated with moving intermediate inputs to the industry, plus the expenses for certain direct transportation services. For example, if a for-hire truck carries wheat from a farm to a mill, the I-O use table credits this activity to the mill, even though the farm may have purchased the transportation service. However, if an in-house truck of the mill transports the wheat from the farm, the TSAs use table shows the mill as providing the services, and if an in-house truck of the farm transports the wheat to the mill, the TSAs use table credits this activity to the farm.

COMPONENTS OF THE TSAs

The TSAs data are presented in four tables: Make (production) table, Use (consumption) table, Direct Requirements table, and Industry-by-Commodity Total Requirements table. The TSAs make table (table 2) and the TSAs use table (table 3) present for-hire and inhouse transportation data in an I-O framework. The TSAs direct requirements table (table 4) presents data on industry use of intermediate and value-added inputs as a percentage of the industry output. The TSAs total requirements table (table 5) shows industryby-commodity multipliers. Corresponding tables at summary-level detail for 100 industries and 100 commodities are provided in the appendix. The enclosed TSAs CD-ROM provides detailed data on about 500 industries and 500 commodities.

TSAs Make Table

Table 2 is an I-O make table with an additional column for in-house transportation as a commodity and an additional row for an aggregation of all redefined in-house transportation activities as a new industry. An I-O make table shows the value in producers' prices of each commodity produced by each industry. In each row, the cell on the main diagonal shows the value of the production of the commodity for which the industry has been designated the primary producer. The other cells in the row show the value of the production of commodities for which the industry is a secondary producer. The sum of all the entries in a row is the total output of that industry.

In the TSAs make table, the cell value at the intersection of the in-house transportation column and row equals the total output of in-house transportation; all other cell entries in the in-house transportation column and row are zero. The data shown in other parts of the TSAs make table are the same as those provided in the 1992 I-O make table.

TSAs Use Table

Table 3 is an I-O use table with an additional row for in-house transportation services and

How To Read Tables 2 and 3 and Appendix Tables A and B.

In these tables, both the total *commodity* output (at the bottom of each commodity column) and the total *industry* output (at the right of each industry row) are given. The sum of the items in the row labeled *Total commodity output* is equal to the sum of the items in the column labeled *Total industry output*. This identical total is shown in the cell at the bottom right hand corner of the tables. For each commodity listed, there is an identically named industry, which is the major producer of that commodity.

Separate totals for both commodity outputs and industry outputs would not be needed if each industry produced only one commodity and that commodity was not produced by any other industry. However, the total output for an individual commodity rarely equals the total output of the major industry producing that commodity, and visa versa. This is because most industries produce more than one commodity. For instance, although the mining industry's primary commodity is ore, some mining companies also process the ore or produce other manufactured products. Hence, table 2 shows some manufacturing commodities for the mining industry. The table also shows that the manufacturing industry does some mining, which contributes to the total of mining commodities.

an additional column for an aggregation of all redefined in-house transportation activities as a new industry. An I-O use table shows the values, in producers' prices, of in-house transportation and all other intermediate and value-added inputs consumed by industries or final users. The cell in each row of a given column shows the commodity that is used by the industry or final user in that column. The sum of all the entries in a row is the total output of the commodity in that row, and the sum of all the entries in a column is the total output of the industry in that column.

In the TSAs use table the use of the in-house transportation services commodity is shown in the in-house transportation row. Because in-house transportation services are provided by nontransportation industries for their own-use, the following cell values are equal to zero:

- the cell value at the intersection of the inhouse transportation row and column (the use of in-house transportation services to support in-house transportation activities), and
- the cell values at the intersections between the in-house transportation row and the forhire transportation columns (the use of inhouse transportation services to support for-hire transportation activities).

TSAs Direct Requirements Table

Table 4 is the TSAs direct requirements table. Each cell of table 4 shows the direct requirement per dollar output of the industry (on the column) for the commodity (on the row), which is also referred to as the "direct requirement coefficient." The sum of an industry's direct requirement coefficients for intermediate inputs and value-added categories is equal to one.

The TSAs direct requirements table is derived from the TSAs use table by dividing each industry's commodity and value-added inputs by that industry's total output. Unlike the TSAs use table, however, this table does not include the components of final use or GDP. In table 4, each column shows, for the industry named at the head of the column, the input coefficients for the commodities and for the value-added components that an industry directly requires to produce a dollar's worth of output.

TSAs Industry-by-Commodity Total Requirements Table

Table 5 shows the total requirements coefficients for each industry's output that is directly and indirectly required to deliver a dollar's worth of goods and services to

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Table 2. **The TSA Make of Commodities by Industries, 1992**(Millions of dollars at producers' prices)

	Commodity															
							Transp	ortation								
Industry	Agri- culture, forestry, and fisheries	Mining	Construc- tion	Manu- facturing	Rail- road and pas- senger ground	Motor freight and ware- housing	Water	Air	Pipe- lines, freight forward- ers, and related services	In- house	Com- muni- cations and utilities	Whole- sale and retail trade	Finance, insurance, and real estate	Services	Other ¹	Total industry output
Agriculture, forestry, and fisheries	235,591	0	0	1,022	0	11	0	0	0	0	0	0	0	1,038	0	237,662
Mining	0	147,001	0	9,716	0	0	0	0	0	0	0	0	0	0	0	156,717
Construction	0	0	679,330	0	0	0	0	0	0	0	0	0	0	0	0	679,330
Manufacturing	0	561	0	2,879,654	0	0	0	0	0	0	43	0	0	69,509	1,536	2,951,303
Transportation:														·		
Railroads and related services; passenger ground																
transportation, except transit	0	0		0	55,576		0	0	0	0	0	0	0	0	4	55,754
Motor freight and warehousing	0	0		0	0	155,590	0	0	0	0	11,363	0	0	0	0	166,953
Water	0	0	0	0	0	0	32,440		0	0	0	0	0	0	0	32,440
Air	0	0	0	0	0	0	0	94,141	0	0	0	0	0	0	0	94,141
Pipelines, freight forwarders,	_	_	_	_						_			_	_	_	
and related services	0	0		0	542	1,320	194	,		0	0	0	0	0	0	33,616
State and local passenger transit	0	0		0	5,876	0	0	0	0	0	0	0	0	0	0	5,876
In-house	0	0	0	0	0	0	0	0	0	165,461		0	0	0	0	165,461
Communications and utilities	0	0	0	0	0	0	0	0	0	0	491,312		0	28,838		520,688
Wholesale and retail trade	0	0	0	0	0	0	0	0	0	0	0	1,091,489	0	05.444	0	1,091,489
Finance, insurance, and real estate		0	0	0	0	0	0	0	0	0	0	0	1,629,618	25,114	0	1,654,732
Services	0	0	0	8	0	15	0	0 040	38	0	40.040	0.050	666	, -,	521	2,227,550
Other ¹	0	0	0	37	64	0	1,713	2,046	0	0	48,012	3,659	9,132	3,301	846,432	914,396
Total commodity output	235,591	147,562	679,330	2,890,437	62,058	157,110	34,347	98,819	28,966	165,461	550,730	1,095,148	1,639,416	2,354,102	849,031	10,988,108

¹ "Other" consists of government enterprise (except state and local government passenger transit) and other input-output special industries. See Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *Survey of Current Business* 77 (November 1997): 58–62.

Table 3. TSA Use of Major Commodity Groups by Major Industry Sector: 1992 (Millions of dollars at producers' prices)

	Industry													
							Tra	insportatio	n					
Commodity	Agriculture forestry, and fisheries	Mining	Con- struction	Manu- facturing	Railroad and passenger ground	Motor freight and ware- housing	Water	Air	Pipelines, freight forwarders, and related services	State and local passenger transit	In- house	Communi- cations and utilities	Whole- sale and retail trade	
Agriculture, forestry, and fisheries Mining Construction Manufacturing Transportation:	55,569 298 2,877 36,994	43 25,985 2,655 11,446	4,027 5,445 552 199,947	123,104 94,010 18,050 1,017,125	1 0 2,465 7,174	3 0 736 12,818	6 9 30 3,208	1 0 239 13,201	0 83 574 1,475	2 0 1,664 3,460	0 0 680 14,760	61 54,440 30,084 20,577	894 30 7,246 44,062	
Railroads and related services; passenger ground transportation, except transit Motor freight and warehousing Water Air Pipelines, freight forwarders, and related	1,515 3,231 436 457	1,039 917 427 413	1,294 10,302 723 963	14,759 44,955 4,261 11,485	2,368 368 78 214	442 28,810 209 622	19 104 4,282 77	128 233 164 6,064	33 209 56 233	69 50 29 1	211 790 183 10	4,937 1,029 838 1,476	881 3,459 169 4,144	
services In-house Communications and utilities Wholesale and retail trade Finance, insurance, and real estate Services Other¹	81 13,177 3,954 11,131 15,528 5,949 156	14 3,870 7,218 2,600 19,183 5,037 1,172	4 38,950 4,343 53,758 11,224 64,747 696	4,788 21,806 74,295 163,845 48,672 165,357 24,581	442 0 596 1,706 1,849 3,771 332	4,966 0 5,499 5,824 6,108 16,423 1,122	1,407 0 192 520 1,990 4,836 2,964	7,820 0 1,636 1,505 3,157 8,903 8,924		24 0 643 303 116 214 4	112 0 4,503 6,787 1,323 13,990 582	523 1,187 55,863 4,537 13,890 49,673 7,823	311 42,819 33,509 18,588 71,101 124,604 11,064	
Total intermediate inputs Compensation of employees Indirect business tax and nontax liability Other value-added ² Total value-added Total industry output	151,352 25,870 5,206 55,234 86,310 237,662	82,021 27,777 8,164 38,755 74,696 156,717	396,974 219,347 3,246 59,762 282,356 679,330	1,831,093 688,213 37,864 394,134 1,120,210 2,951,303	21,364 23,458 1,006 9,926 34,390 55,754	83,582 55,533 2,615 25,223 83,371 166,953	19,644 7,140 583 5,073 12,796 32,440	51,975 32,761 5,696 3,709 42,166 94,141	13,992 10,710 993 7,921 19,624 33,616		43,931 84,160 3,870 33,501 121,531 165,461	31,844 157,609 273,750	362,881 425,306 173,188 130,114 728,608 1,091,489	

KEY: --- = Value too small to report.

^{1 &}quot;Other" consists of government enterprise (except state and local government passenger transit) and other input-output special industries. See Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *Survey of Current Business* 77 (November 1997): 58–62.

For all industries except in-house transportation, "other value-added" consists of the following national income and product account components of gross domestic income: consumption of fixed capital, net interest, proprietors' income, corporate profits, rental income of persons, business transfer payments, and subsidies less current surplus of government enterprises. "Other value-added" for in-house transportation consists of consumption of fixed capital.

Table 3 (continued).

TSA Use of Major Commodity Groups by Major Industry Sector: 1992

(Millions of dollars at producers' prices)

		Indu	stry					Final Uses				
Commodity	Finance, insurance, and real estate	Services	Other ¹	Total interme- diate inputs	Personal consump- tion expendi- tures	Gross private fixed invest- ment	Change in business inven- tories	Exports of goods and services	Imports of goods and services	Govern- ment expendi- tures	GDP	Total commodity output
Agriculture, forestry, and fisheries	6,714	6.861	315	183,711	27,054	0	4,847	19,857	- 14.601	833	37,990	221.701
Mining	6	32	2.688	180,300	107	73	-107	8,202	- 43,527	- 212	- 35,464	144,836
Construction	52,996	19,287	19,484	67,851	0	360,278	0	77	0	159,357	519,712	587,563
Manufacturing	16,886	227,662	8.714	1,386,248	842.150	339,058	3,566	342,980	- 485.599	208,772	1,250,927	2,637,175
Transportation:		,	- /	,,	,	,	,,,,,,	, , , , , , , , , , , , , , , , , , , ,	,	,	,,-	, ,
Railroads and related services; passenger												
ground transportation, except transit	971	2,674	1,113	27,694	19,504	957	135	3,973	- 164	5,201	29,606	57,300
Motor freight and warehousing	5,759	9,102	1,339	94,456	25,965	4,138	629	10,161	- 2,059	7,620	46,454	140,910
Water	52	473	390	11,856	6,249	18	36	9,695	3,530	2,048	21,576	33,432
Air	3,674	8,021	1,648	26,160	36,404	1,539	137	23,317	- 8,544	6,464	59,317	85,477
Pipelines, freight forwarders, and related		ŕ	,	,	,			, i	,	,	,	
services	67	1,212	11	21,255	3,474	0	8	2,700	0	240	6,422	27,677
In-house	899	42,035	718	121,809	0	0	0	0	0	0	0	121,809
Communications and utilities	28,152	53,421	8,506	193,694	221,574	5,065	11	4,476	- 695	36,526	266,957	460,651
Wholesale and retail trade	4,180	44,012	829	271,430	629,893	62,525	2,658	44,746	18,317	16,558	774,697	1,046,127
Finance, insurance, and real estate	229,746	153,929	4,560	195,910	960,078	28,407	0	39,510	- 1,412	28,688	1,055,271	1,251,181
Services	123,478	302,923	7,783	470,139	1,413,094	19,226	-37	19,530		1,992	1,449,778	1,919,917
Other ¹	16,653	19,311	2,593	59,812	23,172	-30,293	-6,453	73,385	− 92,856	783,707	750,662	810,474
Total intermediate inputs	490,234	890,954	60,690	_	_	_	_	_	_	_	_	_
Compensation of employees	285,305	935,987	730,160	_	-	_	_	_	_	_	_	_
Indirect business tax and nontax liability	182,984	48,332	_	_	-	_	_	_	_	_	_	_
Other value-added ²	696,209	352,278	123,546	_	-	_	_	_	-	_	_	_
Total value-added	1,164,498	1,336,596	853,706	_	_	_	_	_	_	_	2,879,105	_
Total industry output	1,654,732	2,227,550	914,396	_	_	_	_	_	_	_	_	6,191,430

Table 4. **The TSA Commodity by Industry Direct Requirements: 1992**(Direct requirements per dollar of industry output, at producers' prices)

	Industry															
							Tr	ansportati	on							
Commodity	Agri- culture, forestry, and fisheries	Mining	Con- struction	Manu- facturing	Railroad and passen- ger ground	Motor freight and ware- housing	Water	Air	Pipe- lines, freight forward- ers, and related services	State and local passen- ger transit	In-house	Com- muni- cations and utilities	Whole- sale and retail trade	Finance, insur- ance, and real estate	Services	Other ¹
Agriculture, forestry, and fisheries	0.23382	0.00027	0.00593	0.04171	0.00002	0.00002	0.00018	0.00001	0.00000	0.00034	0.00000	0.00012	0.00082	0.00406	0.00308	0.00034
Mining	.00125	.16581	.00802	.03185	.00000	.00000	.00028	.00000	.00247	.00000	.00000	.10455	.00003	.00000	.00001	.00294
Construction	.01210	.01694	.00081	.00612	.04421	.00441	.00092	.00254	.01708	.28319	.00411	.05778	.00664	.03203	.00866	.02131
Manufacturing	.15566	.07304	.29433	.34464	.12867	.07678	.09889	.14023	.04388	.58884	.08921	.03952	.04037	.01020	.10220	.00953
Transportation:																
Railroads and related services;																
passenger ground transportation,																
except transit	.00637	.00663	.00191	.00500	.04247	.00265	.00059	.00136	.00098	.01174	.00127	.00948	.00081	.00059	.00120	.00122
Motor freight and warehousing	.01359	.00585	.01516	.01523	.00660	.17256	.00321	.00248	.00622	.00851	.00477	.00198	.00317	.00348	.00409	.00146
Water	.00183	.00273	.00106	.00144	.00140	.00125	.13200	.00174	.00167	.00494	.00111	.00161	.00016	.00003	.00021	.00043
Air	.00192	.00263	.00142	.00389	.00384	.00373	.00237	.06441	.00693	.00017	.00006	.00283	.00380	.00222	.00360	.00180
Pipelines, freight forwarders, and																
related services	.00034	.00009	.00001	.00162	.00793	.02974	.04337	.08307	.02270	.00408	.00068	.00101	.00028	.00004	.00054	.00001
In-house	.05544	.02470	.05734	.00739	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00228	.03923	.00054	.01887	.00079
Communications and utilities	.01664	.04606	.00639	.02517	.01069	.03294	.00592	.01738	.04296	.10943	.02721	.10729	.03070	.01701	.02398	.00930
Wholesale and retail trade	.04683	.01659	.07913	.05552	.03060	.03488	.01603	.01599	.00970	.05157	.04102	.00871	.01703	.00253	.01976	.00091
Finance, insurance, and real estate	.06533	.12241	.01652	.01649	.03316	.03659	.06134	.03353	.05262	.01974	.00799	.02668	.06514	.13884	.06910	.00499
Services	.02503	.03214	.09531	.05603	.06764	.09837	.14908	.09457	.19738	.03642	.08455	.09540	.11416	.07462	.13599	.00851
Other ¹	.00066	.00748	.00102	.00833	.00595	.00672	.09137	.09479	.01166	.00068	.00352	.01502	.01014	.01006	.00867	.00284
Total value-added	.36316 1.00000	.47663 1.00000	.41564 1.00000	.37956 1.00000	.61682 1.00000	.49937 1.00000	.39445 1.00000	.44790 1.00000	.58377 1.00000	11964 1.00000	.73450 1.00000	.52575 1.00000	.66754 1.00000	.70374 1.00000	.60003 1.00000	.93363 1.00000
Total output	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

¹ "Other" consists of government enterprise (except state and local government passenger transit) and other input-output special industries. See Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *Survey of Current Business* 77 (November 1997): 58–62.

Table 5. **TSA Industry by Commodity Total Requirements: 1992**

(Total requirements, direct and indirect, per dollar of delivery to final demand, at producers' prices)

	Commodity														
							Transpo	rtation							
Industry	Agri- culture, forestry, and fisheries	Mining	Con- struction	Manu- facturing	Railroad and passenger ground	Motor freight and ware- housing	Water	Air	Pipelines, freight forwarders, and related services	In-house	Communi- cations and utilities	Whole- sale and retail trade	Finance, insur- ance, and real estate	Services	Other¹
Agriculture, forestry, and fisheries	1.32661	0.01332	0.03876	0.09211	0.02170	0.01294	0.01632	0.01771	0.00952	0.01085	0.01181	0.00901	0.01095	0.01863	0.00129
Mining	.02486	1.21270	.03724	.07757	.02166	.01678	.01578	.01861	.01754	.01309	.14927	.01112	.00706	.01539	.00157
Construction	.02990	.03596	1.01361	.02256	.08035	.01778	.02867	.02141	.03166	.01155	.08671	.01687	.04379	.02004	.01025
Manufacturing	.38378	.20388	.53168	1.61763	.35810	.20657	.25097	.29130	.14239	.18043	.17479	.12020	.07032	.25783	.01666
Transportation:															
Railroads and related services;															
passenger ground															
transportation, except transit	.01081	.01005	.00567	.00971	.93508	.00645	.00290	.00385	.00283	.00286	.01312	.00228	.00163	.00332	.00070
Motor freight and warehousing	.03265	.01728	.03216	.03545	.01965	1.20178	.01339	.01314	.01311	.01172	.03892	.00947	.00863	.01320	.00230
Water	.00368	.00437	.00249	.00331	.00295	.00235	1.07995	.00299	.00207	.00171	.00326	.00066	.00038	.00091	.00030
Air	.00565	.00545	.00532	.00834	.00662	.00714	.00584	1.01853	.00835	.00180	.00535	.00554	.00364	.00600	.00208
Pipelines, freight forwarders,															
and related services	.00360	.00232	.00322	.00563	.01990	.04849	.05630	.11725	1.02072	.00192	.00389	.00174	.00107	.00239	.00040
State and local passenger transit	.00114	.00106	.00060	.00102	.09886	.00054	.00031	.00041	.00030	.00030	.00139	.00024	.00017	.00035	.00007
In-house	.08477	.03800	.07340	.02732	.01426	.00966	.01112	.01000	.00981	1.00758	.01649	.04612	.00716	.02783	.00197
Communications and utilities	.04616	.07109	.03732	.05871	.04215	.05863	.03498	.04387	.06043	.04027	1.01879	.04493	.02836	.05502	.00589
Wholesale and retail trade	.09563	.04149	.12252	.10595	.06712	.06200	.04238	.04242	.02704	.05725	.03537	1.02887	.01433	.04198	.00286
Finance, insurance, and real estate	.13299	.19132	.06742	.07475	.07277	.08603	.11907	.08024	.09163	.03365	.07896	.09975	1.16842	.12299	.00558
Services	.10472	.09420	.17678	.14030	.13189	.17807	.23439	.17358	.24863	.12187	.13360	.15692	.11124	1.13745	.00897
Other ¹	.01570	.02481	.01589	.02668	.01963	.02223	.16886	.13190	.02566	.01275	.12372	.02428	.02360	.02239	.99993
Total commodity output	2.30265	1.96730	2.16408	2.30704	1.91269	1.93744	2.08123	1.98721	1.71169	1.50960	1.89544	1.57800	1.50075	1.74572	1.06082

¹ "Other" consists of government enterprise (except state and local government passenger transit) and other input-output special industries. See Ann M. Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Make, Use, and Supplementary Tables," *Survey of Current Business* 77 (November 1997): 58–62.

consumers and other final users. Each column shows the commodity delivered to final users, and each row shows the demand for an industry's output in response to a dollar increase in the final demand for a commodity. The coefficients in the table are referred to as industry-by-commodity total requirement coefficients. The table is derived from both the TSAs make and the TSAs use tables.

The last row of the table shows the sum of all the changes in industry outputs that are required to deliver a dollar's worth of goods and services to final users. Because each of these sums is a dollar multiple of the initial dollar spent for an industry group's output, the sum is often referred to as an "output multiplier." These multipliers can be used to estimate the impact of changes in the final demands of commodities on total industry output.¹² Hence, table 5 shows the interdependencies among the producers and consumers in the economy and can be used to derive estimates of the direct and indirect effects of changes in final demands on for-hire and inhouse transportation industries and commodities. For example, this table can be used to analyze the relative effects on transportation and nontransportation industries of an increase in personal consumption expenditures or of a change in the composition of fixed investment that results from a change in business activity.13

METHODOLOGICAL OVERVIEW

The magnitude of in-house transportation services was determined by first estimating the inputs used by each industry for its in-house transportation activities. These estimates were then used with the I-O make and use tables to derive the TSAs tables. The TSAs use table provides information on the amount of in-house transportation services produced and used by each industry of the economy. The following sections describe these two steps in more detail. The major sources of data are identified in table 6.

Step 1. Estimating Transportation Inputs

Transportation inputs include both intermediate inputs (such as motor vehicle and gasoline) and value-added inputs (such as labor compensation, capital depreciation, taxes, and corporate profit). The value of these inputs for each industry in the I-O use table is for a combination of all uses. The TSAs transportation estimates were separated from all other uses through the following steps.

- Identifying the transportation-related inputs. A set of commodity inputs unique to or mostly used for transportation was identified from the estimates underlying the I-O accounts. These inputs, which are called "transportation-related inputs" (TRIs), consist of motor gasoline, light fuel oil, liquefied petroleum gases, tires, motor vehicle parts, and automotive repair services.
- Developing industry distribution weights.
 Distribution weights were developed that can be used separately or in combination to distribute TRIs commodities to relevant industries. Nine sets of weights were developed.

fore, for analyses that require alternative assumptions, other economic tools may be required. See Lawson, "Benchmark Input-Output Accounts for the U.S. Economy, 1992: Requirements Tables," footnote 2.

¹² For more information on the derivation of the industry-by-commodity total requirements table, see U.S. Department of Commerce, Bureau of Economic Analysis, *Benchmark Input-Output Accounts of the United States, 1987* (Washington, DC: U.S. Government Printing Office, November 1994), appendix D.

¹³ When using the TSAs industry-by-commodity total requirement coefficients to estimate the effects of changes in final demands on industries and commodities, the underlying I-O assumptions have to be kept in mind. For example, the table is based on a set of relationships that exist between producers and consumers in a given year; these relationships assume that technology and relative prices are constant. The inter-industry relationships reflect the average input structure in each industry for that year, but these relationships do not necessarily reflect the input structure of an additional unit of production. There-

Data	Sources
Estimates of input-output accounts, 1992	U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark Input-Output Accounts for the U.S. Economy, 1992 (forthcoming) and detailed underlying data files for the I-O accounts.
Trucks, truck mileage, fuel use by industry, 1992	U.S. Department of Commerce, Census Bureau, 1992 Census of Transportation, <i>Truck Inventory and Use Survey—United States</i> , May 1995.
Statistics on occupation and industry, 1990	Census Bureau, 1990 Census of Population and Housing, Occupation and Industry—National and State Totals (CD-ROM), March 1995.
Employment of truck drivers by industry, 1992	U.S. Department of Labor, Bureau of Labor Statistics, Employment Projection Division, <i>Industry-Occupation Employment Matrix</i> , 1983–1993 (Diskettes).
Energy use, 1992	U.S. Department of Energy, Energy Information Administration, Annual Energy Review, Historical Data for 1949–1996. EIA Website
Energy use by transportation modes, 1992	U.S. Department of Energy, Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 14, May 1994.
Vehicle-miles of travel by type of vehicles, 1992	U.S. Department of Transportation, Federal Highway Administration, <i>Highway Statistics 1993</i> .

oped using industry-level information for the number of buses, the number of trucks, miles driven by trucks, and fuels used by trucks. These weights were based on several data sources, the most important of which are the Truck Inventory and Use Survey from the Census Bureau and the occupational employment data from the Bureau of Labor Statistics and the Census Bureau.

• *Distributing TRIs.* For each TRIs commodity an estimate was made of its total usage for nontransportation purposes, such as gasoline used for heating or for operating machinery; this nontransportation use was subtracted from the total output of the commodity. The remaining amount of the commodity was then distributed to different transportation modes. Finally, for modes for which the current TSAs provide estimates of in-house transportation, the distribution weights were matched with and applied to the TRIs.

• Estimating other inputs. Transportation activities require certain inputs that are not uniquely or mainly used for transportation. For example, office supplies and accounting services are shared by transportation and all other production activities. The transportation use of these commodities was estimated for each industry using the relationships from for-hire transportation industries.¹⁴

Two assumptions underlie these TSAs procedures:

• the distribution weights selected are reliable predictors of the use of TRIs for in-house transportation, and

¹⁴ Adjustments were made before and after applying the forhire relationship. First, some commodities, such as advertising and brokerage services, used by for-hire transportation industries, but not by other industries for in-house transportation, were excluded. Second, estimates were made to reflect the total use in the I-O accounts. Third, the estimates of value-added inputs were adjusted to exclude profits.

• the distribution of commodity inputs (except for some value-added inputs) within a for-hire transportation industry is similar to the distribution of these inputs within a nontransportation industry for its transportation-related activities.

Step 2. Deriving the TSAs Make and Use Tables

As noted earlier the TSAs make and use tables are I-O make and use tables that have been modified using the estimates of transportation inputs. First, the estimates of transportation inputs for each industry are arranged in a matrix so that the rows and columns correspond to those in the intermediate industry portion of the I-O use table.¹⁵ Second, the estimates in the transportation input matrix are subtracted from the corresponding elements of the I-O use table, resulting in a residual use table that shows the intermediate and value-added inputs to industries for nontransportation activities. Third, the TSAs make table is derived by adding an additional column and an additional row—representing inhouse transportation—to the I-O make table. And, fourth, the TSAs use table is derived by combining the residual use table derived above, an in-house transportation column with row totals from the transportation input matrix, an in-house transportation row with column totals from the transportation input matrix, and the final-demand portion of the I-O use table.

TRANSPORTATION SERVICES AS A SHARE OF GDP

The TSAs can be used to assess the size and impact of transportation on the U.S. econ-

omy. According to the TSAs, in-house transportation activities generated \$121.5 billion of value-added in 1992, and for-hire transportation generated \$191.6 billion. Together, these activities accounted for 5.0 percent of U.S. GDP in 1992—3.1 percent from for-hire and 1.9 percent from in-house transportation services.

USE OF TRANSPORTATION SERVICES BY INDUSTRY

Although the manufacturing industry group was the largest user of all transportation services (\$102 billion in 1992), the wholesale and retail industry group was the largest user of in-house transportation services. In 1992, the wholesale and retail industry group generated and used \$42.8 billion of in-house transportation services, accounting for 25.9 percent of total in-house transportation. In contrast, this industry group used only \$9.0 billion of for-hire transportation services output.16 The next largest group was services, which used \$42.0 billion, accounting for 25.4 percent of the in-house total; this industry group used only \$21.5 billion of for-hire transportation services. The smallest user of in-house transportation services (excluding the group "other") was the finance, insurance, and real estate industry group.

Alternatively, measuring the use of inhouse transportation as a share of an industry's total output (in I-O terminology, the direct requirements for in-house transportation) presents a different picture. According to this measure, the construction industry group was the largest user among all industry groups, at 5.7 percent. In contrast, the share

¹⁵ Inputs for for-hire transportation industries in this matrix are all zeros because it is assumed that these industries do not have any in-house transportation activities.

¹⁶ See the section "Conceptual Overview" for an explanation of the different treatment of the uses of in-house and for-hire transportation in the TSAs.

for the wholesale and retail industry group, which was the largest user in absolute terms, was 3.9 percent, less than the share for agriculture (5.5 percent), which was only the fifth largest user of in-house transportation services in absolute terms. The finance, insurance, and real estate industry group had the smallest share.

The same measure for for-hire transportation shows the direct importance of for-hire transportation services in the industries' total output. Except for the transportation industries, manufacturing had the largest direct requirement of for-hire transportation services, at 2.7 percent of its total cost. The industry groups of trade; finance, insurance, and real estate; services; and "other" each had a share of less than 1 percent.

TRANSPORTATION SERVICES COST BY COMMODITIES

The use of transportation on an industry basis differs from that on a commodity basis because many industries produce more than one commodity, and many commodities are produced by more than one industry. To analyze the importance of transportation costs in the purchasers' prices of commodities, both in-house transportation costs and for-hire transportation costs were distributed on a commodity-by-commodity basis.¹⁷

Among nontransportation commodity groups, agriculture, forestry, and fisheries had the highest transportation content (8.0 percent), followed by construction (7.7 percent), which reflects the general pattern of transportation use by industry. For both commodity groups, in-house transportation costs had a larger share in the total transportation cost than for-hire transportation costs. The services commodity group had a transportation content of 2.8 percent, of which 1.8 percent was in-house and 1.0 percent was for-hire. The finance, insurance, and real estate services and "other" commodities had the lowest transportation content, at less than 1 percent each.

THE MULTIPLIER EFFECT OF TRANSPORTATION SERVICES

The multipliers derived from the TSAs capture the direct and indirect interdependence between transportation and the rest of the economy. For example, to meet a \$1 increase in the final demand for agricultural products would require an increase of 14.2¢ in total transportation services output, while to meet a \$1 increase in the final demand for the output of the services sector would require only a 5.4¢ increase in transportation services. In general, demand for for-hire transportation services are more sensitive to changes in the output levels of goods producing industries, such as manufacturing, while demand for inhouse transportation services are more sensitive to changes in the output levels of the service industries, such as the wholesale and retail trade industry.

Changes in demand for for-hire and inhouse transportation services also induce changes in the output of other industries. This effect can be measured by the total industry

¹⁷ The total direct use of in-house transportation for an industry from the TSAs use table is distributed to the commodities produced by the industry, using the industry's output mix from the I-O make table. Repeating this procedure for every industry results in a table that shows the contributions of in-house transportation within each industry to the output of various commodities, that is, the costs of in-house transportation in the producers' prices of commodities.

The costs of for-hire transportation are distributed to commodities in the same manner. If a commodity is produced in more than one industry, then the commodity will receive the distributed in-house and for-hire transportation costs from more than one industry; the sum of all these costs is the cost of transportation in the producers' prices of that commodity.

output multiplier. The pipelines and freight forwarders group had the lowest total industry output multiplier, at 1.7. The multiplier for each of the other transportation groups was above 1.9. Overall, the economy's response to changes in demand for transportation was larger than that for communications and utilities; trade; finance, insurance, and real estate; and services, but less than that for agricultural, construction, and manufacturing commodities.

FUTURE WORK

The TSAs now provide a more comprehensive picture of all for-hire and most in-house transportation activities. In the future, work could proceed in several directions to improve and extend the accounts. This includes the following activities:

- The TSAs could address omissions as additional information becomes available. Currently, the TSAs omit in-house transportation activities of modes other than truck and bus, such as the business use of automobiles, corporate aircraft, and watercraft. When the capital flow table for the 1992 benchmark I-O accounts is published by BEA in early 1999, additional information on the business use of automobiles will be available on which to base estimates of related operating expenses for in-house transportation activities in the TSAs.¹⁸
- The accounts could be expanded to include the service values of government-owned transportation capital, such as highway infrastructure, and to include the transpor-
- ¹⁸ The capital flow table (CFT) shows industry use of each type of new structure and equipment included in the gross private fixed investment (GPFI) category in the I-O use table.

- tation services provided by households for their own use, such as commuting to and from work in a privately owned automobile. Inclusion of these services in the TSAs would result in the expansion of the production boundary beyond that of the I-O accounts.
- The TSAs could value in-house transportation output as a product of a quantity measure of output and the market price for a similar service. Because the value of inhouse transportation output cannot be measured directly, the TSAs currently determine the output of in-house transportation by summing the costs of all intermediate inputs and value-added inputs of compensation, indirect business taxes, and capital consumption allowances that are used for its production. Although this approach is frequently used to measure the value of inhouse types of production, the resulting estimates of output are understated because they do not include profits. As a result, such estimates have limited value for productivity analyses and other similar studies. This alternate approach would require the development of quantity and price estimates of for-hire transportation services. Before this approach could be implemented, however, quantity measures for transportation activities at the detailed industry-level would have to be developed.
- The treatment of in-house transportation used by industries in the TSAs could also be improved. Ideally, the TSAs should treat the use of in-house transportation as the I-O accounts treat the use of for-hire transportation, but doing so would require detailed information on the type of commodities carried by in-house trucks and on the origin and destination of the transported commodities.

Appendix of Detailed Tables

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Table A.

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

KEY: —

Industry		Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	and fishery	Metallic ores mining	Coal mining	Crude petrol- eum and natural gas	Non- metallic minerals mining		Maintenance and repair construction
number	Commodity number	(1)	(2)	(3)	(4)	(5+6)	(7)	(8)	(9+10)	(11)	(12)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$89,375 — — —	\$104,546 — —	\$205 2,047 9,613 —	1,051	\$10,726		_ _ _ _			
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _ _	12 —	26,907 — 2 —	\$97,613 — — —	11,720 —	#456,949	 \$222,381
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		_ _ _ _		_ _ _ _	_ _ _ _				 - - -	_ _ _ _
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		_ _ _ _	_ _ _ _		_ _ _ _	_ _ _		_ _ _ _	 - - -	_ _ _ _
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		_ _ _ _	_ _ _				— — 10 —		 - - -	_ _ _
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products		_ _ _ _	_ _ _	_ _ _ _	_ _ _	_ _ _ _	_ _ _ _ _	 127		_ _ _ _
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing		_ _ _ _	_ _ _	_ _ _	_ _ _ 1 _	_ _ _ _	_ _ _ _ _	 419	 - - -	_ _ _ _
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	_ _ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _		_ _ _ _
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _ _	_ _ _ _

65F 65G 66 67 68A 68B 68C 69A 69B 70A 70B	State and local passenger transit In-house transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance				- - - - - -	_ _ _ _ _	_ _ _ _	-	- - - - - -	_ _ _ _ _	
71A 71B 72A 72B 73A 73B 73C 73D 74 75 76	Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements	-			-	-	-	-	- - - - - - -		
77A 77B 78 79 82 84	Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry		_ _ _ _ _	_ _ _ _	- - - -	_ _ _ _	_ _ _ _	_ _ _ _ _		_ _ _ _	 - - -

Table A (continued).

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

KEY: —

Industry		Ordnance and acces- sories	Food and kindred products	Tobacco products	Broad and narrow fab- rics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied prod- ucts, except containers
number	Commodity number	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20+21)	(22 + 23)	(24)
1	Livestock and livestock products	_	\$887	_	_	_	_	_		_	_
2 3	Other agricultural products Forestry and fishery products		_	_			_		\$135 —		_
5+6	Agricultural, forestry, and fishery services Metallic ores mining	_	_	_	_	_	_	_	_		_
7	Coal mining	_	_	_	_	_	_	_	_	_	_
8 9+10	Crude petroleum and natural gas Nonmetallic minerals mining		_	_			_		_		_
11	New construction	-	_	_	_	_	_	_	_	_	_
12	Maintenance and repair construction		_	_	_	_	_	_	_	_	_
13 14	Ordnance and accessories Food and kindred products	\$21,180 —	407,209	_			_	 \$7	_		<u> </u>
15	Tobacco products	_		\$40,124	_	_	_		_	_	4
16 17	Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	_	_	_	\$37,131 37	\$254 16,995	\$226	1,675 118	_	<u> </u>	1 96
18	Apparel				265	34	68,354		_'	Ψ1	2
19	Miscellaneous fabricated textile products		_	_	80	48	13		4	40	26
20 + 21	Lumber and wood products	_	1	_	_	_	_	3	86,328	161	24
22 + 23 24	Furniture and fixtures Paper and allied products, except containers		_	23		239	_	20 36	127 112	42,228 17	11 96,241
25	Paperboard containers and boxes	_	7	_	_	_	_	_	9	_	81
26A	Newspapers and periodicals	_		_	_	_	_	_	_	-	— 570
26B 27A	Other printing and publishing Industrial and other chemicals	1	100 328	_		31 3	_	19	4		570 19
27B	Agricultural fertilizers and chemicals	-	62	_	_	_		_	9	-	1
28	Plastics and synthetic materials	_	_	_	_	219		_		_	_
29A 29B	Drugs Cleaning and toilet preparations		38 49				_				
30	Paints and allied products	_	-	_	_		_		_	_	6
31	Petroleum refining and related products	_	_	_	_	_	_	_	_	_	28
32 33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	5	34 9	_	5	52	 11	48 23	172	42	454
35 + 34	Glass and glass products		_	_	_			3	3	15	_
36	Stone and clay products	_	1	_	_	69	_	7	14	5	133
37	Primary iron and steel manufacturing		_	_		_	_	2	_	_	2
38 39	Primary nonferrous metals manufacturing Metal containers			_	_		_		_		=
40	Heating, plumbing, and fabricated structural metal products	_	_	_	_	_	_	1	71	67	_
41 42	Screw machine products and stampings Other fabricated metal products	1 4		_		5	_	2 8	3 29	8 49	229
43	Engines and turbines	_	_	_		_	_			—	
44 + 45	Farm, construction, and mining machinery	5	4	_	_	_	_	_	4	6	_
46 47	Materials handling machinery and equipment Metalworking machinery and equipment	-	_4	_	_	_	_	_	_1	33	_
48	Special industry machinery and equipment		15	_		2	_		_	2	_

75 76 77A 77B 78 79 82 84 85 T	Automotive repair and services Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry Inventory valuation adjustment Total commodity output						68,637				98,496
72A 72B 73A 73B 73C 73D 74	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places								_ _ _ _		_ _ _ _
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties										= = = = = = = = = = = = = = = = = = = =
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade				 - -				_ _ _ _		
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV					 - -		_ _ _ _			_ _ _ _
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation					3 1 —	27 —	1 33 — —	36 —	5 30 — —	150 11 — —
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	52 418 17 517				1 - - 25		11 - 17 2		9 - 1 70	 322
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies					 - -		6 — — 1	18 2 — —	5 2 3 —	10 - - 8
49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	 1 4	 5 	_ _ _ _	 - - -	1 - - -		3 - 5 3	1 — —	1 - 41 -	6 19 1 —

Table A (continued).

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

KEY: — = Value too small to report

(or donaro di produccio priccoj	into at production prices,						100 Jiliui	to roport		
Industry		Paperboard containers and boxes	News- papers and periodicals	and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	and synthetic materials	Drugs	Cleaning and toilet prepar- ations	Paints and allied products	refining and related products
number	Commodity number	(25)	(26A)	(26B)	(27A)	(27B)	(28)	(29A)	(29B)	(30)	(31)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	_ _ _ _	_ _ _ _	_ _ _ _				_ _ _ _	_ _ _ _		
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _	_ _ _ _ _	_ _ _ _	8 102 1,535 — —	 - - -		_ _ _			\$7,654 69 —
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	\$8 - - 3	_ _ _ _ _	_ _ _ _	38 800 13 —	\$2 —	 \$2,338 116	\$179 — 2	\$8 81 — —		 25
$ \begin{array}{r} 18 \\ 19 \\ 20 + 21 \\ 22 + 23 \\ 24 \end{array} $	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	11 - 108	_ _ _ _ _	— \$18 — 3 341	9 - 213		3 - - -	_ _ _ _ 1	3 15 — — 333	— — \$1 7	
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	31,260 — 34 —	\$18,942 953 —	48 2,376 78,033 2 —	— 9 96,890 1,218	 886 16,041	 5,575 334	— — 469 93	3 — 1,468 44	 240 	2,136 10
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	_ _ _ _ _	_ _ _ _ _	_ _ _ _	4,718 578 944 81 5,318	235 173 358 5 100	41,780 10 150 114 125	137 60,829 340 — 3	86 761 37,522 9 100	15 38 13,893 6	17
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	141 1 33 —	_ _ _ _ _	21 15 — —	156 — — 104 27	26 — 2 5	372 — — 8 1	2 — 37 —	31 — 27 —	34 — 19 —	1 — 65 —
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	29 — 4 106	_ _ _ _ _		187 — 34 — 3	- - - - 1	_ 1 _ -	_ _ _	_ _ _ 1	 1 3	_ _ _
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	_ _ _ _ _			— — 51 26		_ _ _	_ _ _ _	_ _ 1 _		4 - -

49 50 51 52 53 54 55 56 57 58 59A 60 61 62 63 65A 65B 65C 65F 65G 66 67 68A	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities)	5			20 18 — 9 12 — 6 — — 19 57 127 27 — — — — —	1 8 8	5 		26 	55	
68B 68C 69A 69B 70A 70B 71A 71B	Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties					_ _ _ _					_ _ _ _
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	_ _ _ _	_ _ _ _	 8		_ _ _ _				_ _ _ _	
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	_ _ _ _	_ _ _	_ _ _ _ _	_ _ _ _			_ _ _ _		_ _ _ _	
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	_ _ _ _ _	_ _ _ _	_ _ _ _ _	_ _ _ _			_ _ _ _			_ _ _ _
85 T	Inventory valuation adjustment Total commodity output	31,743	19,895	81,202	113,359	17,850	50,944	62,321	40,557	14,379	149,831

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

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Industry		Rubber and miscella- neous plastics products	leather, and leather		Stone and clay products	facturing	nonferrous metals manu-	Metal containers	Heating, plumb- ing, and fabri- cated structural metal products	machine products and	Other fabri-
number	Commodity number	(32)	(33 + 34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining					 - -					
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _		_ _ _ _	344 — —	- - -	= = =	_ _ _ _ _	_ _ _ _ _		_ _ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	\$27 — 2 99	\$143 — 2 29		_ _ _ _ _	\$12 — — — —	\$13 — — — 1	\$3 — —	\$9 — — —	\$19 — — — —	\$4 — 7 5
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	37 57 79 67 923	42 12 — 1	\$61 97	— 7 8 17	 17 		_ _ _ 7 _	1 79 37		9 26 28 107 259
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	303 — 14 294 1	 41 1	_ _ _ 7 _	— 3 117 1		1,222	29 155 —		1 1 1 —	2 67 14 1
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	788 2 17 3 13		— — — — 16	3 14 22 80	2 — — 4		_ _ _ _ _	_ _ _ _ _	_ _ _ _ _	_ 1 _ -
32 33 + 34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	107,428 33 64 125 3	9,226 — — —	59 — 17,551 49 —	6 6 41,399 9	29 — 13 72,986	105 — 34 452	10 — — — —	118 — 10 29 121	120 1 35 26 18	242 7 5 33 2,182
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	39 13 412 59 253		60 23 6 4	8 34 8 34	342 — 43 6 90	62,324 1 80 19 76	12,986 28 14 4	— 3 47,327 40 268	38 1 176 32,765 185	214 21 439 158 51,070
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	3 13 57 34		— — — — 1	— — 47 4	12 71 2 54 13		_ _ _ _ _	93 68 36 23 18	5 336 2 87 3	15 190 21 128 37

49 50 51 52 53 54	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances	20 22 13 18 6		 1 13	6 9 9	50 26 6 32 1			94 197 1 192 7 30	16 95 9 33 23 52	168 348 13 64 12
55 56 57 58	Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	33 1 43 24	2 	20 — 1 —	1 9 — 10	75 — 5 —	21 — 61 306	_ _ _	21 1 3	2 12 31 6	74 4 97 12
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	8 35 19 91		 12			51 7 — 7	_ _ _ _	49 14 110 38	375 33 2 5 21	42 111 2 196
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	82 133 — — —	6	_ _ _ _	1 4 — —	_ _ _ _	3 - - -	_ _ _ _	1 7 — —	4 7 — —	82 — — —
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	_ _ _ _				_ _ _ _		_ _ _ _	_ _ _ _ _		_ _ _
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade	_ _ _ _				_ _ _ _	_ _ _ _		_ _ _ _ _		_ _ _ _
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	_ _ _ _		_ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	_ _ _ _		_ _ _ _		_ _ _ _		_ _ _ _	_ _ _ _		
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services					_ _ _ _		_ _ _ _	_ _ _ _ _	_ _ _ _ _	
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry				37 —	_ _ _ _		=	_ _ _ _ _	_ _ _ _ _	
85 T	Inventory valuation adjustment Total commodity output	111,813	9,538	 17,981	42,291	73,9 <u>22</u>	64,813	13,238	49,050	34,564	56,518

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

\	o or donaro de producero priceo,										in to roport
Industry		Engines and turbines	Farm, con- struction, and mining machinery	and equip- ment	Metal- working ma- chinery and equipment	industry machinery and equipment	ment	except electrical		industry machinery	and apparatus
number	Commodity number	(43)	(44 + 45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)
1 2	Livestock and livestock products Other agricultural products		=		_	_	_		_	_	_
3 4	Forestry and fishery products Agricultural, forestry, and fishery services		_	_	_	_	_	_	_	_	_
5+6	Metallic ores mining	_	_	_	_	_	_	_	_	_	_
7 8	Coal mining Crude petroleum and natural gas		_		_	_		_			_
9 + 10 11	Nonmetallic minerals mining New construction	-	_	_	_	_	-	_	_	_	_
12	Maintenance and repair construction	_	_	_	_	_	_	_	_	_	_
13 14	Ordnance and accessories Food and kindred products	_	\$1	\$11	\$17	\$4	\$6	\$6	_	\$22 4	\$1
15	Tobacco products		_	_	_		_	_		_	_
16 17	Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		_		_	_	=	_	=		_
18	Apparel	_	_	_	_	12	_	_	_	_	_
19 20 + 21	Miscellaneous fabricated textile products Lumber and wood products		_		_	_		_	\$2 1		_
22 + 23 24	Furniture and fixtures Paper and allied products, except containers		12	23 1	2	_	1 1	2	 11	22 3	2 1
25	Paperboard containers and boxes	_	_	_	7	_	1	_	17	_	
26A 26B	Newspapers and periodicals Other printing and publishing		_	_				_	 11	_	_
27A 27B	Industrial and other chemicals Agricultural fertilizers and chemicals		36	_	4	11	9			1	_
28	Plastics and synthetic materials	_	_	_	_	_	4	_	_	_	_
29A 29B	Drugs Cleaning and toilet preparations		_		_	1 1		_	=	8	_
30 31	Paints and allied products Petroleum refining and related products		 5	_	_	7	1	_	_		3
32	Rubber and miscellaneous plastics products	\$3	26	3	565	44	99	18	_	6	45
33 + 34 35	Footwear, leather, and leather products Glass and glass products	_	_	_		_1	_	_		_	_ 1
36	Stone and clay products	_	8	_	81	3	_	1	_	4	7
37 38	Primary iron and steel manufacturing Primary nonferrous metals manufacturing		21	_	189 197	3	21	18 9	4	1	9
39	Metal containers	_	<u>-</u>	_	_		_	_	_		=
40 41	Heating, plumbing, and fabricated structural metal products Screw machine products and stampings	7	36 23	37 3	70 657	47	99 51	133 92	2 2	55 17	4
42	Other fabricated metal products	1 1	46	24	162	58	143	271	1	26	93
43 44 + 45	Engines and turbines Farm, construction, and mining machinery	15,965 107	12 30,055	136			94 133	63 95		12	431 27
46 47	Materials handling machinery and equipment Metalworking machinery and equipment		65 243	7,773 31	28 24,194	28 146	73 85	13 225	1 1	7 5	26 55
48	Special industry machinery and equipment	1	54	88				58	3	85	

49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	221 31 1 2 26	108 8 1 4 15	63 5 9 4	90 239 5 4 26	183 20 1 64 2	28,058 55 1 122 144	137 23,383 14 13 2	58,040 4 29	169 3 — 24,998 17	104 144 19 9 26,759
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies		4 1 —		23 34 2 4 6	1 6 1 113 —	12 8 — 3 9	137 -4 7	34 298 2,816 17	182 — — — 3	174 203 38 118 38
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	20 531 784 39 153	26 50 1 57 7	40 	20 54 19 8 58		62 27 1 109	59 95 37 53	5 3 3 70	138 3 — 4	47 2 68 133
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation		20 — —	_ _ _ _		9 2 — — —	11 19 — —	1 - - -	688 25 — — —	3 - - -	1 - - -
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV			_ _ _ _	_ _ _				_ _ _ _	_ _ _ _	_ _ _ _
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade			_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical		_ _ _	_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry			_ _ _ _	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
85 T	Inventory valuation adjustment Total commodity output	17,895	30,946	8,290	27,046	20,218	29,678	24,946	62,088	25,801	28,574

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

Industry number	Commodity number	House- hold appli- ances (54)	and wiring	Audio, video, and communi- cation equipment (56)	Electronic components and accessories (57)	machinery	Motor vehicles (passenger cars and trucks) (59A)	Truck and bus bodies, trailers, and motor vehicles parts (59B)		Other trans- portation equip- ment (61)	Scientific and controlling instruments (62)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	_ _ _ _	_ _ _ _ _				_ _ _ _	_ _ _ _			_ _ _ _
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _ _	_ _ _ _ _	_ _ _ _		 - - -	_ _ _ _	_ _ _ _			_ _ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	_ _ _ _	_ _ _ _ _	\$116 — — —	\$16 — — —	\$47 	_ _ _ _	\$8 	\$2,986 — — —		\$1,235 — — 10 26
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	\$5 — 17		— — 12 12		 371	_ _ _ _	 5 	 - - -	 \$4 	49 3 3 14 151
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals				 1 8 		_ _ _ _	_ _ _ _	 - -		14 10 17
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	4 	_ _ _ _ _	 - -			_ _ _ _	 - - -	 29	 	240 20 —
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	116 — — —	150 — 5 9 173	1 - - -	84 — 28 5	8 — 17 —	_ _ _ _	26 — 25 41 175	6 1 5	5 — — —	107 13 37 22 62
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	97 60 3	13 7 13 47	143 — — 4 —	106 — 12 16 28	12 — 6 2 3		— 39 295 105	3 5 - 71	— 21 9 22	7 22 11 254
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	— 3 — 79 25	58 1 15 7	_ _ _ _		3 1 - 7 4		170 137 8 9 10	148 11 1 3	5 275 12 4 —	2 13 — 30 28

49 50 51 52 53 54 55 56 57 58 59A 601 61 62 63 64 65A 65B 65C 65D 65E 65G 66 67 68A 68B 68C 69A 70A 70B 71A 72B 73A 73B 73C 73D 74 75 75 76	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements	# 4	16 4 3 185 16 17,802 66 95 118 9 2 7		211 7 3.683 13 162	5 213 267 4 100 6 12 1588 105 18,906 458 11 19 291 53 6 — — — — — — — — — — — — — — — — — —	\$7	93 172 633 64 20 161 50 236 2,363 76,069 100 62 182 — — — — — — — — — — — — — — — — — — —	5 37 ———————————————————————————————————	2 4 4 7 1 3 20 39 48 29,393 1	555 366 188 1399 9 98 1,225 2144 7866 ——————————————————————————————————
77Å 77B 78	Health services Educational and social services, and membership organizations Federal Government enterprises		_ _				_ _ _		_		= =
79 82 84	State and local government enterprises General government industry Household industry		_ _ _		_ _ _	_ _ _	_ _ _	_ _ _ _		_ _ _	_ _ _ _
85 T	Inventory valuation adjustment Total commodity output	16,833	19,055	50,981	73,298	21,103	149,684	81,258	102,154	29,907	107,915

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

(or donard at productor prices,						•		value to	o omian te	roport
Industry		Ophthalmic, and photo- graphic equipment		Railroads and related services; pas- senger ground transportation	Motor freight transportation and warehousing	Water trans- portation	Air trans- portation	Pipelines, freight forwarders, and related services	In-house trans- portation	Communi- cations, except radio and TV	Radio and TV broad- casting
number	Commodity number	(63)	(64)	(65A)	(65B)	(65C)	(65D)	(65E)	(65G)	(66)	(67)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining				\$11 — —						
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _ _	_ _ _ _	 - -	 - -		 - - -			_ _ _ _	_ _ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	_ _ _ _ _		_ _ _ _	_ _ _ _		 - - -			_ _ _ _	_ _ _ _
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	\$2 — 10	8 53 12 41 100				 - - -		_ _ _	_ _ _ _	_ _ _
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		38 — 301 16 —	_ _ _ _	_ _ _ _	 - -	 - - -				_ _ _
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	7 17 — —	7 46 18 9			 - -	 - - -			_ _ _	_ _ _ _
32 33 + 34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	25 — — 1 —	230 15 5 30 3	_ _ _	 - - -		 - - -			_ _ _ _	_ _ _ _
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	_ _ _ _ 1	5 6 27 54	_ _ _ _	_ _ _ _		 				_ _ _ _
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	_ _ _ _ _ 11		_		_ _ _ _		 - -			_ _ _

49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	88 —	16 1 85 4 2				_ _ _ _ _	 - - -	_ _ _ _		_ _ _ _
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	6 7 - 6 301	2 8 12 5 17	_ _ _ _	_ _ _		_ _ _ _				_ _ _ _
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments		1 8 69 42	_ _ _ _	_ _ _		_ _ _ _ _				_ _ _ _
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	22,143 6 — —	38,127 — — —	55,576 —	174 155,590		_ _ _ _ _				_ _ _ _
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV			542 5,876 —	1,320 — — —	194 — — —	\$94,141 2,632 — —	\$28,928 — — —	\$165,461 —	\$205,941	_ _ _ _
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade	_ _ _ _		_ _ _ _		_ _ _	_ _ _ _ _				\$2,674 — — — —
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _	_ _ _ _	_ _ _ _			_ _ _ _
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _				_ _ _ _
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	_ _ _		_ _ _ _	 15 	_ _ _ _	_ _ _ _				_ _ _ _
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	_ _ _ _	_ _ _ _	64 —	_ _ _	 1,713 	2,046 —		_ _ _		_ _ _ _
85 T	Inventory valuation adjustment Total commodity output	22,745	39,450	62,058	157,110	34,347	98,819	28,966	165,461	205,941	2,674

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

(IVIIIIIVII)	or dollars at producers prices							KL1. — –	· value to	J Siliali lu	Teport
Industry		Electric services (utilities)	Gas production and distribution (utilities)	sanitary services	Wholesale trade	Retail trade		Insurance	Owner- occupied dwellings	Real estate and royalties	Hotels and lodging places
number	Commodity number	(68A)	(68B)	(68C)	(69A)	(69B)	(70A)	(70B)	(71A)	(71B)	(72A)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	 - - -	 - - -				_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	=
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction		 - -		_ _ _ _	 	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	 - -		_ _ _			_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	=
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		 - -	_ _ _ _				_ _ _ _	_ _ _ _	_ _ _ _	_ _ _
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		 - -	_ _ _ _	_ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products		 - -	_ _ _ _	_ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing		 \$43		_ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	=
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products		 - - -	_ _ _ _	_ _ _ _		_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment		_ _ _ _ _	_ _ _ _	_ _ _ _				_ _ _ _		=

49 General industrial machinery and equipment	
52 Service industry machinery 53 Electrical industrial equipment and apparatus 54 Household appliances - - - - 55 Electric lighting and wiring equipment	
53 Electrical industrial equipment and apparatus — <t< td=""><td></td></t<>	
54 Household appliances — — — — — — — — — — — — — — — — — — —	
55 Electric lighting and wiring equipment — — — — — — — — — — — — — — — — — —	
56 Audio, video, and communication equipment	
57 Electronic components and accessories - - - - - - - -	
58 Miscellaneous electrical machinery and supplies — — — — — — — — — — — — — —	
59A Motor vehicles (passenger cars and trucks)	
59B Truck and bus bodies, trailers, and motor vehicles parts	'
60 Aircraft and parts	_ _ _
62 Scientific and controlling instruments	
63 Ophthalmic and photographic equipment — — — — — — — — — — —	_ _
64 Miscellaneous manufacturing	
65A Railroads and related services; passenger ground transportation - - - - - - -	_ _ _
65B Motor freight transportation and warehousing — — \$11,363 — — — — — — —	- -
65C Water transportation	- -
65D Air transportation	- -
65E Pipelines, freight forwarders, and related services	- $- $
65F State and local passenger transit	
66 Communications, except radio and TV	
67 Radio and TV broadcasting — — — — — — — — — —	_ _
68A Electric services (utilities) \$170,428 - 468 - - - -	
68B Gas production and distribution (utilities) '- 92,953 204 - - - - -	_ _ _
68C Water and sanitary services	- -
69A Wholesale trade - - \$568,970 - - -	- -
69B Retail trade \$522,519	- -
70A Finance	- -
70B Insurance	
71B Real estate and royalties — — — — — — — — 229	\$549.884
72A Hotels and lodging places — — — — — — — — — — — — — — — — — — —	666 \$58,936
72B Personal and repair services (except auto)	— \$30,330 — —
73A Computer and data processing services '	- -
73B Legal, engineering, accounting, and related services	- -
73C Other business and professional services, except medical — — — — — — — — — — — — — — — — — — —	- -
73D Advertising	- -
74 Eating and drinking places — — — — — — — — — — — — — — — — — — —	- -
75 Automotive repair and services	
70 Antiderinias	_ _ _
77B Educational and social services, and membership organizations - - - - - - -	_ _
78 Federal Government enterprises 6,504 - - 2,092 - -177 -	422 —
79 State and local government enterprises 18,763 3,159 19,586 — 1,567 64 57 —	8,766 —
82 General government industry	- -
84 Household industry	- -
85 Inventory valuation adjustment	
T Total commodity output 195,695 96,155 50,265 568,970 526,178 390,774 231,654 457,250	559,738 58,936

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

(or donard at productors prices;										un to roport
Industry		à auto)			Other business and professional services except medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Health services	Educational and social services, and membership organizations
number	Commodity number	(72B)	(73A)	(73B)	(73C)	(73D)	(74)	(75)	(76)	(77A)	(77B)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining								\$534 504 — —		
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	_ _ _ _	_ _ _ _ _	_ _ _ _ _	_ _ _ _	- - -		_ _ _	_ _ _ _	_ _ _ _	_ _ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	_ _ _ _		_ _ _ _	_ _ _ _ _			_ _ _			_ _ _ _
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	_ _ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _			_ _ _			_ _ _ _
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	_ _ _ _		_ _ _ _	_ _ _ _	\$35,360 30,114 —		_ _ _			_ _ _
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	_ _ _ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		 - -			_ _ _ _
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	_ _ _ _ _		_ _ _ _	_ _ _ _						_ _ _ _
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	_ _ _ _	_ _ _ _	_ _ _ _				_ _ _	_ _ _ _		_ _ _
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	_ _ _ _	_ _ _ _	_ _ _ _	\$80 — —			_ _ _ _	_ _ _ _		_ _ _ _

49 50 51 52 53 54 55 56 57 57 58 59A 61 62 63 65B 65C 65B 65C 65B 66E 66E 66E 66B 68C 68A 68B 68C 69A 70A 71B 72B 71B	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation Air transportation Air transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings Real estate and lodging places Personal and repair services (except auto) Computer and data processing services	\$91,564	\$1,505 			2,401 ————————————————————————————————————		\$25,114	\$49			
72A	Hotels and lodging places	\$91,564 — — 449	— 115,730 387 416	 \$251,701 896	 4,273	— — — — 11,447			— — — — 93	_	_ _ _ _	
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	_ _ _ _			214 — 131 74 379	29.651	\$280,187 — — —	138,235 —	121,276		 	
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	3 - -		_ _ _ _	_ _ _ _ _	701 — — —	1,830 — — —	987 —	98 383 —	_ _ _ _	\$227,631 — — — —	
85 T	Inventory valuation adjustment Total commodity output	92,016	118,038	252,597	332,385	 138,530	 282,017	 164,408	 122,937	 564,607	227,631	

Detailed Make of 100 Commodities by 100 Industries

(Millions of dollars at producers' prices)

(IVIIIIIOIIS	or dollars at producers prices)				N.E.	i. — = \	value 100 Si	nan to report
Industry		Federal Government enterprises	State and local gov- ernment enterprises	Scrap, used and second-hand goods	General government industry	Household industry	Inventory valuation adjustment	Total industry output
number	Commodity number	(78)	(79)	(81)	(82)	(84)	(85)	
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining							\$91,504 108,294 9,613 28,251 10,749
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction					_ _ _ _	_ _ _ _	26,917 105,369 13,682 456,949 222,381
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings			\$5 —		_ _ _ _	_ _ _ _	25,760 408,482 40,146 41,646 17,580
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	_ _ _ _		— 36 12 79	=	_ _ _ _	_ _ _ _	69,132 19,055 86,865 42,977 99,613
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	_ _ _ _		132 19 72 57 2		_ _ _ _	_ _ _ _	31,938 56,711 110,564 109,880 17,831
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	_ _ _ _		29 18 11 — 19		_ _ _ _	_ _ _ _	48,040 62,674 39,628 14,198 145,709
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing			64 		_ _ _ _		111,361 9,368 17,815 42,904 76,565
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	_ _ _ _	_ _ _ _	57 	_ _ _ _	_ _ _ _	_ _ _ _	63,773 13,065 49,491 34,703 53,974
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment			17 21 4 8 5		_ _ _ _	_ _ _ _ _	17,044 32,031 8,152 25,611 20,231

49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	=	_ _ _ _	78 17 3 36		_ _ _ _		29,814 25,071 63,924 26,455 27,809
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	= = =	_ _ _ _	3 — —		_ _ _ _	 - - -	16,636 19,111 52,155 70,940 21,223
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	_ _ _ _		24 231 — 11 9	_ _ _ _	_ _ _		150,738 80,266 101,709 30,000 105,489
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	_ _ _ _	_ _ _ _	2 	_ _ _ _	_ _ _ _		24,131 41,315 55,754 166,953 32,440
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	_ _ _ _	_ _ _ _	 - -	 - - -	 - -		94,141 33,616 5,876 165,461 208,094
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade	_ _ _ _ _	### \$424 ###################################	 114 				29,359 170,896 93,157 19,182 568,970
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	_ _ _ _	_ _ _ _	 - -	_ _ _ _	 - -		522,519 416,272 231,097 457,250 550,113
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _	_ _ _ _		59,602 91,772 115,730 256,361 340,445
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	_ _ _ _	_ _ _ _	521 — —	_ _ _ _			29,865 280,708 138,381 121,368 564,986
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	\$50,200 — — —	29,738 ————————————————————————————————————	_ _ _ _	 \$764,389 	 \$10,087		228,332 60,972 86,930 764,389 10,087
85 T	Inventory valuation adjustment Total commodity output	50,200	30,162	 2,175	764,389	10,087	- \$7,982 - 7,982	-7,982 10,988,108

Table B. **Detailed Use of Commodities by Industries** (Millions of dollars at producers' prices)

KEY: — = Value too small to report N = Not applicable

(IVIIIIIVII)	or dollars at producers prices								IV	- 1101 6		
Commodity			Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining		Crude petro- leum and natural gas	Non- metallic minerals mining	New con- struction	Maintenance and repair construction
number	l I	ndustry number	(1)	(2)	(3)	(4)	(5+6)	(7)	(8)	(9+10)	(11)	(12)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining		\$12,133 22,177 — 4,050	\$5 3,044 — 7,787	\$66 — 262 2,023	\$672 3,160 38 152		 \$17	\$1 		\$1,217 — 1,335	\$661 814
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction. Maintenance and repair construction		 7 997	 289 1,273	 328		15 -7 -204	3,042 	20,296 — 2,288	58 	— 3,291 170 243	2,1 <u>54</u> 2139
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		15,973 — — — 138	 268 211	311 — 56	94 — — 80			_ _ _ _		 1,187	— — — — 659
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		 44 211	163 460 — 250	9 17			$\frac{\frac{3}{67}}{\frac{4}}$	1 1 - 1	 9	289 23,353 1,346 1,796	178 14,386 5 601
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		5 7 6 119 215	724 8 8 58 8,358	22 — 9 3 28	136 5 6 5 2,177	4 — 515 1	5 1 1 243 2	2 2 1 1,173 —	2 18 1 257	244 — 120 1,591 1	131 — 69 674 —
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products		288 65 — 314	 1,515		1 3 48	 228	 547	— 5 0 530		144 3,999 4,492	 109 2,014 4,006
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing		359 35 8 — 11	513 — — 136 17	3 	22 	88 — 58 287	239 — 104 82	10 1 2 189 1,191	142	6,815 — 1,054 23,430 3,699	3,767 — 155 6,224 1,519
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal Screw machine products and stampings Other fabricated metal products	products	— 20 34 132	 25 250		2 — — 66	— 81 13 2	13 71 134 62	— 38 — 444	— 51 11 8	3,482 — 23,542 284 9,047	1,676 — 9,353 111 3,590
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment		253 — 31 —	684 — 45 —	11 40 — —	22 - 1 0	27 316 66 7	92 884 157 5	21 288 52 19	41 508 187 3	907 1,327 318 0	408 22 103 2
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical		30 48	71 131	1 1	2 12	35 23	223 114	103 169	94 14	3,286 237	635 6

51 52 53 54 55 56 57 58 59A 59B 60 61 62 63 64 65B 65C	Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies. Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	— 8 8 34 — 176 — 52 — — 28 1,165 1,904 106	20 	2 3 3 2 5 14 12 12 122 154 32	2 	15 15 3 3 14 2 2 566 141 15 34				5,015 2,648 945 8,255 1,896 — 910 — 61 1,496 48 1,541 817 6,877 447 638	2,359 1,000 552 3,643 626 — 405 — 292 — 33 582 23 731 477 3,425 276 325
65E 65G 66 67 68A 68B 68C	Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services	76 2,604 206 — 1,635 — 103	5 8,259 225 — 783 290 544	0 682 12 — 6 2 14	1 1,631 84 — 47 2	1 402 24 — 792 77	1,075 33 — 577 34 3	1,330 176 — 1,616 2,819 82	1 1,063 36 — 670 272 7	3 25,007 1,595 — 644 113 459	1 13,943 913 — 351 — 268
69A 69B 70A 70B 71A 71B 72A	Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	4,706 — 466 280 — 3,973 23	5,316 — 508 334 — 9,375 32	171 18 79 43 — 12 25	913 7 174 69 — 215 39	287 14 80 24 — 94 29	806 33 183 40 — 564 74	887 117 589 102 — 17,181 256	417 41 129 41 — 157 34	17,578 17,963 2,934 2,439 — 2,470 367	8,416 9,802 1,329 758 — 1,293 200
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places	24 48 54 388 11	67 54 68 1,012 23 14	5 12 214 144 6 32	71 14 382 284 101 53	5 22 153 129 5 39	7 21 404 190 14 88	11 110 1,876 365 128 303	4 47 126 112 43 50	228 307 31,216 12,495 343 456	137 182 7,993 6,889 186 244
75 76 77A 77B 78 79	Automotive repair and services Amusements Health services Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises	167 — 1,414 54 8 14	443 — 63 9 32	20 2 — 25 5 1	315 219 — 18 26 14	42 1 	38 8 - 53 1 3	88 30 — 80 — 2	25 1 - 8 7 - 19	2,106 56 — 27 421 14	1,270 33 — 11 247 8
80 81 82 83 84 85	Noncomparable imports Scrap, used and secondhand goods General government industry Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total intermediate inputs	77,461	44 — — — — 56,091		2 — — — — — 12,512	6,732	21 - - - - 11,970	1,025 — — — — — 57,067	6,252	5 — — — 273,580	3 - - - - 123,394
88 89 90 VA T	Compensation of employees Indirect business tax and nontax liability Other value added Value added Total industry output	4,077 1,166 8,799 14,043 91,504	7,082 3,048 42,073 52,203 108,294	1,486 462 2,378 4,325 9,613	13,225 530 1,984 15,739 28,251	2,503 531 983 4,017 10,749	7,785 2,401 4,761 14,947 26,917	13,439 4,696 30,167 48,302 105,369	4,050 536 2,844 7,430 13,682	2,605 36,280 183,369 456,949	74,863 641 23,483 98,987 222,381

(Millions of dollars at producers' prices)

1	or dollars at producers prices,									- Not ap	P.100010	
Commodity			Ordnance and acces- sories	Food and kindred products	products	Broad and narrow fab- rics, yarn and thread mills	textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied prod- ucts, except containers
number	In	ndustry number	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20 + 21)	(22 + 23)	(24)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining		 \$25 	\$71,965 31,764 2,988 117	\$3,0 <u>95</u> 	\$389 2,692 — 10 —	\$52 46 — 5 —	\$19 56 195 11		\$7,058 25		\$11 <u>41</u>
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction		2 — — 147	202 — — — 1,686	26 — — 86	27 — — 219	14 — — — 163	20 — — — 277	3 — — 64	4 — — 283	12 — — — 179	366 — 324 — 1,203
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		362 — 14 —	63,572 — — 20	3,348 - 4	8,781 61	11 	14,833 23	5,101 1,160	 169		639 — 109 664
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		13 52 — 7	73 73 — 5,149	2 1 109	34 — — 30	2 — — 28	13,656 2,210 1 — 75	438 607 35 — 13	7 2 26,156 74 49	3 20 3,314 421 100	5 2 6,508 — 14,665
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		50 3 — 207 21	7,876 4 1,186 2,115	452 258 4	44 	47 1 1 388 —	101 — 29 5	40 — 12 109 —	231 13 15 441 211	677 2 12 68 —	1,306 7 193 4,693 24
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products		80 — 8 56	162 1,277 484 — 923	283 — 68 — 52	6,874 — 43 — 119	4,264 — 75 — 68	840 283 — 109	395 — — — 40	323 	129 32 390 119	2,432 — 421 9 605
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing		358 — — 36 370	7,370 	225 — 3 —	195 — 298 1 —	170 — 10 — 2	345 258 — —	340 430 — — —	809 9 271 346 38	1,906 45 169 121 1,617	3,315 — — 83 29
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal Screw machine products and stampings Other fabricated metal products	products	461 — 170 242	9,422 — 599 1,227				 5	_ _ _ _	17 490 352 951	439 — 477 2,001	90 — 5 332
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment		22 — 37 81	5 — 44 125	 10	 15 62		 191			 36 16	 54 292
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical		273 161	226 171	1 5			5 21	 19	152 142	73 85	35 212

1	10			. 1					1		1
51 52	Computer and office equipment Service industry machinery		45	2 6	_		_ 1	_			<u>_</u> 8
53	Electrical industrial equipment and apparatus	166	100	15	2	_		_	6	12	22
54 55	Household appliances		— 94	— 17		_	_	_	173		
56	Electric lighting and wiring equipment Audio, video, and communication equipment	281			_	_	_		132		23
57	Electronic components and accessories	1,316	_ _ 17	_ _ 2	1	_	_	_	_	_	_
58 59A	Miscellaneous electrical machinery and supplies	7	17	2	_	1	3	_	15	1	6
59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	1	182	2	5	3	9	_	235	14	20
60 61	Aircraft and parts	1,976	-	-	_	_	_	_		_	_
62	Other transportation equipment Scientific and controlling instruments	805	8	3	_	_	_	_	1	10	21
63	Ophthalmic and photographic equipment	6	9	1	3	1	2	1	12	6	10
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	30	26 2,572	5 37	— 165	1 102	712 69	23 22	36 631	11 139	1,135
65B	Motor freight transportation and warehousing	178	6,148	182	427	293	579	239	2,072	576	2,807
65C	Water transportation	_	862	9	15	23	4	6	136	14	190
65D 65E	Air transportation Pipelines, freight forwarders, and related services	115	1,388 12	110 2	129	58	287	89	281 4	153	357 8
65G	In-house transportation	124	4,624	36	365	<u>—</u> 65	517		1,014	1,325	489
66 67	Communications, except radio and TV	78	548	60	56	47	126	43	150	125	217
68A	Radio and TV broadcasting Electric services (utilities)	220	3,341	84	1,140	251	685	158	1,052	369	2,580
68B	Gas production and distribution (utilities)	44	1,650	15	203	96	229	67	182	99	1,188
680	Water and sanitary services	21	494	5	46	34 695	30	19	115	35	540
69A 69B	Wholesale trade Retail trade	651 3	22,333 733	715 115	1,914 26	3	2,930 11	938 4	5,159 74	2,933 68	4,990 135
70A	Finance	172	2,676	261	230	117	453	134	591	341	675
70B 71A	Insurance Owner-occupied dwellings	34	627	56	53	24	87	26	143	69	156
71B	Real estate and royalties	247	1,617	136	140	81	763	287	581	453	365
72A	Hotels and lodging places	77	1,038	121	106	53	205	58	254	122	296
72B 73A	Personal and repair services (except auto) Computer and data processing services	23 223	461 657	37 66	247 102	72 57	105 94	11 27	131 171	32 78	291 380
73B	Legal, engineering, accounting, and related services	127	1,147	369	108	66	168	73	332	320	224
73C 73D	Other business and professional services, except medical Advertising	395 125	3,962 10,554	291 3,166	490 107	192 173	3,059 764	177 92	988 335	657 467	1,419 620
74	Eating and drinking places	102	1,276	145	149	68	285	83	343	176	370
75	Automotive repair and services	48 5	1,345	115	169	76	134	34	393	79	655
76 77A	Amusements Health services	5	199	44	4	3	26 —	2	21	7	30
77B	Educational and social services, and membership organizations	18	250	33	23	10	45	114	255	63	96
78	Federal Government enterprises	4	163	54	21	19	62	26	51	51	55
79 80	State and local government enterprises Noncomparable imports	14 6	358 485	26 17	24 28	27 10	156 23	52 2	143 8	76 31	164 99
81	Scrap, used and secondhand goods	_	-	_	_	37	_	_	_	7	800
82 83	General government industry Rest of the world adjustment to final uses	_	<u> </u>	<u> </u>	_		_		_		_
84	Household industry '		_	_	_	_	_	_	_		_
85	Inventory valuation adjustment Total intermediate inputs	10.920	286,851	14,440	27.405	 11,857	46.193	11.728	55.763	24,525	60.117
88	Compensation of employees	10,920	53,793	3,345	10,237	3,558	18,831	5,122	17,980	12,319	20,127
89	Indirect business tax and nontax liability	309	10,133	5,539	240	119	234	84	460	203	855
90 VA	Other value added Value added	4,429 14,841	57,706 121,631	16,822 25,706	3,764 14,241	2,046 5,723	3,874 22,939	2,121 7,327	12,662 31,102	5,929 18,452	18,515 39,496
Ť	Total industry output	25,760	408,482	40,146	41,646	17,580	69,132	19,055	86,865	42,977	99,613

Table B (continued). **Detailed Use of Commodities by Industries**(Millions of dollars at producers' prices)

KEY: — = Value too small to report N = Not applicable

Cleaning Paints Petroleum

Commoditu		Paperboard containers and boxes	News- papers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet prepar- ations	Paints and allied products	Petroleum refining and related products
Commodity number	Industry number	(25)	(26A)	(26B)	(27A)	(27B)	(28)	(29A)	(29B)	(30)	(31)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	- - - \$8	\$26 —	\$5 29	5587 29 46 1,055	## 10	\$1 16	\$137 22 30	\$41 — — 13		\$1 1 20 21
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	25 — — — 159		 561	206 3,459 1,009 — 1,091	29 624 918 — 148	58 237 — — 498	18 1 — 454	9 13 — 215	2 4 — 52	7 74,499 407 — 1,094
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	 - - -			- 363 - - 1	287 — — —	— 52 — 9 1	216 — — 8		129 — — —	139 — — —
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	37 13,453	 11 5,089		1 37 — 290	 47	2 — — 760	2 1 153	4 	 2	
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	77 21 7 661 —	15 1,149 3,927 411 —	493 164 12,340 1,977	532 8 19 25,203 926	81 106 1,946 2,046	212 2 1 16,336 226	664 6 387 1,529	1,503 1 160 3,859	1 11 2,895	133 3 7 2,093
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	151 — 106 233	 1 102	7 — 2 158	860 — 116 529 1,865	 71 182	1,591 — 279 16 185	8,365 49 — 72	 2,147 11 415	1,777 — 2 253 141	419 12,265
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	146 — — — 233	19 1 — — 1	1,362 2 2 28	1,245 — 107 120 319	149 — 16 30 1	2,023 7 8 1	1,312 — 256 11	2,431 — 214 3 1	1 3 185 5	476 1 330 278 20
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	71 — 18 234	 23	47 — — 25	9 647 — 3 714	85 — 42		81 — 65 40	431 — 49 94	1 500 — 2 2	137 — — 115
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment		1 - 4 25		 42 640	- - 1 -				_ _ 1 _	 19
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	— 61	— 19	94	5 388	10 9	26 75	41 24	4 34	3	1 91

1	10		1			1	ı	1	ı	1	1
51 52 53	Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus		22 2 —	49 1 1	47 79	_ _ 1	 1 5				<u> </u>
54 55 56 57	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories	_ _ _ _	 3 1	3 4	- 6 -		4 	12 —	20 —	_ _ _	8
58	Miscellaneous electrical machinery and supplies	1	21	14	2		_	=	_		2
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	8 — — 6	38 — — 19		12 — — 98		_ 1 _ 4	 15 14		 2 4	48 — — 25
63	Ophthalmic and photographic equipment	2	147	792	21	1	4	42	5	1	6
64 65A 65B 65C	Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	1 378 1,211 12	21 182 508 4	70 496 1,802 24	3 1,184 2,538 390	279 986 86	1 460 945 159	30 126 254 12	6 205 453 54	1 258 360 45	5 350 696 722
65D	Air transportation	145	197	436	396	54	169	211	134	40	97
65E 65G	Pipelines, freight forwarders, and related services In-house transportation	2 86	4 128	1,039	186 344	1 17	13 189	158	106	18	4,499 659
66	Communications, except radio and TV Radio and TV broadcasting	90	346	421	232	38	210	207	121	35	173
68A	Electric services (utilities)	323	292	881	2,844	291	1,071	439	206	83	1,552
68B 68C	Gas production and distribution (utilities) Water and sanitary services	77 29	56 15	235 72	2,188 869	375 102	602 255	153 117	83 66	24 50	11,666 420
69A 69B	Wholesale trade Retail trade	1,964 8	1,340 40	3,972 35	5,766 63	918 11	2,368 27	3,965 45	2,029 126	618 2	5,698 25
70A 70B	Finance Insurance	206 45	403 95	751 165	792 185	186 30	363 66	483 83	303 54	108 19	1,131 143
71A	Owner-occupied dwellings			_							_
71B 72A	Real estate and royalties Hotels and lodging places	163 95	1,750 171	2,532 331	806 332	90 55	187 144	500 195	344 123	58 44	1,230 136
72B 73A	Personal and repair services (except auto) Computer and data processing services	56 78	45 366	128 395	266 389	49 78	134 206	60 155	35 83	9 22	252 321
73B	Legal, engineering, accounting, and related services	63	751	421	2,712	234	1,347	1,729	603	158	972
73C 73D	Other business and professional services, except medical Advertising	394 52	2,068 1,536	1,815 1,170	1,740 757	384 249	641 280	1,526 3,715	624 2,604	115 187	1,196 532
74 75	Eating and drinking places Automotive repair and services	116 144	204 206	411 494	411 575	65 111	180 284	234 154	149 98	52 32	270 451
76	Amusements	7	35	41	34	4	18	57	38	7	23
77A 77B	Health services Educational and social services, and membership organizations	20	49	145	 88	21	92	229	64	9	105
78 79	Federal Government enterprises State and local government enterprises	17 18	431 68	272 153	65 82	4 29	13 47	22 22	41 12	7	44 35
80	Noncomparable imports	14	63	183	875	28	214	1,910	378	68	330
81 82	Scrap, used and secondhand goods General government industry		=	_	_	5	_		_	=	_
83 84	Rest of the world adjustment to final uses Household industry			_					_		_
85	Inventory valuation adjustment Total intermediate inputs	21,701	 22.783	 53.871	— 69.846	 11,657	33,386	30.831	 21.395	8.440	126.515
88	Compensation of employees	7,939	19,034	33,676	21,783	2,482	9,146	11,964	5,794	2,871	8,628
89 90	Indirect business tax and nontax liability Other value added	278 2,020	316 14,578	596 22,421	1,728 16,524	159 3,533	393 5,115	681 19,198	339 12,101	121 2,766	4,180 6,386
VA T	Value added	10,237	33,928	56,693	40,034	6,174	14,654	31,843	18,233	5,758	19,194
·	Total industry output	31,938	56,711	110,564	109,880	17,831	48,040	62,674	39,628	14,198	145,709

(Millions of dollars at producers' prices)

(IVIIIIIOIIS	of dollars at producers prices)								N = NOU			
Commodity		Rubber and miscella- neous plastics products	leather, and leather	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing	nonferrous metals manu-	Metal containers	Heating, plumb- ing, and fabri- cated structural metal products	machine products and	Other fabri- cated metal products	
number	Industry number	(32)	(33 + 34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$831 40		— — \$9 17	 \$1 23 19	 \$30 2,194	#11 28 2,399		 \$14 13	 \$6	 \$19 2	
	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	16 — 13 — 754	2 — 64	98 192 — 140	283 — 2,889 — 319	1,349 231 — 573	18 — 15 — 365	1 _ _ 63	2 — — 177	2 — — 334	3 1 — 316	
16	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	1,029 1,192	843 — 248 201	_ _ _ 1	16 — 150	_ _ _ _	9	_ _ _ _	_ _ _ _			
20 + 21 22 + 23	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	9 12 171 — 957	4 — — 54	1 173 — 41	5 165 — 477	152 — 25	194 — 28	 5		15 — 57	3 72 — 234	
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	1,390 8 37 5,375 —	31 — 1 328 —	752 — 2 699 —	159 2 6 1,089	16 2 96 904 —	56 1 3 253 —	38 — 79 104 —	216 3 5 535 —	196 1 4 173 —	330 2 2 629 —	
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	19,776 — 78 74 245	11 	— 35 12 85	242 93 53 379		929 — — 7 273		37 — 3 251 125	85 5 81 59	289 — 15 363 166	
	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	6,353 — 611 155 519	296 2,132 — 6 —	386 — 1,608 245 19	348 103 4,374 356	135 — 1,183 14,171	615 — 239 140 666	18 — 8 2,249	537 3 281 70 8,750	142 — 28 60 7,476	1,504 — 54 123 6,173	
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	70 — 33 270 667		 14	61 19 52 284	1,465 2 5 275 1,226	21,355 — — 32 427	4,166 1,177 — 5 196	4,235 — 1,818 627 1,677	1,673 3 — 525 800	3,087 6 59 1,154 3,498	
46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	20 	 2 1	89 20	97	23 — 17 649 26	11 600 61	 16	330 —	716 2	39 — 232 —	
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	25 640	— 14	— 78	37 106	1,273 410	405 236	43	112 236	65 647	18 434	

51 52	Computer and office equipment Service industry machinery		_	 2 36	 4 8	 1	 183	_ _ 1	— 10 78	 21	_ 1 313
53 54 55 56 57 58	Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	43 		7 - -	- 18 - - 12	548 — — — — 4	51 —	- - - -	76 	6	313
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	13 — — 11		5 - - 8	41 — — 15	12 — — 87	9 — 5	_ 1 _ _ _			5
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	16 16 766 3,347 182	14 10 103	2 1 258 263 59	4 32 600 2,856 411	8 3 1,224 1,884 426	4 2 562 1,869 92	1 58 229 8	8 9 186 800 17	5 2 156 524 21	6 2 154 720 37
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	413 3 1,047 292 —	37 200 26	54 306 45	127 2 820 139	298 2 875 137	238 1 356 123 —	38 1 17 21 —	163 — 392 146 —	122 1 138 67 —	174 — 331 174 —
68C 69A	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	2,238 420 149 4,741 131	70 31 89 401 3	522 298 37 787 47	1,166 822 93 1,510 47	2,797 1,174 518 5,486 19	2,300 435 177 5,425 8	166 57 17 865 5	415 167 40 2,991 30	440 124 394 1,991 18	780 290 105 2,934 33
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	832 156 — 1,034 331	58 16 — 62 25	118 26 — 113 52	297 87 — 331 124	542 116 — 288 224	412 88 — 299 189	84 17 — 61 40	331 63 — 507 148	261 49 — 274 99	383 73 — 474 165
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	204 363 690 1,501 649	9 50 26 86 211	47 71 62 249 76	124 162 223 702 256	316 449 313 1,408 331	135 190 164 781 114	25 31 46 130 33	44 122 216 1,035 276	75 124 285 608 263	87 200 364 853 490
74 75 76 77A 77B	Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations	435 464 32 — 408	41 16 1 —	72 97 3 — 11	166 252 8 — 30	290 609 18 — 51	246 293 13 — 52	50 59 5 — 15	206 129 8 — 50	140 145 11 — 99	229 221 9 — 52
78 79 80 81 82	Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods General government industry	65 71 229	17 25 2	13 8 29 100	25 100 94 —	55 57 82 2,320	30 86 121 3,276	1 6 2 —	35 61 75 85	25 19 33	39 62 50 29
83 84 85 I	Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total intermediate inputs	63,334 30,598	6,008 2,269	8,597 5,399	23,916 12,099	49,795 20,484	47,702 11,293	10,576 2,009	29,081 14,963	19,719 12,821	28,675 17,287
88 89 90 VA T	Compensation of employees Indirect business tax and nontax liability Other value added Value added Total industry output	907 16,522 48,027 111,361	62 1,030 3,360 9,368	153 3,666 9,218 17,815	398 6,491 18,988 42,904	20,484 845 5,441 26,770 76,565	717 4,061 16,071	2,009 93 387 2,489 13,065	350 5,097 20,410 49,491	245 1,919 14,984 34,703	376 7,636 25,299 53,974

(Millions of dollars at producers' prices)

Commodity			Engines and turbines	Farm, con- struction, and mining machinery	Materials handling machinery and equip- ment		Special industry machinery and equipment	machinery	Miscella- neous machinery, except electrical		Service industry machinery	Electrical industrial equipment and apparatus
number	In	dustry number	(43)	(44 + 45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining		 \$8 	 \$13 12		— — \$9 6		### ##################################	 \$12 	### ### ### ##########################		\$17 33
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction		1 — — 112	3 — — 163	— — — 33	1 21 — 158	1 1 1 118	2 — — 148	2 — — 163	1 — — 380	2 — — 173	1 — — 148
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings				— — — —	- - - -	_ _ _ _ _					_ _ _ 1
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		7 — — 7	50 — 10	10 	3 82 — 16	2 — 54 — 137	1 27 — 128			1 63 — 124	23 — 142
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals		14 2 1	33 1 5 22	1 1 3	94 1 5 166	22 1 2 26 —	122 	67 3 4 5	182 8 8 —	98 1 1 60	99 2 2 40 —
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products		 20 22	121 49		— — 52 59	— — — 45	15 — 15 72	12 — 8 47	24 — 5 36 39	107 — 10 85 32	82 — 18 69 154
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing		202 — 75 2,224	1,351 — 14 40 3,396	162 — — 8 917	237 — 228 1,933	400 — 14 41 1,267	772 — 78 2,286	120 — 89 1,844	812 — — 8 72	1,435	778 — 844 1,302
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal Screw machine products and stampings Other fabricated metal products	products	434 — 235 643 577	270 — 1,425 458 529	196 — 130 250 191	573 — 311 218 296	847 — 292 194 572	781 — 348 287 376	1,524 — 89 245 401	496 — 427 482 197	222 840 459	1,440 — 140 511 199
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment		1,236 — — 106 —	1,700 1,215 9 160	64 — 153 37 —	 1,184 	67 — 3 185 672	143 	24 — 383 —		29 — 125 —	248 — — 61 —
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical		283 760	882 886	463 245	265 777	508 803		319 1,585	23 85		123 202

J 51	Computer and office equipment			I	1	18	1	1	11.698	1	44
52	Service industry machinery		_	=	_	3	1		/	2,003	11
53	Electrical industrial equipment and apparatus	691	214	247	580	774	1,112	69	1,124	1,422	1,961
54 55	Household appliances Electric lighting and wiring equipment		10				_		64	181	 57
56	Audio, video, and communication equipment	-		_	_	_	_		71		-
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	199	192	33	12 45	35 19	53 20	78 18	13,515 15	_4	701 11
59A	Motor vehicles (passenger cars and trucks)	_	_	_	_	_	_	_	_	_	_
59B 60	Truck and bus bodies, trailers, and motor vehicles parts	75	128	1	5	2	4	3	4	4	2
61	Aircraft and parts Other transportation equipment		_	_	_		_		=		_
62	Scientific and controlling instruments	-	_	_	11	_	12	-	3	432	40
63 64	Ophthalmic and photographic equipment Miscellaneous manufacturing	2	3 7	1 4	5	3	4	_8	13	4 12	6 3
65A	Railroads and related services; passenger ground transportation	20	66	12	37	29	32	47	48	45	77
65B 65C	Motor freight transportation and warehousing Water transportation	298	507 17	91 —	276 6	203	257 2	230 6	116 5	250 5	229 20
65D	Air transportation	103	149	35	92	101	126	107	357	103	115
65E	Pipelines, freight forwarders, and related services	1	1	_	_	_	_	1	3	1	
65G 66	In-house transportation Communications, except radio and TV	54 37	278 87	97 27	189 108	85 92	250 125	190 68	89 243	176 75	120 111
67	Radio and TV broadcasting	-	_		_		_	-	-	-	<u> </u>
68A	Electric services (utilities)	135	258 85	48	284 69	162	319	303 75	347 44	198	277 78
68B 68C	Gas production and distribution (utilities) Water and sanitary services	35 19	85 24	19 3	17	42 12	85 29	17	33	56 69	24
69A 69B	Wholesale trade	958 4	2,336	697 1	1,206	1,410	1,807 8	941	6,628	1,780	1,947
70A	Retail trade Finance	112	8 228	52	175	132	202	5 176	16 484	17 194	19 236
70B	Insurance	21	46	12	36	24	40	32	81	36	35
71A 71B	Owner-occupied dwellings Real estate and royalties	97	154	61		221	207	337	819	136	220
72A	Hotels and lodging places	52	98	21	78	62	89	75	200	78	83
72B	Personal and repair services (except auto)	22	38	6	25 75	16	40 98	26	32	26	32 66
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	81 48	120 223	15 67	202	45 192	215	54 188	560 602	106 157	120
73C	Other business and professional services, except medical	199	375	91	341	238	412	468	725	260	391
73D 74	Advertising Eating and drinking places	39 69	261 133	58 31	189 122	166 91	289 130	223 100	613 230	221 106	333 117
75	Automotive repair and services	47	89	15	80	46	97	68	125	67	77
76 77A	Amusements Health services	5	11	1	3	5	5	8	25	9	_6
77B	Educational and social services, and membership organizations	13	21	4	22	11	20	18	68	37	21
78	Federal Government enterprises	10	33	7	19	25	24	10	16	5	22
79 80	State and local government enterprises Noncomparable imports	19 21	32 88	23 23	56 21	27 69	59 88	65 42	45 3,568	23 22	23 190
81	Scrap, used and secondhand goods		_	_	2	_	10	2	-	=	-
82	General government industry Rest of the world adjustment to final uses	-	_	-	_	-	_	-	-	-	-
84	Household industry '		_	=	_		_	=	=	=	_
85	Inventory valuation adjustment Total intermediate inputs	10.452	19,135	4.706	 11.369	 10,648	15.531	11.050	45.996	 15,614	14.459
88	Compensation of employees	4,530	8,626	2,625	11,369	7,370	10,628	11,803	13,314	7,398	9,138
89	Indirect business tax and nontax liability	132	252	_61	198	159	230	191	506	207	202
90 VA	Other value added Value added	1,930 6,592	4,017 12,896	761 3,446	2,359 14,242	2,054 9,583	3,426 14,283	2,027 14,021	4,108 17,928	3,236 10,841	4,009 13,350
Ť	Total industry output	17,044	32,031	8,152	25,611	20,231	29,814	25,071	63,924	26,455	27,809

(Millions of dollars at producers' prices)

Commodity		House- hold appli- ances	Electric lighting and wiring equipment	video, and communi- cation	Electronic components and accessories	Miscel- laneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts		Other trans- portation equip- ment	Scientific and controlling instruments
number	Industry number	(54)	(55)	(56)	(57)	(58)	(59A)	(59B)	(60)	(61)	(62)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining			\$13 32	 \$54 	\$17 7	\$1 	\$1 — 24 279	\$1 	 \$14 	— — \$51 14
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	28 86	— — — 92		2 1 924		18 — — 486	21 — — 563	15 — — 793	6 — — 106	32 — — — 623
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	_ _ _ 2	_ _ _ _ _	_ _ _ _ 1	 - - -	_ _ _ _	178 1,128	— — — 49	7 	 93	55 317 554
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	11 2 236	1 1 123	2 609 208	1 — 13 148		5 4,060 4 2,522 43	— 15 141 30 70	6 143 20 55 26	124 400 36 8	18 1 74 51 381
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	172 — 6 113	261 2 1 50	119 4 17 17	107 9 5 800	250 4 2 193 —	19 5 16 712	329 4 25 353 —	15 5 30 70	5 1 2 16 —	479 11 71 156
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	423 — 16 136 58	431 — 23 7 60	131 — 19 11 40	195 	258 — 3 — 37	7 7 1,716 64	440 — 4 424 95	312 — — 160 158	129 — 159 67	449 — 30 33 130
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	1,449 — 33 90 1,137	560 — 473 189 690	1,011 — 2 9 244	1,057 — 638 47 332	1,380 — — 16 397	9,191 2 1,504 201 234	2,068 1 64 270 6,749		617 — 181 28 1,608	2,127 — 370 122 964
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	750 — 492 276	1,026 — — 548 410	592 — 279 544 341	1,692 — 273 731 2,482	1,138 — 78 226 423	43 — 12,604 2,788	5,810 — 1,639 3,233 1,101	2,430 — 91 888 1,583	420 — 635 218 531	1,381 25 762 1,263 1,579
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment				 111 73	— — 47 —	2,018 	197 — 6 195 —		1,283 35 1 59	 152
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	62 35	 85	18 104	 314	80 98	55 793	1,351 3,069	275 1,364	654 241	70 450

51 52	Computer and office equipment Service industry machinery	348		200 8	773 1	145	2 2,225	2 211	144	<u>-</u>	1,302
53	Electrical industrial equipment and apparatus	783	512	144	75	260	7	8	116	841	1,056
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	21 238 — 145 1	607 — 141 1	370 1,659 12,301 271	135 107 12,958	70 32 2,032 597	839 1,770 2,617 2,493	60 1 2,072 1,395	750 1,621 36	172 98 17 8 111	290 827 9,413 45
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	— — — 653	_ 1 _ _ _		3 143	4 	643 40,353 — — 883	431 7,056 — 4	 6 25,248 5,054	662 642 — 804 93	9 — 3,040
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	1 9 43 202 5	4 69 37 193 2	11 1 48 173 4	15 	7 1 39 248 7	19 12 517 2,366 47	16 7 268 1,157 32	21 13 113 498 17	2 3 65 391 4	27 12 112 454 13
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	59 102 55	63 70 57	213 2 36 213	307 2 208 250 —	85 71 55	992 7 1,690 146 —	424 3 926 132 —	781 9 286 220 —	139 — 408 61 —	402 4 144 525 —
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	134 42 7 1,137 27	194 58 19 1,365 31	276 41 19 3,008 29	919 115 66 3,848 19	226 45 54 1,721 19	475 139 72 12,343 42	785 174 216 5,542 37	674 109 141 3,079 14	200 56 37 1,555 7	813 87 65 4,302 54
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	122 23 — 62 50	137 25 — 204 58	388 67 — 500 156	543 98 — 727 215	170 29 — 165 63	1,013 204 — 518 445	603 107 — 322 239	913 131 — 482 329	193 43 — 410 84	800 144 — 1,082 318
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	12 24 55 167 436	15 67 103 234 386	37 267 429 627 343	129 346 999 1,254 834	30 53 73 388 199	128 121 1,194 1,004 683	169 235 496 948 1,578	160 855 964 1,577 437	19 110 165 326 171	76 500 1,199 2,410 1,625
74 75 76 77A	Eating and drinking places Automotive repair and services Amusements Health services	71 37 5 — 35	87 52 4 — 12	196 119 16	271 272 27 — 110	97 76 4	540 9,743 53 — 414	307 307 40	405 351 36 —	120 51 5 — 22	435 240 38 — 217
77B 78 79 80 81	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods	35 37 19 32 —	14 30 191	66 64 17 387	31 37 293	23 12 30 299 79	100 48 456	151 126 39 379 20	225 92 29 97 —	10 53 20	124 144 219
82 83 84 85	General government industry Rest of the world adjustment to final uses Household industry Inventory valuation adjustment		_ _ _				_ _ _ _		_ _ _ _		_ _ _
88	Total intermediate inputs Compensation of employees	10,849 3,455	10,137 5,674	27,556 14,432	36,668 23,497	12,378 6,233	128,015 16,142	55,643 21,913	58,430 34,922	15,935 10,395	45,364 39,513
89 90 VA T	Indirect business tax and nontax liability Other value added Value added Total industry output	128 2,205 5,787 16,636	141 3,159 8,974 19,111	383 9,784 24,599 52,155	521 10,254 34,272 70,940	158 2,454 8,845 21,223	920 5,661 22,723 150,738	417 2,293 24,623 80,266	663 7,694 43,279 101,709	173 3,497 14,065 30,000	635 19,977 60,125 105,489

(Millions of dollars at producers' prices)

Commodity		Ophthalmic, and photo- graphic equipment	Miscel- laneous manufac- turing	Railroads and related services; pas- senger ground transportation	Motor freight transportation and warehousing	Water trans- portation	Air trans- portation	Pipelines, freight forwarders, and related services	local passenger	In-house trans- portation	Communi- cations, except radio and TV
number	Industry number	(63)	(64)	(65A)	(65B)	(65C)	(65D)	(65E)	(65F)	(65G)	(66)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	 	\$3 34 14 8 11		\$1 - 2 -	\$3 3 —	\$1 — —				\$1
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	19 — — — 149	2 5 — 188		 736	9 — — 30	 239	\$83 — — 574	_	 \$680	- - - 8,177
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	- - - - 1	90 — 462 29	_ _ _ _		83 — 44	231 — 1	5 — — —		 8	_ _ _ _ 1
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	— — — 896	181 45 493 21 279	23 — — — 22	3 11 33 — 60	63 101 3 —	8 6 2 — 31	76 164 — 20		2 12 9 — 69	92 3 18 — 181
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	242 11 3 505	7 65	4 13 201 104 —	97 41 372 103	39 33 12	3 19 153 18 —	78 16 242 8	1 81	131 — 164 116 —	85 83 785 16 —
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	278 — 14 — 37	_			4 — 26 727	— 3 4 9,451		9 2,192	— 10 263 11,601	5 24 56 204
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	560 — 154 10 42	140 774	271 1 52 2 404	1,993 2 3 8 —	103 — 4 2 —	32 1 - 1 2	183 1 12 4		912 1 3 2 —	442 2 18 —
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	108 — 7 206 66	145 140 470	1 — 7 264	4 - - 476	21 — 5 2 221	— — 42 70	 74		4 — — 338	16 — 365 244
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	29	_	219 — — 75 —	102 — 5 20 2	217 — — 151 —	 28 	34 — — —		17 2 15 6	356 — — 5 —
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	91	22 321	337 105	45 59	373 95	5 123	105 43		14 49	424 17

1	10		1		=		. 1	1			1
51 52	Computer and office equipment Service industry machinery	11	21 3	8	2		2	19 4	10	15	322 3
53	Electrical industrial equipment and apparatus	119	187	250	191	10	13	28	440	95	348
54 55	Household appliances Electric lighting and wiring equipment	6	18	<u> </u>	45	1 12	7		1	— 49	66
56	Audio, video, and communication equipment	_	5	_	4	_ _ _	1	8		2	3,464
57	Electronic components and accessories	853	458	15			119	— 79	 22		2,823
58 59A	Miscellaneous electrical machinery and supplies	3	13	84	203	32	43	79	22	222	266
59A 59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	4	5	388	808	1	14	29	267	562	31
60	Aircraft and parts	-	-	_	_		2,705		_	_	-
61 62	Other transportation equipment Scientific and controlling instruments	123		944	6 14	741 1	13	_1	145	6 20	
63	Ophthalmic and photographic equipment	1,243	11	10	62	7	19	28	1		83
64	Miscellaneous manufacturing	1	3,021	13	39	74	27	32 33	2	41	147
65A	Railroads and related services; passenger ground transportation	82	99	2,368	442	19	128	33	69	211	156
65B 65C	Motor freight transportation and warehousing Water transportation	173 14	491 20	368 78	28,810 209	104 4,282	233 164	209 56	50 29	790 183	248 10
65D	Air transportation	84	139	214	622	77	6.064		1	10	673
65E	Pipelines, freight forwarders, and related services	1		442	4,966	1,407	7,820	233 763	24	112	12
65G 66	In-house transportation Communications, except radio and TV	89 112	393 146	— 391	2.114		1,204	— 962	_ 1	2,117	90 27,767
67	Radio and TV broadcasting	112	- 140	- 391	2,114		1,204	902		2,117	81
68A	Electric services (utilities)	147	321	96	1,128	120	294	438	546	1,282	809
68B	Gas production and distribution (utilities)	56	105	1	118	9	14	11	87	186	70
68C 69A	Water and sanitary services Wholesale trade	21 1,439	29 3,442	108 1,521	2,139 5,070	36 505	124 1,462	33 300	9 300	917 5,637	227 1,795
69B	Retail trade	18	53	185	754	15	43	26	3	1,151	69
70A	Finance	206	309	971	1,292	1,048	1,535	882	50	4	2,218
70B 71A	Insurance Owner-occupied dwellings	34	70	261	1,341	46	151	181	13	1,216	337
71B	Real estate and royalties	131	504	617	3,475	896	1,471	706	 53	103	3,340
72A	Hotels and lodging places	72	118	139	634	46	300	99	2	660	631
72B	Personal and repair services (except auto)	15	34	77	105	19	273	71	4	150	1,444
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	80 57	78 254	788 404	479 868	280 683	2,224 1,071	2,346 1,752	24 11	650 1,128	2,845 6.159
73C	Other business and professional services, except medical	473	640	1,106	3,409	2,356	1,538	922	140	4,326	4,006
73D	Advertising	309	1,633	221	354	1,244	1,389	833	2	_	3,286
74 75	Eating and drinking places Automotive repair and services	94 54	184 105	230 656	747 9.615	57 15	1,832 152	124 220	11 10	804 6,272	744 1.137
76	Amusements	9	17	14	71	15	59	17	-	0,272	2,818
77A	Health services				61		_		_	_	_
77B 78	Educational and social services, and membership organizations Federal Government enterprises	94 17	159 117	136 59	80 247	121 10	65 76	251 132	10 2	— 352	312 658
70	State and local government enterprises	9	94	90	247 271	10	21	102	2	60	39
80	Noncomparable imports	183	75	183	599	2,954	8,827	250	_	171	6,384
81 82	Scrap, used and secondhand goods General government industry		_1		_5			_	_	-1	_
83	Rest of the world adjustment to final uses				_						
84	Household industry '	_	_	_	=	_	_	_	_	_	_
85	Inventory valuation adjustment	0.075			99.500	10.644	E1 075	10.000	C E70	42 004	07 507
88	Total intermediate inputs Compensation of employees	9,875 4,891	23,661 12,075	21,634 23,458	83,582 55,533	19,644 7,140	51,975 32,761	13,992 10,710	6,579 9,018	43,931 84,160	87,597 43,916
89	Indirect business tax and nontax liability	144	333	1.006	2,615	583	5.696	993		3.870	12.618
90	Other value added	9,221	5,247	9,926	25,223	5,073	3,709	7,921	-9,721	33,501	63,963
VA T	Value added Total industry output	14,256 24,131	17,654 41,315	34,390 55,754	83,371 166,953	12,796 32,440	42,166 94,141	19,624 33,616	- 703 5,876	121,531 165,461	120,497 208,094
'	rotal maustry output	24,131	41,313	33,734	100,900	32,440	34,141	33,010	3,070	105,401	200,054

Table B (continued). **Detailed Use of Commodities by Industries**(Millions of dollars at producers' prices)

Commodity		Radio and TV broad- casting	Electric services (utilities)	Gas pro- duction and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner- occupied dwellings	Real estate and royalties
number	Industry number	(67)	(68A)	(68B)	(68C)	(69A)	(69B)	(70A)	(70B)	(71A)	(71B)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$4 —	\$1 	\$1 — —		\$76 — 278	\$2 	\$3 	\$2 	\$3,634 —	2,877
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	— — — — 259	15,676 9 — 13,323	38,755 — — 6,798	 \$1,528	9 9 6 2,332	5 1 - 4,914	2 — — 1,145	— — — 612	 21,663	4 — — 29,576
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		_ _ _ _			659 — 87 53	92 — 51 43	_ _ _ _ 1		_ _ _ _	- - - 1
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	1 - 1 - 12	2 7 -64	3 	157 11	597 272 1,879 — 2,243	31 31 106 1 3,916	 175 75 1,133	19 47 — 381	_ _ _ _	10 43 3 546
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	5 7 10 14 —	16 9 88 295 —	5 1 15 2 —	3 4 5 499	3,091 274 5,588 366 335	860 113 569 37 23	135 318 3,505 50	49 35 1,543 20	 2 344	75 24 813 42 132
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	— — — — 10			 2 671	5 33 465 7 1,778	12 — 158 14 1,497		 7 46 124	_ _ _ _	— 50 26 526
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	3 — — —	164 2 7 4	8 1 — 1	155 — 21 16 —	2,628 9 198 114 71	1,678 128 14 19 6	124 17 26 10 2	342 6 9 —	61 	394 8 4 359
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	_ _ _ _ 2	100 1 — 42 32	 9	1 - - 82	334 464 106 2 495	4 8 1 592	 265	15 — — — 212	134 — —	8 83 — 188
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	- - 1 -	916 — 13 79 —	 18 		18 86 438 188 61	71 8 44 42	3 3 		159 — — —	
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical		63 195	3 8	3 17	41 681	23 242	22 16	- 1		10 7

51	Computer and office equipment	33	7	152	_	258	81	240	187	_1	38
52 53	Service industry machinery Electrical industrial equipment and apparatus	29	1 188	1	_8 	172 96	128 39	2 18	1		38 2 5
54	Household appliances	_	_	_	_	_	6	1	_	-	48
55 56	Electric lighting and wiring equipment Audio, video, and communication equipment	41	130	<u>1</u>	19 — —	170 143	222 31	22 13	20 4		37 4
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	208 9	 107	 32	 29	3,056 365	193 305	67 337	1 263		1 70
59A	Motor vehicles (passenger cars and trucks)	_	-	_	_	_	_	_	_	_	_
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts	3	12 —	9	1,173 —	961 —	1,831	66	54 —		54 —
61 62	Other transportation equipment Scientific and controlling instruments		105	 21	— 703	— 51	1 47	_ 1	3 54		1 31
63	Ophthalmic and photographic equipment	40	9	8	6	622	190	619	324	_	138
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	5 17	33 4,681	10 39	4 43	527 482	469 398	646 326	175 274	6	155 365
65B 65C	Motor freight transportation and warehousing Water transportation	45 —	581 740	45 72	111 17	2,103 113	1,356 56	4,294 33	887 7	25 —	553 12
65D	Air transportation	73 1	389	275	66	2,656	1,488	1,383	1,014	_	1,277
65E 65G	Pipelines, freight forwarders, and related services In-house transportation	298	34 385	468 231	9 184	276 22,583	35 20,237	26 372	16 27	0	25 500
66 67	Communications, except radio and TV Radio and TV broadcasting	458 606	285 —	61 —	420 —	8,239 —	4,650	5,184 —	4,174 —		3,771
68A 68B	Electric services (utilities) Gas production and distribution (utilities)	188 5	22 4,711	192 17,687	78 515	4,572 1,123	11,683 831	1,970 478	376 41	_	6,588 944
68C	Water and sanitary services	41	188	23	1,429	866	1,546	1,044	118		3,464
69A 69B	Wholesale trade Retail trade	85 7	1,181 35	577 29	588 169	13,648 1,405	1,742 1,793	1,799 130	663 117	186 191	827 267
70A 70B	Finance Insurance	248 162	2,887 353	807 114	149 228	6,383 832	8,762 1,452	59,978 1,262	10,686 64,466	8,542 3.022	5,105 1,631
71A 71B	Owner-occupied dwellings Real estate and royalties	677	1,931	362	77	16,349	37,323	13,426	9.227	16,415	35,987
72A	Hotels and lodging places	74	399	129	47	1,839	1,484	1,200	1,081	- 10,413	1,406
72B 73A	Personal and repair services (except auto) Computer and data processing services	98 423	95 1,745	26 244	79 59	1,218 7,609	1,645 3,318	439 12,743	175 2,241		1,944 623
73B 73C	Legal, engineering, accounting, and related services Other business and professional services, except medical	434 770	1,981 1,785	2,293 479	668 217	6,691 23,681	5,112 17,943	11,256 16,387	7,742 8,847	2,395 1,640	9,386 14,294
73D	Advertising	831	131	22	1	14,423	26,490	7,426	2,730	-	5,001
74 75	Eating and drinking places Automotive repair and services	88 112	478 199	145 153	59 72	2,110 3,851	2,083 2,374	1,407 994	1,283 3,413		1,648 3.568
76 77A	Amusements Health services	11,122	52	27	5	653	437	215	144		171
77B	Educational and social services, and membership organizations	157	534	48	12	1,135	507	865	338	-	476
78 79	Federal Government enterprises State and local government enterprises	33 8	458 19	104 7	31 —	3,225 313	3,007 347	8,903 141	1,781 25		1,558 408
80 81	Noncomparable imports Scrap, used and secondhand goods		23	57	_2	4,092	78 1	3,111	724 1		<u>-</u>
82	General government industry	-	-	_	-		-	-	-	-	-
83 84	Rest of the world adjustment to final uses Household industry		_	=		_	_				_
85 I	Inventory valuation adjustment Total intermediate inputs	17.765	60.187	70,935	10.453	 185,269	 177,612	166,354	 127.236	 58.419	138.225
88	Compensation of employees	8,254	22,075	5,764	4,289	219,924	205,382	145,286	91,898	-	48,121
89 90	Indirect business tax and nontax liability Other value added	534 2,806	12,545 76,089	4,321 12,136	1,825 2,614	100,738 63,039	72,450 67,075	16,328 88,304	13,919 1,956	73,022 325,809	79,715 284,052
VA T	Value added Total industry output	11,594 29,359	110,709 170,896	22,222 93,157	8,729 19,182	383,701 568,970	344,907 522,519	249,918 416,272	103,861 231,097	398,831 457,250	411,888 550,113
1		ı									I

(Millions of dollars at producers' prices)

Commodity		Hotels and lodging places	Personal and repair services (except auto)	Computer and data processing services	Legal engineering, accounting, and related services	Other business and professional services except medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Health services
number	Industry number	(72A)	(72B)	(73A)	(73B)	(73C)	(73D)	(74)	(75)	(76)	(77A)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$5 3 275	 \$42 	\$2 54	\$6 	\$44 2 — 101	 \$9	\$321 1,843 1,747 186	53 —	\$39 147 6 271	\$55 203 37 748
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	2 — — 1,516	3 3 - 497	 309	1 — — 383	1 - - 876	 49	6 — 2,092	2 — — 525	1 — — 1,056	7 — 2,861
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	119 — 6 13	142 37	_ _ _ _		88 31 — 6 7	_ _ _ _	61,536 — — — 38	 55	10 692 — 80 10	4,308 — 36 49
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	49 503 12 — 202	376 260 43 — 254	 18 2 287	— 75 5 727	89 6 89 2 1,399	18 4 — 85	8 156 25 — 895	43 124 11 166 189	107 53 78 2 217	618 689 135 5 2,350
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	123 53 189 10 112	153	25 35 1,039 10	94 128 1,961 43	569 154 2,440 1,237 4	7 6 2,222 2 —	997 29 571 295	89 41 105 217 —	94 63 269 116 134	774 387 3,052 8,156 35
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	72 0 112	12 — 1,117 9 211			— 450 49 1,087	_ _ _ _ 1		— 121 328 1,756	9 31 33 192	181 7,576 658 0 550
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	243 5 254 38	379 350 4 10 7	191 4 4 —	238 41 126 24 3	1,015 54 292 83 73	24 	2,166 3 417 391	2,860 2 785 48 —	133 70 5 2	6,547 43 928 200 2
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	— — 6 35	73 — 6 85 236	 42	 171	20 38 — 103 309	 9	7 — 57 99	5 — 1,467 1,669	15 — 2 19 86	12 — 332 422
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	- - 1 1	3 — 12 41		 11 5	139 80 146 567 394		2 — 1 148	655 — 32 35	- 4 - 7 -	1 - 11 4
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	8	37 91	19	77	427 435	<u> </u>	162 35	25 304		7 116

J 51	Computer and office equipment	l 7l	447	6.602	513	476	C.E.	11	اء ا	21	794
52	Service industry machinery	6	324	1	4	141	65 2 1	45	923	101	99
53	Electrical industrial equipment and apparatus	13 8	57	122	4	866 5	1	5 5	411	3	98
54 55	Household appliances Electric lighting and wiring equipment	16	683 22	1	13	າ 121	3	77	492	86	13 232
56 57	Audio, video, and communication equipment	4	12 933	5 4,396	8 20	63	3 2 3	16	16 272	9	13 200
58	Electronic components and accessories Miscellaneous electrical machinery and supplies	15	57	331	414	2,469 397	15	42	709	630	290
59A	Motor vehicles (passenger cars and trucks)	_	_	_	_			. 	108	-	
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts	31	69	17 —	82	467	21	315	15,666	84	252
61	Other transportation equipment	-	_	_	_	279	-	_		39	<u> </u>
62	Scientific and controlling instruments	15	73	67	18	169	1	5	95	13 57	9,593
63 64	Ophthalmic and photographic equipment Miscellaneous manufacturing	28 84	956 1,321	66 53	600 312	1,187 627	37 33	19 368	42 49	306	1,312 405
65A	Railroads and related services; passenger ground transportation	62	68	81	180	534	18	474	265	76	726
65B 65C	Motor freight transportation and warehousing Water transportation	313 14	473 28	167 10	735 34	1,592 112	42 3	2,168 64	864 58	235 28	1,758 96
65D	Air transportation	223	283	489	844	1,808	73	895	608	316	1,725
65E 65G	Pipelines, freight forwarders, and related services In-house transportation	798 1,200	9 2.590	10 277	20 1,389	40 6,329	3 513	10 10,322	252 1,960	5 2,242	42 7,298
66	Communications, except radio and TV	767	1,092	2,380	2,993	4,353	302	988	1,233	892	4,846
67	Radio and TV broadcasting		- 4 050			_	148		_		
68A 68B	Electric services (utilities) Gas production and distribution (utilities)	2,139 355	1,258 398	406 29	856 128	1,330 284	118 6	6,166 985	1,316 325	1,781 160	4,079 889
68C	Water and sanitary services	791	444	38	114	256	3	1,455	382	292	1,480
69A 69B	Wholesale trade Retail trade	403 109	1,534 73	2,704 26	1,191 58	3,640 666	259 16	12,773 353	5,617 1,044	1,709 103	8,290 397
70A	Finance	3,052	879	996	2,711	3,055	176	2,674	2,206	1,066	3,717
70B 71A	Insurance Owner-occupied dwellings	95	201	90	273	602	32	348	597	164	1,550
71B	Real estate and royalties	4,360	5,139	3,684	13,593	9,808	1,360	13,775	7,094	7,620	34,274
72A	Hotels and lodging places	211	229	321	1,356	1,587	68	749	467	294	1,666
72B 73A	Personal and repair services (except auto) Computer and data processing services	402 389	4,476 531	171 9,272	206 6,144	605 5,212	30 247	880 708	1,584 562	313 528	1,293 6,191
73B	Legal, engineering, accounting, and related services	502	3,061	1,805	19,328	6,405	1,114	2,428	983	2,681	9,420
73C 73D	Other business and professional services, except medical Advertising	4,205 1,048	2,472 2,267	3,630 1,084	21,077 924	17,944 2,818	2,442 181	5,640 6,112	2,838 2,281	4,014 4,728	24,470 2,524
74	Eating and drinking places	320	311	423	807	2,109	80	4,181	543	426	4,358
75 76	Automotive repair and services Amusements	326 33	447 43	628 46	1,085 179	1,997 451	281 614	802 2,459	1,648 71	713 19.673	3,064 229
77A	Health services			_	_	2	_	· · —		33	11,974
77B	Educational and social services, and membership organizations	110	326	750	781	1,134	67	443	101	189	1,477
78 79	Federal Government enterprises State and local government enterprises	297 102	502 65	705 13	2,411 69	2,069 81	158 5	460 192	497 162	499 41	5,374 188
80	Noncomparable imports	76	22	547	501	1,246	44	115	12	214	22
81 82	Scrap, used and secondhand goods General government industry			_	_		_	1 –	507 —	- 153 	_
83	Rest of the world adjustment to final uses	_	_	_	_	_	_	_	_	_	_
84 85	Household industry Inventory valuation adjustment	-	_	_	_	_	_	_	_	_	_
1	Total intermediate inputs	26,893	39,703	44,575	86,369	98,242	11,028	153,919	66,578	56,313	198,810
88	Compensation of employees	20,653	29,220	49,291	118,556	142,292	11,509	89,917	38,440	38,327	287,201
89 90	Indirect business tax and nontax liability Other value added	5,181 6,874	2,012 20,837	1,863 20,002	1,685 49,752	5,440 94,471	339 6,989	16,392 20,480	6,648 26,715	4,957 21,772	3,321 75,654
VA	Value added	32,709	52,069	71,155	169,992	242,203	18,837	126,789	71,803	65,055	366,176
Т	Total industry output	59,602	91,772	115,730	256,361	340,445	29,865	280,708	138,381	121,368	564,986

Detailed Use of Commodities by Industries

(Millions of dollars at producers' prices)

Commodity		Educational and social services, and membership organizations	Federal Govern- ment enter- prises	State and local government enterprises	General govern- ment industry	House- hold industry	Inventory valuation adjust- ment	Total inter- mediate use	Personal con- sumption expend- itures	private fixed	Change in business inven- tories
number	Industry number	(77B)	(78)	(79)	(82)	(84)	(85)		(91)	(92)	(93)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$65 124 — 358 —	 \$6 6 2 			_ _ _ _	_ _ _	\$85,869 71,142 13,280 27,310 8,268	\$3,709 19,531 3,085 729		\$857 4,035 - 45 - 24
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	3 3 9,121	734 — — — 918	1,273 630 51 — 18,566	_ _ _ _	_ _ _ _	_ _ _ _	23,786 138,601 12,371 170 159,448	68 39 —	23 — 339,916 20,362	-3 -105 25 -
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	2,507 — 34 9	179 — 8 4	_ _ _ 11	_ _ _ _	_ _ _	_ _ _ _	465 153,699 3,348 37,127 10,074	1,473 248,010 30,395 1,683 5,578	29 — — 2,343	1,855 150 2,137 477 19
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	80 80 193 2 1,316	1 109 — 105 77	34 — — 42	_ _ _ _		_ _ _ _	16,628 10,770 80,245 5,479 80,994	80,934 11,189 2,529 21,623 14,921	4,661 16,091	3,897 470 663 185 771
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	274 941 9,335 204 48	115 4 735 104 —	5 69 1,209 141	_ _ _ _	_ _ _ _	_ _ _ _	30,352 4,401 56,500 97,797 15,545	381 14,339 15,282 2,154 920	1,957	277 62 753 729 153
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	63 166 42 505	38 — 652	3 30 1,420	_ _ _ _		_ _ _ _	46,036 17,620 8,826 12,894 83,751	43,864 30,098 480 53,355	- - - -	239 1,292 186 42 46
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	676 151 296 3 21	15 18 3 —	12 	_ _ _ _			99,363 3,871 16,883 42,481 81,280	15,051 16,491 979 2,570 36	215 — — — 16	995 331 185 196 339
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	2 2 75 240	43 — 28 7	 2 10	_ _ _ _			68,611 13,025 43,481 33,140 51,306	71 326 1,345 4,266	52 38 3,612 — 2,415	-392 10 -110 217 67
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	4 — 14 2	99 5 4 	2 160 — 5 —	_ _ _ _			10,279 6,049 2,674 9,666 4,224	169 400 — 687 237	3,271 17,803 5,743 17,652 16,820	-184 277 -41 18 -106
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	91	8 95	— 863	_	_		17,643 22,989	136	11,300 700	-80 -59

51 52	Computer and office equipment Service industry machinery	73 39	3 15	 376	_	_	_	24,759 14,939	5,368 910	36,169 7,376	-1,241 165
53	Electrical industrial equipment and apparatus	22 15	-	2	-	_	_	21,175	200	6,826	77
54 55	Household appliances Electric lighting and wiring equipment	101	28	10 123		_	_	2,658 17,691	13,100 2,023	2,668 283	- 96 141
56 57	Audio, video, and communication equipment Electronic components and accessories	64 182	_	43 42	_	_	_	12,017 75,400	21,682 216	24,513 —	374 - 51
58 59A	Miscellaneous electrical machinery and supplies	191	17	131	-	_	_	13,375 1,844	6,298 105,552	2,058 75,132	- 149 1,114
59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	237	728	12	=	_	_	74,459	4,277	4,981	-220
60 61	Aircraft and parts Other transportation equipment	5	10	10		=	_	29,930 3,092	465 11,958	13,676 4,741	- 8,011 - 298
62	Scientific and controlling instruments Ophthalmic and photographic equipment	227 451	1 11	13 12		_	_	25,540 9,589	5,479 6,240	43,637 6,915	- 228 368
64	Miscellaneous manufacturing	911	33	49	_	_	_	13,526	36,410	5,365	765
65A 65B	Railroads and related services; passenger ground transportation Motor freight transportation and warehousing	191 755	714 964	399 375		_	_	32,452 110,656	19,504 25,965	957 4,138	135 629
65C 65D	Water transportation Air transportation	27 758	149 1,549	241 99		_	_	12,771 39,502	6,249 36.404	18 1,539	36 137
65E 65G	Pipelines, freight forwarders, and related services	23 7,916	718	6	-	_	_	22,544 165,461	3,474	- 1,565	8
66	In-house transportation Communications, except radio and TV	2,006	186	467	=	=	_	95,074	90,397	5,065	=
67 68A	Radio and TV broadcasting Electric services (utilities)	2,014	300	3,350		_	_	835 98,868	1,839 79,337	_	_
68B 68C	Gas production and distribution (utilities) Water and sanitary services	511 632	199 308	2,579 1,117	_	_	_	61,944 27,052	29,537 20,464	_	11
69A	Wholesale trade	2,746	375	428	_	_	_	280,569	158,445	48,167	2,658
69B 70A	Retail trade Finance	302 2,664	10 407	16 1,052	_	_	_	39,882 163,754	471,448 198,007	14,358	_
70B 71A	Insurance Owner-occupied dwellings	477	95 —	185	_	_	_	90,095	138,181 457,250	_	_
71B 72A	Real estate and royalties Hotels and lodging places	25,599 687	717 18	2,103 22		_		330,296 27,260	166,640 29,881	28,407	=
72B	Personal and repair services (except auto)	485	12	106	_	_	_	23,579	65,602	_	_
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	4,187 3,164	226 128	411 3,285		_	_	83,729 179,136	2,444 45,781	3,441 15,785	-41 —
73C 73D	Other business and professional services, except medical Advertising	11,003 5,736	888 5	1,539 202		_	_	271,050 136,364	20,917 676		_
74	Eating and drinking places	1,607	67	116	_	_	_	41,383	242,151	_	_
75 76	Automotive repair and services Amusements	1,074 912	198	482 2		_	_	70,073 41,927	90,099 78,466	_	4
77A 77B	Health services Educational and social services, and membership organizations	1,217	 21	— 55		_	_ _ _	13,484 16,339	611,328 225,749	_	_
78	Federal Government enterprises	2,154	48	266	-	_	_	39,448	6,881	_	_
79 80	State and local government enterprises Noncomparable imports	95 19	23 1,256	1,001	_	_	_	6,810 44,964	22,489 33,009	_	_
81 82	Scrap, used and secondhand goods General government industry					_	_	7,147	17,187 —	- 30,293 	1,529
83 84	Rest of the world adjustment to final uses Household industry	-	_	-	_	_	_	_	- 66,481 10,087	_	_
85	Inventory valuation adjustment	400.505		40.400	=	_	_	_	´ —	_	-7,982
88	Total intermediate inputs Compensation of employees	108,525 110,582	14,552 47,284	46,138 18,581	\$654,208	\$10,087	_	4,754,203 NA	_	_	_
89 90	Indirect business tax and nontax liability Other value added	494 8,731	 - 864	 22,211	110.181	_		NA NA	_	_	_
VA	Value added	119,807	46,420	40,792	764,389	10,087	-7,982	NA	4 200 742	700 004	E 400
Т	Total industry output	228,332	60,972	86,930	764,389	10,087	-7,982	NA	4,208,718	790,991	5,430

Table B (continued). **Detailed Use of Commodities by Industries**(Millions of dollars at producers' prices)

				Federal government consumption and gross investment						
		Exports of goods and	Imports goods and		National defense: Consumption	National defense: Gross	Nondefense: Consumption	Nondefense: Gross		
Commodity		services	services	Total	expenditures	investment	expenditures	investment		
number	Industry number	(94)	(95)	96 + 97	(96C)	(961)	(97C)	(971)		
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	\$800 16,116 2,880 61 1,104	- \$2,061 - 6,860 - 5,659 - 21 1,488	\$7 -358 -1,169 39 -147	\$2 — —1 19 —148		\$5 - 358 - 1,168 20	_ _ _		
7 8 9+10	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction	3,122 3,290 686	- 133 - 43,984 - 898	29 -202 2 15,803	1 - 3 - 3	\$5,234	28 - 202 5			
12	Maintenance and repair construction	77	_	10,429	6,649	-	3,780			
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	3,592 19,630 5,874 2,359 1,724	-809 -21,850 -1,587 -4,397 -1,879	19,177 464 — 63 49	7,568 269 — 51 3	8,911 — — — —	482 195 — 12 25	2,216 — — — — 21		
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	4,065 810 5,965 2,633 8,567	- 38,484 - 2,870 - 7,143 - 6,026 - 10,715	506 206 31 198 699	505 150 14 — 98	 	1 56 16 — 601	 1 188 		
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	691 653 2,984 17,292 3,341	-247 -199 -1,783 -14,375 -2,330	91 111 996 4,268 27	40 12 290 3,109 8	 - -	51 99 706 1,159 19	_ _ _ _		
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	8,477 7,272 2,591 745 9,084	-3,827 -13,193 -2,052 -200 -11,582	17 530 180 6 3,109	11 365 126 — 2,771	_ _ _ _	6 165 54 6 338	_ _ _ _		
32 33 + 34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	6,905 1,464 1,544 1,713 3,505	- 13,253 - 12,824 - 2,159 - 4,551 - 10,893	625 45 167 94 230	423 41 16 30 221	_ _ _ _	152 4 151 64 9	50 — — — —		
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	6,379 341 2,061 2,171 4,849	-10,228 -201 -1,008 -2,628 -8,510	242 15 677 193 634	48 15 158 122 269	36 — 184 — 157	84 	74 — 96 — 71		
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	5,419 9,002 1,302 3,686 4,510	- 2,413 - 4,754 - 1,468 - 5,127 - 5,881	964 506 65 64 158	119 9 — 6 2	558 464 50 18 21	2 9 3 38 123	285 24 12 2 12		
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	7,834 1,962	−7,796 −1,895	292 851	79 195	165 389	11 31	37 236		

51 52	Computer and office equipment Service industry machinery	22,925 3,320	- 32,687 - 2,243	2,864 157	222 79	963 21	732 56	947
53 54 55 56 57	Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories	4,083 2,329 2,839 9,551 16,150	- 5,295 - 4,072 - 4,985 - 25,409 - 20,574	802 40 339 7,532 1,920	376 22 227 3,548 1,660	9 2,356	147 1 112 183 260	153 <u>8</u> 1,445
58 59A 59B 60 61	Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment	5,702 16,336 16,995 40,656 3,354	- 8,062 - 58,285 - 21,743 - 12,153 - 2,693	1,447 2,104 839 37,546 8,841	504 5 198 26,065 2,545	1,574 219 9,906 6,093	201 14 68 1,021 74	50 511 354 554 129
62 63 64 65A 65B 65C	Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	17,864 3,453 4,427 3,973 10,161 9,695	- 14,773 - 8,153 - 23,335 - 164 - 2,059 3,530	26,133 1,335 22 914 5,326 1,624	6,223 964 41 6006 4,174 1,521	15,617 294 108 23 177	1,960 55 - 137 279 926 103	2,333 22 10 6 49
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	23,317 2,700 - 0- 3,596	- 8,544 	3,353 22 — 3,319	2,603 31 — 1,471	136 — — —	589 - 9 1,848	25
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	267 548 65 44,726 20	- 695 18,317	2,451 470 1,036 4,467 2	1,949 346 495 1,718		502 124 541 549 2	 608
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	17,142 1,685 — 20,683 48	- 265 - 1,136 11	1,030 2,297 — 3,691 1,116		_ _ _	1,030 2,280 — 3,179 149	_ _ _ _
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	42 3,092 5,013 5,677 531		69 16,719 3,733 21,244 67	57, 7,913 3,126 14,210	_	18 8,806 607 7,034 12	_ _ _ _
74 75 76 77A	Eating and drinking places Automotive repair and services Amusements Health services	328 34 4,289 26	 _ 6 _ 248 _ 13	1,230 496 573 1,681	505 431 548 9	_ _ _	725 65 25 1,672	_ _ _
77B 78 79 80 81	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods	450 188 — — 5,872	- 449 - 90,036 - 2,746	9,527 1,058 205 12,063 668	390 1,080 165 9,906 933	_	9,137 - 22 40 2,157 126	
82 83 84 85	General government industry Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total intermediate inputs	67,325 — — —		273,327 -770 	196,793 — — — —		76,534 - 770 	- - - - -
88 89 90 VA T	Compensation of employees Indirect business tax and nontax liability Other value added Value added Total industry output	602,609		 525,912		— — — — 56,121		20,690

Table B (continued). **Detailed Use of Commodities by Industries**(Millions of dollars at producers' prices)

KEY: — = Value too small to report N = Not applicable

				ate and local gov imption and gross				
			Education: Consumption	Education: Gross	Other: Consumption	Other: Gross	GDP	Total Commodity
Commodity	Indicates assertion	Total	expenditures	investment	expenditures	investment		output
number_	Livestock and livestock products	98 + 99 \$194	(98C) \$40	(981)	(99C) \$154	(991)	\$3.506	\$89.375
2	Other agricultural products	940	297	_	643	_	33,404	104,546
3 4	Forestry and fishery products Agricultural, forestry, and fishery services	-507 1,687	9 377		-516 1,310	_	-1,415 2,495	11,865 29,805
5+6	Metallic ores mining	-	-	_	-	_	2,471	10,739
7 8	Coal mining	48	28	-	20	_	3,131	26,917
9+10	Crude petroleum and natural gas Nonmetallic minerals mining	 58	=		<u></u> 58	_	- 40,978 - 88	97,623 12,283
11	New construction	101,060		\$20,251		\$80,809	456,779	456,949
12 13	Maintenance and repair construction Ordnance and accessories	32,065 145	6,802	_	25,263 145	_	62,933 21,752	222,381 22,217
14	Food and kindred products	8,654	4,061		4,591	2	255,058	408,757
15 16	Tobacco products Broad and narrow fabrics, yarn and thread mills	– 20 216	-1 73	_	- 19 143	_	36,799 401	40,147 37,528
17	Miscellaneous textile goods and floor coverings	75	6	12	47	10	7,909	17,983
18	Apparel	1,091	6	_	1,085	_	52,009	68,637
19 20 + 21	Miscellaneous fabricated textile products Lumber and wood products	446 176	67 75		379 101	_	10,251 6.882	21,021 87,127
22 + 23	Furniture and fixtures	2,666	_	1,601	4	1,061	37,370	42,849
24 25	Paper and allied products, except containers Paperboard containers and boxes	3,260 198	1,654 39		1,606 159	_	17,503 1,391	98,497 31.743
26A	Newspapers and periodicals	652	406	=	246	_	15,494	19,895
26B 27A	Other printing and publishing Industrial and other chemicals	6,470 3,537	4,346 826		2,124 2,711	_	24,702 15.562	81,202 113,359
27B	Agricultural fertilizers and chemicals	500	146		354	_	2,305	17,850
28	Plastics and synthetic materials	2	. 1	_	1	_	4,908	50,944
29A 29B	Drugs Cleaning and toilet preparations	4,936 728	119 136		4,817 592	_	44,701 31,731	62,321 40.557
30	Paints and allied products	412	296	_	116	_	1,485	14,379
31	Petroleum refining and related products	12,068	5,385	_	6,683	_	66,080	149,831
32 33 + 34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	1,912 160	110		1,802 160	_	12,450 5.667	111,813 9,538
35	Glass and glass products	382	73	-	309	_	1,098	17,981
36 37	Stone and clay products Primary iron and steel manufacturing	180 87	80 7		100 80	_	- 190 - 7,358	42,291 73,922
38	Primary nonferrous metals manufacturing	78	5	_	73	_	-3,798	64,813
39 40	Metal containers	10 11	5	_	5 10	_ 1	213 5,569	13,238 49,050
40	Heating, plumbing, and fabricated structural metal products Screw machine products and stampings	126	39	_	87		1,424	34,564
42	Other fabricated metal products	1,491	256	196	696	343	5,212	56,518
43 44 + 45	Engines and turbines Farm, construction, and mining machinery	390 1.663	91 62	5 24	143 14	151 1,563	7,616 24,897	17,895 30,946
46	Materials handling machinery and equipment	15	_	9	-	6	5,616	8,290
47 48	Metalworking machinery and equipment Special industry machinery and equipment	400 256	98 95	124 154	69 —	109 7	17,380 15,994	27,046 20,218
49	General industrial machinery and equipment	485	81	66	73	265	12,035	29,218
50	Miscellaneous machinery, except electrical	262	130	40	55	37	1,957	24,946

51 52	Computer and office equipment Service industry machinery	3,931 1,177	186 410	1,783 288	489 243	1,473 236	37,329 10,862	62,088 25,801
53 54	Electrical industrial equipment and apparatus Household appliances	706 206	82	175 134	16 22	433 48	7,399 14.175	28,574 16,833
55	Electric lighting and wiring equipment	724	358	35 299	324	7	1,364	19,055
56 57	Audio, video, and communication equipment Electronic components and accessories	721 237	15 81	_	129 156	278 —	38,964 -2,102	50,981 73,298
58 59A	Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks)	434 5,887	98 —	185 1,364	125 —	26 4,523	7,728 147,840	21,103 149.684
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts	1,670 45	669		984	17 45	6,799 72,224	81,258 102,154
61 62	Other transportation equipment Scientific and controlling instruments	912 4,263	<u> </u>	218 496	35 2,204	659 1,498	26,815 82,375	29,907 107,915
63	Ophthalmic and photographic equipment	2,998	699	403	1,452	444	13,156	22,745
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	2,270 4,287	807 3,663	464 16	970 557	29 51	25,924 29,606	39,450 62,058
65B 65C	Motor freight transportation and warehousing Water transportation	2,294 424	824 84	89 —	1,163 340	218 —	46,454 21,576	157,110 34,347
65D 65E	Air transportation Pipelines, freight forwarders, and related services	3,111 218	934 56	24	2,124 162	29	59,317 6,422	98,819 28,966
65G	In-house transportation	_	_	=	_	_	_ ´—	165,461
66 67	Communications, except radio and TV Radio and TV broadcasting	8,490 —	3,585	_	4,905	_	110,867 1,839	205,941 2,674
68A 68B	Electric services (utilities) Gas production and distribution (utilities)	15,467 3,645	5,534 2,023	_	9,933 1,622	_ _	96,827 34,211	195,695 96,155
68C 69A	Water and sanitary services Wholesale trade	1,648 11,621	1,395 3,196	 1,421	253 5,228	 1,776	23,213 288,401	50,265 568,970
69B	Retail trade	468	5,130	- 1,721	468	- 1,770	486,296	526,178
70A 70B	Finance Insurance	11,106 532	 351	_	11,106 181	_ _ _	227,020 141,559	390,774 231,654
71A 71B	Owner-occupied dwellings Real estate and royalties	10,032	— 806		9,226	_	457,250 229,442	457,250 559,738
72A 72B	Hotels and lodging places	631 2,724	- 2,697 1,060	-	3,328 1,664	_	31,676 68,437	58,936 92,016
73A	Personal and repair services (except auto) Computer and data processing services	8,879	2,003 1.908	=	6,876	_ _ _	34,309	118,038
73B 73C	Legal, engineering, accounting, and related services Other business and professional services, except medical	3,988 15,129	5,595		2,080 9,534	_ _ _	73,461 61,335	252,597 332,385
73D 74	Advertising Eating and drinking places	1,507 -3.075	621 - 6.291	_	886 3,216	_	2,166 240.634	138,530 282.017
75 76	Automotive repair and services Amusements	3,708 -2,070	1,094 224	_	2,614 - 2,294	_ _	94,335 81,010	164,408 122,937
77A 77B	Health services Educational and social services, and membership organizations	- 61,899 - 23,985	- 17 - 27,527	_	- 61,882 3,542	_	551,123 211,292	564,607 227,631
78	Federal Government enterprises	2,625	182	_	2,443	_	10,752	50,200
79 80	State and local government enterprises Noncomparable imports	658 —	225 —	_	433	_	23,352 - 44,964	30,162 —
81 82	Scrap, used and secondhand goods General government industry	2,811 491,062	449 257,127	319 —	120 233,935	1,923 —	-4,072 764,389	2,175 764,389
83 84	Rest of the world adjustment to final uses Household industry	_	_	_	· <u>-</u>	_ _	10.087	10,087
85	Inventory valuation adjustment	=	-	=	=	=	-7,982	-7,982
88	Total intermediate inputs Compensation of employees		_	=	_	_		=
89 90	Indirect business tax and nontax liability Other value added	_	_ _	_	_			_
VA T	Value added Total industry output	731,882	286,205	30,195	317,4 0 5	98,077	6,233,905 —	10,988,108

Table C.

Commodity		Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petro- leum and natural gas	Non- metallic minerals mining	New con- struction	Maintenance and repair construction
number	Industry number	(1)	(2)	(3)	(4)	(5+6)	(7)	(8)	(9 + 10)	(11)	(12)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.13260 .24236 — .04426	0.00005 .02811 — .07191	0.00687 — .02725 .21044	0.02379 .11185 .00135 .00538	.00149 .19379	.00063	.00001	.00044	.00266 — .00292	.00297
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00008		 .03415	.00007 .00985	.00140 .00065 .01902	.11301 .00037 .00245	.19262 — — .02172	.00424 .03464 .00705	.00720 .00037 .00053	.00969
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.17456 — — .00151	.00247 .00195	.03235 — — .00582	.00333	 	.00312	_ _ _ _ _	_ _ _ _		.00296
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00048	.00151 .00425 — .00231	.00091 — — .00176	.00297	.00335 .00037	.00011 .00249 .00015	.00001 	.00066	.00063 .05111 .00295 .00393	.00080 .06469 .00002 .00270
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00006 .00008 .00006 .00130 .00235	.00669 .00007 .00007 .00054 .07718	.00232 — .00092 .00028 .00291	.00480 .00018 .00020 .00017 .07706	.00035 — .04790 .00009	.00020 .00004 .00004 .00902 .00007	.00002 .00002 .00001 .01114	.00013 .00132 .00007 .01877	.00053 	.00059 .00031 .00303
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00315 .00071 .00343	 .01399	.00145 	.00004 .00010 .00169	 .02124	.02032	.00005 .00503	 .02676	.00032 .00875 .00983	.00049 .00906 .01801
32 33 + 34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00392 .00038 .00009 — .00012	.00474 — .00126 .00016	.00033 — — —	.00077 .00039 .00018	.00821 — .00540 .02670	.00887 — .00386 .00305	.00010 .00001 .00002 .00179 .01130	.01035 .00051 .01169	.01491 	.01694 — .00070 .02799 .00683
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00022 .00037 .00144	.00023 .00231	.00021 — — .00075	.00007 — — .00232	.00754 .00121 .00018	.00048 .00264 .00498 .00229	.00036 .00422	.00373 .00080 .00061	.00762 — .05152 .00062 .01980	.00754 — .04206 .00050 .01614
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00276 .00034	.00632 .00042	.00112 .00416 — —	.00078 .00003 .00001	.00247 .02940 .00614 .00065	.00341 .03284 .00583 .00018	.00020 .00273 .00049 .00018	.00299 .03713 .01366 .00021	.00198 .00290 .00069 .00000	.00183 .00010 .00046 .00001
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00033 .00052	.00065 .00121	.00010 .00009	.00007 .00044	.00325 .00213	.00827 .00422	.00098 .00160	.00685 .00099	.00719 .00052	.00285 .00003

51 52 53	Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00009	.00018	.00019 .00031	.00006	.00138	.00015 .00194	.00004 .00066	.00014 .00315	.01097 .00579	.01061 .00450
54 55 56	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment	.00038	.00040	.00020	.00061	.00100 — —	.00058	.00008	.00007	.00207 .01806 .00415	.00248 .01638 .00281
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	.00193	.00434	.00048	.00094	.00026	.00023	.00008	.00079	.00199	.00182
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00057	.00116 — —	.00253 — — .00141	.00137 — — .00030	.00127 .00019 .00018	.00114 — .00003	.00034	.003 <u>16</u> —	.00109 .00013 .00327	.00131
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00031 .01273 .02080 .00116	.00042 .00258 .00984 .00152	.00141 — .00126 .00234 .01603	.00030 .00028 .00014 .00206 .00846 .00038	.00018 .00018 .00525 .01316 .00144	.00003 .00011 .00014 .02849 .01140 .00526	.00010 .00013 .00149 .00234 .00249	.00035 .00423 .01620 .00061	.00327 .00011 .00337 .00179 .01505 .00098	.00262 .00010 .00329 .00215 .01540 .00124
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00016 .00083 .02846 .00225	.00075 .00004 .07627 .00208	.00332 .00004 .07097 .00122	.01164 .00002 .05775 .00296	.00316 .00008 .03739 .00224	.00353 .00015 .03994 .00121	.00233 .00007 .01263 .00167	.00277 .00010 .07769 .00263	.00140 .00001 .05473 .00349	.00146 .00001 .06270 .00410
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	.01787 — .00113 .05142 —	.00723 .00268 .00502 .04909	.00066 .00019 .00146 .01783 .00187	.00167 .00006 — .03232 .00025	.07365 .00712 — .02669 .00127	.02145 .00125 .00010 .02994 .00124	.01533 .02676 .00078 .00841 .00111	.04898 .01988 .00054 .03045 .00296	.00141 .00025 .00100 .03847 .03931	.00158
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	.00509 .00306 — .04342 .00025	.00469 .00308 — .08657 .00030	.00822 .00449 .00120 .00262	.00616 .00245 .00760 .00139	.00744 .00221 — .00872 .00274	.00680 .00147 — .02096 .00276	.00559 .00097 — .16306 .00243	.00943 .00303 — .01146 .00250	.00642 .00534 — .00541 .00080	.00598 .00341 — .00582 .00090
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	.00027 .00052 .00059 .00424 .00012	.00062 .00050 .00062 .00935 .00021	.00056 .00122 .02228 .01498 .00062	.00250 .00051 .01354 .01004 .00358	.00044 .00201 .01426 .01201 .00047	.00027 .00077 .01499 .00707 .00052	.00011 .00104 .01780 .00347 .00121	.00026 .00346 .00918 .00822 .00314	.00050 .00067 .06831 .02734 .00075	.00062 .00082 .03594 .03098
74 75 76 77A	Eating and drinking places Automotive repair and services Amusements Health services	.00009 .00182 — .01545	.00013 .00409 —	.00328 .00207 .00021	.00189 .01114 .00775	.00363 .00394 .00009	.00328 .00142 .00030	.00287 .00084 .00028	.00362 .00180 .00007	.00100 .00461 .00012	.00110 .00571 .00015
77B 78 79	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises	.00059 .00009 .00016	.00058 .00008 .00030	.00260 .00056 .00009	.00064 .00091 .00051	.00167 .00079 .00034	.00197 .00003 .00010	.00076 — .00002 .00973	.00058	.00006 .00092 .00003	.00005 .00111 .00003
80 81 82	Noncomparable imports Scrap, used and secondhand goods General government industry		.00041	_	.00007	.00769 — —	.00077	.00973	.00135 —	.00001	.00001
83 84	Rest of the world adjustment to final uses Household industry		_	_	_	_	_	_	_		_
85	Inventory valuation adjustment Total intermediate inputs	.84650	.51792	.55002	 .44287	 .62627	 .44466	.54156	.45694	.59867	 .55485
88	Compensation of employees	.04456	.06540	.15457	.46812	.23281	.28924	.12754	.29601	.31619	.33664
89 90 VA	Indirect business tax and nontax liability Other value added Value added	.01275 .09616 .15346	.02815 .38850 .48205	.04803 .24735 .44995	.01876 .07022 .55710	.04944 .09146 .37371	.08921 .17687 .55531	.04457 .28630 .45841	.03916 .20786 .54303	.00570 .07940 .40129	.00288 .10560 .44512
Ť	Total industry output	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Commodity		Ordnance and acces- sories	Food and kindred products		Broad and narrow fab- rics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied prod- ucts, except containers
number	Industry number	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20 + 21)	(22 + 23)	(24)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00097	0.17618 .07776 .00731 .00029	.07709 .00010	0.00934 .06464 .00024	0.00296 .00262 — .00028	0.00027 .00081 .00282 .00016	.00026	.08125 .00029	.00012 .00051	.00011
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00008 — — — .00569	.00049 — — .00413	.00065 — — — .00214	.00065 — — .00525	.00080 — — — .00926	.00029 — — — .00401	.00016 — — .00335	.00005 — — — .00325	.00028 — — — .00416	.00367
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.01405 — .00054	.15563 — .00005	.08340 .00010	.21085 .00146	.00063 .16917 .03129		.26770 .06088	 .00195	.00123 .04484 .02627	.00641 .00109 .00667
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00050 .00202 .00027	.00018 .00018 .001261	.00005 .00002 .00271	.00082 — — .00072	.00011 	.19754 .03197 .00001 — .00108	.02299 .03186 .00184 — .00068	.00008 .00002 .30111 .00085 .00056	.00007 .00046 .07711 .00980 .00232	.00005 .00002 .06533 — .14722
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00194 .00012 .00803 .00082	.01928 .00001 .00290 .00518 .00000	.01126 .00643 .00010	.00105 — .00005 .02267	.00267 .00006 .00006 .02207	.00146 .00043 .00007	.00210 — .00063 .00572 —	.00266 .00015 .00017 .00507 .00243	.01576 .00005 .00027 .00158	.01311 .00007 .00193 .04711 .00024
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00311 .00031 .00217	.00040 .00313 .00118 — .00226	.00705 — .00169 — .00131	.16506 	.24255 — .00427 — .00387	.01215 .00409 .00158	.02073 — — — .00210	.00372 	.00300 	.02441
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.01390 — .00140 .01436	.01804 .00983 .00003	.00560 — .00007	.00468 .00716 .00002	.00967 — .00057 — .00011	.00499 .00373 — —	.01784 .02257 — —	.00931 .00010 .00312 .00398 .00044	.04435 .00105 .00393 .00282 .03762	.03328 — .00083 .00029
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.01790 — .00660 .00939	.02307 .00147 .00300	.00115			 .00007	_ _ _	.00020 	.01021 — .01110 .04657	.00090 — .00005 .00333
43 44 + 45 46 47 48 49 50	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment General industrial machinery and equipment Miscellaneous machinery, except electrical	.00085 — .00144 .00314 .01060 .00625	.00001 	.00025 	.00036 .00149 .00168		.00003 .00276 .00007 .00030	.00037 .00189 .00100	.00033 .00087 .00040 .00175 .00163	.00083 .00037 .00170	.00054 .00293 .00035 .00213

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51 52	Computer and office equipment Service industry machinery		.00011	.00005 .00015	_		.00001		.00081	.00004	.00008
53	Electrical industrial equipment and apparatus	.00644	.00024	.00037	.00005	_	_	_	.00007	.00028	.00022
54 55	Household appliances Electric lighting and wiring equipment	.00078	.00023	.00042	.00005		_		.00199 .00152	.00016	.00023
56	Audio, video, and communication equipment	.01091	.00023	.00042	.00003		=		.00132	.00010	.00023
57	Electronic components and accessories	.05109		-	.00002			_			
58 59A	Miscellaneous electrical machinery and supplies	.00027	.00004	.00005	_	.00006	.00004	_	.00018	.00002	.00006
59A 59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	.00003	.00044	.00004	.00013	.00016	.00013		.00271	.00034	.00020
60	Aircraft and parts	.07671	-	-	_	_	_	_		-	-
61 62	Other transportation equipment Scientific and controlling instruments	.03125	.00002	.00007	_		=		.00002 .00001	.00023	.00021
63	Ophthalmic and photographic equipment	.00023	.00002	.00002	.00007	.00006	.00003	.00005	.00014	.00014	.00010
64	Miscellaneous manufacturing		.00006	.00012	-	.00006	.01030	.00121	.00041	.00025	.00004
65A 65B	Railroads and related services; passenger ground transportation Motor freight transportation and warehousing	.00116 .00690	.00630 .01505	.00092 .00453	.00395 .01024	.00580 .01666	.00100 .00837	.00115 .01254	.00727 .02385	.00324 .01341	.01140 .02818
65C	Water transportation	_	.00211	.00022	.00036	.00130	.00006	.00031	.00156	.00032	.00190
65D	Air transportation	.00446	.00340	.00274	.00310	.00330	.00415	.00467	.00323	.00356	.00358
65E 65G	Pipelines, freight forwarders, and related services In-house transportation	.00004 .00481	.00003 .01132	.00005	.00876	.00368	.00003	.00363	.00005 .01167	.03083	.00008 .00491
66	Communications, except radio and TV	.00302	.00134	.00150	.00134	.00266	.00183	.00224	.00173	.00291	.00217
67	Radio and TV broadcasting	-	_	_			_			-	_
68A 68B	Electric services (utilities) Gas production and distribution (utilities)	.00854 .00170	.00818	.00209 .00037	.02738 .00486	.01430 .00546	.00991 .00332	.00832 .00351	.01211 .00209	.00858 .00230	.02590 .01193
68C	Water and sanitary services	.00083	.00121	.00012	.00111	.00191	.00044	.00099	.00132	.00080	.00542
69A 69B	Wholesale trade Retail trade	.02526 .00011	.05467 .00179	.01781 .00286	.04596 .00061	.03952 .00016	.04238 .00016	.04922 .00020	.05940 .00085	.06824 .00158	.05010 .00135
70A	Finance	.00668	.00655	.00200	.00552	.00666	.00655	.00703	.00680	.00793	.00678
70B	Insurance	.00131	.00154	.00138	.00126	.00138	.00125	.00137	.00165	.00162	.00156
71A 71B	Owner-occupied dwellings Real estate and royalties	.00959	.00396	.00339	.00336	.00461	.01103	.01506	.00669	.01053	.00366
72A	Hotels and lodging places	.00300	.00254	.00301	.00254	.00299	.00297	.00302	.00293	.00284	.00297
72B	Personal and repair services (except auto)	.00089	.00113	.00092	.00592	.00409	.00151	.00058	.00151	.00075	.00292
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	.00868 .00494	.00161 .00281	.00164 .00919	.00244 .00260	.00323 .00373	.00136 .00243	.00140 .00381	.00196	.00181 .00744	.00382 .00225
73C	Other business and professional services, except medical	.01534	.00970	.00725	.01175	.01095	.04425	.00931	.01138	.01530	.01424
73D	Advertising	.00485	.02584	.07886	.00257	.00984	.01105	.00483	.00386	.01087	.00622
74 75	Eating and drinking places Automotive repair and services	.00396 .00186	.00312	.00361 .00287	.00357 .00405	.00384 .00431	.00412	.00433 .00177	.00395	.00409 .00183	.00371 .00657
76	Amusements	.00019	.00049	.00110	.00010	.00017	.00038	.00010	.00024	.00016	.00030
77A 77B	Health services Educational and social services, and membership organizations	.00070	.00061	.00082	.00055	.00057	.00065	.00598	.00294	.00147	.00096
78	Federal Government enterprises	.00075	.00040	.00134	.00051	.00107	.00090	.00136	.00059	.00147	.00055
79	State and local government enterprises	.00054	.00088	.00065	.00058	.00154	.00226	.00273	.00164	.00177	.00164
80 81	Noncomparable imports Scrap, used and secondhand goods	.00022	.00119	.00042	.00067	.00055 .00210	.00033	.00009	.00009	.00072 .00016	.00099 .00803
82	General government industry	_	_	_	_		_	_	_	.00010	
83	Rest of the world adjustment to final uses	-	-	_	_	-	_	-	_	-	_
84 85	Household industry Inventory valuation adjustment				_		_				
1	Total intermediate inputs	.42386	.70221	.35966	.65803	.67441	.66816	.61544	.64191	.57062	.60347
88	Compensation of employees	.39218	.13169	.08332	.24581	.20238	.27239	.26879	.20699	.28665	.20205
89 90	Indirect business tax and nontax liability Other value added	.01199 .17194	.02481 .14127	.13798 .41901	.00577 .09038	.00679 .11639	.00338 .05604	.00443 .11132	.00529 .14577	.00472 .13796	.00858 .18587
VA	Value added	.57611	.29776	.64031	.34195	.32556	.33181	.38454	.35805	.42934	.39650
Т	Total industry output	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Commodity		Paperboard containers and boxes	News- papers and periodicals	and	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet prepar- ations	Paints and allied products	Petroleum refining and related products
number	Industry number	(25)	(26A)	(26B)	(27A)	(27B)	(28)	(29A)	(29B)	(30)	(31)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00025	 .00046 	.00005 .00026	.00534 .00026 .00042 .00960	.00056 .00039 .00095	.00002 .00033	.00219 .00035 .00048	0.00103 — .00033	 .00049 .00028 .00141	.00001 .00001 .00014 .00014
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00078	.00583	.00507	.00187 .03148 .00918 — .00993	.00163 .03500 .05148 — .00830	.00121 .00493 — — .01037	.00029 .00002 .00725	.00023 .00033 	.00014 .00028 .00366	.00005 .51129 .00279 — .00751
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings			.00065 .00037	.00330 — — .00001	.01610 — — —	.00108 .00019 .00002	.00345 — — .00013	.01012 — — .00030	.00909	.00095
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00116 .42122	 .00019 .08974	.00006 .14571	.00001 .00034 — .00264	.00264	.00004 — — — .01582	.00003 .00002 — .00244	.00010 .00005 — .00295	.00014	.00002
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00241 .00066 .00022 .02069	.00026 .02026 .06924 .00725	.00445 .00148 .11161 .01789	.00484 .00007 .00017 .22937 .00843	.00454 	.00441 .00004 .00002 .34005 .00470	.01059 .00010 .00617 .02439	.03793 .00003 .00403 .09738	.00007 .00077 .20390	.00091 .00002 .00005 .01436
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00473 — .00331 .00729		.00006 — .00002 .00143	.00783 — .00106 .00482 .01697	.00398 .01019	.03312 .00581 .00033 .00385	.13347 .00078 — .00115	.05418 .00028 .01048	.12516 	.00288
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00457 — — — .00730	.00033 .00002 — .00002	.01232 .00002 — .00002 .00025	.01133 — .00097 .00109 .00290	.00836 — .00090 .00168 .00006	.04211 .00015 .00017 .00002	.02093 .00408 .00018	.06135 .00540 .00008 .00003	.00007 .00021 .01303 .00035	.00327 .00001 .00226 .00191 .00014
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00222 — .00056 .00732		.00043 — — — .00022	.00008 .00589 — .00003 .00650	.00477 — — .00236	.00008	.00129 .00104 .00064	.01088 .00124 .00237	.00007 .03522 — .00014 .00014	.00094
43 44 + 45 46 47 48 49	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment General industrial machinery and equipment	.00075 .00463	.00002 — .00007 .00044	.00027	.00038 .00582 .00005	.00006 	.00050 .00042	.00005	.00018 .00010	.00007	.00013
50	Miscellaneous machinery, except electrical	.00191	.00033	.00085		.00050	.00156	.00038	.00086	.00021	.000

51 52	Computer and office equipment Service industry machinery	_	.00039	.00044	.00043	_	.00002	.00003	.00018	=	.00001
53	Electrical industrial equipment and apparatus	-	-	.00001	.00072	.00006	.00010	.00011	.00053	-	.00001
54 55 56 57	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories		.00005 .00002	.00003 .00004	.00005	.00011	.00008	.00019	.00050	_ _ _	.00005
58	Miscellaneous electrical machinery and supplies	.00003	.00037	.00013	.00002	_	_	-	_	_	.00001
59A 59B 60 61	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment	.00024	.00067	.00028	.00011	.00022	.00002	.00023	.00005	.00013	.00033
62	Scientific and controlling instruments Ophthalmic and photographic equipment	.00019	.00033	.00103 .00716	.00089	.00045	.00008 80000.	.00022	.00013	.00028	.00017
64 65A 65B 65C	Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00003 .01183 .03791 .00037	.00037 .00321 .00895 .00007	.00063 .00448 .01630 .00021	.00003 .01078 .02310 .00355	.01565 .05530 .00482	.00002 .00957 .01967 .00330	.00048 .00201 .00405 .00019	.00015 .00517 .01143 .00136	.00007 .01817 .02535 .00317	.00003 .00240 .00477 .00496
65D	Air transportation	.00454	.00347	.00394	.00360	.00303	.00352	.00337	.00338	.00282	.00067
65E 65G 66 67	Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00006 .00271 .00280	.00007 .00225 .00610	.00003 .00940 .00381	.00169 .00313 .00211	.00006 .00095 .00211	.00027 .00393 .00438	.00003 .00252 .00330	.00005 .00268 .00306	.00014 .00129 .00244	.03088 .00452 .00119
68A	Electric services (utilities)	.01012	.00515	.00797	.02589	.01631	.02229	.00700	.00520	.00584	.01065
68B 68C	Gas production and distribution (utilities) Water and sanitary services	.00241	.00099 .00027	.00212 .00065	.01991 .00791	.02103 .00572	.01253 .00532	.00244	.00209 .00166	.00169	.08006 .00288
69A 69B	Wholesale trade Retail trade	.06150 .00024	.02363 .00071	.03593 .00031	.05248 .00057	.05151 .00062	.04929 .00056	.06327 .00072	.05119 .00319	.04356 .00013	.03911 .00017
70A	Finance	.00645	.00711	.00679	.00721	.01043	.00756	.00771	.00765	.00761	.00776
70B 71A	Insurance Owner-occupied dwellings	.00142	.00167	.00149	.00168	.00167	.00137	.00133	.00136	.00132	.00098
71B 72A	Real estate and royalties Hotels and lodging places	.00510 .00296	.03086 .00302	.02290 .00300	.00733 .00302	.00505 .00308	.00389	.00798 .00311	.00868 .00311	.00408 .00309	.00844 .00094
72B 73A	Personal and repair services (except auto) Computer and data processing services	.00175 .00243	.00079 .00645	.00116 .00357	.00242 .00354	.00275 .00437	.00279 .00429	.00095 .00248	.00088 .00208	.00063 .00154	.00173 .00220
73B	Legal, engineering, accounting, and related services	.00196	.01325	.00381	.02468	.01312	.02804	.02759	.01523	.01112	.00667
73C 73D	Other business and professional services, except medical Advertising	.01234 .00163	.03647 .02708	.01642 .01058	.01584 .00689	.02151 .01396	.01334 .00583	.02436 .05927	.01574 .06571	.00807 .01317	.00821 .00365
74 75	Eating and drinking places Automotive repair and services	.00365 .00450	.00360 .00362	.00372 .00447	.00374 .00524	.00364 .00623	.00374 .00591	.00373 .00245	.00377 .00248	.00365 .00223	.00185 .00309
76	Amusements	.00022	.00062	.00037	.00031	.00023	.00037	.00091	.00096	.00049	.00016
77A 77B	Health services Educational and social services, and membership organizations	.00063	.00086	.00131	.00080	.00118	.00192	.00365	.00162	.00063	.00072
78 79	Federal Government enterprises State and local government enterprises	.00053 .00056	.00760 .00119	.00246 .00138	.00059 .00075	.00022 .00163	.00026 .00098	.00035	.00103	.00049	.00030 .00024
80 81	Noncomparable imports	.00043	.00112	.00165	.00796	.00157	.00445	.03048	.00955	.00478	.00226
82	Scrap, used and secondhand goods General government industry	=	=	_	=	.00028	=	=	_		_
83 84	Rest of the world adjustment to final uses Household industry										_
85	Inventory valuation adjustment Total intermediate inputs	.67945	 .40171	 .48721	.63562	.65370	.69494	.49189	.53986	.59439	.86824
88	Compensation of employees	.24859	.33563	.30458	.19824	.13922	.19038	.19089	.14620	.20224	.05921
89 90	Indirect business tax and nontax liability Other value added	.00870 .06323	.00557 .25706	.00539 .20279	.01573 .15038	.00889 .19815	.00817 .10648	.01087 .30631	.00854 .30536	.00849 .19484	.02869 .04383
VA T	Value added Total industry output	.32052 1.00000	.59826 1.00000	.51276 1.00000	.36435 1.00000	.34627 1.00000	.30503 1.00000	.50808 1.00000	.46011 1.00000	.40557 1.00000	.13173 1.00000

Commodity		Rubber and miscella- neous plastics products	leather, and leather	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing	Primary nonferrous metals manu- facturing	Metal containers	Heating, plumb- ing, and fabri- cated structural metal products	Screw machine products and stampings	
number	Industry number	(32)	(33 + 34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00746	.00011	.00051 .00095	.00002 .00054 .00044	.00039	.00017 .00044 .03762	.00015	.00028 .00026	.00017	.00035
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00014 	.00021 — — — .00685	.00550 .01078 .00786	.00660 .06734 .00744	.01762 .00302 .00748	.00028 	.00008 — — — .00482	.00004 — — — .00357	.00006 — — .00961	.00006
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00010 	.08999 .02647 .02146	.00006	.00037 .00350	_ _ _ _	.00014	_ _ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00008 .00011 .00154 — .00859	.00043 — — — .00576	.00006 .00971 — .00230	.00012 .00384 — .01112	.00198 .00032	.00304	.00038	 .00059 .00065		.00006 .00133 .00434
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01248 .00007 .00034 .04827	.00330 — .00010 .03501	.04220 — .00011 .03923 —	.00370 .00005 .00014 .02539	.00020 .00003 .00126 .01180	.00088 .00002 .00005 .00397	.00291 .00605 .00796	.00436 .00006 .00010 .01081	.00565 .00003 .00011 .00498	.00611 .00004 .00003 .01165
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.17758 — .00070 .00067 .00220	.00117 .00427 .00346	.00196 .00066 .00478	.00564 	 .00003 .00025 .00485	.01457 — .00011 .00429	.02181 .00243	.00075 .00006 .00506 .00253	.00245 — .00014 .00233 .00170	.00535
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.05705 — .00549 .00139 .00466	.03160 .22758 — .00064	.02167 — .09026 .01375 .00107	.00811 	.00177 — .01545 .18508	.00964 — .00375 .00220 .01044	.00138 — .00061 .17214	.01085 .00006 .00568 .00141 .17680	.00409 .00081 .00173 .21543	.02786 — .00100 .00228 .11437
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00063 	.00032 .00651	.00079	.00142 .00044 .00121 .00661	.01913 .00003 .00007 .00359 .01602	.33486 — .00050 .00669	.31887 .09009 .00038 .01500	.08557 — .03673 .01267 .03388	.04821 .00009 — .01513 .02305	.05719 .00011 .00109 .02138 .06480
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00018 	.00021 .00011	.00499 .00112	.00226	.00030 	.00017 .00941 .00096	.00122	.00667	.02063	.00072 — — .00430 —
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00022 .00574	.00149	.00437	.00086 .00248	.01662 .00535	.00635 .00370	.00329	.00226 .00477	.00187 .01864	.00033 .00804

51 52	Computer and office equipment Service industry machinery	.00005	_	.00011	.00009	.00001		_	.00020	_	.00002
53	Electrical industrial equipment and apparatus	.00033	_	.00202	.00019	.00715	.00287	.00008	.00157	.00060	.00579
54 55 56	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment	.00039	_ _	.00039	.00042		.00080	=	.00004	.00017	.00007
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	.00057 .00017	_	_	.00028	.00005	_	_	.00002	_	.00009
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00011 — — .00010		.00030 — — .00045	.00095 — — .00035	.00015 — .00114	.00015	.00008	.00020 .00218	.00070	.00009 — — .00006
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00014 .00014 .00688 .03005 .00163	.00149 .00106 .01096	.00011 .00006 .01446 .01474 .00329	.00009 .00074 .01399 .06657 .00959	.00010 .00004 .01598 .02460 .00556	.00006 .00003 .00880 .02931 .00144	.00008 .00444 .01753 .00061	.00016 .00018 .00375 .01617 .00034	.00014 .00006 .00449 .01509 .00060	.00011 .00004 .00284 .01333 .00068
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00371 .00003 .00940 .00262	.00395 	.00303 .01717 .00254 	.00296 .00005 .01910 .00324	.00389 .00003 .01142 .00178	.00373 .00002 .00559 .00192	.00291 .00008 .00130 .00159	.00329 .00792 .00294	.00352 .00003 .00398 .00194	.00322 .00614 .00322
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	.02009 .00377 .00134 .04258 .00117	.00750 .00328 .00948 .04285 .00030	.02928 .01671 .00206 .04418 .00263	.02718 .01916 .00218 .03519 .00111	.03654 .01533 .00677 .07165 .00025	.03606 .00681 .00278 .08506 .00012	.01270 .00436 .00129 .06624 .00038	.00839 .00338 .00081 .06044 .00061	.01268 .00357 .01136 .05738 .00052	.01444 .00537 .00195 .05437 .00062
70A 70B 71A 71B	Finance Insurance Owner-occupied dwellings	.00747 .00140 — .00929	.00619 .00170 — .00660	.00662 .00147 — .00633	.00692 .00204 — .00772	.00708 .00152 — .00377	.00646 .00138 — .00468	.00643 .00129 — .00467	.00669 .00127 — .01024	.00752 .00142 — .00789	.00710 .00135 — .00878
71B 72A	Real estate and royalties Hotels and lodging places	.00297	.00267	.00293	.00290	.00293	.00296	.00305	.00299	.00789	.00306
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	.00184 .00326 .00619 .01348 .00583	.00095 .00538 .00276 .00914 .02252	.00262 .00398 .00351 .01398 .00427	.00290 .00379 .00519 .01636 .00597	.00413 .00586 .00408 .01839 .00432	.00211 .00297 .00257 .01225 .00179	.00191 .00237 .00352 .00992 .00253	.00088 .00247 .00436 .02092 .00558	.00216 .00359 .00822 .01752 .00758	.00161 .00370 .00674 .01580 .00908
74 75 76	Eating and drinking places Automotive repair and services Amusements	.00391 .00416 .00029	.00433 .00171 .00011	.00404 .00545 .00017	.00387 .00587 .00019	.00379 .00796 .00024	.00386 .00459 .00020	.00382 .00454 .00038	.00417 .00262 .00016	.00404 .00419 .00032	.00424 .00410 .00017
77A 77B	Health services Educational and social services, and membership organizations	.00366	.00043	.00062	.00070	.00024	.00020	.00115	.0010	.00285	.00096
78	Federal Government enterprises	.00059	.00179	.00075	.00059	.00071	.00047	.00008	.00071	.00071	.00073
79 80 81 82	State and local government enterprises Noncomparable imports Scrap, used and secondhand goods Concol government industry	.00063 .00206 —	.00267 .00019 —	.00045 .00160 .00561	.00233 .00218 —	.00074 .00108 .03030	.00135 .00190 .05137	.00046 .00015 —	.00123 .00151 .00172	.00055 .00094 —	.00115 .00092 .00054
83 84	General government industry Rest of the world adjustment to final uses Household industry		_ 			_ _ _		_		_	
85 I 88	Inventory valuation adjustment Total intermediate inputs Compensation of employees	. 56869 .27476	. 64128 .24220	. 48257 .30308	. 55739 .28201	. 65033 .26754	. 74796 .17708	. 80944 .15380	. 58758 .30233	.56818 .36944	. 53124 .32028
89 90 VA T	Indirect business tax and nontax liability Other value added Value added Total industry output	.00814 .14837 .43127 1.00000	.00659 .10991 .35870 1.00000	.00857 .20576 .51741	.00928 .15128 .44257 1.00000	.01104 .07107 .34964 1.00000	.01125 .06369 .25201 1.00000	.00709 .02964 .19053 1.00000	.00708 .10298 .41239 1.00000	.00705 .05529 .43179 1.00000	.00697 .14147 .46872 1.00000

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Commodity		Engines and turbines	Farm, con- struction, and mining machinery	Materials handling machinery and equip- ment	chinery and		General industrial machinery and equip- ment	Miscella- neous machinery, except electrical		Service industry machinery	Electrical industrial equipment and apparatus
number	Industry number	(43)	(44 + 45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00047	.00041	.00025	.00035	.00035	.00050	.00048	.00025 .00005	.00026	.00061
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00006 — — — .00656	.00009 — — — .00509	.00400	.00004 .00082 .00618	.00005 .00005 .00582	.00007 — — — .00497	.00008 — — .00652	.00002 — — .00594	.00008 — — .00655	.00004 — — .00531
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		_ _ _	_ _ _ _ _	_ _ _ _	_ _ _ _	 .00718	.00132	_ _ _ _		.00004
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00041	.001 <u>56</u>	.00123 	.00012 	.00010 — .00267 — .00677	.00003 .00091 .00429	.00016 .00032	.00055	.00004 .00238 — .00469	.00083
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00082 .00011 .00006	.00102 .00003 .00015 .00069	.00012 	.00367 .00004 .00019 .00648	.00108 .00005 .00010 .00129	.00409 .00010 .00007	.00267 .00012 .00015 .00020	.00285 .00013 .00012	.00370 .00004 .00004 .00226	.00356 .00007 .00007 .00144
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00117 .00130	.00377 .00153	.00134 .00288	.00202 .00231	.00221	.00050 — .00050 .00242	.00048 — .00031 .00188	.00038 	.00404 	.00295 .00065 .00248 .00555
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.01185 — .00440 .13049	.04219 — .00044 .00125 .10602	.01985 — .00098 .11249	.00925 — .00890 .07548	.01977 — .00069 .00203 .06263	.02589 — .00262 .07668	.00477 — .00355 .07355	.01270 — .00013 .00113	.02660 .00015 .00450 .05424	.02798 — .03035 .04682
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.02546 	.00843 — .04449 .01430 .01653	.02404 — .01595 .03067 .02341	.02237 — .01214 .00851 .01155	.04187 — .01443 .00959 .02826	.02620 — .01167 .00963 .01260	.06079 — .00355 .00977 .01601	.00776 	.05870 — .00839 .03175 .01733	.05178 — .00503 .01838 .00715
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.07252 — — .00622 —	.05307 .03793 .00028 .00499	.00784 — .01877 .00454 —	.04623	.00331 — .00015 .00914 .03322	.00479 .00023 .00503	.00095 — — .01528	.00044	.00109 — .00472	.00892 — .00219 —
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.01660 .04459	.02753 .02766	.05679 .03005	.01035 .03034	.02511 .03969	.07735 .03240	.01272 .06322	.00036 .00133	.01765 .02181	.00442 .00726

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51 52	Computer and office equipment Service industry machinery	_	_	_	_	.00089 .00015	.00003		.18300	.07571	.00040 .00004
53	Electrical industrial equipment and apparatus	.04054	.00667	.03028	.02264	.03825	.03728	.00275	.01758	.05374	.07051
54 55	Household appliances Electric lighting and wiring equipment		.00031		.00023	_		.00020	.00100	.00684	.00205
56	Audio, video, and communication equipment	_	.00031	_	_	_	_	_	.00111	_	_
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	.01167	.00599	.00405	.00047 .00176	.00173 .00094	.00178 .00067	.00311 .00072	.21142 .00023	.00015	.02521 .00040
59A	Motor vehicles (passenger cars and trucks)	.01107	.00399	.00403	.00170	.00094	.00007	.00072	.00023		.00040
59B	Truck and bus bodies, trailers, and motor vehicles parts	.00439	.00400	.00011	.00021	.00009	.00012	.00011	.00006	.00014	.00006
60	Aircraft and parts Other transportation equipment				_	_	_				_
62	Scientific and controlling instruments	-	-	-	.00043	-	.00040	_	.00005	.01633	.00144
63 64	Ophthalmic and photographic equipment	.00012	.00009 .00022	.00012 .00049	.00020 .00012	.00015 .00005	.00013	.00032	.00020 .00002	.00015 .00045	.00022 .00011
65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	.00117	.00225	.00049	.00144	.00143	.00106	.00186	.00075	.00169	.00276
65B	Motor freight transportation and warehousing	.01748	.01583	.01113	.01077	.01003	.00861	.00915 .00023	.00181	.00943	.00823
65C 65D	Water transportation Air transportation	.00604	.00052 .00465	.00429	.00023	.00015	.00007	.00023	.00008	.00018	.00072 .00414
65E	Pipelines, freight forwarders, and related services	.00006	.00003	-	_	_	_	.00004	.00005	.00004	_
65G 66	In-house transportation Communications, except radio and TV	.00314	.00868 .00271	.01194 .00332	.00738 .00423	.00420 .00457	.00840 .00420	.00758 .00273	.00139 .00381	.00666	.00432 .00398
67	Radio and TV broadcasting			.00002	00420				.00001	.00200	
68A	Electric services (utilities)	.00790	.00805	.00592	.01107	.00803	.01070	.01207	.00543	.00747	.00996
68B 68C	Gas production and distribution (utilities) Water and sanitary services	.00205 .00111	.00264 .00074	.00232	.00269 .00065	.00207 .00062	.00284 .00098	.00298 .00068	.00069 .00052	.00211 .00261	.00280 .00085
69A	Wholesale trade	.05622	.07292	.08545	.04708	.06971	.06060	.03752	.10369	.06729	.07002
69B	Retail trade	.00022	.00025	.00011	.00014	.00019	.00026	.00018	.00024	.00064	.00067
70A 70B	Finance Insurance	.00657 .00125	.00712 .00142	.00638 .00145	.00683 .00139	.00652 .00121	.00678 .00135	.00702 .00126	.00757 .00127	.00733 .00136	.00849 .00124
71A 71B	Owner-occupied dwellings	.00569	.00480	.00748	.01077	.01092	.00694	.01344	01001	.00514	.00791
71B	Real estate and royalties Hotels and lodging places	.00303	.00307	.00748	.00304	.00304	.00094	.00299	.01281 .00312	.00295	.00300
72B	Personal and repair services (except auto)	.00129	.00118	.00073	.00097	.00079	.00134	.00103	.00050	.00098	.00115
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	.00474 .00280	.00374 .00697	.00179 .00827	.00294 .00788	.00221 .00951	.00329 .00720	.00216 .00749	.00875 .00942	.00402 .00593	.00236
73C	Other business and professional services, except medical	.01167	.01170	.01112	.01330	.01177	.01380	.01866	.01134	.00983	.01407
73D	Advertising	.00229	.00815	.00711	.00738	.00821	.00969	.00889	.00959	.00835	.01197
74 75	Eating and drinking places Automotive repair and services	.00403	.00416 .00279	.00384 .00186	.00475 .00311	.00452 .00225	.00437 .00324	.00398 .00270	.00360 .00196	.00400 .00252	.00422 .00278
76	Amusements	.00029	.00034	.00012	.00012	.00025	.00017	.00032	.00039	.00034	.00022
77A 77B	Health services Educational and social services, and membership organizations	.00076	.00066	.00049	.00086	.00054	.00067	.00072	.00106	.00140	.00076
78	Federal Government enterprises	.00058	.00104	.00084	.00073	.00123	.00079	.00039	.00025	.00018	.00078
79	State and local government enterprises	.00111	.00100	.00282	.00219	.00133	.00198	.00259	.00070	.00087	.00083
80 81	Noncomparable imports Scrap, used and secondhand goods	.00122	.00276	.00287	.00083 .00008	.00339	.00294	.00168 .00008	.05581	.00084	.00685
82	General government industry	_	_	_	_	_	_	_	-	-	-
83 84	Rest of the world adjustment to final uses Household industry		_	_	_		_		_	_	=
85	Inventory valuation adjustment										
I 88	Total intermediate inputs Compensation of employees	. 61321 .26580	. 59737 .26931	. 57727 .32198	. 44389 .45625	. 52630 .36431	. 52089 .35648	. 44072 .47079	. 71950 .20828	. 59019 .27963	. 51992 .32861
89	Indirect business tax and nontax liability	.00773	.00788	.00743	.00771	.00786	.00770	.00760	.00791	.00782	.00727
90	Other value added	.11323	.12541	.09330	.09212	.10151	.11491	.08087	.06427	.12233	.14417
VA T	Value added Total industry output	.38676 1.00000	.40260 1.00000	.42271 1.00000	.55608 1.00000	.47367 1.00000	.47908 1.00000	.55925 1.00000	.28046 1.00000	.40978 1.00000	.48005 1.00000
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Commodity		House- hold appli- ances	Electric lighting and wiring equipment	Audio, video, and communi- cation equipment	Electronic components and accessories	Miscel- laneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Other trans- portation equip- ment	Scientific and controlling instruments
number	Industry number	(54)	(55)	(56)	(57)	(58)	(59A)	(59B)	(60)	(61)	(62)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00048	.00037	.00025 .00061	.00076	.00080	.00001 — .00015	.00001 .00030 .00348	.00001 .00062 .00030	.00047	.00048 .00013
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00168 .00515	.00480	.00608	.00003 .00001 .01303	.00560	.00012 — — .00322	.00026 — — — .00701	.00015 — — .00780	.00020 — — .00352	.00030 — — .00590
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00012		.00002			.00118 .00748	.00061	.00007 .00097 .00006	.00310	.00052 .00301 .00525
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00066 .00012 .01419	.00005 .00644	.00004 .01168 .00399	.00001 — .00018 .00209	.00005 .00198	.00003 .02693 .00003 .01673 .00029	.00019 .00175 .00037 .00087	.00006 .00141 .00020 .00054 .00025	.00413 .01333 .00120 .00027	.00017 .00001 .00070 .00048 .00361
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01033 .00035 .00679	.01365 .00010 .00005 .00262	.00228 .00008 .00033 .00033	.00151 .00013 .00007 .01128	.01178 .00019 .00009 .00909	.00012 .00003 .00011 .00473	.00410 .00005 .00031 .00440	.00015 .00005 .00029 .00069	.00016 .00003 .00006 .00053	.00454 .00010 .00067 .00148
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.02543 — .00096 .00817 .00351	.02255 	.00251 	.00275 .00010 .00086	.01216 — .00014 — .00174	.00005 .00005 .01139 .00043	.00548 — .00005 .00528 .00118	.00307 — .00157 .00155	.00430 — .00531 .00222	.00426 .00028 .00031 .00123
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.08710 — .00198 .00541 .06835	.02930 — .02475 .00989 .03610	.01938 	.01490 — .00899 .00066 .00468	.06502 — .00075 .01871	.06097 .00001 .00998 .00133 .00155	.02577 .00001 .00080 .00336 .08408	.01637 .00001 .00019 .00214 .00815	.02057 	.02016 .00351 .00116 .00914
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.04508 — .02957 .01658	.05369 — .02867 .02145	.01135 	.02385 — .00385 .01030 .03498	.05362 — .00368 .01065 .01993	.00028 — .08362 .01850	.07238 — .02042 .04028 .01371	.02389 	.01400 — .02117 .00727 .01771	.01309 .00024 .00722 .01197 .01497
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00186	.00288	.00071	.00156 .00103	.00221	.01339 .00005 .00130 	.00245 — .00007 .00243 —	.01005	.04276 .00117 .00003 .00196	.00144
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00373 .00210	.00445	.00035 .00199	.00443	.00377 .00462	.00036 .00526	.01683 .03823	.00270 .01341	.02180 .00803	.00066 .00427

				20000	0.1000		22224	20000	20110		24224
51 52	Computer and office equipment Service industry machinery	.02092	.00010	.00383 .00015	.01090 .00001	.00683	.00001 .01476	.00002 .00263	.00142	.00277	.01234 .00002
53	Electrical industrial equipment and apparatus	.04706	.02679	.00276	.00106	.01225	.00004	.00010	.00114	.02802	.01001
54	Household appliances	.00126	_	_	_	_	_	_	_	.00573	_
55 56	Electric lighting and wiring equipment Audio, video, and communication equipment	.01431	.03176	.00709 .03181	.00190 .00151	.00330 .00151	.00557 .01174	.00074 .00001	.00737	.00327 .00057	.00275 .00784
57	Electronic components and accessories	.00872	.00738	.23585	.18266	.09575	.01774	.02581	.00737	.00037	.08923
58	Miscellaneous electrical machinery and supplies	.00006	.00005	.00520		.02813	.01654	.01737	.00035	.00369	.00043
59A	Motor vehicles (passenger cars and trucks)	_					.00427	.00537		.02207	
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts		.00005	.00004	.00004	.00017	.26771	.08791	.00006 .24824	.02140	.00008
61	Other transportation equipment	_	_	_	_	_	_	_	.24024	.02680	_
62	Scientific and controlling instruments	.03925	_	.00247	.00202	.00269	.00586	.00005	.04969	.00310	.02882
63	Ophthalmic and photographic equipment	.00006	.00021	.00021	.00021	.00033	.00013	.00020	.00021	.00007	.00026
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	.00054 .00258	.00361 .00193	.00002 .00092	.00190	.00005 .00183	.00008	.00009 .00334	.00013 .00111	.00010 .00218	.00011 .00106
65B	Motor freight transportation and warehousing	.01213	.01009	.00332	.00435	.01168	.01570	.01441	.00490	.01303	.00430
65C	Water transportation	.00030	.00010	.00008	.00025	.00033	.00031	.00040	.00016	.00013	.00012
65D 65E	Air transportation Pipelines, freight forwarders, and related services	.00355	.00330	.00408 .00004	.00433	.00401	.00658	.00528 .00004	.00768	.00463	.00381 .00004
65G	In-house transportation	.00614	.00364	.00069	.00003	.00333	.00003	.01153	.00281	.01360	.00136
66	Communications, except radio and TV	.00332	.00297	.00409	.00353		.00097	.00164	.00216	.00202	.00498
67	Radio and TV broadcasting			-	_		_		_		_
68A 68B	Electric services (utilities) Gas production and distribution (utilities)	.00807 .00252	.01018	.00529 .00079	.01296 .00162	.01067 .00212	.00315 .00092	.00978 .00217	.00663 .00107	.00667 .00185	.00771 .00082
68C	Water and sanitary services	.00039	.00100	.00073	.00094	.00253	.00048	.00269	.00138	.00122	.00062
69A	Wholesale trade	.06833	.07142	.05767	.05425	.08108	.08189	.06904	.03027	.05183	.04079
69B	Retail trade	.00164	.00160	.00055	.00026		.00028	.00046	.00013	.00024	.00051
70A 70B	Finance Insurance	.00733	.00717 .00132	.00744	.00765 .00139	.00801 .00137	.00672 .00135	.00751 .00133	.00898 .00128	.00643 .00143	.00758 .00137
71A	Owner-occupied dwellings	_	_	_	_	_	_	_			- 1
71B 72A	Real estate and royalties Hotels and lodging places	.00372 .00303	.01067 .00301	.00959 .00299	.01025 .00303	.00777 .00295	.00344 .00295	.00402 .00298	.00474 .00324	.01366 .00279	.01026 .00302
72B	Personal and repair services (except auto)	.00072	.00078	.00233	.00303	.00233	.00235	.00230	.00324	.00273	.00072
73A	Computer and data processing services	.00142	.00349	.00512	.00488		.00081	.00293	.00137	.00368	.00474
73B	Legal, engineering, accounting, and related services	.00333	.00537	.00822	.01408		.00792	.00618	.00948	.00549	.01137
73C 73D	Other business and professional services, except medical Advertising	.01002 .02621	.01227 .02020	.01203 .00658	.01768 .01176	.01830 .00938	.00666 .00453	.01180 .01966	.01550 .00430	.01087 .00570	.02285 .01540
74	Eating and drinking places	.00429	.00453	.00375	.00382	.00455	.00358	.00383	.00398	.00401	.00412
75	Automotive repair and services	.00219	.00274	.00227	.00384	.00359	.06464	.00383	.00345	.00170	.00228
76 77A	Amusements Health services	.00030	.00021	.00031	.00038	.00019	.00035	.00050	.00035	.00017	.00036
77B	Educational and social services, and membership organizations	.00210	.00063	.00127	.00155	.00108	.00275	.00188	.00221	.00073	.00206
78	Federal Government enterprises	.00221	.00073	.00123	.00043	.00056	.00066	.00157	.00091	.00035	.00117
79	State and local government enterprises	.00114	.00157	.00033	.00052	.00141	.00032	.00048	.00029	.00177	.00137
80 81	Noncomparable imports Scrap, used and secondhand goods	.00189	.00997	.00742	.00413	.01407 .00372	.00302	.00472 .00025	.00096	.00066	.00208
82	General government industry	-	_	_	_	-	_	_	-	_	_
83	Rest of the world adjustment to final uses	-	_	_	_	-	_	_	_	_	_
84 85	Household industry Inventory valuation adjustment		_	_	_	_	_	_	_		
l l	Total intermediate inputs	.65210	.53038	.52833	.51686	.58318	.84922	.69319	.57444	.53114	.43000
88	Compensation of employees	.20767	.29689	.27671	.33122	.29368	.10709	.27301	.34335	.34651	.37457
89 90	Indirect business tax and nontax liability Other value added	.00767 .13254	.00740 .16531	.00735 .18759	.00735 .14455	.00746 .11564	.00611 .03756	.00519 .02857	.00652 .07564	.00576 .11656	.00602 .18938
VA	Value added	.13234	.46959	.47164	.48311	.41678	.15075	.30677	.42552	.46883	.56997
T	Total industry output	1.00000	1.00000	1.00000	1.00000		1.00000	1.00000	1.00000		1.00000

Commodity		Ophthalmic, and photo- graphic equipment	Miscel- laneous manufac- turing	Railroads and related services; pas- senger ground transportation	Motor freight transportation and warehousing	Water trans- portation	Air trans- portation	Pipelines, freight forwarders, and related services	local	In-house trans- portation	Communi- cations, except radio and TV
number	Industry number	(63)	(64)	(65A)	(65B)	(65C)	(65D)	(65E)	(65F)	(65G)	(66)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00033	0.00007 .00082 .00034 .00019 .00027	.00002	.00001 .00001	.00009 .00009 —	.00001	_ _ _ _	.00034		.00000
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00079 — — — .00616	.00005 .00012 .00454	.04421	.00441	.00028 — — .00092	.00254	.00247 — .01708	 .28319	.00411	.03929
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00004	.00218 	_ _ _ _	.00005	.00256 — .00136	.00245	.00015 — — — —	.00170	.00005	.00000
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers		.00438 .00109 .01193 .00051 .00675	.00041 — — .00039	.00002 .00007 .00020 — .00036	.00194 .00311 .00009 —	.00008 .00006 .00002 — .00033	.00226 .00488 — .00059	.00034 — .00051	.00001 .00007 .00006 — .00042	.00044 .00001 .00009 — .00087
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01003 .00046 .00012 .02093	.01887 .00017 .00157 .01014	.00007 .00023 .00361 .00187	.00058 .00025 .00223 .00062	.00120 .00102 .00037	.00003 .00020 .00163 .00019	.00232 .00048 .00720 .00024	.00017 .01378 —	.00079 .00099 .00070	.00041 .00040 .00377 .00008
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.01152 	.02401 .00092 .00580 .00406	.05983	.00001 .00034 .04750	.00012 — .00080 .02241	.00003 .00004 .10039	 .00541	.00153 .037304	 .00006 .00159 .07011	.00002 .00012 .00027 .00098
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.02321 — .00638 .00041 .00174	.03742 .00075 .00058 .00339 .01873	.00486 .00002 .00093 .00004 .00725	.01194 .00001 .00002 .00005	.00318 — .00012 .00006	.00034 .00001 .00001 .00002	.00544 .00003 .00036 .00012	.01957 — — — —	.00551 .00000 .00002 .00001	.00212 .00001 .00009
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00448 — .00029 .00854 .00273	.04848 	.00002 — .00013 .00474	.00002 — — — .00285	.00065 — .00015 .00006 .00681	.00045 .00074	.00220	.00034 .00221	.00003 — — .00204	.00008 — .00175 .00117
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00120	.00005 — — .00242 —	.00393 — .00135	.00061 .00003 .00012 .00001	.00669 — .00465	.00030	.00101 — — — —	.01889 — — .00119	.00010 	.00171 — .00002
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00017 .00377	.00053 .00777	.00604 .00188	.00027 .00035	.01150 .00293	.00005 .00131	.00312 .00128	.00238 .00204	.00009 .00030	.00204 .00008

51 52 53	Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00046 .00004 .00493	.00051 .00007 .00452	 .00014 .00448	.00001 .00005 .00114	.00031	.00002 .00004 .00014	.00057 .00012 .00083	.00170 .07488	.00009	.00155 .00001 .00167
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00025 .03535 .00012	.00044 .00012 .01109 .00031	.00038 .00027 .00151	.00027 .00002 .00122	.00003 .00037 — — .00099	.00007 .00001 .00126 .00046	.00024 .00235	.00017 — — .00374	.00030 .00001 .00134	.00032 .01665 .01357 .00128
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00016 	.00011	.00696 .01693	.00484 .00004 .00008	.00003 .02284 .00003	.00015 .02873 — .00014	.00086 — .00003	.04544 — .02468	.00339 .00003 .00012	.00015
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.05151 .00004 .00339 .00716 .00058	.00027 .07312 .00239 .01189 .00048	.00018 .00023 .04247 .00660 .00140	.00037 .00023 .00265 .17256 .00125	.00022 .00228 .00059 .00321 .13200	.00020 .00029 .00136 .00248 .00174	.00083 .00095 .00098 .00622 .00167	.00017 .00034 .01174 .00851 .00494	.00025 .00127 .00477 .00111	.00040 .00071 .00075 .00119 .00005
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00348 .00004 .00367 .00466	.00336 .00952 .00354	.00384 .00793 .00701	.00373 .02974 .01266	.00237 .04337 .00083	.06441 .08307 .01279	.00693 .02270 .02862	.00017 .00408 .00017	.00006 .00068 .01279	.00323 .00006 .00043 .13344 .00039
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	.00611 .00232 .00088 .05964 .00076	.00777 .00253 .00070 .08331 .00129	.00172 .00002 .00194 .02728 .00332	.00676 .00071 .01281 .03037 .00452	.00370 .00028 .00111 .01557 .00046	.00312 .00015 .00132 .01553 .00046	.01303 .00033 .00098 .00892 .00077	.09292 .01481 .00153 .05106	.00775 .00113 .00554 .03407 .00695	.00389 .00034 .00109 .00863 .00033
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	.00854 .00141 — .00543 .00296	.00748 .00170 — .01219 .00285	.01742 .00468 — .01107 .00249	.00774 .00803 .02081 .00380	.03231 .00142 — .02762 .00142	.01631 .00160 — .01563 .00319	.02624 .00538 — .02100 .00295	.00851 .00221 — .00902 .00034	.00002 .00735 — .00062 .00399	.01066 .00162 .01605 .00303
72B 73A 73B 73C 73D	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	.00062 .00330 .00238 .01960 .01281	.00082 .00188 .00614 .01550 .03953	.00138 .01413 .00725 .01984 .00396	.00063 .00287 .00520 .02042 .00212	.00059 .00863 .02105 .07263 .03835	.00290 .02362 .01138 .01634 .01475	.00211 .06979 .05212 .02743 .02478	.00068 .00408 .00187 .02383 .00034	.00091 .00393 .00681 .02614	.00694 .01367 .02960 .01925 .01579
74 75 76 77A 77B	Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations	.00391 .00222 .00037 — .00390	.00446 .00254 .00041 —	.00413 .01177 .00025 — .00244	.00447 .05759 .00043 .00037 .00048	.00176 .00046 .00046 — .00373	.01946 .00161 .00063 — .00069	.00369 .00654 .00051 — .00747	.00187 .00170 — — .00170	.00486 .03791 — —	.00358 .00547 .01354 — .00150
78 79 80 81 82	Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods General government industry	.00070 .00037 .00756	.00284 .00228 .00180 .00002	.00106 .00161 .00328	.00148 .00162 .00359 .00003	.00031	.00081 .00022 .09376	.00393 .00030 .00744	.00034	.00213 .00036 .00104 00001	.00316 .00019 .03068
83 84 85 I 88	Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total intermediate inputs	.40920	.57265	.38316	.50059	.60552	.55207		1.11962	.26548 .50864	.42092
89 90 VA T	Compensation of employees Indirect business tax and nontax liability Other value added Value added Total industry output	.20270 .00597 .38210 .59077 1.00000	.29226 .00806 .12700 .42731 1.00000	.42074 .01804 .17803 .61682 1.00000	.33263 .01566 .15108 .49937 1.00000	.22010 .01797 .15638 .39445 1.00000	.34800 .06050 .03940 .44790 1.00000	.31860 .02954 .23563 .58377 1.00000	1.53472 — — 1.65436 — .11964 1.00000	.02339 .20247 .73449 1.00000	.21104 .06064 .30738 .57905 1.00000

Commodity		Radio and TV broad- casting	Electric services (utilities)	Gas pro- duction and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Insurance	Owner- occupied dwellings	Real estate and royalties
number	Industry number	(67)	(68A)	(68B)	(68C)	(69A)	(69B)	(70A)	(70B)	(71A)	(71B)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00014	.00001	.00001		.000 <u>13</u> .00049	.00000	.00001	.00001 .00026	.00795	.00005
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00882	.09173 .00005 — — .07796	.41602 .07297	.07965	.00002 .00002 .00001 — .00410	.00001 .00000 .00940	.00000 — — .00275	.00265	.04738	.00001 — — .05376
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	 - -				.00116 	.00018 	.00000	_ _ _ _	_ _ _ _	.00000
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00003 .00040	.00001 .00004 .00037	.00003	.00818 .00057	.00105 .00048 .00330 — .00394	.00006 .00006 .00020 .00000 .00749	.00042 .00018 — .00272	.00008 .00020 — .00165	_ _ _ _	.00002 .00008 .00001 .00099
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00017 .00024 .00032 .00048	.00009 .00005 .00052 .00172	.00005 .00001 .00016 .00002	.00016 .00021 .00026 .02602	.00543 .00048 .00982 .00064 .00059	.00165 .00022 .00109 .00007 .00004	.00032 .00076 .00842 .00012	.00021 .00015 .00668 .00009	.00000 .00075	.00014 .00004 .00148 .00008 .00024
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00033	.00002 .01271	.00005 .00353	.00010 .03499	.00001 .00006 .00082 .00001 .00312	.00002 .00030 .00003 .00286	.00006 .00000 .00087	.00003 .00020 .00054	_ _ _ _	.00009 .00005 .00096
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00011 — — —	.00096 .00001 .00004 .00002	.00008 .00001 — .00001	.00809 — .00109 .00083	.00462 .00002 .00035 .00020 .00012	.00321 .00024 .00003 .00004 .00001	.00030 .00004 .00006 .00002 .00000	.00148 .00003 .00004 — .00000	.00013 — — —	.00072 .00001 .00001 .00065
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00006	.00059 .00001 — .00025 .00019	.00009	.00005 — — — .00427	.00059 .00082 .00019 .00000 .00087	.00001 	.00064	.00006 — — .00092	.00029	.00001 .00015 .00034
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00003	.00536 .00008 .00046	.00019	 .00016	.00003 .00015 .00077 .00033 .00011	.00014 .00002 .00008 .00008	.00001 .00001	_ _ _ _	.00035 — — —	.00001
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00017	.00037 .00114	.00003 80000.	.00016 .00089	.00007 .00120	.00004 .00046	.00005 .00004	.00000		.00002 .00001

51	Computer and office equipment	.00112	.00004	.00163		.00045	.00016	.00058	.00081	_	.00007
52 53	Service industry machinery Electrical industrial equipment and apparatus	.00098	.00001 .00110	.00001	.00042	.00030 .00017	.00025 .00007	.00000	.00000 .00002	_	.00000 .00001
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00140 .00708 .00031	.00076 — .00062	.00001	.00099 — — .00151	.00030 .00025 .00537 .00064	.00001 .00042 .00006 .00037 .00058	.00000 .00005 .00003 .00016 .00081	.00009 .00002 .00000 .00114		.00009 .00007 .00001 .00000 .00013
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00009 — — .00010	.00007 — — .00061	.00010	.06116 	.00169	.00350 .00000 .00000	.00016 — — .00000	.00023 .00001 .00023		.00010 .00000 .00006
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00136 .00017 .00060 .00153	.00005 .00019 .02739 .00340 .00433	.00009 .00011 .00042 .00048	.00031 .00021 .00224 .00576 .00089	.00109 .00093 .00085 .00370	.00036 .00090 .00076 .00259	.00149 .00155 .00078 .01031 .00008	.00140 .00076 .00119 .00384 .00003	.00001 .00005	.00025 .00028 .00066 .00101
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00249 .00003 .01015 .01561 .02064	.00228 .00020 .00225 .00167	.00295 .00502 .00248 .00066	.00344 .00047 .00958 .02190	.00467 .00048 .03969 .01448	.00285 .00007 .03873 .00890	.00332 .00006 .00089 .01245	.00439 .00007 .00012 .01806	 - -	.00232 .00005 .00091 .00686
68A 68B 68C 69A 69B	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	.00640 .00016 .00138 .00290 .00025	.00013 .02756 .00110 .00691 .00021	.00206 .18986 .00025 .00619 .00031	.00408 .02686 .07447 .03067 .00881	.00804 .00197 .00152 .02399 .00247	.02236 .00159 .00296 .00333 .00343	.00473 .00115 .00251 .00432 .00031	.00163 .00018 .00051 .00287 .00051	.00041 .00042	.01197 .00172 .00630 .00150 .00048
70A 70B 71A 71B	Finance Insurance Owner-occupied dwellings Real estate and royalties	.00845 .00553 — .02305	.01689 .00207 — .01130	.00866 .00122 — .00388	.00777 .01189 — .00401	.01122 .00146 — .02873	.01677 .00278 — .07143	.14408 .00303 — .03225	.04624 .27895 — .03993	.01868 .00661 — .03590	.00928 .00297 — .06542
72A 72B 73A 73B 73C 73D	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00253 .00333 .01440 .01479 .02624	.00233 .00055 .01021 .01159 .01044	.00139 .00028 .00262 .02461 .00514 .00024	.00242 .00413 .00306 .03483 .01129	.00323 .00214 .01337 .01176 .04162	.00284 .00315 .00635 .00978 .03434	.00288 .00105 .03061 .02704 .03937	.00468 .00076 .00970 .03350 .03828 .01181	.00524 .00359	.00256 .00353 .00113 .01706 .02598
74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.02830 .00300 .00382 .37883	.00077 .00279 .00116 .00030	.00155 .00165 .00029	.00005 .00309 .00374 .00026	.02535 .00371 .00677 .00115	.05070 .00399 .00454 .00084	.01784 .00338 .00239 .00052	.00555 .01477 .00062		.00909 .00300 .00649 .00031
77B 78 79 80 81	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods	.00535 .00114 .00027 —	.00312 .00268 .00011 .00013	.00052 .00112 .00008 .00061	.00063 .00160 — .00010	.00199 .00567 .00055 .00719 .00000	.00097 .00575 .00066 .00015	.00208 .02139 .00034 .00747	.00146 .00771 .00011 .00313 .00000		.00087 .00283 .00074 — .00000
82 83 84	General government industry Rest of the world adjustment to final uses Household industry			_	_	_ 				_ 	
85 88	Inventory valuation adjustment Total intermediate inputs Compensation of employees	. 60507 .28114	. 35215 .12917	. 76143 .06188		. 32558 .38653	. 33988 .39306	. 39960 .34902	. 55054 .39766	.12775 —	
89 90 VA T	Indirect business tax and nontax liability Other value added Value added Total industry output	.01819 .09559 .39491 1.00000	.07341 .44523 .64781 1.00000	.04639 .13028 .23854 1.00000	.09516 .13628 .45506 1.00000	.38633 .17705 .11080 .67438 1.00000	.13865 .12837 .66008	.03922 .21213 .60037 1.00000	.06023 00846 .44943 1.00000	.15970 .71254 .87224 1.00000	.14491 .51635 .74873 1.00000

Commodity		Hotels and lodging places	Personal and repair services (except auto)	Computer and data processing services	Legal engineering, accounting, and related services	Other business and professional services except medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Health services
number	Industry number	(72A)	(72B)	(73A)	(73B)	(73C)	(73D)	(74)	(75)	(76)	(77A)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	.00008 .00005 .00461	.00046	.00002 .00047	.00002	0.00013 .00001 — .00030	.00030	0.00114 .00657 .00622 .00066	.00001 .00038	0.00032 .00121 .00005 .00223	0.00010 .00036 .00007 .00132
7 8	Coal mining Crude petroleum and natural gas	.00003	.00003	_	.00000	.00000	_	.00002	.00001	.00001	.00001
9+10 11 12	Nonmetallic minerals mining New construction Maintenance and repair construction	.02544	.00003 — .00542	.00267	.00150	.00257	.00165	.00745	.00379	.00870	.00506
13	Ordnance and accessories	.02344	.00342	.00207	.00130	.00237	.00103	.00743	.00373	.00076	.00300
14	Food and kindred products	.00200	_	_	_	.00020	_	.21922	_	.00570	.00762
15 16	Tobacco products Broad and narrow fabrics, yarn and thread mills	.00010	.00155	_	_	.00002	_			.00066	.00006
17	Miscellaneous textile goods and floor coverings	.00022	.00040	_	.00001	.00002	_	.00014	.00040	.00008	.00009
18 19 20+21 22+23	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures	.00082 .00844 .00020	.00410 .00283 .00047	.00016 .00002	.00029 .00002	.00026 .00002 .00026 .00001	.00060 .00013	.00003 .00056 .00009	.00031 .00089 .00008 .00120	.00088 .00044 .00064 .00002	.00109 .00122 .00024 .00001
24	Paper and allied products, except containers	.00340	.00276	.00248	.00284	.00411	.00284	.00319	.00137	.00179	.00416
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00206 .00089 .00317 .00017 .00188	.00063 .00037 .01030 .00166	.00021 .00030 .00897 .00009	.00037 .00050 .00765 .00017	.00167 .00045 .00717 .00363 .00001	.00023 .00020 .07441 .00006	.00355 .00010 .00204 .00105	.00064 .00030 .00076 .00157	.00077 .00052 .00221 .00096 .00110	.00137 .00068 .00540 .01444 .00006
28	Plastics and synthetic materials	_	.00013	_	_	_	_	_	_	_	.00032
29A 29B 30 31	Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00121 .00000 .00188	.01217 .00010 .00230	.00003 — .00073	.00011 .00001 .00050	.00132 .00015 .00319	.00005	.00019 .00000 .00037	.00087 .00237 .01269	.00007 .00025 .00028 .00158	.01341 .00116 — .00097
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00408 .00008 .00426 .00064	.00413 .00381 .00004 .00011 .00008	.00165 .00003 .00003 —	.00093 .00016 .00049 .00009 .00001	.00298 .00016 .00086 .00024 .00021	.00080 — — —	.00772 .00001 .00148 .00139	.02067 .00001 .00567 .00034	.00109 .00058 .00004 .00002 .00001	.01159 .00008 .00164 .00035 .00000
38	Primary nonferrous metals manufacturing	_	.00080	_	_	.00006	_	.00002	.00004	.00012	.00002
39 40 41 42	Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00010 .00059	.00007 .00093 .00257	.00036	.00067	.00011 .00030 .00091	.00032	.00020 .00035	.01060 .01206	.00002 .00016 .00071	.00059 .00075
43 44 + 45 46	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment		.00003 — —		_ _ _	.00041 .00023 .00043	_	.00001 — —	.00474 — —	.00003	.00000
47 48	Metalworking machinery and equipment Special industry machinery and equipment	.00002	.00013 .00045	.00003 .00002	.00004 .00002	.00166 .00116	_	.00000 .00053	.00023 .00025	.00006	.00002 .00001
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00013	.00040 .00099	.00016	.00030	.00125 .00128	.00019	.00058 .00012	.00018 .00220	.00022	.00001 .00020

51	Computer and office equipment	.00012	.00487	.05705	.00200	.00140	.00218	.00004	.00004	.00017	.00141
52	Service industry machinery	.00010	.00353	.00001	.00002	.00041	.00007	.00016	.00667	.00083	.00017
53	Electrical industrial equipment and apparatus	.00022	.00062	.00105	.00002	.00254	.00003	.00002	.00297	.00002	.00017
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00013 .00026 .00007 — .00026	.00744 .00024 .00013 .01017 .00063	.00001 .00004 .03798 .00286	.00005 .00003 .00008 .00162	.00001 .00035 .00018 .00725 .00116	.00009 .00007 .00010 .00051	.00002 .00027 .00006 — .00015	.00356 .00012 .00197 .00512	.00071 .00007 .00002 .00519	.00002 .00041 .00002 .00035 .00051
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00051 — — .00025	.00075 — — .00079	.00015 — .00058	.00032 — .00007	.00137 	.00069 — — .00003	.00112 .00002	.00078 .11321 .00001 — .00068	.00069 .00032 .00011	.00045 — .01698
63	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00047	.01042	.00057	.00234	.00349	.00124	.00007	.00030	.00047	.00232
64		.00141	.01440	.00046	.00122	.00184	.00110	.00131	.00036	.00252	.00072
65A		.00105	.00074	.00070	.00070	.00157	.00061	.00169	.00192	.00062	.00128
65B		.00525	.00516	.00144	.00287	.00468	.00142	.00772	.00624	.00193	.00311
65C		.00023	.00030	.00008	.00013	.00033	.00009	.00023	.00042	.00023	.00017
65D 65E 65G 66 67	Air transportation Pipelines, freight forwarders, and related services In-house transportation Communications, except radio and TV Radio and TV broadcasting	.00374 .01339 .02013 .01286	.00308 .00010 .02822 .01190	.00423 .00008 .00239 .02057	.00329 .00008 .00542 .01168	.00531 .00012 .01859 .01279	.00244 .00010 .01716 .01010 .00496	.00319 .00004 .03677 .00352	.00439 .00182 .01417 .00891	.00260 .00004 .01848 .00735	.00305 .00007 .01292 .00858
68A	Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade	.03589	.01371	.00351	.00334	.00391	.00395	.02197	.00951	.01467	.00722
68B		.00596	.00434	.00025	.00050	.00083	.00021	.00351	.00235	.00132	.00157
68C		.01327	.00484	.00033	.00045	.00075	.00009	.00518	.00276	.00240	.00262
69A		.00677	.01671	.02336	.00464	.01069	.00867	.04550	.04059	.01408	.01467
69B		.00182	.00080	.00023	.00023	.00196	.00054	.00126	.00754	.00085	.00070
70A 70B 71A 71B 72A	Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places	.05121 .00159 — .07315 .00354	.00958 .00219 .05600 .00250	.00861 .00078 — .03183 .00277	.01057 .00107 — .05302 .00529	.00897 .00177 — .02881 .00466	.00589 .00105 — .04553 .00228	.00952 .00124 .04907 .00267	.01594 .00431 — .05126 .00337	.00878 .00135 — .06279 .00242	.00658 .00274 .06066 .00295
72B	Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising	.00675	.04877	.00148	.00080	.00178	.00102	.00313	.01145	.00258	.00229
73A		.00652	.00579	.08012	.02397	.01531	.00827	.00252	.00406	.00435	.01096
73B		.00843	.03335	.01560	.07539	.01881	.03729	.00865	.00710	.02209	.01667
73C		.07055	.02693	.03137	.08222	.05271	.08176	.02009	.02051	.03308	.04331
73D		.01758	.02470	.00937	.00360	.00828	.00606	.02177	.01648	.03896	.00447
74	Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations	.00537	.00339	.00366	.00315	.00619	.00269	.01489	.00392	.00351	.00771
75		.00546	.00487	.00543	.00423	.00587	.00941	.00286	.01191	.00587	.00542
76		.00055	.00047	.00040	.00070	.00132	.02056	.00876	.00051	.16209	.00041
77A		—	—	—	—	.00001	—	—	—	.00027	.02119
77B		.00185	.00355	.00648	.00305	.00333	.00224	.00158	.00073	.00156	.00261
78 79 80 81 82	Federal Government enterprises State and local government enterprises Noncomparable imports Scrap, used and secondhand goods General government industry	.00498 .00172 .00127 —	.00547 .00071 .00024 .00001	.00609 .00012 .00472 —	.00941 .00027 .00195 —	.00608 .00024 .00366 .00000	.00529 .00018 .00147 —	.00164 .00068 .00041 .00000	.00359 .00117 .00008 .00366	.00411 .00033 .00176 00126	.00951 .00033 .00004
83 84 85 I	Rest of the world adjustment to final uses Household industry Inventory valuation adjustment Total intermediate inputs	 .45118		 .38513			.36923	.54829	 .48109	.46395	 .35185
88	Compensation of employees Indirect business tax and nontax liability Other value added Value added Total industry output	.34652	.31840	.42591	.46246	.41796	.38538	.32032	.27779	.31579	.50833
89		.08693	.02192	.01610	.00657	.01598	.01136	.05840	.04804	.04084	.00588
90		.11534	.22706	.17283	.19407	.27749	.23401	.07296	.19305	.17939	.13390
VA		.54878	.56737	.61484	.66310	.71143	.63074	.45168	.51888	.53602	.64811
T		1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Commodity		Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	General government industry	Household industry	Inventory valuation adjustment
number	Industry number	(77B)	(78)	(79)	(82)	(84)	(85)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00028 .00054 — .00157 —	.00010 .00010 .00003	.00346			_ _ _
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00001 .00001 .03995	.01204 — — .01506	.01464 .00725 .00059 — .21357			_ _ _
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.01098 .00015 .00004	.00294 .00013 .00006	.00013			_ _ _
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00035 .00035 .00085 .00001 .00577	.00002 .00179 — .00172 .00126	.00039 — — .00048			_ _ _
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00120 .00412 .04088 .00089 .00021	.00189 .00007 .01206 .00170	.00006 .00079 .01391 .00162		 	_ _ _ _
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00028 .00073 .00018 .00221	.00062 .01070	.00003 .00035 			_ _ _ _
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.00296 .00066 .00130 .00001 .00009	.00024 .00030 .00005	.00014 .00056 .00602			_ _ _ _
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00001 	.00071 .00046 .00012	.00002	_ _ _ _	_ _ _ _	_ _ _
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00002 — .00006 .00001	.00162 .00008 .00006 	.00002 .00184 .00006			_ _ _ _
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical	.00040	.00013 .00155	.00993		_	_

J 51	Computer and office equipment	.00032	.00005				
52	Service industry machinery	.00032	.00024	.00433	_		_
53	Electrical industrial equipment and apparatus	.00010	_	.00002	_	_	_
54	Household appliances	.00007		.00012	_	_	_
55 56	Electric lighting and wiring equipment Audio, video, and communication equipment	.00044 .00028	.00046	.00141 .00049	_		_
57	Electronic components and accessories	.00080	_	.00048	_	_	_
58	Miscellaneous electrical machinery and supplies	.00084	.00028	.00151	_	_	_
59A	Motor vehicles (passenger cars and trucks)		-	-	_	_	_
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts	.00104	.01193	.00014	_		_
61	Other transportation equipment	.00002	.00016	.00012	_	_	_
62	Scientific and controlling instruments	.00100	.00002	.00015	_	_	_
63	Ophthalmic and photographic equipment	.00198	.00018	.00014	_	_	_
64 65A	Miscellaneous manufacturing	.00399 .00084	.00054 .01171	.00056 .00459	_	_	_
65B	Railroads and related services; passenger ground transportation Motor freight transportation and warehousing	.00331	.01581	.00439	_		
65C	Water transportation	.00012	.00244	.00277	_	_	_
65D	Air transportation	.00332	.02540	.00114	_	_	_
65E 65G	Pipelines, freight forwarders, and related services In-house transportation	.00010 .03467	.00008 .01177	.00007	_	_	_
66	Communications, except radio and TV	.03467	.00305	.00537	_		_
67	Radio and TV broadcasting	_		_	_	_	_
68A	Electric services (utilities)	.00882	.00492	.03854	_	_	_
68B	Gas production and distribution (utilities)	.00224	.00326	.02967	_	_	_
68C 69A	Water and sanitary services Wholesale trade	.00277 .01203	.00506 .00615	.01285 .00492	_		_
69B	Retail trade	.00132	.00016	.00018	_	_	_
70A	Finance	.01167	.00668	.01210	_	_	_
70B	Insurance	.00209	.00156	.00213	_	_	_
71A 71B	Owner-occupied dwellings Real estate and royalties	.11211	.01176	.02419	_		_
72A	Hotels and lodging places	.00301	.00030	.00025	_	_	_
72B	Personal and repair services (except auto)	.00212	.00020	.00122	_	_	_
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	.01834 .01386	.00371 .00210	.00473 .03779	_	_	_
73C	Other business and professional services, except medical	.04819	.01456	.03779	_		_
73D	Advertising	.02512	.00008	.00232	_	_	_
74	Eating and drinking places	.00704	.00111	.00133	_	_	_
75 76	Automotive repair and services Amusements	.00470 .00399	.00325	.00554 .00002	_	_	_
77A	Health services	.00399		.00002	_		
77B	Educational and social services, and membership organizations	.00533	.00034	.00063	_	_	_
78	Federal Government enterprises	.00943	.00079	.00306	_	_	_
79 80	State and local government enterprises Noncomparable imports	.00041 .00008	.00037 .02059	.01152	=		
81	Scrap, used and secondhand goods	.00000	.02039		_	_	_
82	General government industry	-	_	_	_	-	_
83	Rest of the world adjustment to final uses	-	-	_	_	_	_
84 85	Household industry Inventory valuation adjustment	_	_	_	_		_
l os	Total intermediate inputs	.47525	.23864	.53072	_	=	
88	Compensation of employees	.48430	.77550	.21375	.85586	1.00000	_
89	Indirect business tax and nontax liability	.00216				-	_
90 VA	Other value added Value added	.03824 .52470	01417 .76133	.25550 .46925	.14414 1.00000	1.00000	1.00000 1.00000
Ť	Total industry output	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
	• · · · · · ·						

Table D.

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

(TOTAL TO	quirements per donar of delivery to final demand at p	nouuccis	prices					IXL I .	– vaiut	, 100 31110	ii to report
Industry		Livestock and livestock products	Other agri- cultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petrol- eum and natural gas	Non- metallic minerals mining	New con- struction	Maintenance and repair construction
number	Commodity number	(1)	(2)	(3)	(4)	(5+6)	(7)	(8)	(9+10)	(11)	(12)
1	Livestock and livestock products	1.20920	0.00461	0.04302	0.05041	0.00085	0.00062	0.00053	0.00060	0.00099	0.00107
2	Other agricultural products	.33378	1.04310	.21804	.16320	.00202	.00130	.00107	.00106	.00570	.00645
3	Forestry and fishery products	.00240	.00097	.82943	.00160	.00098	.00060	.00043	.00043	.00541	.00666
4	Agricultural, forestry, and fishery services	.07597	.07384	.17420	.96687	.00275	.00138	.00168	.00112	.00484	.00579
5+6	Metallic ores mining	.00096	.00087	.00059	.00074	1.24193	.00181	.00124	.00289	.00301	.00262
7	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00430	.00233	.00121	.00163	.01401	1.13077	.00333	.01130	.00309	.00265
8		.02636	.03308	.03224	.02191	.04786	.03104	1.27216	.05103	.02280	.02845
9+10		.00412	.00880	.00230	.00619	.00584	.00184	.00151	.99308	.01263	.01310
11		—	—	—	—	—	—	—	—	1.00037	—
12		.03683	.02882	.04105	.02158	.04347	.01553	.04974	.02234	.01253	1.01224
13 14 15	Ordnance and accessories Food and kindred products Tobacco products	.00006	.00005	.00005 .04443	.00005 .01752	.00010 .00370 .00001	.00006	.00004	.00008	.00015 .00269	.00012 .00267
16	Broad and narrow fabrics, yarn and thread mills	.00306	.00535	.00278	.00327	.00096	.00527	.00037	.00086	.00270	.00256
17	Miscellaneous textile goods and floor coverings	.00327	.00271	.00643	.00356		.00047	.00030	.00051	.00349	.00379
18	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00037	.00033	.00028	.00036	.00020	.00038	.00012	.00018	.00031	.00031
19		.00099	.00186	.00146	.00304	.00023	.00020	.00016	.00019	.00085	.00099
20+21		.00904	.01081	.00560	.00448	.01151	.00655	.00530	.00363	.07672	.09503
22+23		.00013	.00010	.00008	.00008	.00016	.00012	.00007	.00015	.00344	.00051
24		.01751	.01099	.00808	.00818	.00558	.00380	.00290	.00536	.01257	.01042
25	Paperboard containers and boxes	.01006	.00952	.00522	.00775	.00255	.00172	.00090	.00194	.00403	.00375
26A	Newspapers and periodicals	.00483	.00255	.00249	.00334	.00241	.00198	.00208	.00402	.00347	.00334
26B	Other printing and publishing	.00941	.00541	.00565	.00614	.00496	.00404	.00386	.00515	.00701	.00655
27A	Industrial and other chemicals	.02003	.02493	.01169	.02287	.07453	.01844	.01912	.02909	.02104	.01979
27B	Agricultural fertilizers and chemicals	.03587	.08900	.02223	.08888	.00227	.00082	.00076	.00102	.00159	.00173
28	Plastics and synthetic materials	.00658	.00628	.00442	.00531	.00812	.00493	.00215	.00543	.00949	.00943
29A	Drugs	.00610	.00130	.00071	.00154	.00056	.00015	.00016	.00023	.00020	.00020
29B	Cleaning and toilet preparations	.00291	.00308	.00238	.00304	.00141	.00060	.00054	.00109	.00134	.00144
30	Paints and allied products	.00103	.00085	.00085	.00079	.00143	.00075	.00079	.00096	.01001	.01017
31	Petroleum refining and related products	.02599	.03031	.03808	.01823	.04517	.03592	.01385	.05663	.02439	.03267
32	Rubber and miscellaneous plastics products	.01891	.01193	.00772	.00775	.01907	.01664	.00388	.01946	.02635	.02740
33+34	Footwear, leather, and leather products	.00063	.00011	.00032	.00018	.00006	.00005	.00006	.00005	.00014	.00013
35	Glass and glass products	.00363	.00077	.00113	.00120	.00093	.00071	.00044	.00140	.00460	.00273
36	Stone and clay products	.00283	.00369	.00217	.00206	.01109	.00653	.00505	.04337	.05947	.03390
37	Primary iron and steel manufacturing	.00819	.00614	.00540	.00439	.05710	.02019	.02244	.02812	.03685	.03054
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00721 .00684 .00283 .00210 .00678	.00386 .00091 .00235 .00113	.00390 .00163 .00251 .00108 .00419	.00328 .00119 .00148 .00099 .00499	.00914 .00076 .01409 .00416 .00625	.00729 .00031 .00644 .00770 .00663	.00387 .00026 .00317 .00092 .00763	.00710 .00042 .00821 .00337 .00541	.02814 .00074 .05423 .00493 .02688	.02533 .00074 .04456 .00428 .02242
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00096 .00622 .00026 .00135 .00060	.00078 .00750 .00027 .00106 .00046	.00154 .00516 .00014 .00073 .00038	.00019 .00059	.00600 .03819 .00769 .00280 .00094	.00646 .03817 .00657 .00190 .00057	.00082 .00397 .00071 .00090 .00028	.00556 .03967 .01428 .00193 .00073	.00108 .00339 .00323 .00294 .00078	.00093 .00313 .00053 .00234 .00068

49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00211 .00307 .00142 .00081 .00174	.00184 .00295 .00107 .00064 .00133	.00163 .00188 .00103 .00091	.00102 .00190 .00099 .00062 .00093	.00832 .00676 .00144 .00094 .00456	.01281 .00829 .00096 .00068 .00476	.00248 .00322 .00091 .00081 .00193	.01113 .00504 .00136 .00081 .00589	.01027 .00450 .00185 .01242 .00950	.00539 .00340 .00159 .01198 .00767
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00018 .00164 .00052 .00317 .00441	.00015 .00122 .00041 .00250 .00493	.00016 .00136 .00040 .00214 .00225	.00012 .00128 .00036 .00214 .00227	.00022 .00125 .00045 .00266 .00141	.00014 .00126 .00028 .00198 .00117	.00019 .00113 .00035 .00145 .00062	.00015 .00088 .00037 .00251 .00183	.00242 .01848 .00479 .00527 .00309	.00282 .01680 .00342 .00456
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00021	.00018	.00021	.00019	.00026	.00028	.00008	.00029	.00023	.00024
59B		.00467	.00424	.00504	.00458	.00476	.00394	.00177	.00605	.00461	.00487
60		.00033	.00027	.00043	.00059	.00076	.00073	.00029	.00063	.00050	.00044
61		.00059	.00029	.00053	.00023	.00079	.00100	.00024	.00043	.00062	.00061
62		.00109	.00070	.00170	.00080	.00112	.00063	.00051	.00073	.00469	.00389
63	Ophthalmic and photographic equipment	.00082	.00061	.00058	.00087	.00070	.00060	.00059	.00054	.00108	.00095
64	Miscellaneous manufacturing	.00158	.00116	.00107	.00096	.00111	.00079	.00073	.00114	.00469	.00451
65A	Railroads and related services; passenger ground transportation	.02050	.00639	.00419	.00607	.01244	.03263	.00400	.00828	.00653	.00637
65B	Motor freight transportation and warehousing	.05211	.02887	.01539	.02594	.03316	.02368	.01020	.03208	.03743	.03542
65C	Water transportation	.00403	.00323	.01565	.00200	.00414	.00753	.00421	.00292	.00309	.00315
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00531	.00423	.00706	.01378	.00731	.00636	.00506	.00562	.00536	.00510
65E		.00539	.00319	.00385	.00371	.00457	.00419	.00219	.00423	.00341	.00356
65F		.00216	.00067	.00044	.00064	.00131	.00345	.00042	.00087	.00069	.00067
65G		.07896	.09331	.09439	.07759	.05891	.05271	.02344	.08840	.07006	.07743
66		.01355	.00991	.00840	.01012	.01034	.00719	.00789	.00977	.01314	.01313
67	Radio and TV broadcasting	.00329	.00167	.00166	.00221	.00162	.00131	.00143	.00190	.00236	.00229
68A	Electric services (utilities)	.03179	.01566	.00778	.01023	.09024	.02799	.02356	.04995	.01421	.01336
68B	Gas production and distribution (utilities)	.01076	.01301	.00779	.00794	.02486	.00966	.04496	.03386	.00946	.00920
68C	Water and sanitary services	.00265	.00333	.00140	.00135	.00133	.00089	.00143	.00128	.00161	.00164
69A	Wholesale trade	.12136	.07951	.04670	.06402	.06614	.05647	.02425	.06006	.07860	.07544
69B	Retail trade	.00379	.00280	.00471	.00252	.00479	.00315	.00423	.00535	.04137	.04609
70A	Finance	.02463	.01748	.01987	.01910	.02415	.01804	.01698	.02107	.02180	.02051
70B	Insurance	.01102	.00790	.01020	.00684	.00711	.00475	.00412	.00727	.01102	.00826
71A	Owner-occupied dwellings	—	—	—	—	—	—	—	—	—	—
71B	Real estate and royalties	.10825	.11358	.03190	.04103	.03542	.04157	.22709	.03380	.03217	.03122
72A	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00412	.00306	.00469	.00365	.00635	.00523	.00524	.00508	.00449	.00426
72B		.00307	.00275	.00236	.00422	.00245	.00164	.00180	.00193	.00276	.00275
73A		.00875	.00616	.00660	.00620	.01039	.00658	.00579	.01009	.00961	.00859
73B		.01766	.01487	.03322	.02490	.03432	.02761	.03685	.02266	.08662	.05138
73C		.03795	.03219	.03507	.03094	.03862	.02574	.02388	.02853	.05869	.05827
73D	Advertising	.00357	.00183	.00182	.00240	.00177	.00143	.00156	.00207	.00258	.00251
74	Eating and drinking places	.00477	.00345	.00571	.00475	.00826	.00642	.00597	.00694	.00553	.00533
75	Automotive repair and services	.01319	.01192	.00983	.01612	.01108	.00670	.00505	.00871	.01210	.01281
76	Amusements	.00318	.00206	.00312	.01041	.00166	.00155	.00162	.00164	.00215	.00211
77A	Health services	.01919	.00012	.00068	.00085	.00007	.00005	.00004	.00005	.00010	.00010
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00263 .00477 .01007 —	.00180 .00318 .00885 —	.00338 .00313 .00488 —	.00179 .00349 .00512 —	.00364 .00727 .01431 —	.00332 .00319 .00629 —	.00189 .00337 .01015 —	.00187 .00474 .00959 —	.00194 .00513 .00565 —	.00181 .00490 .00546 —
85 T	Inventory valuation adjustment Total industry output multiplier	2.83444	1.97416	1.96153	1.89402	2.26996	1.83723	1.96765	1.89246	2.14928	2.07321

Detailed Industry-by-Commodity Total Requirements
(Total requirements per dollar of delivery to final demand at producers' prices)

Industry	•	Ordnance and acces- sories	Food and kindred products	Tobacco products	Broad and narrow fab- rics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied prod- ucts, except containers
number	Commodity number	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20 + 21)	(22 + 23)	(24)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00068 .00126 .00066 .00163 .00370	0.25604 .16848 .00841 .02513 .00171	0.00091 .08842 .00039 .00670 .00031	0.01578 .09009 .00064 .00797 .00213	0.00762 .02371 .00086 .00316 .00270	0.00594 .02844 .00344 .00370 .00102	.00134	0.00573 .02859 .09624 .02118 .00117	0.00245 .00843 .00836 .00336 .00395	0.00327 .00595 .00817 .00315 .00175
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00300 .01193 .00128 — .01630	.00417 .02330 .00277 — .02471	.00184 .00820 .00118 — .00955	.00704 .03582 .00456 — .02554	.00633 .04067 .00511 — .02996	.00439 .02113 .00191 — .02045	.02497 .00262 —	.00329 .02357 .00197 — .02032	.00466 .01969 .00198 — .01833	.00995 .03633 .00698 — .03170
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.96874 .00270 — .00241 .00080	.00006 1.23598 .00001 .00244 .00181	.00003 .00243 1.09045 .00143	.00008 .00808 .00002 1.27721 .00433	.00010 .00788 .00002 .24693 .97617	.00007 .00612 .00001 .36495 .00470	.00006 .00947 .00001 .45425	.00006 .00831 — .00250 .00402	.00008 .00589 .06702 .02729	.00009 .01410 .00007 .00746 .00993
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00093 .00033 .00654 .00065 .00666	.00034 .00078 .00900 .00021 .04033	.00014 .00033 .00396 .00005 .02146	.01310 .00330 .00521 .00014 .01217	.00508 .00383 .00723 .00011 .03268	1.24581 .03781 .00435 .00015 .01120	.00110	.00045 .00052 1.41773 .00347 .01109	.00115 .00194 .11913 .99594 .02001	.00048 .00067 .11404 .00051 1.15790
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00436 .00379 .00582 .02192 .00160	.02853 .01148 .02005 .02619 .01680	.01425 .02452 .03477 .01119 .00794	.00591 .00366 .00667 .13773 .01295	.00776 .00595 .01117 .17442 .00898	.00536 .00660 .01059 .05286 .00456	.00443 .00935 .07809	.00680 .00418 .00744 .02184 .00712	.01960 .00587 .00947 .03353 .00230	.01966 .00491 .01739 .09024 .00372
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.01034 .00027 .00068 .00121 .00986	.00947 .00587 .00318 .00150 .01997	.00992 .00023 .00248 .00037 .00759	.18632 .00112 .00531 .00179 .02484	.26320 .00132 .00910 .00224 .02772	.07018 .00056 .00705 .00098 .01531	.00068 .00369	.01182 .00030 .00127 .00317 .02382	.03116 .00031 .00213 .01024 .01694	.04119 .00083 .00708 .00167 .02630
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.02448 .00007 .00161 .00439 .03533	.03301 .00024 .01397 .00251 .01311	.01085 .00006 .00040 .00096 .00222	.02369 .00050 .01094 .00236 .00533	.03624 .00022 .00356 .00669 .00725	.01879 .00738 .00362 .00163 .00418	.02772 .00489 .00237	.02390 .00031 .00573 .00830 .01335	.05774 .00158 .00667 .00689 .06435	.05501 .00011 .00165 .00570 .00827
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.04417 .00036 .00284 .01105 .01854	.01826 .03128 .00203 .00315 .00833	.00160 .00028 .00073 .00051 .00283	.00401 .00139 .00176 .00100 .00367	.00516 .00166 .00219 .00125 .00488	.00394 .00074 .00142 .00088 .00285		.00811 .00069 .01104 .00761 .01911	.02603 .00097 .00460 .01403 .05199	.00702 .00124 .00296 .00200 .01207
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00185 .00103 .00022 .00447 .00342	.00070 .00245 .00024 .00133 .00121	.00023 .00080 .00008 .00059 .00044	.00069 .00137 .00024 .00135 .00326	.00071 .00098 .00027 .00150 .01347	.00049 .00070 .00020 .00091 .00472	.00076 .00019 .00125	.00079 .00128 .00068 .00234 .00112	.00069 .00123 .00109 .00309 .00173	.00079 .00108 .00034 .00170 .00454

49	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.01494	.00219	.00049	.00124	.00180	.00108	.00127	.00402	.00438	.00212
50		.01134	.00299	.00103	.00451	.00472	.00280	.00373	.00470	.00578	.00506
51		.00774	.00143	.00099	.00151	.00171	.00149	.00133	.00136	.00141	.00186
52		.00053	.00079	.00044	.00067	.00080	.00058	.00081	.00197	.00181	.00098
53		.00905	.00175	.00097	.00140	.00191	.00123	.00133	.00185	.00244	.00191
54	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00018	.00015	.00006	.00019	.00020	.00014	.00043	.00316	.00050	.00040
55		.00196	.00125	.00081	.00095	.00098	.00069	.00074	.00295	.00126	.00149
56		.01324	.00043	.00026	.00038	.00044	.00039	.00036	.00045	.00048	.00043
57		.06715	.00296	.00165	.00276	.00308	.00307	.00255	.00293	.00309	.00311
58		.00158	.00201	.00081	.00105	.00088	.00080	.00079	.00123	.00089	.00099
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00020	.00019	.00006	.00013	.00014	.00010	.00010	.00046	.00029	.00018
59B		.00462	.00385	.00146	.00285	.00308	.00235	.00284	.00721	.00339	.00372
60		.10843	.00041	.00022	.00042	.00046	.00044	.00045	.00046	.00054	.00046
61		.00105	.00049	.00012	.00037	.00046	.00032	.00116	.00113	.00040	.00059
62		.05752	.00088	.00045	.00076	.00244	.00059	.00082	.00102	.00291	.00512
63	Ophthalmic and photographic equipment	.00111	.00096	.00084	.00099	.00128	.00094	.00091	.00089	.00112	.00290
64	Miscellaneous manufacturing	.00113	.00173	.00226	.00106	.00138	.01521	.00430	.00219	.00224	.00136
65A	Railroads and related services; passenger ground transportation	.00431	.01487	.00295	.01135	.01382	.00623	.00735	.01293	.00906	.01801
65B	Motor freight transportation and warehousing	.01996	.04510	.01355	.03455	.04470	.02843	.03467	.05140	.03620	.05767
65C	Water transportation	.00100	.00483	.00091	.00292	.00428	.00157	.00212	.00522	.00237	.00443
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00802	.00801	.00489	.00788	.00854	.00959	.00937	.00799	.00774	.00801
65E		.00241	.00443	.00165	.00402	.00479	.00332	.00368	.00457	.00347	.00515
65F		.00045	.00157	.00031	.00120	.00146	.00066	.00077	.00136	.00095	.00190
65G		.01382	.04782	.01393	.03050	.02057	.02591	.02168	.03727	.04592	.02015
66		.00933	.01178	.00812	.01018	.01256	.01091	.01061	.01034	.01163	.01079
67	Radio and TV broadcasting	.00262	.00829	.01818	.00254	.00421	.00475	.00311	.00277	.00415	.00334
68A	Electric services (utilities)	.01708	.02382	.00699	.04450	.03516	.02813	.02864	.02294	.02243	.03835
68B	Gas production and distribution (utilities)	.00768	.01432	.00387	.02159	.02398	.01472	.01637	.01075	.01194	.02738
68C	Water and sanitary services	.00122	.00221	.00074	.00237	.00289	.00154	.00200	.00185	.00173	.00383
69A	Wholesale trade	.05903	.11973	.03667	.09957	.09596	.09683	.09943	.11075	.11360	.09523
69B 70A 70B 71A	Retail trade Finance Insurance Owner-occupied dwellings	.00160 .01773 .00400	.00480 .02472 .00772	.00412 .01511 .00396	.00324 .02258 .00581	.00308 .02502 .00597	.00248 .02308 .00549	.00255 .02271 .00553	.00359 .02386 .00684	.00389 .02265 .00570	.00441 .02371 .00597
71B	Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.02455	.05308	.02445	.03585	.03354	.03813	.03962	.03108	.03218	.02891
72A		.00557	.00618	.00477	.00645	.00730	.00727	.00687	.00684	.00636	.00662
72B		.00260	.00369	.00214	.01024	.00850	.00597	.00550	.00397	.00354	.00568
73A		.01476	.00969	.00597	.01104	.01266	.00980	.00963	.00969	.00971	.01214
73B		.01710	.01795	.01844	.02411	.02949	.01945	.02055	.01987	.02195	.01949
73C		.03562	.04225	.03051	.04077	.04280	.08295	.03854	.03941	.04249	.04144
73D	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00285	.00899	.01968	.00277	.00457	.00519	.00338	.00302	.00452	.00363
74		.00741	.00764	.00580	.00860	.00938	.00989	.00941	.00905	.00867	.00841
75		.00605	.01207	.00607	.01156	.01237	.00886	.00904	.01248	.00933	.01393
76		.00212	.00569	.01063	.00224	.00321	.00370	.00247	.00266	.00304	.00284
77A		.00006	.00411	.00005	.00031	.00019	.00020	.00018	.00015	.00010	.00012
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00224 .00293 .00533	.00275 .00446 .00869 —	.00228 .00361 .00337 —	.00257 .00510 .01065 —	.00287 .00547 .01137 —	.00285 .00523 .00985 —	.00737 .00540 .01044 —	.00580 .00444 .00882 —	.00351 .00493 .00831 —	.00317 .00490 .01294 —
85 T	Inventory valuation adjustment Total industry output multiplier	 1.84510	2.63626	1.66096	2.45937	2.51451	2.49729	2.39384	 2.35202	 2.17889	2.25520

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

(Total Te	quirements per donar of delivery to final definant a	i producers	prices)					KLI. —	— value	too siiiai	i to report
Industry		Paperboard containers and boxes	News- papers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Drugs	Cleaning and toilet prepar- ations	Paints and allied products	Petroleum refining and related products
number	Commodity number	(25)	(26A)	(26B)	(27A)	(27B)	(28)	(29A)	(29B)	(30)	(31)
1	Livestock and livestock products	0.00188	0.00083	0.00106	0.00210	0.00505	0.00218	0.00232	0.00484	0.00353	0.00092
2	Other agricultural products	.00341	.00135	.00193	.01136	.00553	.01163	.00516	.00516	.00610	.00161
3	Forestry and fishery products	.00381	.00105	.00168	.00098	.00119	.00106	.00093	.00111	.00104	.00057
4	Agricultural, forestry, and fishery services	.00202	.00131	.00139	.00224	.00196	.00223	.00162	.00171	.00172	.00163
5+6	Metallic ores mining	.00197	.00050	.00088	.01452	.00474	.00678	.00098	.00289	.00701	.00168
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00710 .03214 .00407 — .02588	.00204 .01081 .00129 	.00317 .01625 .00203 — .01883	.00790 .13680 .03045 — .03370	.00683 .10958 .05925 — .03111	.00755 .07841 .01185 — .03344	.00240 .01386 .00177 — .01756	.00329 .03601 .00508 — .01978	.00443 .05426 .00991 — .02267	.00398 .78781 .00557 — .05246
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00008 .00850 .00003 .00400 .00458	.00005 .00346 .00001 .00123 .00129	.00006 .00453 .00001 .00329 .00249	.00050 .01794 .00016 .00182 .00072	.00011 .02416 .00002 .00119 .00066	.00020 .01010 .00005 .05498 .00383	.00006 .01228 .00001 .00133 .00092	.00030 .02016 .00002 .00286 .00196	.00016 .01820 .00004 .00773 .00083	.00006 .00409 .00001 .00071
18	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00038	.00018	.00027	.00029	.00029	.00050	.00024	.00043	.00028	.00022
19		.00043	.00023	.00052	.00031	.00029	.00034	.00025	.00078	.00026	.00031
20+21		.05208	.01371	.02056	.00659	.00621	.00733	.00461	.00687	.00454	.00637
22+23		.00028	.00010	.00018	.00012	.00011	.00013	.00010	.00016	.00018	.00010
24		.49162	.12015	.19353	.01618	.01556	.02929	.02100	.04697	.01250	.00612
25	Paperboard containers and boxes	1.00112	.00380	.01059	.00870	.00885	.00961	.01484	.04214	.00493	.00275
26A	Newspapers and periodicals	.00468	.98826	.04056	.00511	.00753	.00519	.02051	.02078	.00671	.00377
26B	Other printing and publishing	.01266	.16827	1.09323	.00899	.01734	.00911	.03163	.02933	.01149	.00667
27A	Industrial and other chemicals	.06857	.02242	.03900	1.10983	.20680	.48463	.05255	.17304	.31034	.05098
27B	Agricultural fertilizers and chemicals	.00252	.00088	.00139	.02583	1.01398	.02169	.00352	.00527	.00852	.00141
28	Plastics and synthetic materials	.02613	.00598	.01177	.06910	.02858	.89042	.01103	.02395	.12809	.00430
29A	Drugs	.00058	.00020	.00034	.00787	.01384	.00308	1.12308	.02378	.00212	.00035
29B	Cleaning and toilet preparations	.00369	.00111	.00172	.01433	.02991	.01348	.00841	.97670	.00808	.00425
30	Paints and allied products	.00448	.00050	.00079	.00745	.00215	.00583	.00073	.00228	.98672	.00106
31	Petroleum refining and related products	.02755	.00930	.01311	.09751	.04509	.04778	.01024	.03250	.04420	1.02730
32	Rubber and miscellaneous plastics products	.03691	.00977	.02557	.02517	.02341	.05992	.03038	.07280	.01944	.00903
33+34	Footwear, leather, and leather products	.00013	.00012	.00035	.00009	.00009	.00011	.00008	.00014	.00007	.00009
35	Glass and glass products	.00223	.00052	.00079	.00219	.00227	.00188	.00585	.00726	.00155	.00316
36	Stone and clay products	.00360	.00133	.00186	.00578	.00678	.00397	.00230	.00310	.01819	.00709
37	Primary iron and steel manufacturing	.01739	.00273	.00476	.01606	.01086	.00995	.00404	.00931	.01619	.01661
38	Primary nonferrous metals manufacturing	.01040	.00236	.00465	.01193	.00766	.00693	.00350	.00985	.02293	.00464
39	Metal containers	.00206	.00035	.00068	.00815	.00767	.00394	.00242	.01319	.04024	.00161
40	Heating, plumbing, and fabricated structural metal products	.00228	.00110	.00148	.00295	.00246	.00251	.00129	.00176	.00183	.00316
41	Screw machine products and stampings	.00239	.00070	.00108	.00158	.00151	.00141	.00194	.00236	.00151	.00105
42	Other fabricated metal products	.01790	.00303	.00573	.01102	.00734	.00720	.00320	.00700	.00602	.00705
43	Engines and turbines	.00074	.00032	.00049	.00100	.00107	.00085	.00032	.00050	.00071	.00084
44+45	Farm, construction, and mining machinery	.00085	.00034	.00081	.00243	.00326	.00140	.00041	.00072	.00110	.00288
46	Materials handling machinery and equipment	.00029	.00011	.00016	.00062	.00107	.00038	.00016	.00023	.00031	.00058
47	Metalworking machinery and equipment	.00211	.00055	.00101	.00215	.00110	.00177	.00065	.00126	.00140	.00103
48	Special industry machinery and equipment	.00682	.00149	.00543	.00702	.00172	.00397	.00082	.00188	.00216	.00055

49	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00191	.00064	.00100	.00238	.00255	.00212	.00138	.00124	.00164	.00218
50		.00536	.00157	.00278	.00640	.00337	.00540	.00183	.00343	.00331	.00348
51		.00169	.00221	.00196	.00201	.00190	.00200	.00153	.00150	.00152	.00175
52		.00079	.00045	.00053	.00125	.00085	.00099	.00048	.00145	.00068	.00094
53		.00188	.00084	.00122	.00275	.00203	.00216	.00103	.00185	.00174	.00193
54	Household appliances	.00025	.00011	.00014	.00028	.00018	.00021	.00010	.00016	.00015	.00022
55	Electric lighting and wiring equipment	.00108	.00060	.00106	.00121	.00105	.00133	.00078	.00121	.00477	.00126
56	Audio, video, and communication equipment	.00044	.00045	.00069	.00047	.00046	.00050	.00040	.00042	.00041	.00047
57	Electronic components and accessories	.00313	.00292	.00307	.00332	.00320	.00331	.00299	.00281	.00294	.00251
58	Miscellaneous electrical machinery and supplies	.00091	.00093	.00088	.00092	.00097	.00091	.00062	.00081	.00083	.00085
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00018	.00010	.00011	.00015	.00018	.00015	.00010	.00012	.00014	.00012
59B		.00372	.00233	.00253	.00322	.00398	.00327	.00190	.00225	.00290	.00268
60		.00052	.00031	.00039	.00074	.00046	.00055	.00034	.00041	.00045	.00033
61		.00058	.00022	.00029	.00057	.00070	.00059	.00020	.00037	.00070	.00041
62		.00271	.00129	.00232	.00244	.00151	.00153	.00513	.00146	.00129	.00084
63	Ophthalmic and photographic equipment	.00174	.00390	.00988	.00258	.00174	.00157	.00185	.00141	.00626	.00083
64	Miscellaneous manufacturing	.00129	.00193	.00363	.00145	.00134	.00133	.00264	.00287	.00124	.00106
65A	Railroads and related services; passenger ground transportation	.02060	.00633	.00908	.01635	.02126	.01739	.00499	.01042	.02443	.00642
65B	Motor freight transportation and warehousing	.07535	.02214	.03532	.04775	.08874	.04919	.01562	.03313	.05468	.01794
65C	Water transportation	.00305	.00091	.00148	.00660	.00782	.00665	.00111	.00333	.00647	.00870
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00978	.00667	.00747	.00788	.00763	.00854	.00653	.00735	.00738	.00562
65E		.00601	.00237	.00322	.00894	.00744	.00661	.00218	.00410	.00616	.03517
65F		.00217	.00067	.00096	.00172	.00224	.00183	.00053	.00110	.00258	.00068
65G		.01790	.01059	.01987	.01997	.01943	.01996	.01329	.01537	.01461	.02515
66		.01243	.01362	.01162	.01134	.01218	.01400	.01216	.01256	.01157	.01083
67	Radio and TV broadcasting	.00275	.00784	.00414	.00354	.00521	.00360	.01499	.01530	.00480	.00261
68A	Electric services (utilities)	.03008	.01188	.01803	.03897	.03190	.04021	.01398	.01798	.02378	.02843
68B	Gas production and distribution (utilities)	.01921	.00644	.01045	.04692	.04480	.03748	.00858	.01473	.02118	.12709
68C	Water and sanitary services	.00271	.00104	.00153	.00469	.00419	.00445	.00159	.00209	.00349	.00251
69A	Wholesale trade	.11632	.04966	.06892	.09230	.09364	.09928	.09166	.08890	.09198	.06602
69B	Retail trade	.00348	.00217	.00239	.00363	.00386	.00366	.00250	.00529	.00263	.00431
70A	Finance	.02496	.01817	.01957	.02488	.02915	.02659	.01927	.02181	.02437	.02687
70B	Insurance	.00627	.00447	.00491	.00611	.00668	.00608	.00415	.00497	.00561	.00551
71A	Owner-occupied dwellings	—	—	—	—	—	—	—	—	—	—
71B	Real estate and royalties	.03031	.05561	.04646	.05148	.04587	.04084	.02870	.03451	.03285	.15857
72A	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00726	.00549	.00589	.00672	.00699	.00725	.00579	.00638	.00693	.00554
72B		.00524	.00240	.00325	.00488	.00534	.00608	.00263	.00318	.00347	.00381
73A		.01197	.01409	.01059	.01273	.01392	.01436	.00961	.00997	.01041	.01200
73B		.01799	.02513	.01593	.04850	.03744	.05514	.04509	.03380	.03574	.04105
73C		.04282	.05777	.03964	.04526	.05252	.04728	.05541	.04831	.03800	.03606
73D	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00300	.00852	.00450	.00386	.00567	.00393	.01625	.01658	.00522	.00285
74		.00916	.00670	.00739	.00836	.00855	.00906	.00703	.00787	.00850	.00722
75		.01431	.00742	.00982	.01194	.01490	.01347	.00652	.00851	.01019	.00849
76		.00258	.00526	.00317	.00297	.00373	.00318	.00914	.00933	.00379	.00243
77A		.00011	.00009	.00007	.00010	.00017	.00011	.00010	.00014	.00012	.00006
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00280 .00477 .00989 —	.00241 .01179 .00616 —	.00284 .00612 .00754 —	.00282 .00526 .01383 —	.00322 .00479 .01344 —	.00397 .00531 .01362 —	.00586 .00372 .00511 —	.00384 .00467 .00672 —	.00264 .00429 .00919 —	.00285 .00459 .01415 —
85 T	Inventory valuation adjustment Total industry output multiplier	2.44580	1.79604	1.95466	2.32998	2.35537	 2.45593	1.85869	2.09752	2.30827	2.73243

Detailed Industry-by-Commodity Total Requirements
(Total requirements per dollar of delivery to final demand at producers' prices)

Industry		Rubber and miscella- neous plastics products	Footwear, leather, and leather products		Stone and clay products	Primary iron and steel manu- facturing		Metal containers	Heating, plumb- ing, and fabri- cated structural metal products		Other fabri- cated metal
number	Commodity number	(32)	(33 + 34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00177 .00647 .00728 .00290 .00293	0.04878 .02940 .00177 .00521 .00148	.00192 .00189 .00154	0.00095 .00196 .00098 .00149 .00252	0.00074 .00128 .00071 .00134 .04732	0.00089 .00189 .00119 .00169 .06971	0.00101 .00174 .00083 .00143 .03346	0.00078 .00131 .00070 .00121 .01616	0.00075 .00121 .00062 .00109 .01449	.00150 .00085 .00126
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00533 .03470 .00489 — .02459	.00353 .02572 .00280 — .02513	.01177 .03276 .01500 — .02360	.01382 .04230 .08470 — .02615	.03182 .03342 .00680 — .02825	.00867 .03087 .00275 — .02759	.01117 .02924 .00313 — .02720	.00869 .02098 .00261 — .01926	.00963 .01981 .00258 — .02610	_
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00010 .00621 .00002 .02619 .01330	.00007 .16607 .00001 .05395 .03153	.00007 .00362 .00001 .00161 .00092	.00007 .00399 .00001 .00574 .00067	.00030 .00317 — .00106 .00058	.00038 .00372 .00001 .00253 .00074	.00022 .00468 .00001 .00169 .00063	.00036 .00337 .00133 .00064	.00071 .00318 — .00142 .00069	.00021 .00343 .00001 .00263
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00102 .00101 .00971 .00078 .03864	.00858 .00246 .00602 .00027 .02462	.00024 .00029 .02758 .00607 .03049	.00031 .00039 .01168 .00036 .02163	.00033 .00028 .00815 .00044 .00661	.00036 .00029 .01128 .00036 .00797	.00037 .00031 .00825 .00087 .01469	.00030 .00028 .00857 .00108 .00931	.00030 .00059 .00661 .00077 .01085	.00077 .00819 .00222
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01987 .00462 .00831 .15899 .00614	.01083 .01118 .02134 .07408 .00504	.04791 .00345 .00615 .06027 .00181	.00612 .00434 .00721 .04814 .00153	.00255 .00420 .00901 .02778 .00098	.00429 .00368 .00725 .06436 .00176	.00892 .00467 .02968 .04824 .00149	.00729 .00442 .00779 .03139 .00109	.00809 .00492 .00848 .02274 .00087	.00874 .00509 .00959 .03522 .00127
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.17988 .00112 .00476 .00272 .02487	.02899 .00140 .00710 .00120 .02106	.00341 .00189	.01250 .00041 .00389 .00288 .03341	.00505 .00023 .00091 .00129 .02213	.02473 .00030 .00116 .00118 .02272	.01482 .00031 .00120 .02427 .02136	.00948 .00024 .00095 .00622 .01585	.00879 .00019 .00092 .00352 .01451	.00027
32 33 + 34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	1.03609 .00050 .00781 .00535 .01574	.05507 1.24099 .00293 .00302 .00769	.03549 .00008 1.07235 .02182 .00897	.01809 .00008 .00387 1.09452 .02163	.01198 .00009 .00098 .02442 1.22140	.02618 .00008 .00662 .00776 .04462	.01790 .00009 .00288 .00923 .24830	.02408 .00015 .00756 .00908 .24290	.01912 .00012 .00325 .01018 .27531	.00023 .00252
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.00879 .00164 .00625 .00455 .01318	.00617 .00441 .00188 .00211 .01330	.01046 .00074 .00345 .00280 .00480	.00830 .00070 .00393 .00324 .01191	.04994 .00050 .00417 .00740 .02557	1.43023 .00073 .00504 .00378 .01584	.50528 1.07775 .00597 .00524 .02777	.13982 .00077 1.00446 .01747 .04752	.08939 .00065 .00859 .97677 .03765	.01229 .02623
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00090 .00092 .00038 .00365 .00499	.00048 .00090 .00020 .00119 .00162	.00042 .00605	.00132 .00424 .00139 .00475 .00079	.00232 .00464 .00111 .01171 .00137	.00139 .00302 .00098 .01428 .00235	.00125 .00226 .00067 .00895 .00148	.00331 .00124 .01163	.00312 .01189 .00053 .02609 .00109	.00539 .00078 .01159

49	General industrial machinery and equipment	.00211	.00110	.00155	.00367	.02450	.01187	.00932	.01149	.01028	.00948
50 51	Miscellaneous machinery, except electrical Computer and office equipment	.00898 .00178	.00417 .00178	.00698 .00142	.00519 .00185	.01100 .00214	.00910 .00207	.01003 .00204	.01471 .00171	.02699 .00210	.01950 .00207
52 53	Service industry machinery Electrical industrial equipment and apparatus	.00091	.00066	.00072	.00083	.00143	.00081	.00089	.00537	.00208	.00196 .00955
54	Household appliances	.00020	.00014	.00099	.00017	.00027	.00024	.00021	.00084	.00174	.00024
55 56	Electric lighting and wiring equipment Audio, video, and communication equipment	.00160 .00043	.00112	.00254 .00036	.00133 .00067	.00239	.00266 .00055	.00189 .00052	.00137 .00096	.00174 .00096	.00266 .00054
57 58	Electronic components and accessories Miscellaneous electrical machinery and supplies	.00407	.00301	.00267	.00287	.00413	.00684	.00490	.00411	.00541	.00630
59A	Motor vehicles (passenger cars and trucks)	.00017	.00090	.00069	.00130	.00025	.00798	.00020	.00135	.00191	.00038
59B 60	Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts	.00299 .00084	.00284	.00296 .00038	.00561 .00043	.00407 .00068	.00489 .00074	.00417 .00067	.00421 .00097	.00815 .00082	.00370 .00307
61	Other transportation equipment	.00064	.00026	.00060	.00077	.00083	.00057	.00056	.00282	.00062	.00043
62 63	Scientific and controlling instruments Ophthalmic and photographic equipment	.00196 .00191	.00107 .00091	.00196 .00082	.00117	.00238	.00131	.00131 .00129	.00412	.00213 .00106	.00496 .00092
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transporta-	.00249	.00436	.00093	.00186	.00113	.00114 .01736	.00118	.00134 .01171	.00134 .01226	.00265
	tion										
65B 65C	Motor freight transportation and warehousing Water transportation	.05682 .00434	.03788 .00189	.03419 .00541	.10027 .01303	.05181 .00921	.06486 .00413	.06124 .00452	.04244 .00319	.04275 .00352	.03663 .00309
65D 65E	Air transportation Pipelines, freight forwarders, and related services	.00805 .00504	.00894 .00384	.00634 .00380	.00663 .00718	.00845 .00506	.00930 .00536	.00976 .00530	.00789 .00379	.00806 .00380	.00736 .00345
65F	State and local passenger transit	.00142	.00073	.00203	.00199	.00250	.00183	.00180	.00123	.00129	.00103
65G 66	In-house transportation Communications, except radio and TV	.02265 .01148	.04359 .01278	.03023 .00951	.03787 .01200	.02954 .01078	.02458 .01208	.02235 .01266	.02332 .01151	.01972 .01043	.02008 .01120
67 68A	Radio and TV broadcasting Electric services (utilities)	.00319 .03361	.00819 .02164	.00239 .03729	.00291 .03882	.00287 .05256	.00251 .06021	.00304 .04702	.00306 .02832	.00345 .03104	.00360 .03017
68B	Gas production and distribution (utilities)	.01887	.01479	.03034	.03652	.03228	.02277	.02328	.01637	.01658	.01718
68C 69A	Water and sanitary services Wholesale trade	.00240 .08614	.00599 .09687	.00189 .07588	.00233 .06783	.00438 .11936	.00294 .15516	.00298 .16157	.00213 .11546	.00601 .10966	.00234 .10187
69B 70A	Retail trade Finance	.00371 .02362	.00312 .02243	.00508 .01992	.00413 .02309	.00303 .02484	.00296 .02575	.00325 .02878	.00275 .02221	.00293 .02343	.00268 .02169
70B	Insurance	.00555	.00666	.00494	.00693	.00592	.00625	.00671	.00517	.00538	.00495
71A 71B	Owner-occupied dwellings Real estate and royalties	.03385	.03455	.02686	.03324	.02891	.03161	.03363	.03173	.02942	.02917
72A 72B	Hotels and lodging places Personal and repair services (except auto)	.00659 .00467	.00660 .00374	.00569 .00460	.00608 .00506	.00657 .00717	.00744 .00524	.00858 .00627	.00667 .00390	.00643 .00519	.00636 .00429
73A	Computer and data processing services	.01169	.01435	.01072	.01157	.01556	.01311	.01431	.01135	.01252	.01182
73B 73C	Legal, engineering, accounting, and related services Other business and professional services, except medical	.02800 .04075	.01893 .03982	.01669 .03519	.02112 .04122	.02062 .04761	.02061 .04434	.02228 .04817	.01864 .04947	.02286 .04583	.02047 .04179
73D 74	Advertising Eating and drinking places	.00347 .00852	.00889 .00959	.00261 .00762	.00317 .00799	.00313 .00852	.00274 .00969	.00331 .01097	.00334 .00896	.00376 .00869	.00392 .00853
75 76	Automotive repair and services	.01176	.00932	.01073	.01469	.01540	.01354	.01524	.01029 .00252	.01205	.01050
76 77A	Amusements Health services	.00276 .00010	.00500	.00203 .00007	.00238 .00010	.00251 .00009	.00244 .00009	.00306 .00009	.00252	.00286 .00008	.00273 .00007
77B	Educational and social services, and membership organizations	.00562	.00240	.00209	.00228	.00254	.00299	.00358	.00277	.00456	.00268
78	Federal Government enterprises	.00469	.00590	.00455	.00477	.00588	.00620	.00566	.00470	.00486	.00461
79 82	State and local government enterprises General government industry	.00949	.01427	.00922	.01368 —	.01441	.01422	.01229 —	.00908	.01281 —	.00935
84 85	Household industry Inventory valuation adjustment	_	_	_		_	_	_	_	_	_
T	Total industry output multiplier	2.21658	2.45659	1.94988	2.09823	2.24956	2.51833	2.85776	2.22372	2.19537	2.10678

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

(1010111		produ	oro prico	-,					·		TO TOPOIL
Industry		Engines and turbines	Farm, con- struction, and mining machinery	Materials handling machinery and equip- ment	Metal- working ma- chinery and				Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus
number	Commodity number	(43)	(44 + 45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00076 .00118 .00057 .00135 .01102	0.00081 .00136 .00089 .00133 .00905	0.00073 .00115 .00071 .00113 .00947	.00076 .00113 .00738	.00124 .00088 .00123 .00799	.00135 .00072 .00134 .00760	0.00063 .00097 .00045 .00118 .00897	0.00076 .00117 .00056 .00131 .00262	0.00081 .00144 .00096 .00124 .00946	0.00076 .00130 .00075 .00145 .00908
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00730 .01626 .00224 — .02144	.00669 .01676 .00197 — .01904	.00632 .01669 .00178 — .01786	.00543 .01521 .00319 — .01830	.01455 .00171 —	.00565 .01556 .00175 — .01790	.00537 .01367 .00157 — .01853	.00265 .01001 .00101 — .02134	.00527 .01592 .00216 — .02063	.00498 .01845 .00393 — .01846
13 14 15	Ordnance and accessories Food and kindred products Tobacco products	.00062 .00313	.00020	.00151 .00300	.00077	.00033	.00034 .00306	.00038 .00254	.00015 .00315	.00127 .00351 —	.00017
16 17	Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00152 .00081	.00202 .00124	.00159 .00123	.00157 .00066	.00170 .00105	.00333 .00793	.00122 .00183	.00137 .00065	.00212 .00122	.00190 .00090
18 19 20 + 21 22 + 23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00078 .00034 .00492 .00034 .00793	.00036 .00031 .00698 .00069 .00875	.00032 .00027 .00653 .00312 .00814	.00036 .00023 .00844 .00026 .00857	.00027 .00888	.00035 .00026 .00610 .00023 .01402	.00022 .00021 .00440 .00026 .00669	.00034 .00030 .00467 .00075 .01174	.00038 .00027 .00914 .00119 .01585	.00030 .00025 .00625 .00029 .01525
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.00417 .00397 .00721 .01567 .00072	.00467 .00529 .00872 .02081 .00089	.00346 .00499 .00839 .01541 .00074	.00643 .00431 .00708 .02197 .00086	.00418 .00505 .00887 .01703 .00076	.00721 .00530 .00850 .01671 .00113	.00453 .00471 .00719 .01238 .00057	.00711 .00704 .01098 .01502 .00075	.00759 .00555 .00877 .02360 .00104	.00676 .00601 .00903 .02102 .00091
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.00764 .00014 .00070 .00263 .01267	.01219 .00017 .00080 .00503 .01318	.00822 .00014 .00069 .00254 .01361	.01006 .00018 .00074 .00292 .01185	.00871 .00020 .00075 .00146 .01173	.01183 .00014 .00081 .00161 .01219	.00584 .00010 .00052 .00120 .01040	.00831 .00015 .00082 .00144 .00843	.01525 .00024 .00165 .00459 .01245	.01330 .00019 .00151 .00351 .01581
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.02581 .00008 .00130 .01212 .19707	.05544 .00009 .00193 .00768 .17579	.03209 .00008 .00131 .00754 .17413	.04039 .00006 .00133 .01740 .12500	.00014 .00198 .00784	.04051 .00007 .00120 .00853 .12458	.01433 .00006 .00120 .00826 .11330	.02865 .00007 .00390 .00323 .01905	.04202 .00008 .00197 .01179 .10468	.04078 .00007 .00179 .03693 .08375
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.07085 .00045 .01927 .04286 .04392	.04035 .00059 .05167 .02150 .02990	.06047 .00045 .02537 .03483 .03616	.05962 .00045 .01669 .03748 .02505	.01454 .03899	.05925 .00040 .01895 .01627 .02647	.10010 .00030 .01244 .01721 .03446	.03490 .00043 .01106 .01470 .01934	.11125 .00061 .01498 .03846 .02836	.09054 .00051 .00818 .02224 .01960
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.95752 .00861 .00051 .01178 .00104	.05151 1.01091 .00307 .01801 .00294	.01023 .01920 .95524 .01344 .01251	.00251 .00626 .00147 .93813 .00630	.00206 .02058	.01046 .00649 .00330 .01207 .00872	.00500 .00548 .00090 .02774 .00327	.00102 .00069 .00028 .00268 .00106	.00368 .00223 .00076 .00962 .00466	.02692 .00238 .00134 .00762 .00123

49	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.03794	.04009	.07149	.01833	.04081	1.02921	.02360	.00214	.03163	.01286
50		.05389	.03752	.03857	.04326	.04645	.04069	1.00258	.00567	.02961	.01863
51		.00288	.00204	.00185	.00180	.00314	.00212	.00227	1.15103	.00236	.00544
52		.00125	.00127	.00221	.00087	.00434	.00533	.00127	.00074	1.04822	.00103
53		.04653	.01482	.03679	.02553	.04294	.04725	.00738	.02444	.06215	1.00747
54	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00051	.00042	.00043	.00118	.00049	.00085	.00022	.00029	.00822	.00670
55		.00190	.00162	.00204	.00281	.00192	.00181	.00728	.00428	.00882	.01099
56		.00112	.00062	.00122	.00057	.00069	.00057	.00045	.01250	.00099	.00251
57		.00979	.00505	.00566	.00480	.01451	.00744	.00732	.34505	.00817	.03915
58		.01231	.00708	.00495	.00272	.00209	.00214	.00221	.00194	.00185	.00339
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00207	.00147	.00067	.00102	.00027	.00028	.00051	.00025	.00056	.00038
59B		.04281	.01153	.00878	.00506	.00275	.00532	.00521	.00330	.00939	.00501
60		.06132	.00395	.00130	.00156	.00128	.00207	.00504	.00066	.00131	.00127
61		.00305	.00264	.00175	.00072	.00070	.00050	.00189	.00033	.00052	.00311
62		.01255	.00227	.00426	.00378	.00632	.00584	.00330	.00529	.01857	.00826
63	Ophthalmic and photographic equipment	.00093	.00094	.00091	.00084	.00139	.00129	.00092	.01532	.00109	.00100
64	Miscellaneous manufacturing	.00101	.00203	.00156	.00124	.00118	.00173	.00095	.00168	.00176	.00123
65A	Railroads and related services; passenger ground transportation	.00798	.00832	.00746	.00662	.00650	.00642	.00664	.00429	.00760	.00801
65B	Motor freight transportation and warehousing	.04119	.03931	.03197	.02902	.02875	.02751	.02604	.01460	.03225	.02903
65C	Water transportation	.00237	.00275	.00210	.00205	.00184	.00187	.00186	.00105	.00211	.00270
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.01101	.00942	.00872	.00698	.00899	.00825	.00762	.01110	.00851	.00816
65E		.00389	.00367	.00322	.00280	.00301	.00290	.00272	.00259	.00322	.00315
65F		.00084	.00087	.00079	.00070	.00068	.00068	.00070	.00045	.00080	.00084
65G		.01819	.02378	.02662	.01856	.01732	.02121	.01825	.01536	.02109	.01758
66		.01075	.01156	.01206	.01111	.01275	.01224	.00942	.01438	.01162	.01206
67	Radio and TV broadcasting	.00277	.00374	.00354	.00304	.00357	.00380	.00330	.00493	.00393	.00427
68A	Electric services (utilities)	.02502	.02349	.02162	.02285	.02141	.02374	.02370	.01752	.02320	.02339
68B	Gas production and distribution (utilities)	.01281	.01297	.01239	.01143	.01067	.01197	.01114	.00653	.01181	.01241
68C	Water and sanitary services	.00215	.00182	.00168	.00161	.00148	.00165	.00143	.00120	.00250	.00158
69A	Wholesale trade	.11066	.12456	.13427	.08348	.11324	.10474	.07529	.16482	.12157	.11324
69B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	.00240	.00239	.00214	.00196	.00208	.00215	.00191	.00237	.00282	.00262
70A		.02250	.02246	.02081	.01892	.01981	.02030	.01876	.02374	.02254	.02225
70B		.00508	.00525	.00509	.00444	.00443	.00465	.00420	.00485	.00507	.00455
71A		—	—	—	—	—	—	—	—	—	—
71B		.02661	.02603	.02811	.02783	.03016	.02594	.03005	.03736	.02598	.02755
71B 72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00680 .00431 .01447 .01698 .04086	.02603 .00673 .00390 .01260 .02109 .04055	.00612 .00336 .01023 .02196 .03915	.00575 .00311 .00961 .01940 .03542	.00620 .00306 .00974 .02228 .03717	.00612 .00371 .01085 .01989	.00567 .00306 .00867 .01873 .04007	.00716 .00294 .01959 .02815 .04383	.00659 .00353 .01245 .02012	.02733 .00613 .00346 .01006 .01727 .03929
73D	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00302	.00407	.00385	.00331	.00388	.00413	.00359	.00536	.00428	.00464
74		.00904	.00898	.00845	.00825	.00868	.00852	.00750	.00872	.00882	.00834
75		.01026	.00989	.00870	.00835	.00794	.00890	.00771	.00750	.00899	.00844
76		.00254	.00306	.00269	.00231	.00280	.00280	.00261	.00389	.00315	.00310
77A		.00007	.00007	.00007	.00006	.00006	.00007	.00007	.00007	.00007	.00007
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00269 .00446 .00850 —	.00253 .00488 .00780 —	.00223 .00454 .00915 —	.00229 .00390 .00822 —	.00214 .00466 .00742 —	.00229 .00431 .00841 —	.00207 .00356 .00866 —	.00336 .00411 .00594 —	.00332 .00394 .00831 —	.00246 .00434 .00725 —
85 T	Inventory valuation adjustment Total industry output multiplier	2.25330	2.20880	2.15032	1.90113	2.04188	2.04438	 1.88798	2.30833	2.21198	 2.04619

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

(Total requirements per dollar of delivery to final definant at producers prices)										1 to Topolt	
Industry		House- hold appli- ances	and wiring	Audio, video, and communi- cation equipment	Electronic components and accessories	machinery	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Other trans- portation equip- ment	Scientific and controlling instruments
number	Commodity number	(54)	(55)	(56)	(57)	(58)	(59A)	(59B)	(60)	(61)	(62)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00103 .00215 .00131 .00160 .00868	0.00082 .00154 .00078 .00126 .00723	0.00069 .00116 .00064 .00116 .00353	0.00071 .00128 .00057 .00162 .00369	0.00091 .00178 .00098 .00176 .00710	0.00130 .00304 .00123 .00153 .00743	.00162 .00096 .00140 .01684	0.00081 .00140 .00055 .00156 .00443	0.00086 .00179 .00188 .00159 .00626	0.00089 .00160 .00061 .00128 .00298
7 8 9+10 11 12	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00581 .02206 .00442 — .02126	.00482 .01816 .00284 — .01851	.00251 .00929 .00098 — .01864	.00344 .01203 .00156 — .02578	.00418 .01690 .00191 — .02042	.00508 .01973 .00228 — .02236	.00712 .01934 .00238 — .02414	.00305 .01119 .00120 — .02015	.00487 .01528 .00162 — .01646	.00302 .00964 .00113
13 14 15 16	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills	.00061 .00422 .00001 .00530 .00210	.00012 .00344 — .00311 .00100	.00259 .00282 — .00215 .00097	.00038 .00295 — .00136 .00062	.00250 .00376 .00001 .00340 .00163	.00038 .00454 .00001 .01990 .01122	.00035 .00368 — .00299 .00189	.04021 .00316 — .00431 .00120	.00019 .00314 — .00489	.01235 .00339 .00692 .00590
18 19 20+21 22+23 24	Miscellaneous textile goods and floor coverings Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00210 .00041 .00066 .00855 .00257 .03308	.00100 .00032 .00027 .00667 .00210 .02319	.00097 .00026 .00024 .00556 .01161 .01295	.00082 .00024 .00511 .00128 .01039	.00034 .00030 .00583 .00043	.00188 .02529 .00863 .01753 .01353	.00169 .00041 .00133 .00866 .00130	.00120 .00047 .00188 .00417 .00103 .00657	.00454 .00054 .00469 .02351 .00210 .00756	.00106 .00133 .00511 .00098 .01530
25 26A 26B 27A 27B	Paperboard containers and boxes Newspapers and periodicals Other printing and publishing Industrial and other chemicals Agricultural fertilizers and chemicals	.01545 .01039 .01462 .04965 .00198	.01815 .00830 .01156 .03272 .00137	.00545 .00503 .00800 .01613 .00074	.00485 .00619 .00907 .02707 .00101	.01578 .00592 .00938 .04037 .00161	.00735 .00715 .01165 .03859 .00162	.00840 .00906 .01320 .03074 .00121	.00273 .00403 .00692 .01525 .00081	.00366 .00447 .00729 .01911 .00097	.00730 .00674 .00994 .01744 .00084
28 29A 29B 30 31	Plastics and synthetic materials Drugs Cleaning and toilet preparations Paints and allied products Petroleum refining and related products	.04511 .00049 .00284 .00925 .01751	.03094 .00028 .00236 .00155 .01411	.01089 .00016 .00103 .00105 .00762	.01032 .00022 .00092 .00105 .00940	.02853 .00031 .00159 .00124 .01321	.02648 .00033 .00154 .01457 .01643	.01786 .00024 .00109 .00696 .01519	.01166 .00030 .00066 .00313 .00968	.01448 .00017 .00080 .00701 .01284	.01329 .00279 .00120 .00111 .00798
32 33+34 35 36 37	Rubber and miscellaneous plastics products Footwear, leather, and leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing	.10798 .00012 .00459 .01209 .10945	.05000 .00008 .02848 .01621 .07918	.03197 .00008 .00397 .00274 .02253	.02692 .00008 .01242 .00429 .02590	.07900 .00010 .00294 .00537 .04540	.08725 .00092 .01401 .00760 .08197	.04416 .00015 .00357 .01021 .15007	.03073 .00015 .00190 .00566 .03111	.03545 .00021 .00825 .00641 .10217	.03108 .00024 .00614 .00403 .02797
38 39 40 41 42	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.08456 .00101 .00975 .03716 .02590	.08975 .00055 .00308 .03098 .02933	.03989 .00035 .00864 .01532 .02031	.05248 .00044 .00772 .01477 .04253	.09484 .00060 .00750 .01549 .02852	.05703 .00116 .01022 .10030 .03567	.13548 .00075 .02624 .05288 .02776	.05590 .00042 .00430 .01489 .02693	.04453 .00062 .02670 .01692 .02830	.03307 .00061 .00965 .01536 .02466
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00215 .00178 .00043 .01057 .00297	.00154 .00458 .00038 .00676 .00137	.00053 .00070 .00021 .00280 .00093	.00061 .00086 .00023 .00397 .00226	.00130 .00110 .00032 .00528 .00153	.01573 .00278 .00050 .00738 .00147	.00645 .00411 .00071 .00851 .00140	.00262 .00105 .00024 .01445 .00089	.04540 .01248 .00085 .00567 .00093	.00077 .00086 .00019 .00382 .00112

49	General industrial machinery and equipment	.00915	.00446	.00210	.00237	.00695	.01060	.02570	.00600	.02843	.00307
50	Miscellaneous machinery, except electrical	.00858	.00885	.00592	.00837	.02076	.02517	.04976	.02126	.01689	.00791
51	Computer and office equipment	.00407	.00313	.03000	.09216	.03254	.00534	.00515	.00813	.00205	.02432
52	Service industry machinery	.02755	.00089	.00090	.00091	.00097	.02022	.01391	.00058	.00491	.00072
53	Electrical industrial equipment and apparatus	.05145	.04009	.00645	.00687	.02036	.00606	.00707	.00519	.03428	.01367
54	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.95433	.00124	.00035	.00019	.00054	.00057	.00060	.00018	.00600	.00029
55		.01561	.96479	.01005	.00611	.00508	.00823	.00491	.00147	.00481	.00498
56		.01830	.00441	.99632	.01868	.01179	.01334	.00240	.01228	.00161	.02197
57		.02702	.02226	.27490	1.12852	.11543	.03900	.03895	.04063	.00732	.11361
58		.00249	.00795	.01157	.00272	.92072	.02267	.02234	.00238	.00620	.00913
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00049	.00044	.00025	.00026	.00035	1.00448	.03658	.00026	.02417	.00024
59B		.00309	.00313	.00574	.00645	.02752	.29872	1.03858	.00278	.03496	.00240
60		.00147	.00068	.00219	.00065	.00168	.00237	.00266	1.27362	.00534	.02340
61		.00050	.00037	.00021	.00025	.00133	.00083	.00144	.00027	1.00985	.00025
62		.03846	.01279	.02460	.01199	.01888	.00910	.00508	.06946	.00544	.96110
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.03811 .00267	.00113 .00537 .00767 .03090 .00201	.00155 .00137 .00422 .01549 .00101	.00137 .00116 .00558 .01757 .00138	.00408 .00154 .00725 .03313 .00196	.00145 .00178 .01078 .04753 .00254	.00127 .00158 .01080 .04296 .00285	.00149 .00110 .00460 .01928 .00123	.00083 .00225 .00725 .03359 .00184	.00860 .00175 .00428 .01618 .00109
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00862	.00730	.00821	.00840	.00852	.01399	.01104	.01330	.00900	.00727
65E		.00374	.00306	.00220	.00242	.00326	.00487	.00418	.00308	.00326	.00211
65F		.00102	.00081	.00044	.00059	.00076	.00113	.00114	.00048	.00076	.00045
65G		.02177	.01712	.01155	.01434	.01704	.03308	.02913	.01310	.02663	.01077
66		.01329	.01133	.01208	.01173	.01138	.01289	.01177	.00991	.00979	.01211
67	Radio and TV broadcasting	.00757	.00597	.00352	.00436	.00409	.00504	.00652	.00279	.00316	.00470
68A	Electric services (utilities)	.02585	.02394	.01583	.02251	.02464	.02367	.02935	.01727	.01949	.01619
68B	Gas production and distribution (utilities)	.01442	.01299	.00614	.00815	.01113	.01245	.01401	.00705	.01037	.00621
68C	Water and sanitary services	.00188	.00175	.00103	.00132	.00223	.00252	.00294	.00154	.00179	.00109
69A	Wholesale trade	.12500	.11564	.10046	.09911	.12717	.16328	.13528	.07090	.09985	.07466
69B 70A 70B 71A	Retail trade Finance Insurance Owner-occupied dwellings	.00402 .02397 .00546	.00365 .02097 .00470	.00228 .02038 .00426	.00238 .02108 .00452	.00300 .02302 .00496	.00353 .04078 .00680	.00304 .02617 .00579	.00191 .02403 .00455	.00218 .02038 .00498	.00207 .01884 .00406
71B	Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.02797	.03086	.02836	.03033	.02924	.03482	.02890	.02356	.03289	.02686
72A		.00704	.00620	.00609	.00615	.00644	.00844	.00736	.00681	.00613	.00562
72B		.00363	.00315	.00277	.00388	.00391	.00525	.00535	.00377	.00296	.00251
73A		.01073	.01128	.01308	.01346	.01115	.01263	.01295	.01841	.01129	.01160
73B		.02040	.01912	.02307	.02923	.01918	.02884	.02322	.02467	.01832	.02376
73C		.04238	.03871	.03758	.04363	.04558	.04699	.04628	.04200	.03581	.04444
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00821 .00952 .00968 .00495 .00008	.00648 .00867 .00864 .00391 .00007	.00383 .00776 .00678 .00287 .00006	.00474 .00781 .00831 .00336 .00007	.00445 .00900 .00967 .00308 .00008	.00548 .01080 .06491 .00411	.00708 .00955 .01384 .00472 .00008	.00304 .00868 .00816 .00258 .00007	.00343 .00841 .00930 .00249 .00007	.00511 .00749 .00624 .00341 .00007
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00443 .00624 .00834 —	.00249 .00435 .00817 —	.00305 .00431 .00479 —	.00334 .00394 .00616 —	.00309 .00440 .00850 —	.00604 .00627 .00887 —	.00427 .00611 .00948 —	.00437 .00427 .00562 —	.00249 .00373 .00795 —	.00359 .00405 .00576
85 T	Inventory valuation adjustment Total industry output multiplier	2.34050	2.06368	2.01279	2.01775	2.15205	 2.81494	 2.45886	 2.15186	 2.10239	1.84733

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

(Total To	quironionito por uonar or uonvory to iniai uomana ai	producere	, prioco,				•	L I.	value to	o oman te	, lopoit
Industry		Ophthalmic, and photo- graphic equipment	Miscel- laneous manufac- turing	Railroads and related services; pas- senger ground transportation	Motor freight transportation and warehousing	Water trans- portation	Air trans- portation	Pipelines, freight forwarders, and related services	In-house trans- portation	Communi- cations, except radio and TV	Radio
number	Commodity number	(63)	(64)	(65A)	(65B)	(65C)	(65D)	(65E)	(65G)	(66)	(67)
1 2 3 4 5+6	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00077 .00149 .00083 .00109 .00159	0.00199 .00491 .00236 .00171 .00632	.00122 .00078 .00105 .00143	0.00065 .00098 .00044 .00077 .00063	0.00127 .00162 .00054 .00113 .00084	0.00214 .00196 .00049 .00097 .00052	0.00057 .00093 .00072 .00076 .00037	0.00051 .00063 .00025 .00044 .00043	0.00063 .00101 .00050 .00096 .00049	.00475 .00039 .00229 .00032
7	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00330	.00381	.00263	.00191	.00215	.00156	.00216	.00152	.00113	.00203
8		.01411	.02048	.08059	.05134	.02681	.08534	.01275	.05937	.00550	.00704
9+10		.00181	.00238	.00188	.00083	.00091	.00100	.00061	.00068	.00085	.00060
11		—	—	—	—	—	—	—	—	—	—
12		.01654	.01917	.08238	.01988	.02676	.02230	.02928	.01307	.05163	.02399
13	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills	.00014	.00009	.00006	.00006	.00008	.00122	.00018	.00003	.00009	.00009
14		.00338	.00724	.00257	.00274	.00539	.00981	.00220	.00224	.00215	.00612
15		.00001	.00001	—	—	—	—	—	—	—	—
16		.00228	.02269	.00121	.00094	.00342	.00070	.00173	.00052	.00074	.00109
17 18 19 20+21 22+23 24	Miscellaneous textile goods and floor coverings Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00118 .00024 .00021 .00796 .00019	.00279 .00669 .00311 .02376 .00193 .03375	.00071 .00067 .00039 .00944 .00017	.00054 .00025 .00041 .00375 .00016	.00218 .00301 .00356 .00487 .00014 .00820	.00031 .00030 .00050 .00407 .00009 .00596	.00053 .00028 .00262 .00917 .00010 .00830	.00031 .00018 .00024 .00211 .00009 .00370	.00039 .00080 .00023 .00594 .00031 .00674	.00034 .00067 .00038 .00395 .00010 .00892
25	Paperboard containers and boxes	.01388	.02321	.00188	.00234	.00172	.00168	.00293	.00185	.00160	.00173
26A	Newspapers and periodicals	.00642	.01463	.00372	.00367	.01488	.00709	.00920	.00164	.00708	.01467
26B	Other printing and publishing	.00934	.02979	.01109	.00892	.01902	.01224	.01903	.00432	.01351	.01886
27A	Industrial and other chemicals	.04319	.04785	.01242	.00956	.00890	.00890	.00482	.00773	.00443	.00524
27B	Agricultural fertilizers and chemicals	.00146	.00214	.00057	.00048	.00064	.00055	.00033	.00033	.00035	.00127
28	Plastics and synthetic materials	.02137	.03992	.00395	.00442	.00392	.00196	.00247	.00244	.00217	.00177
29A	Drugs	.00126	.00061	.00011	.00010	.00011	.00012	.00006	.00007	.00009	.00015
29B	Cleaning and toilet preparations	.00182	.00368	.00097	.00068	.00060	.00077	.00038	.00064	.00055	.00056
30	Paints and allied products	.00078	.00721	.00131	.00103	.00157	.00052	.00049	.00197	.00098	.00057
31	Petroleum refining and related products	.01085	.01725	.10155	.06389	.03122	.10899	.00983	.07522	.00545	.00669
32	Rubber and miscellaneous plastics products	.03656	.05543	.01395	.02002	.00958	.00558	.00844	.00916	.00708	.00457
33+34	Footwear, leather, and leather products	.00006	.00174	.00009	.00009	.00020	.00010	.00020	.00005	.00012	.00043
35	Glass and glass products	.00881	.00249	.00201	.00109	.00104	.00087	.00088	.00075	.00082	.00061
36	Stone and clay products	.00252	.00764	.00454	.00170	.00246	.00195	.00157	.00119	.00219	.00126
37	Primary iron and steel manufacturing	.01106	.03704	.02095	.00618	.01075	.00480	.00388	.00413	.00501	.00268
38	Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and fabricated structural metal products Screw machine products and stampings Other fabricated metal products	.01378	.08524	.00864	.00440	.00694	.00399	.00315	.00279	.00478	.00287
39		.00054	.00099	.00037	.00031	.00035	.00048	.00016	.00032	.00017	.00026
40		.00210	.00483	.00510	.00159	.00281	.00141	.00176	.00100	.00282	.00140
41		.01037	.00663	.00274	.00205	.00202	.00154	.00103	.00121	.00330	.00094
42		.00794	.01856	.00944	.00633	.01056	.00381	.00406	.00393	.00450	.00241
43 44 + 45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00054 .00056 .00018 .00241 .00141	.00080 .00094 .00029 .00461 .00129	.00239	.00146 .00049 .00017 .00073 .00034	.00854 .00102 .00020 .00572 .00057	.00050 .00058 .00013 .00112 .00028	.00157 .00034 .00010 .00049 .00033	.00056 .00040 .00013 .00049 .00026	.00218 .00035 .00009 .00058 .00029	

49 50 51 52 53 54 55 56 57 58 59A 59B 600 61 62 63 64 65A 65B 65C 66D 65F 65G 66F 67 68A 68B 68C 69A 70B 71A 72B 73B 73A 77B 77B 77A 77B	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places Automotive repair and services Amusements Health services Educational and social services, and membership organizations Federal Government enterprises	.02054 .00167 .00651 .00243 .00070 .01314 .01162 .00430 .01443 .00895 .00127 .08837 .00245 .01946 .00409 .02166 .00233 .00951 .01381 .04028 .00465 .00322 .000703 .00645 .00328	.00360 .01117 .00579 .00079 .00521 .00166 .00118 .01851 .01851 .00272 .00080 .00235 .00226 .00139 .00235 .00226 .00139 .00235 .00225 .00337 .00337 .00335 .01326 .01057 .00335 .01057 .00335 .01057 .00335 .00243 .01057 .00335 .00243 .01057 .00335 .00243 .00335 .00243 .01057 .00335 .00243 .00345 .00345 .00345 .00345 .00335 .00345 .0	.00840 .00499 .00254 .00181 .01425 .00047 .00224 .00072 .00461 .00283 .00097 .01483 .00081 .01872 .00104 .00087 .00132 .93497 .01870 .00351 .00661 .02260 .09884 .01354 .01460 .00232 .01761 .01703 .00164 .05679 .00762 .03267 .00894 .04072 .00473 .003088 .02191 .02326 .04250 .00253 .00711 .01395 .00213 .00007	.00152 .00246 .00177 .00109 .00257 .00012 .00113 .00069 .00350 .00250 .00086 .01147 .00044 .00029 .00086 .0113 .00113 .00632 1.20510 .00270 .00736 .05046 .00053 .00880 .02521 .00228 .01445 .01153 .00665 .05492 .00743 .03513 .01580 .05225 .00676 .00296 .01307 .00298	.00262 .00103 .00329 .00033 .00123 .000511 .00391 .00207 .00068 .00266 .00090 .02513 .00438 .00276 .01324 1.08001 .00588 .00132 .00438 .00276 .01324 1.08001 .00588 .00686 .00029 .00936 .01105 .00988 .01272 .00836 .00141 .03688 .00248 .05553 .004484 .05553 .00486 .00497 .00497 .005553	.00125 .00333 .00435 .00063 .00103 .00103 .00069 .00107 .00696 .00135 .00021 .00260 .01032 .00021 .00260 .01082 .00344 1.01843 .12018 .00355 .02527 .00492 .00169 .01592 .00169 .01692	.00238 .00824 .00068 .00225 .00015 .00076 .00122 .00800 .00296 .00012 .00276 .00048 .00021 .00062 .00173 .00216 .00269 .01205 .00203 .00865 1.02074 .00028 .00719 .03895 .00623 .01711 .00379 .0090 .02030 .02030 .02030 .02030 .0206 .03700 .00868 .0090 .02030 .0090	.00079 .00154 .00116 .00070 .00135 .00008 .00081 .00049 .00242 .00189 .00054 .00076 .00271 .01188 .00212 .00187 .00215 .00028 1.00692 .01901 .00190 .01172 .01215 .0028 .0033 .0033 .0033 .0034 .0021 .00221 .0023 .0024	.00311 .00129 .00635 .00084 .00032 .00025 .00167 .01992 .02635 .00224 .00011 .00203 .00042 .00011 .00210 .00201 .00201 .00577 .00140 .00577 .00140 .00577 .00140 .00577 .00140 .00573 .00867 .15840 .00513 .00281 .00266 .00407 .03334 .00513 .00936 .02166 .00407 .03334 .00513 .00936 .02148 .04631 .04094 .00514 .00613 .00808 .02011 .00066	.00479 .00090 .00198 .00010 .00100 .00251 .01287 .00317 .00028 .00028 .00028 .00029 .00254 .00902 .00061 .00594 .00156 .00027 .02603 .02900 1.03157 .01614 .00391
78 79 82 84 85	Federal Government enterprises State and local government enterprises General government industry Household industry Inventory valuation adjustment	.00346 .00484 — —	.00695 .00870 — —	.00448 .00846 — —	.00546 .01297 — —	.00469 .06263 —	.00457 .02738 — —	.00717 .00458 — —	.00444 .00594 —	.00621 .00334 —	.00671 .00719 — —
Т	Total industry output multiplier	1.78696	2.16820	1.92866	1.96278	1.95332	1.92052	1.67868	1.53824	1.68713	2.08166

Detailed Industry-by-Commodity Total Requirements
(Total requirements per dollar of delivery to final demand at producers' prices)

Industry number	Commodity number	Electric services (utilities)	Gas production and distribution (utilities) (68B)	Water and sanitary services (68C)	Wholesale trade (69A)	Retail trade (69B)	Finance (70A)	Insurance (70B)	Owner- occupied dwellings (71A)	Real estate and royalties (71B)	Hotels and lodging places (72A)
1	Livestock and livestock products Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Metallic ores mining	0.00044	0.00057	0.00074	0.00086	0.00067	0.00050	0.00076	0.00050	0.00066	0.00148
2		.00103	.00141	.00209	.00122	.00099	.00066	.00091	.00169	.00169	.00247
3		.00071	.00093	.00151	.00063	.00038	.00024	.00030	.00036	.00053	.00058
4		.00101	.00174	.00318	.00115	.00184	.00088	.00113	.00821	.00596	.00560
5+6		.00070	.00099	.00149	.00039	.00030	.00019	.00025	.00016	.00028	.00036
7	Coal mining	.10260	.00257	.00483	.00154	.00300	.00109	.00087	.00025	.00183	.00463
8	Crude petroleum and natural gas	.04362	.63543	.05596	.01030	.01011	.00550	.00496	.00207	.00683	.01390
9+10	Nonmetallic minerals mining	.00156	.00220	.00356	.00051	.00055	.00031	.00036	.00077	.00109	.00107
11	New construction	—	—	—	—	—	—	—	—	—	—
12	Maintenance and repair construction	.08978	.12526	.15125	.01249	.02197	.01120	.01347	.05096	.06653	.04227
13 14 15 16 17	Ordnance and accessories Food and kindred products Tobacco products Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00005 .00171 — .00091 .00052	.00005 .00216 — .00055 .00057	.00025 .00264 .00116 .00096	.00004 .00356 — .00134 .00046	.00004 .00249 .00070 .00044	.00004 .00198 — .00059 .00024	.00005 .00312 — .00050 .00026	.00001 .00042 — .00019 .00023	.00003 .00159 — .00039 .00035	.00006 .00529 — .00497 .00117
18	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00016	.00016	.00047	.00149	.00021	.00014	.00015	.00003	.00011	.00163
19		.00020	.00025	.00038	.00064	.00022	.00063	.00033	.00009	.00019	.00805
20+21		.00937	.01243	.01997	.00761	.00420	.00257	.00285	.00489	.00689	.00589
22+23		.00008	.00010	.00022	.00009	.00012	.00007	.00007	.00003	.00008	.00011
24		.00339	.00391	.00615	.01402	.01624	.00997	.00924	.00108	.00429	.01101
25	Paperboard containers and boxes	.00109	.00117	.00225	.00673	.00274	.00132	.00138	.00034	.00085	.00366
26A	Newspapers and periodicals	.00162	.00207	.00319	.00918	.01513	.00786	.00694	.00056	.00359	.00787
26B	Other printing and publishing	.00395	.00444	.00683	.02166	.01883	.02044	.01977	.00127	.00664	.01374
27A	Industrial and other chemicals	.00814	.01319	.02896	.00595	.00487	.00323	.00374	.00158	.00352	.00693
27B	Agricultural fertilizers and chemicals	.00042	.00073	.00205	.00101	.00047	.00026	.00032	.00160	.00102	.00281
28	Plastics and synthetic materials	.00216	.00236	.00553	.00259	.00216	.00124	.00167	.00064	.00129	.00341
29A	Drugs	.00010	.00012	.00028	.00017	.00007	.00005	.00006	.00004	.00006	.00015
29B	Cleaning and toilet preparations	.00057	.00059	.00098	.00124	.00070	.00037	.00041	.00015	.00041	.00183
30	Paints and allied products	.00107	.00145	.00221	.00043	.00049	.00025	.00060	.00053	.00081	.00066
31	Petroleum refining and related products	.02602	.01673	.04796	.01007	.00977	.00485	.00491	.00213	.00569	.00990
32	Rubber and miscellaneous plastics products	.00642	.00558	.01573	.00860	.00694	.00322	.00551	.00183	.00388	.00896
33+34	Footwear, leather, and leather products	.00006	.00008	.00009	.00011	.00037	.00014	.00013	.00002	.00008	.00045
35	Glass and glass products	.00063	.00066	.00191	.00092	.00045	.00044	.00060	.00018	.00042	.00521
36	Stone and clay products	.00403	.00635	.00990	.00110	.00124	.00070	.00083	.00178	.00332	.00273
37	Primary iron and steel manufacturing	.00762	.01543	.01309	.00323	.00286	.00167	.00228	.00180	.00294	.00330
38	Primary nonferrous metals manufacturing	.00542	.00502	.01060	.00372	.00237	.00161	.00216	.00144	.00241	.00273
39	Metal containers	.00021	.00026	.00047	.00110	.00016	.00012	.00016	.00006	.00013	.00029
40	Heating, plumbing, and fabricated structural metal products	.00476	.00610	.00796	.00115	.00132	.00071	.00088	.00258	.00321	.00217
41	Screw machine products and stampings	.00188	.00110	.00327	.00088	.00080	.00054	.00085	.00027	.00061	.00093
42	Other fabricated metal products	.00390	.00653	.00871	.00276	.00275	.00192	.00279	.00130	.00238	.00285
43 44+45 46 47 48	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00597 .00396 .00076 .00110 .00023	.00061 .00244 .00043 .00101 .00027	.00110 .00204 .00024 .00130 .00050	.00034 .00042 .00083 .00075 .00048	.00049 .00031 .00010 .00044 .00037	.00023 .00018 .00006 .00029	.00033 .00020 .00007 .00035 .00029	.00009 .00055 .00004 .00016	.00026 .00039 .00008 .00033 .00017	.00052 .00048 .00013 .00053 .00038

49	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00267	.00199	.00250	.00071	.00064	.00045	.00053	.00033	.00061	.00081
50		.00299	.00280	.00863	.00219	.00145	.00072	.00085	.00026	.00086	.00129
51		.00182	.00358	.00214	.00316	.00170	.00491	.00392	.00028	.00085	.00212
52		.00122	.00190	.00501	.00070	.00077	.00029	.00046	.00063	.00104	.00089
53		.00302	.00197	.00278	.00099	.00085	.00074	.00085	.00045	.00084	.00132
54	Household appliances	.00029	.00040	.00058	.00010	.00013	.00007	.00008	.00015	.00032	.00034
55	Electric lighting and wiring equipment	.00291	.00232	.00352	.00077	.00100	.00042	.00059	.00087	.00130	.00123
56	Audio, video, and communication equipment	.00050	.00067	.00164	.00090	.00053	.00061	.00083	.00021	.00048	.00072
57	Electronic components and accessories	.00263	.00276	.00578	.00944	.00293	.00499	.00425	.00049	.00153	.00332
58	Miscellaneous electrical machinery and supplies	.00137	.00122	.00314	.00121	.00115	.00145	.00218	.00024	.00061	.00100
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00012	.00009	.00112	.00015	.00020	.00007	.00015	.00002	.00008	.00012
59B		.00211	.00205	.03063	.00375	.00537	.00179	.00353	.00042	.00175	.00289
60		.00060	.00037	.00078	.00031	.00025	.00027	.00038	.00005	.00019	.00032
61		.00082	.00025	.00041	.00015	.00015	.00013	.00017	.00005	.00012	.00022
62		.00126	.00101	.01506	.00058	.00056	.00042	.00075	.00023	.00056	.00097
63	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00050	.00077	.00115	.00187	.00111	.00258	.00294	.00018	.00072	.00142
64		.00101	.00118	.00171	.00207	.00249	.00279	.00220	.00035	.00112	.00283
65A		.02944	.00356	.00549	.00245	.00268	.00219	.00288	.00054	.00198	.00375
65B		.01279	.01107	.30241	.01046	.00944	.01953	.01213	.00286	.00778	.01770
65C		.00613	.00365	.00336	.00074	.00070	.00048	.00043	.00021	.00053	.00109
65D	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00432	.00731	.00634	.00678	.00487	.00639	.00875	.00074	.00385	.00661
65E		.00321	.00845	.01322	.00227	.00156	.00191	.00201	.00032	.00116	.01581
65F		.00311	.00037	.00057	.00026	.00028	.00023	.00030	.00006	.00021	.00039
65G		.01616	.02381	.02195	.04599	.04461	.00589	.00606	.00496	.00880	.02923
66		.00648	.00853	.02469	.02254	.01656	.02246	.03555	.00199	.01189	.02265
67	Radio and TV broadcasting	.00104	.00139	.00206	.00616	.01109	.00486	.00462	.00037	.00253	.00499
68A	Electric services (utilities)	.87769	.01816	.03820	.01154	.02418	.00843	.00645	.00155	.01445	.03750
68B	Gas production and distribution (utilities)	.04070	1.20956	.04039	.00559	.00570	.00373	.00256	.00084	.00502	.01229
68C	Water and sanitary services	.00175	.00132	.38823	.00119	.00186	.00171	.00094	.00025	.00297	.00602
69A	Wholesale trade	.02559	.03042	.05243	1.03782	.01550	.01494	.01511	.00561	.01125	.02260
69B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	.00490	.00724	.01254	.00388	.99821	.00138	.00197	.00282	.00385	.00462
70A		.02650	.02581	.02859	.02085	.02710	1.16748	.08826	.02437	.01755	.06982
70B		.00501	.00551	.01409	.00390	.00592	.00624	1.38420	.00996	.00564	.00493
71A		—	—	—	—	—	—	—	1.00000	—	—
71B		.03109	.12730	.04585	.04365	.08757	.05256	.07686	.04200	1.06026	.09353
72A	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00387	.00530	.00490	.00500	.00463	.00492	.00855	.00064	.00503	1.00592
72B		.00150	.00193	.00445	.00348	.00455	.00237	.00268	.00043	.00465	.00869
73A		.01573	.01003	.01152	.01915	.01155	.04282	.02223	.00185	.00476	.01537
73B		.02519	.05959	.05488	.02175	.02076	.04229	.06132	.01073	.02793	.02467
73C		.02675	.03164	.04430	.05985	.05524	.06163	.07590	.01056	.04019	.09405
73D	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00114	.00152	.00225	.00670	.01203	.00529	.00503	.00041	.00276	.00545
74		.00481	.00612	.00647	.00596	.00616	.00586	.01018	.00071	.00452	.00832
75		.00446	.00660	.02353	.00980	.00795	.00544	.02049	.00136	.00805	.00939
76		.00128	.00183	.00222	.00504	.00692	.00373	.00427	.00039	.00209	.00397
77A		.00004	.00005	.00018	.00009	.00007	.00009	.00010	.00002	.00006	.00014
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00389 .03803 .10131 —	.00218 .00490 .04807 —	.00220 .00672 .41790 —	.00315 .00837 .00458 —	.00223 .01308 .01047 —	.00359 .02630 .00479 —	.00340 .01395 .00424 —	.00029 .00117 .00130 —	.00160 .00595 .02319 —	.00344 .01020 .01484 —
85 T	Inventory valuation adjustment Total industry output multiplier	1.69968	 2.58455	2.10247	1.55180	 1.57542	1.64098	2.00289	1.22746	1.44729	1.77295

Detailed Industry-by-Commodity Total Requirements

(Total requirements per dollar of delivery to final demand at producers' prices)

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Industry		Personal and repair services (except auto)	Computer and data processing services	Legal, engineering, accounting, and related services	Other business and professional services except medical	Adver- tising	Eating and drinking places	Auto- motive repair and services	Amuse- ments	Health services	Educational and social services, and membership organizations
number	Commodity number	(72B)	(73A)	(73B)	(73C)	(73D)	(74)	(75)	(76)	(77A)	(77B)
1	Livestock and livestock products	0.00090	0.00056	0.00048	0.00084	0.00143	0.05882	0.00067	0.00895	0.00300	0.00415
2	Other agricultural products	.00145	.00076	.00065	.00088	.00204	.04675	.00109	.01100	.00315	.00412
3	Forestry and fishery products	.00045	.00028	.00023	.00029	.00091	.00741	.00051	.00053	.00054	.00083
4	Agricultural, forestry, and fishery services	.00137	.00114	.00110	.00087	.00143	.00857	.00129	.00445	.00237	.00322
5+6	Metallic ores mining	.00068	.00050	.00019	.00041	.00053	.00065	.00234	.00036	.00053	.00045
7	Coal mining Crude petroleum and natural gas Nonmetallic minerals mining New construction Maintenance and repair construction	.00247	.00113	.00087	.00105	.00215	.00390	.00261	.00255	.00162	.00197
8		.01261	.00494	.00425	.00818	.01055	.01524	.01823	.00912	.00905	.01160
9+10		.00075	.00040	.00030	.00050	.00115	.00131	.00097	.00074	.00099	.00114
11		—	—	—	—	—	—	—	—	—	—
12		.01839	.01207	.00969	.00985	.01765	.02403	.01832	.02327	.01565	.05516
13 14 15	Ordnance and accessories Food and kindred products Tobacco products	.00007 .00321 —	.00007 .00223	.00005 .00184 —	.00031 .00291	.00006 .00390 .00001	.00004 .27559 —	.00010 .00264 —	.00015 .01192 —	.00026 .01325 —	.00006 .01724
16	Broad and narrow fabrics, yarn and thread mills	.00624	.00048	.00035	.00060	.00140	.00149	.00183	.00221	.00191	.00132
17	Miscellaneous textile goods and floor coverings	.00116	.00026	.00020	.00030	.00107	.00097	.00107	.00050	.00068	.00066
18 19 20+21 22+23 24	Apparel Miscellaneous fabricated textile products Lumber and wood products Furniture and fixtures Paper and allied products, except containers	.00579 .00311 .00440 .00015 .01287	.00016 .00016 .00272 .00017 .00925	.00012 .00015 .00239 .00008 .00825	.00047 .00019 .00266 .00009 .01035	.00036 .00038 .01117 .00011 .08712	.00032 .00087 .00547 .00020 .01946	.00063 .00110 .00407 .00129 .00929	.00150 .00071 .00477 .00011 .01057	.00161 .00136 .00334 .00011 .01108	.00065 .00059 .00889 .00013
25	Paperboard containers and boxes	.00312	.00180	.00132	.00283	.00464	.01122	.00332	.00244	.00334	.00340
26A	Newspapers and periodicals	.00997	.00537	.00325	.00438	.27007	.01016	.00831	.01461	.00407	.01450
26B	Other printing and publishing	.02400	.01762	.01373	.01363	.28886	.01654	.01267	.01980	.01170	.05692
27A	Industrial and other chemicals	.01152	.00490	.00316	.00830	.01968	.01186	.01268	.00650	.02290	.00833
27B	Agricultural fertilizers and chemicals	.00061	.00035	.00028	.00041	.00097	.00490	.00064	.00280	.00114	.00112
28	Plastics and synthetic materials	.00506	.00223	.00123	.00222	.00593	.00493	.00711	.00237	.00523	.00319
29A	Drugs	.00042	.00006	.00005	.00014	.00020	.00139	.00014	.00028	.01569	.00050
29B	Cleaning and toilet preparations	.01304	.00041	.00047	.00172	.00103	.00133	.00145	.00081	.00193	.00132
30	Paints and allied products	.00076	.00035	.00025	.00049	.00075	.00076	.00319	.00079	.00048	.00103
31	Petroleum refining and related products	.01005	.00467	.00401	.00838	.00921	.01244	.01863	.00825	.00743	.01082
32	Rubber and miscellaneous plastics products	.01177	.00731	.00371	.00672	.01326	.01865	.02703	.00576	.01674	.00926
33+34	Footwear, leather, and leather products	.00516	.00011	.00027	.00026	.00021	.00015	.00019	.00096	.00021	.00093
35	Glass and glass products	.00094	.00114	.00095	.00150	.00069	.00510	.00620	.00064	.00261	.00217
36	Stone and clay products	.00155	.00100	.00075	.00117	.00143	.00315	.00291	.00132	.00150	.00245
37	Primary iron and steel manufacturing	.00561	.00388	.00169	.00379	.00356	.00529	.02349	.00304	.00304	.00417
38	Primary nonferrous metals manufacturing	.00675	.00612	.00164	.00317	.00316	.00599	.01865	.00320	.00273	.00371
39	Metal containers	.00039	.00017	.00011	.00032	.00037	.00712	.00039	.00044	.00060	.00060
40	Heating, plumbing, and fabricated structural metal products	.00152	.00173	.00066	.00092	.00160	.00156	.00395	.00139	.00115	.00279
41	Screw machine products and stampings	.00255	.00213	.00058	.00131	.00096	.00150	.01541	.00102	.00154	.00129
42	Other fabricated metal products	.00552	.00451	.00186	.00280	.00322	.00376	.01527	.00272	.00283	.00384
43	Engines and turbines Farm, construction, and mining machinery Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	.00043	.00032	.00023	.00080	.00041	.00050	.00489	.00036	.00029	.00036
44+45		.00036	.00023	.00018	.00077	.00035	.00092	.00090	.00045	.00030	.00044
46		.00011	.00009	.00008	.00051	.00011	.00016	.00019	.00010	.00009	.00011
47		.00083	.00064	.00040	.00208	.00070	.00065	.00194	.00048	.00049	.00060
48		.00093	.00040	.00030	.00149	.00171	.00106	.00074	.00032	.00044	.00056

49 50 51 52	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery	.00130 .00254 .00860 .00454	.00061 .00151 .09209 .00035	.00044 .00099 .00569 .00030		.00078 .00200 .00343 .00060	.00159 .00169 .00139 .00078	.00376 .00860 .00279 .00775	.00064 .00134 .00191 .00155	.00058 .00127 .00397 .00059	.00079 .00158 .00327 .00108
53 54 55 56 57 58	Electrical industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00239 .00754 .00105 .00110 .01732 .00143	.00362 .00010 .00089 .00232 .07340 .00344	.00084 .00007 .00040 .00057 .00502 .00206	.00361 .00013 .00078 .00083 .01216	.00172 .00012 .00081 .00111 .00613 .00157	.00109 .00016 .00106 .00047 .00261 .00117	.00480 .00030 .00404 .00091 .00918 .00684	.00101 .00014 .00145 .00112 .00332 .00633	.00116 .00013 .00096 .00084 .00561 .00117	.00127 .00028 .00162 .00095 .00503 .00159
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00014 .00291 .00033 .00019	.00009 .00205 .00035 .00013 .00178	.00008 .00181 .00025 .00016 .00046		.00025 .00130	.00016 .00372 .00033 .00027 .00064	.00437 .10194 .00087 .00033 .00183	.00013 .00300 .00027 .00055 .00071	.00010 .00226 .00066 .00016 .01719	.00014 .00331 .00032 .00022 .00170
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.01206 .01704 .00299 .01516 .00103	.00225 .00137 .00218 .00704 .00049	.00335 .00201 .00182 .00766 .00047	.00388 .00264 .00281 .01046 .00078	.00524 .02012 .00522 .01965 .00100	.00087 .00278 .00680 .02608 .00201	.00131 .00197 .00473 .01998 .00139	.00140 .00465 .00276 .00978 .00090	.00326 .00154 .00315 .01084 .00079	.00322 .00565 .00323 .01349 .00088
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.00590 .00201 .00031 .03720 .02110	.00731 .00157 .00023 .00901 .03058	.00567 .00139 .00019 .01086 .01945		.00635 .00222 .00055 .02204 .03672	.00684 .00279 .00072 .05568 .01241	.00785 .00424 .00050 .02274 .01791	.00534 .00159 .00029 .03001 .01661	.00551 .00166 .00033 .01985 .01537	.00630 .00201 .00034 .04559 .01788
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade	.00677 .01866 .00970 .00275 .03757	.00338 .00830 .00274 .00067 .04878	.00170 .00655 .00248 .00069 .01408	.00264 .00745 .00373 .00081 .02283	.20324 .01377 .00625 .00120 .04004	.00731 .02919 .01104 .00319 .08505	.00574 .01650 .00882 .00206 .06441	.01034 .02030 .00554 .00183 .03117	.00225 .01175 .00549 .00173 .03040	.00663 .01448 .00692 .00203 .03194
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings	.00261 .02109 .00548 — .07790	.00138 .01908 .00279 — .04981	.00123 .01963 .00296 — .07116	.00302 .01765 .00391 — .04306	.00242 .01912 .00565 — .05271	.00403 .02386 .00550 — .07696	.00817 .22134 .00846 — .06976	.00281 .02085 .00434 — .09303	.00214 .01596 .00568 — .07831	.00478 .02388 .00570 — .13571
71B 72A 72B 73A 73B 73C	Real estate and royalties Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.07790 .00493 1.04748 .01240 .04847 .05656	.00500 .00299 1.07041 .03167 .05550	.007116 .00732 .00205 .03112 1.08604 .10695	.00630 .00360 .02170 .04207	.00530 .00365 .01445 .03209 .14819	.00574 .00526 .00940 .02230 .04727	.006976 .00604 .01218 .01509 .02413 .05168	.00483 .00457 .01082 .03858 .06285	.00490 .00376 .01661 .02843 .06142	.00555 .00400 .02545 .02879 .07342
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00735 .00635 .00889 .00462 .00008	.00368 .00646 .00786 .00306 .00007	.00190 .00541 .00653 .00240 .00013	.00353 .00829 .00849 .00376 .00124	.21999 .00659 .00984 .09900 .00013	.00793 1.01406 .00941 .01477 .00099	.00624 .00732 .85502 .00424 .00008	.01122 .00649 .00982 1.17992 .00053	.00247 .01022 .00818 .00228 1.02179	.00721 .01013 .00938 .00872 .00015
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00520 .00920 .00803 —	.00809 .00900 .00327 —	.00429 .01252 .00344 —	.00432 .00843 .00332 —	.00913 .00797 .00562 —	.00324 .01227 .00999 —	.00269 .01257 .01347 —	.00319 .00916 .01065 —	.00382 .01236 .00551 —	1.00682 .01312 .00740 —
85 T	Inventory valuation adjustment Total industry output multiplier	1.76926	 1.69357	1.53494	1.49064	 1.82499	2.14505	 1.91528	 1.81390	 1.61338	1.82220

Detailed Industry-by-Commodity Total Requirements
(Total requirements per dollar of delivery to final demand at producers' prices) KEY: — = Value too small to report

·		Federal	State and local	General		Inventory
Industry		Government enterprises	government enterprises	government industry	Household industry	valuation adjustment
number	Commodity number	(78)	(79)	(82)	(84)	(85)
1	Livestock and livestock products	0.00074	0.00083	_	_	_
2	Other agricultural products Forestry and fishery products	.00081 .00024	.00303 .00194			_
4	Agricultural, forestry, and fishery services	.00038	.00626	_	-	_
5 + 6	Metallic ores mining	.00042	.00136	-	-	_
7 8	Coal mining Crude petroleum and natural gas	.00109 .00856	.00658 .04558			_
9 + 10	Nonmetallic minerals mining	.00030	.00591		=	_
11	New construction	.01056	07040	-	_	_
12 13	Maintenance and repair construction Ordnance and accessories	.00006	.27649 .00008	_	_	_
13	Food and kindred products	.00329	.00230			_
15	Tobacco products	_	-	-	-	_
16 17	Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings	.00157 .00043	.00121 .00119			_
18	Apparel	.00021	.00079	_	_	_
19	Miscellaneous fabricated textile products	.00209	.00040	_	_	_
20 + 21 22 + 23	Lumber and wood products Furniture and fixtures	.00200 .00104	.02675 .00020	-	-	_
22 + 23 24	Paper and allied products, except containers	.00625	.00627			_
25	Paperboard containers and boxes	.00289	.00193	_	_	_
26A 26B	Newspapers and periodicals	.00160 .01674	.00300 .00642	_	_	_
20B 27A	Other printing and publishing Industrial and other chemicals	.00327	.02952			_
27B	Agricultural fertilizers and chemicals	.00021	.00361	-	-	_
28	Plastics and synthetic materials	.00142	.00495	-	-	_
29A 29B	Drugs Cleaning and toilet preparations	.00006 .00095	.00027 .00104			_
30	Paints and allied products	.00034	.00309	_	_	_
31	Petroleum refining and related products	.00904	.03460	-	-	_
32 33 + 34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	.00331 .00053	.01107 .00009			_
35	Glass and glass products	.00039	.00200	_	_	_
36	Stone and clay products	.00075	.01845	-	_	_
37 38	Primary iron and steel manufacturing Primary nonferrous metals manufacturing	.00393	.01289 .01027	_	_	_
30 39	Metal containers	.00330	.01027			_
40	Heating, plumbing, and fabricated structural metal products	.00099	.01278	-	-	_
41 42	Screw machine products and stampings Other fabricated metal products	.00151 .00166	.00215 .00818			_
43	Engines and turbines	.00035	.00096	_	_	_
44 + 45	Farm, construction, and mining machinery	.00023	.00379	_	_	_
46 47	Materials handling machinery and equipment Metalworking machinery and equipment	.00015 .00045	.00029 .00144	-	-	_
47	Special industry machinery and equipment	.00045	.00144		=	_

49 50 51 52 53	General industrial machinery and equipment Miscellaneous machinery, except electrical Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus	.00087 .00299 .00074 .00076 .00064	.00252 .01460 .00176 .00927 .00313	_ _ _ _	_ _ _ _	_ _ _ _
54 55 56 57 58	Household appliances Electric lighting and wiring equipment Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies	.00006 .00091 .00024 .00167 .00091	.00100 .00514 .00188 .00340 .00267	_ _ _ _	_ _ _	_ _ _ _
59A 59B 60 61 62	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts Other transportation equipment Scientific and controlling instruments	.00060 .01644 .00126 .00040 .00045	.00016 .00347 .00038 .00053 .00174	_ _ _ _	_ _ _ _	_ _ _ _
63 64 65A 65B 65C	Ophthalmic and photographic equipment Miscellaneous manufacturing Railroads and related services; passenger ground transportation Motor freight transportation and warehousing Water transportation	.00058 .00103 .00938 .02722 .00288	.00096 .00235 .00495 .02394 .00433	_ _ _ _	_ _ _ _	_ _ _ _
65D 65E 65F 65G 66	Air transportation Pipelines, freight forwarders, and related services State and local passenger transit In-house transportation Communications, except radio and TV	.03236 .00543 .00099 .01761 .00636	.00482 .00334 .00052 .02611 .01605	_ _ _ _		_ _ _ _
67 68A 68B 68C 69A	Radio and TV broadcasting Electric services (utilities) Gas production and distribution (utilities) Water and sanitary services Wholesale trade	.00072 .00810 .00394 .00264 .01515	.00200 .05158 .03847 .01935 .03784	_ _ _ _	_ _ _ _	_ _ _ _
69B 70A 70B 71A 71B	Retail trade Finance Insurance Owner-occupied dwellings Real estate and royalties	.00122 .01294 .00317 — .02220	.01339 .02919 .00727 — .05578	_ _ _ _	_ _ _ _	_ _ _ _
72A 72B 73A 73B 73C	Hotels and lodging places Personal and repair services (except auto) Computer and data processing services Legal, engineering, accounting, and related services Other business and professional services, except medical	.00144 .00098 .00477 .00646 .02278	.00318 .00339 .01146 .07306 .05146	_ _ _ _	_ _ _ _	_ _ _ _
73D 74 75 76 77A	Advertising Eating and drinking places Automotive repair and services Amusements Health services	.00080 .00309 .00634 .00067 .00005	.00219 .00494 .01206 .00183 .00008			_ _ _ _
77B 78 79 82 84	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry Household industry	.00092 1.00162 .00579 —	.00214 .00897 1.01474 —	1.00000	1.00000	_ _ _ _
85 T	Inventory valuation adjustment Total industry output multiplier	1.35307	 2.14434	1.00000	1.00000	1.00000 1.00000

CD-ROM INFORMATION

This CD contains data for nearly 500 industries and 500 commodities, plus related documents from the U.S. Transportation Satellite Accounts (TSAs). Jointly developed by the Bureau of Transportation Statistics of the U.S. Department of Transportation and the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce, TSAs supplement the U.S. Input-Output (I-O) accounts maintained by BEA. The TSAs cover both for-hire transportation services (identified as transportation industries within the I-O accounts) and in-house transportation services conducted by businesses for their own use (not separately identified as transportation in the I-O accounts). Hence, they present a more comprehensive measure of transportation services in the U.S. economy. TSAs provide detailed input and output information on transportation activities at both industry and commodity levels. These data not only provide information on the relationship between transportation and the U.S. economy, they can also be used with input/output analysis tools to do transportation impact analyses and projections. The TSA-CD is a Mac/ISO hybrid CD-ROM that contains TSA programs working on both PC and Macintosh systems. Files on the CD are organized as follows:

IBM compatible PC

/Acroread/ Acrobat readers for Windows 3.11

and Windows 95/98.

/Browser3/ HTML files to browse the

contents of the TSA-CD using a web browser that supports frame

capabilities.

/Browser2/ HTML files to browse the

contents of the TSA-CD using a web browser that does not support

frame capabilities.

/Document/ Introduction, related articles, and

industry and commodity code

description.

/Data/ Data in ASCII and spreadsheet

format.

/Extract/ A window-based program for data

extraction according to user specified criteria. The User's Manual for this program, in Microsoft Word format, is also located in this subdirectory.

You may directly access the data files under "/Data/" and read related documents under "/Document/," or you may install the browser to browse the CD. To extract data according to user-specified criteria, run the Extract program provided in this CD. The program requires about 50MB disk space. For more information about the Extract program, refer to the User's Manual in the "/Extract/" subdirectory.

Mac computer

/Document/ Introduction, related articles, and

industry and commodity code

description.

/Data/ Data in ASCII and spreadsheet

format.

/Mac/Browser/ HTML files for browsing the CD. /Mac/Extract/ MAC program for data extraction

according to user-specified criteria. The User's Manual for this program, in Microsoft Word format, is also located in this

subdirectory.

You may directly access the data files under "/Data/" or use the web browser to open the page "/Mac/Browser/home.htm" to browse the content of this CD. To extract data according to user-specified criteria, run the Extract program provided in this CD. The program requires about 50MB hard disk space.

For more information about the Extract program, refer to the User's Manual in the "/Extract/" subdirectory.

Minimum Hardware and Software Requirements To Install CD Browser

IBM compatible PC

- * 486 or higher processor
- * Windows 95/98, Windows NT
- * 16 MB RAM or above
- * Hard disk
- * CD-ROM drive
- * PDF file viewer (Acrobat Reader)
- * XLS (Excel) file viewer
- * A web browser

For best results, please view this CD with either Netscape 3.0 or later or Microsoft Internet Explorer 3.0 or later versions.

Mac computer

- * MAC OS 7.1 or later
- * 16 MB RAM or above
- * Hard disk
- * CD-ROM drive
- * PDF file viewer (Acrobat Reader)
- * XLS (Excel) file viewer
- * A web browser (Netscape Navigator 3.0 or later or Microsoft Internet Explorer 3.0 or later versions)

To Run the CD Browser and the Extract Program on Windows 95/98 or Windows NT

Installation

Insert the CD into your CD-ROM drive. A window will appear on the screen.

Click button "Install CD Browser (with frames)" to install CD browser for Netscape Navigator 3.0 or Microsoft Internet Explorer 3.0.

Click button "Install CD Browser (no frames)" to install CD browser for older version web browser that does not support frame display. You can also run installation from windows Start Menu.

Click "Start" menu and select "Run". If either Netscape Navigator 3.0 or Microsoft Internet Explorer 3.0 or later versions are installed in your machine, type:

<CD drive letter>:\Browser3\setup.exe and follow the instructions.

For older version web browser that does not support frame display, type:

<CD drive letter>:\Browser2\setup.exe and follow the instructions.

Run CD browser--Select "TSA-CD Browser" in "TSA-CD Browser Application" folder on Start/Program menu. Follow the links to navigate the CD content.

Run EXTRACT program--Select "Data Extract" in "TSA-CD Browser Application" folder on Start/Program menu.

To Remove "TSA-CD Browser Application" from Hard Disk

In Control Panel, click "Add/Remove Programs." Find "TSA-CD Browser" and delete.

To Run the CD Browser and Extract on MAC

Run CD browser on Mac computer--Insert the CD into your CD-ROM drive. Click icon TSA-MAC, then click icon "Welcome."

Run EXTRACT program on Mac computer--Insert the CD into your CD-ROM drive. Click icon TSA-MAC, then click icon "Extract."

For Queries about the CD-ROM and the Files It Contains

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U.S. Department of Transportation
400 7th Street, SW, Room 3430
Washington, DC 20590
Phone: 202 266 DATA

Phone: 202-366-DATA Fax: 202-366-3640

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