# Transportation Satellite Accounts 

A New Way of Measuring Transportation Services in America


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## Overview

The 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 forhire trucking. Air transportation and railroads accounted for 13 percent and 11 percent, respectively.
- Agriculture, construction, and wholesale/retail trade are the most trans-portation-intensive sectors, counting both in-house and for-hire services.

Although manufacturing is the most intensive user of for-hire transportation services (about $3 \phi$ 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 $14.2 \phi$ in transportation services, compared with $9.1 \not \subset$ in the case of manufactured goods and about $8 \notin$ 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 

The 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. inputoutput (I-O) accounts ${ }^{2}$ maintained by BEA. The TSAs provide a more comprehensive measure of transportation services in whatever industry they occur.

[^0]
## 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 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-

[^2]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).

[^3]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]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

[^5]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 analysespreferably by using satellite accounts. In addition, the United Nations handbook of I-O accounts suggests that the satellite account

[^6]approach be used to estimate in-house transportation as an output of the transportation industry. ${ }^{9}$ 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;

[^7]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, "rede-fined"-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. ${ }^{11}$

[^8]Table 1.
Components and Output of Transportation Services

|  | Industry components | Industry output |
| :---: | :---: | :---: |
| For-hire transportation industries |  |  |
| Railroads and related services; passenger ground transportation | Railroads, including AMTRAK <br> Switching and terminal companies <br> Freight car rental <br> Private local and suburban passenger transportation <br> Intercity, rural, and other bus services, including charter and school buses <br> Bus terminal and service facilities Taxicabs | Total operating revenues Less: Rental receipts |
| Motor freight transportation and warehousing | Trucking and courier services, except air <br> Public warehousing and storage Trucking terminal facilities | Total operating revenues <br> Plus: Trucking receipts of construction firms Warehousing revenues of wholesalers Delivery and storage charges of retailers <br> Less: Merchandise sales Rental receipts |
| Water transportation | Deep sea and other water transportation of freight. <br> Water transportation of passengers Services incidental to water transportation, including marinas and other services | Total operating revenues <br> Plus: Docking and boat cleaning and maintenance at retailers <br> Federal excise tax on cruise ship receipts <br> Less: Merchandise sales <br> Boat repair at marinas |
| Air transportation | Domestic and international passenger and freight air transportation Airport terminal services | Total operating revenues <br> Plus: Federal taxes on air fares, air freight, and air facilities <br> Aircraft storage and services by wholesalers and retailers <br> Less: Rental receipts Flight training and instruction |
| Pipelines, freight forwarders, and related services | Refined petroleum pipelines <br> Other pipelines, including crude petroleum and natural gas <br> Arrangement of freight and passenger transportation, including freight forwarding <br> Miscellaneous services incidental to transportation | Total operating revenues <br> Plus: Pipeline receipts by wholesalers <br> 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 unrelated to in-house transportation operations |

- 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 Indus-try-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 industry-by-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

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

| Industry | Commodity |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total industry output |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agri-culture forestry, and fisheries | Mining | Construction | $\begin{array}{r} \text { Manu- } \\ \text { facturing } \end{array}$ | Transportation |  |  |  |  |  | $\begin{array}{r} \text { Com- } \\ \text { muni- } \\ \text { cations } \\ \text { and } \\ \text { utilities } \end{array}$ | Wholesale and retail trade | Finance, insurance, and real estate | Services | Other ${ }^{\text {r }}$ |  |
|  |  |  |  |  | Railroad and passenger ground | $\begin{array}{r} \text { Motor } \\ \text { freight } \\ \text { and } \\ \text { ware- } \\ \text { housing } \end{array}$ | Water | Air |  | $\begin{array}{r} \text { In- } \\ \text { house } \end{array}$ |  |  |  |  |  |  |
| 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 |  | 147,001 | 0 | 9,716 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156,717 |
| Construction | 0 |  | 679,330 |  | 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 | 174 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 55,754 |
| Motor freight and warehousing | 0 | 0 | 0 | 0 | 0 | 155,590 | 0 | 0 | 0 | 0 | 11,363 | 0 | 0 | 0 | 0 | 166,953 |
| Water | 0 | , | 0 |  | 0 |  | 32,440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,440 |
| Air | 0 | 0 | 0 |  | 0 |  |  | 94,141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 94,141 |
| Pipelines, freight forwarders, and related services | 0 | 0 | 0 | 0 | 542 | 1,320 | 194 | 2,632 | 28,928 | 0 | 0 | 0 | 0 | 0 | 0 | 33,616 |
| State and local passenger transit | 0 | 0 | 0 | 0 | 5,876 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,876 |
| In-house | 0 | 0 | 0 | 0 | 0 |  |  | 0 | 0 | 165,461 | 0 | 0 | 0 | 0 | 0 | 165,461 |
| Communications and utilities | 0 | 0 | 0 | 0 | 0 |  |  | 0 | 0 |  | 491,312 | 0 | 0 | 28,838 | 538 | 520,688 |
| Wholesale and retail trade | 0 | 0 | 0 |  | 0 |  |  |  | 0 | 0 | 0 | 1,091,489 | 0 | 0 | 0 | 1,091,489 |
| Finance, insurance, and real estate | 0 | 0 | 0 |  | 0 |  |  | 0 | 0 | 0 | 0 | 0 | 1,629,618 | 25,114 | 0 | 1,654,732 |
| Services | 0 | 0 | 0 |  | - |  |  |  | 38 |  | 0 | 0 | 666 | 2,226,302 | 521 | 2,227,550 |
| Other ${ }^{1}$ | 0 | 0 | 0 | 37 | 64 |  | 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. <br> TSA Use of Major Commodity Groups by Major Industry Sector: 1992

(Millions of dollars at producers' prices)

| Commodity | Industry |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agriculture forestry, and fisheries | Mining | $\begin{array}{r} \text { Con- } \\ \text { struction } \end{array}$ | $\begin{array}{r} \text { Manu- } \\ \text { facturing } \end{array}$ | Transportation |  |  |  |  |  |  | Communications and utilities | Wholesale and retail trade |
|  |  |  |  |  | Railroad and passenger ground | Motor freight and warehousing | Water | Air | Pipelines, freight forwarders, and related services | State and local passenger transit | $\begin{array}{r} \text { In- } \\ \text { house } \end{array}$ |  |  |
| Agriculture, forestry, and fisheries | 55,569 | 43 | 4,027 | 123,104 | 1 | 3 | 6 | 1 | 0 | 2 | 0 | 61 | 894 |
| Mining | 298 | 25,985 | 5,445 | 94,010 | 0 | 0 | 9 | 0 | 83 | 0 | 0 | 54,440 | 30 |
| Construction | 2,877 | 2,655 | 552 | 18,050 | 2,465 | 736 | 30 | 239 | 574 | 1,664 | 680 | 30,084 | 7,246 |
| Manufacturing | 36,994 | 11,446 | 199,947 | 1,017,125 | 7,174 | 12,818 | 3,208 | 13,201 | 1,475 | 3,460 | 14,760 | 20,577 | 44,062 |
| Transportation: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Railroads and related services; passenger ground transportation, except transit | 1,515 | 1,039 | 1,294 | 14,759 | 2,368 | 442 | 19 | 128 | 33 | 69 | 211 | 4,937 | 881 |
| Motor freight and warehousing | 3,231 | 917 | 10,302 | 44,955 | 368 | 28,810 | 104 | 233 | 209 | 50 | 790 | 1,029 | 3,459 |
| Water | 436 | 427 | 723 | 4,261 | 78 | 209 | 4,282 | 164 | 56 | 29 | 183 | 838 | 169 |
| Air | 457 | 413 | 963 | 11,485 | 214 | 622 | 77 | 6,064 | 233 | 1 | 10 | 1,476 | 4,144 |
| Pipelines, freight forwarders, and related services | 81 | 14 | 4 | 4,788 | 442 | 4,966 | 1,407 | 7,820 | 763 | 24 | 112 | 523 | 311 |
| In-house | 13,177 | 3,870 | 38,950 | 21,806 | 0 |  | 0 | 0 | 0 | 0 | 0 | 1,187 | 42,819 |
| Communications and utilities | 3,954 | 7,218 | 4,343 | 74,295 | 596 | 5,499 | 192 | 1,636 | 1,444 | 643 | 4,503 | 55,863 | 33,509 |
| Wholesale and retail trade | 11,131 | 2,600 | 53,758 | 163,845 | 1,706 | 5,824 | 520 | 1,505 | 326 | 303 | 6,787 | 4,537 | 18,588 |
| Finance, insurance, and real estate | 15,528 | 19,183 | 11,224 | 48,672 | 1,849 | 6,108 | 1,990 | 3,157 | 1,769 | 116 | 1,323 | 13,890 | 71,101 |
| Services | 5,949 | 5,037 | 64,747 | 165,357 | 3,771 | 16,423 | 4,836 | 8,903 | 6,635 | 214 | 13,990 | 49,673 | 124,604 |
| Other ${ }^{1}$ | 156 | 1,172 | 696 | 24,581 | 332 | 1,122 | 2,964 | 8,924 | 392 | 4 | 582 | 7,823 | 11,064 |
| Total intermediate inputs | 151,352 | 82,021 | 396,974 | 1,831,093 | 21,364 | 83,582 | 19,644 | 51,975 | 13,992 | 6,579 | 43,931 | 246,938 | 362,881 |
| Compensation of employees | 25,870 | 27,777 | 219,347 | 688,213 | 23,458 | 55,533 | 7,140 | 32,761 | 10,710 | 9,018 | 84,160 | 84,298 | 425,306 |
| Indirect business tax and nontax liability | 5,206 | 8,164 | 3,246 | 37,864 | 1,006 | 2,615 | 583 | 5,696 | 993 | 0 | 3,870 | 31,844 | 173,188 |
| Other value-added ${ }^{2}$ | 55,234 | 38,755 | 59,762 | 394,134 | 9,926 | 25,223 | 5,073 | 3,709 | 7,921 | -9,721 | 33,501 | 157,609 | 130,114 |
| Total value-added | 86,310 | 74,696 | 282,356 | 1,120,210 | 34,390 | 83,371 | 12,796 | 42,166 | 19,624 | -703 | 121,531 | 273,750 | 728,608 |
| Total industry output | 237,662 | 156,717 | 679,330 | 2,951,303 | 55,754 | 166,953 | 32,440 | 94,141 | 33,616 | 5,876 | 165,461 | 520,688 | 1,091,489 |

KEY: $-=$ Value too small to report.
${ }_{1}$ "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
${ }^{2}$ 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)

| Commodity | Industry |  |  |  | Final Uses |  |  |  |  |  |  | Totalcommodityoutput |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Finance, insurance, and real estate | Services | Other ${ }^{1}$ | Total interme- diate inputs | Personal consumption expenditures | Gross private fixed investment | Change in business inventories | Exports of goods and services | Imports of goods and services | Government expenditures | GDP |  |
| 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 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 | -4,027 | 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 | - | - | - | - | - | - | - | -1 | 6,191,430 |

## The TSA Commodity by Industry Direct Requirements: 1992

(Direct requirements per dollar of industry output, at producers' prices)

| Commodity | Industry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agri-culture forestry, and fisheries | Mining | $\begin{array}{r} \text { Con- } \\ \text { struction } \end{array}$ | $\begin{array}{r} \text { Manu- } \\ \text { facturing } \end{array}$ | Transportation |  |  |  |  |  |  | $\begin{array}{r} \text { Com- } \\ \text { muni- } \\ \text { cations } \\ \text { and } \\ \text { utilities } \end{array}$ | Wholesale and retail trade | Finance, insurance, and real estate | Services | Other ${ }^{1}$ |
|  |  |  |  |  | Railroad and passenger ground | Motor freight and warehousing | Water | Air | Pipelines, freight forwarders, and related services | $\begin{array}{r} \text { State } \\ \text { and } \\ \text { local } \\ \text { passen- } \\ \text { ger } \\ \text { transit } \end{array}$ | In-house |  |  |  |  |  |
| 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 | . 47663 | . 41564 | . 37956 | . 61682 | . 49937 | . 39445 | . 44790 | . 58377 | -. 11964 | . 73450 | . 52575 | . 66754 | . 70374 | . 60003 | . 93363 |
| 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)

| Industry | Commodity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agriculture, forestry, and fisheries | Mining | $\begin{array}{r} \text { Con- } \\ \text { struction } \end{array}$ | $\begin{array}{r} \text { Manu- } \\ \text { facturing } \end{array}$ | Transportation |  |  |  |  |  | Communications and utilities | Wholesale and retail trade | Finance, insurance, and real estate | Services | Other ${ }^{1}$ |
|  |  |  |  |  | $\begin{array}{\|r} \text { Railroad } \\ \text { and } \\ \text { passenger } \\ \text { ground } \end{array}$ | Motor freight and warehousing | Water | Air | Pipelines, freight forwarders, and related services | In-house |  |  |  |  |  |
| 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: <br> 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. ${ }^{13}$

[^9]
## METHODOLOGICAL OVERVIEW

The magnitude of in-house transportation services was determined by first estimating the inputs used by each industry for its inhouse 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 devel-

[^10]Table 6.
Principal Data Sources

| Data | Sources |
| :--- | :--- |
| Estimates of input-output accounts, 1992 | U.S. Department of Commerce, Bureau of Economic Analysis, <br> Benchmark Input-Output Accounts for the U.S. Economy, 1992 <br> (forthcoming) and detailed underlying data files for the I-0 <br> accounts. |
| Trucks, truck mileage, fuel use by industry, | U.S. Department of Commerce, Census Bureau, 1992 Census of <br> 1992 |
|  | Transportation, Truck Inventory and Use Survey—United States, <br> May 1995. |
| Statistics on occupation and industry, 1990 | Census Bureau, 1990 Census of Population and Housing, <br>  <br> Occupation and Industry—National and State Totals (CD-ROM), <br> March 1995. |
| Employment of truck drivers by industry, | U.S. Department of Labor, Bureau of Labor Statistics, <br> 1992 |
| Employment Projection Division, Industry-Occupation |  |
| Energy use, 1992 | U.S. Department of Energy, Energy Information Administration, <br> 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, <br> Transportation Energy Data Book: Edition 14, May 1994. |
| Vehicle-miles of travel by type of vehicles, | U.S. Department of Transportation, Federal Highway <br> Administration, Highway Statistics 1993. |

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

[^11]- 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 transpor-tation-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-

[^12]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

[^13]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. ${ }^{17}$

[^14]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 $14.2 \phi$ 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 $5.4 \not \subset$ 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
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-

[^15]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． <br> Detailed Make of $\mathbf{1 0 0}$ Commodities by $\mathbf{1 0 0}$ Industries

（Millions of dollars at producers＇prices）
KEY：－

|  |  | $\begin{aligned} & \text { Livestock } \\ & \text { Liven } \\ & \text { inver } \\ & \text { protuctuct } \end{aligned}$ | $\begin{gathered} \text { Other } \\ \text { outir } \\ \text { culural } \\ \text { protuctis } \end{gathered}$ |  | Agriciulural， and and fisthy service | $\begin{gathered} \text { Metalicice } \\ \text { iries } \\ \text { mining } \end{gathered}$ | $\begin{gathered} \text { Coal } \\ \text { mining } \end{gathered}$ |  |  | New con－ struction | Maintenanceand repair <br> construction constructio |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| nnumber | Commodity number | （1） | （2） | （3） | （4） | （5＋6） | （7） | （8） | $(9+10)$ | （11） | （12） |
|  | Livestock and livestock products | 9，375 |  | \＄205 | \＄503 |  |  |  |  | － |  |
|  | Other agriculural proucucis |  | \＄104，546 | ${ }_{9}^{2,0643}$ | 1，051 |  | － | － |  |  |  |
|  | Agricultura，forestry，and fishery serices | － | － |  | 28，251 |  |  |  |  |  |  |
| $5+6$ | Metallic ores mining | － |  | － |  | 26 | \＄8 |  | \＄11 |  |  |
|  | Coal mining | － | － | － | － | － | 26，907 |  | 2 | － |  |
| 9＋10 ${ }^{8}$ | Crude pertroum and natural gas |  |  | 二 | － | 12 |  | \＄97，613 | 11.720 |  |  |
|  | New construction | － |  | － | － |  | － | － |  | \＄456，949 |  |
| 12 | Maintenance and repair construction |  |  | － | － | － |  |  |  |  | \＄222，381 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | － | － | － |
| 14 15 15 | Food and kindered products | － | － | － |  | － | － | － | － | － |  |
| ${ }^{16}$ | Broad and narrow fabrics，yarn and thread mills | － |  | － |  | － |  |  | － |  |  |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | － | － | － | － | － |
| ${ }_{19}^{18}$ | Apparel ${ }_{\text {Miscllaneous fabricated textile e products }}$ | 二 | 二 | － | － | － | － | 二 | － | － |  |
| ${ }_{20}^{20+21}$ | Lumber and wood products | － | － | － |  |  | － | － | － | － |  |
| $22+23$ 24 | Furniture and fixtures Paper and alied products，except containers |  | － | － |  |  | － |  | － | － |  |
| 25 | Papertoard containers and boxes | － | － | － | － | － | － | － | － | － |  |
| ${ }_{268}^{268}$ | Newspapers and periodicals |  |  | － | － |  |  | － | － | － | － |
| 268 | Other printing and publishing | 二 | － | 二 | － | － | － | 10 |  | 二 |  |
| 278 | Agricultural fertilizers and chemicals |  | － | － |  |  | － |  | 1 | － | － |
|  | Plastics and synthetic materials |  | － | － | － | － | － | － | － | － | － |
| ${ }_{298}^{298}$ |  | － | － | 二 | － | － | － | － | － | － |  |
| ${ }_{30}^{298}$ | Cleaning and toilet preparations Paints and dlilied products | － | － | － | － |  |  |  |  |  |  |
| 31 | Petroleum refining and related products |  |  | － | － |  |  |  | 127 | － |  |
| 32 | Rubber and miscellaneous plastics products | － | － | － | － | － | － | － | ， | － |  |
| 33＋34 | Footwear，leather，and leater products Giass and lass products | － | － |  |  |  |  |  |  |  |  |
|  | Slass and glass products | $\square$ | 二 |  | $\square$ |  |  |  | $4{ }_{49}$ |  |  |
| 37 | Primary iron and steel manufacturing | － | － | － | － | － | － |  |  |  |  |
| 38 | Primary nonferrous metals manufacturing | － | － | － | － |  |  |  | － | － |  |
| 39 | Metal containers | － | － | － | － | － |  | － |  | － |  |
| ${ }_{41}^{40}$ | Heating，plumbing，and ataricatea structural metal proucuts | 二 | － | － | － | － | － | I | － | － | － |
| 42 | Other fabricated metal products | － | － |  |  | － |  | － |  | － |  |
|  | Engines and turbines | － | － | － | － | － | － | － | － | － | － |
| 44＋45 | Farm，construction，and mining machinery Materials handing machinery and equipment | － | 二 | － | － | － | － | 二 | 二 | － | － |
| $\begin{aligned} & 46 \\ & 48 \\ & 48 \end{aligned}$ | Metalworking machinery and equipment | － | － | － | － | － | － | － | － | － | － |

Service industry machinery
Electrical industrial equipment and apparatus

53
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplie
Motor vehicles (passenger cars and trucks)
59 A 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 transi In-housunications Communications, except radio and TV Radio and TV broadcasting Electric services (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)
Personal and repair services (except auto)
Computer and data processing services
Computer and data processing services
Other business and professional services, except medical

73 D
Advertising Eating and drinking places
Automotive repair and service 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


## Table A（continued）

Detailed Make of $\mathbf{1 0 0}$ Commodities by 100 Industries
（Millions of dollars at producers＇prices）
KEY：－

| Industry |  | $\begin{array}{\|r\|} \hline \text { Ordnance } \\ \text { and } \\ \text { acces- } \\ \text { sories } \\ \hline \end{array}$ | 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 | Other agricultural products | － |  |  |  |  | － | － | \＄135 |  | － |
| 3 | Forestry and fishery products |  |  |  |  |  |  |  |  |  |  |
| 4 | Agricultural，forestry，and fishery services |  |  |  | － |  | － |  |  |  |  |
| $5+6$ | Metallic ores mining |  |  |  |  |  |  |  |  | － | － |
| 7 | Coal mining |  | － |  | － | － | － |  | － | － | － |
| 8 | Crude petroleum and natural gas |  |  |  |  |  |  |  | － | － |  |
| 9＋10 | Nonmetallic minerals mining | － |  |  | － | － | － | － | － | － | 二 |
| 11 | New construction |  |  |  |  |  |  |  |  | － | － |
| 12 | Maintenance and repair construction | － |  |  | － |  |  |  |  | － | － |
| 13 | Ordnance and accessories | \＄21，180 |  |  | － |  | － |  | － | － | － |
| 14 | Food and kindred products |  | 407，209 | － | － |  | － | \＄7 |  | － | \＄18 |
| 15 | Tobacco products | － |  | \＄40，124 |  | \＄254 |  |  | － | － | 4 |
| 16 | Broad and narrow fabrics，yarn and thread mills | － |  |  | \＄37，131 | $\$ 254$ 16.995 | \＄226 | 1，675 | 1 | \＄1 | 1 96 |
|  | Miscellaneous textile goods and floor coverings |  |  |  |  | 16，995 | 6 |  | 1 | \＄1 | 96 |
| 18 | Apparel | － | － | － | 265 | 34 | 68，354 | 314 | － | $\overline{-}$ | 2 |
| 19 | Miscellaneous fabricated textile products | － | － |  | 80 | 48 | 13 | 18，650 | 4 | 40 | 26 |
| $20+21$ | Lumber and wood products | － | 1 |  | － |  | － |  | 86，328 | 161 | 24 |
| $22+23$ | Furniture and fixtures | 5 | － |  |  |  | － | 20 | 127 | 42，228 | 11 |
| 24 | Paper and allied products，except containers | － | － | 23 | － | 239 | － | 36 | 112 | 17 | 96，241 |
| 25 | Paperboard containers and boxes | － | 7 | － | － | － | － |  | 9 | － | 81 |
| 26A | Newspapers and periodicals | － |  |  | － | 1 | － |  | － | － |  |
| 26 B | Other printing and publishing | － | 100 | － | － | 31 | － | 19 | 1 | － | 570 |
| 27A | Industrial and other chemicals | 1 | 328 |  | － | 3 | － |  | 4 | 2 | 19 |
| 27B | Agricultural fertilizers and chemicals | － | 62 | － | － | － | － | － | 9 | － | 1 |
| 28 | Plastics and synthetic materials | － | $\bar{\square}$ | － | － | 219 | － | － |  | － | － |
| 29A | Drugs | － | 38 | － | － |  | － | 3 |  | － | 23 |
| 29B | Cleaning and toilet preparations | － | 49 | － | － | 1 | － | 3 | － | － | 23 |
| 30 | Paints and allied products | － | － | － | － | － | － | － | － | － | 6 28 |
| 31 | Petroleum refining and related products | － | － | － | － | － | － | － | － | － | 28 |
| 32 | Rubber and miscellaneous plastics products | 5 | 34 | － | 5 | 52 | $\square$ | 48 | 172 | 42 | 454 |
| $33+34$ | Footwear，leather，and leather products | － | 9 | － | 8 | － | 11 | 23 | 1 | 4 | － |
| 35 | Glass and glass products | － | － | － | － | $\bar{\square}$ | － | 3 | 3 | 15 | － |
| 36 | Stone and clay products | － | 1 | － | － | 69 | － | 7 | 14 | 5 | 133 |
| 37 | Primary iron and steel manufacturing | － | － | － | － | － | － | 2 |  | － | 2 |
| 38 | Primary nonferrous metals manufacturing | － | － | － | 2 | － | － | － | － | 1 | － |
| 39 | Metal containers | － | － | － | － | － | － | － | $\overline{71}$ |  | － |
| 40 | Heating，plumbing，and fabricated structural metal products | ${ }_{1}$ | － | － | － | － | － | 1 | 71 | 67 | － |
| 41 | Screw machine products and stampings | 1 | － | － | － | － | － | 2 | 3 | 8 | － |
| 42 | Other fabricated metal products | 4 | － | － | － | 5 | － | 8 | 29 | 49 | 229 |
| － 43 | Engines and turbines | 5 |  | － | － | － | － | － | － | － | － |
| $44+45$ | Farm，construction，and mining machinery | 5 | 4 | － | － | － | － | － | 4 | 6 | － |
| 46 | Materials handling machinery and equipment | － | 4 | － | － | － | － | － | 1 | 33 | － |
| 47 | Metalworking machinery and equipment Special industry machinery and equipment | 二 | $\overline{15}$ | － | 二 | －2 | 二 | － | － | 2 | 二 |

Service industry ande equipment
Service industry machinery
Electrical industrial equipment and apparatus
54
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment
Electronic components and accessories
Miscellaneous electrical machinery and supplies
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
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
In-house transportation Commications, except radio and TV
Radio and TV broadcasting
Electric services (utilities)
Gas production and distribution (utilities)
Water and sanitary services
Wholesale trade
Retail trade
Retail trade
Finance
Insurance
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except aut
Computer and data processing services
Computer and data processing services
Other business and professional services, except medical
73D
Advertising
Eating and drinking places
Automotive rep
Amusements
Health 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

## Table A（continued） <br> Detailed Make of $\mathbf{1 0 0}$ Commodities by $\mathbf{1 0 0}$ Industries

| （Millions of dollars at producers＇prices） |  |  |  |  |  |  |  | EY：－＝Value too small to report |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry number | Commodity number | Paperboard containers and boxes | News－ papers and periodicals | $\begin{array}{r} \text { Other } \\ \text { printing } \\ \text { and } \\ \text { publishing } \end{array}$ | Industrial and other chemicals | Agricultural fertilizers and chemicals | $\begin{array}{r} \text { Plastics } \\ \text { and } \\ \text { synthetic } \\ \text { materials } \end{array}$ | Drugs | Cleaning and toilet prepar－ ations | Paints and allied products | Petroleum refining and related products |
|  |  | （25） |  | （26B） | （27A） | （27B） | （28） | （29A） | （29B） | （30） | （31） |
| 1 | Livestock and livestock products |  | － | － | － | － | － | － | － | － | － |
| 2 | Other agricultural products | － |  | － | － | － | － | － | － | － | － |
| 3 | Forestry and fishery products |  |  | － | － | － | － | － | － | － | － |
| 4 | Agricultural，forestry，and fishery services | － |  | － |  | － | － | － | － | － | － |
| $5+6$ | Metallic ores mining | － |  | － | \＄2 | － | － | － | － | － | － |
| 7 | Coal mining | － | － | － | 8 | － | － | － | － | － | － |
| 8 | Crude petroleum and natural gas | － |  | － | 102 | － | － | － | － | － | \＄7，654 |
| 9＋10 | Nonmetallic minerals mining | － | － | － | 1，535 | － | － | － | － | － | 69 |
| 11 | New construction |  |  | － |  | － | － | － | － | － | － |
| 12 | Maintenance and repair construction | － | － | － | － | － | － | － | － | － | － |
| 13 | Ordnance and accessories |  | － | － | 38 |  | － | － | \＄8 | － | － |
| 14 | Food and kindred products | \＄8 | － | － | 800 | \＄2 | － | \＄179 | 81 | － | － |
| 15 | Tobacco products | － | － | － | 13 |  |  | － | － | － | － |
| 16 | Broad and narrow fabrics，yarn and thread mills | － | － | － | － | － | \＄2，338 | － | － | － | $\bar{\square}$ |
| 17 | Miscellaneous textile goods and floor coverings | 3 |  | － | － | － | 116 | 2 | － | － | 25 |
| 18 | Apparel | － | － | － | － | － | 3 | － | 3 | － | － |
| 19 | Miscellaneous fabricated textile products | － | － | \＄18 | ， | 7 | － | － | 15 | － | － |
| $20+21$ $22+23$ | Lumber and wood products | 11 | － | － | 9 | 7 | － | － | － | $\overline{5}$ | 二 |
| $22+23$ 24 | Furniture and fixtures |  | － | 3 | －13 | － | － | － | － | \＄1 | － |
| 24 | Paper and allied products，except containers | 108 | － | 341 | 213 | － | － | 1 | 333 | 7 | － |
| 25 | Paperboard containers and boxes | 31，260 | － | 48 | － | － | － | － | 3 | － | － |
| 26A | Newspapers and periodicals | $\overline{31}$ | \＄18，942 | 2，376 | 9 | － | － | － | － | － |  |
| 26 B | Other printing and publishing | 34 | 953 | 78，033 | 969 ${ }^{9}$ |  | 5575 |  |  | － |  |
| 27 A | Industrial and other chemicals |  |  | 2 | 96，890 | 886 | 5，575 | 469 | 1，468 | 240 | 2，136 |
| 27B | Agricultural fertilizers and chemicals | － | － | － | 1，218 | 16，041 | 334 | 93 | 44 | － | 10 |
| 28 | Plastics and synthetic materials | － | － | － | 4，718 | 235 | 41，780 | 137 | 86 | 15 | 17 |
| 29 A | Drugs | － | － | － | 578 | 173 | 10 | 60，829 | 761 |  |  |
| 29B | Cleaning and toilet preparations | － | － | － | 944 | 358 | 150 | 340 | 37，522 | 38 | 73 |
| 30 | Paints and allied products | － | － | － | 81 | 5 | 114 |  | 9 | 13，893 | 7 |
| 31 | Petroleum refining and related products | － | － | － | 5，318 | 100 | 125 | 3 | 100 | 6 | 139，755 |
| 32 | Rubber and miscellaneous plastics products | 141 | － | 21 | 156 | 26 | 372 | 2 | 31 | 34 | 1 |
| $33+34$ | Footwear，leather，and leather products | 1 | － | 15 | － |  | － | － | － | － |  |
| 35 | Glass and glass products | 33 | － | － | $\overline{-1}$ | － |  |  | $\bar{\square}$ | － |  |
| 36 37 | Stone and clay products |  | － | － | 104 | 2 | 8 | 37 | 27 | 19 | 65 |
| 37 | Primary iron and steel manufacturing | － | － | － | 27 | 5 | 1 |  |  |  |  |
| 38 | Primary nonferrous metals manufacturing | 2 | － | $\overline{11}$ | 187 | － | － | － | － | － |  |
| 39 | Metal containers | 29 | － | 11 | － | － | － | － | － | － | － |
| 40 | Heating，plumbing，and fabricated structural metal products | － | － | － | 34 | － | 1 | － | － | － | － |
| 41 | Screw machine products and stampings | 4 | － | 2 | $\bigcirc$ | 1 | － | － | － | 1 |  |
| 42 | Other fabricated metal products | 106 | － | 110 | 3 | 1 | － | － | 1 | 3 | － |
| 43 | Engines and turbines | － | － | $\overline{27}$ | － | － | － | － | － | － | － |
| $44+45$ | Farm，construction，and mining machinery | － | － | 27 | － | － | － | － | － | － | 4 |
| 46 | Materials handling machinery and equipment | 二 | － | $\bigcirc$ | 51 | 二 | 二 | 二 | $\bigcirc$ | 二 | － |
| 47 48 | Metalworking machinery and equipment Special industry machinery and equipment | 二 | － | 1 | 51 26 | － | 二 | － | 1 | 二 | － |
|  | Special industry machinery and equipment | － |  |  |  |  |  |  |  |  | － |

Service industry machinery
Electrical industrial equipment and apparatus

54 Household appliances Electric lighting and wiring equipment Audio, video, and communication equipmen Electronic components and accessories Miscellaneous electrical machinery and supplie 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
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
Computer and data processing services
Legal, engineering, accounting, and related services
Other business and professional services, except medical

73 D
Advertising
Eating and drinking places
Automotive repair and service
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

14,379

## Table A（continued）．

## Detailed Make of $\mathbf{1 0 0}$ Commodities by $\mathbf{1 0 0}$ Industries

（Millions of dollars at producers＇prices）
KEY：$-=$ Value too small to report

| Industry |  | Rubber and miscella－ neous plastics products | Footwear， leather， and leather products | 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 | Other fabri－ cated metal products |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| number | Commodity number | （32） | （33＋34） | （35） | （36） | （37） | （38） | （39） | （40） | （41） | （42） |
| 1 | Livestock and livestock products | － |  |  | － |  |  | － |  |  | － |
| 2 | Other agricultural products | － |  | － | － | － |  | － |  | － | － |
| 3 | Forestry and fishery products |  |  |  | － | － |  | － |  | － | － |
| 4 | Agricultural，forestry，and fishery services |  |  |  |  |  |  |  |  | － |  |
| $5+6$ | Metallic ores mining |  | － | － | \＄2 | － |  | － | － | － | － |
| 7 | Coal mining | － | － | － | － | － |  | － | － | － | － |
| 8 | Crude petroleum and natural gas |  |  |  | － |  |  | － |  | － | － |
| 9＋10 | Nonmetallic minerals mining |  |  | － | 344 | － |  | 二 | － | － | 二 |
| 11 | New construction |  |  |  |  | － |  | － | － | － | － |
| 12 | Maintenance and repair construction | － | － | － | － | － | － | － | － | － | － |
| 13 | Ordnance and accessories | － | － | － | － | \＄12 | \＄13 | － | \＄9 | \＄19 | \＄4 |
| 14 | Food and kindred products | \＄27 | \＄143 | － | － |  |  | \＄3 |  | － |  |
| 15 | Tobacco products |  | 2 | 二 | 二 | － |  |  | 二 | 二 | 7 |
| 16 | Broad and narrow fabrics，yarn and thread mills Miscellaneous textile goods and floor coverings | 2 | 2 |  | 二 | － | 1 | 二 | － | － | 7 5 |
|  | Miscellaneous textile goods and floor coverings | 99 | 29 | － | － | － | 1 | － | － | － | 5 |
| 18 | Apparel | 37 57 | 42 | － | － | － |  | － | 1 | 2 | 9 |
| 19 +1 | Miscellaneous fabricated textile products | 57 79 | 12 | \＄61 | 7 | － |  | － | 1 79 | 2 3 | 26 |
| 20＋21 | Lumber and wood products | 79 | $\bigcirc$ | \＄61 | 7 | 17 | 8 |  | 79 | 3 | 28 |
| $22+23$ 24 | Furniture and fixtures Paper and allied products，except containers | 67 | 1 | 97 | ${ }^{8} 8$ | 17 | 8 | 7 | 37 | 11 3 | 107 259 |
| 25 | Paperboard containers and boxes | 303 |  |  | － |  |  | 29 | － | 1 | 2 |
| 26 A | Newspapers and periodicals | － | － | － | － | － | － | － |  | － |  |
| 26B | Other printing and publishing | 14 | 41 | 7 | 3 | － | － | 155 | － | 1 | 67 |
| 27A | Industrial and other chemicals | 294 | － | 7 | 117 | 26 | 1，222 | － | 2 | － | 14 |
| 27B | Agricultural fertilizers and chemicals | 1 | 1 | － | 1 |  |  | － | 1 | － | 1 |
| 28 | Plastics and synthetic materials | 788 | － | － | 3 | 2 | － | － | － | － | － |
| 29 A | Drugs | 2 | － | － | － | － | － | － | － | － | $\square$ |
| 29 B | Cleaning and toilet preparations | 17 | － | － | 14 | － | － | － | － | － |  |
| 30 | Paints and allied products | 3 | － | 16 | 22 | － | － | － |  | － |  |
| 31 | Petroleum refining and related products | 13 | － | 16 | 80 | 4 | － | － | － | － |  |
| 32 | Rubber and miscellaneous plastics products | 107，428 | 17 | 59 | 6 | 29 | 105 | 10 | 118 | 120 | 242 |
| $33+34$ | Footwear，leather，and leather products | 33 | 9，226 |  | － | － |  | － | － | 1 |  |
| 35 | Glass and glass products | 64 | － | 17，551 |  | － | $\bar{\square}$ | － | 10 | 35 |  |
| 36 | Stone and clay products | 125 | － | 49 | 41，399 | 13 | 34 | － | 29 | 26 | 33 |
| 37 | Primary iron and steel manufacturing | 3 | － | － | 9 | 72，986 | 452 | － | 121 | 18 | 2，182 |
| 38 | Primary nonferrous metals manufacturing | 39 | － | 60 | 8 | 342 | 62，324 | － | － | 38 | 21 |
| 39 | Metal containers | 13 | － | － | － | － | 1 | 12，986 | 3 | 1 | 21 |
| 40 | Heating，plumbing，and fabricated structural metal products | 412 | － | 23 | 34 | 43 | 80 | 28 | 47，327 | 176 | 439 |
| 41 | Screw machine products and stampings | 59 | 2 | 6 | 8 | 6 | 19 | 14 | 40 | 32，765 | 158 |
| 42 | Other fabricated metal products | 253 | 12 | 4 | 34 | 90 | 76 | ， | 268 | 185 | 51，070 |
| 43 | Engines and turbines | $\bigcirc$ | － | － | － | 12 | － | － | 93 | 5 | 15 |
| $44+45$ | Farm，construction，and mining machinery | 3 | － | － | － | 71 | － | － | 68 | 336 | 190 |
| 46 | Materials handling machinery and equipment | 13 | － | － | $\overline{47}$ | 2 | － | － | 36 | 2 | 21 |
| 47 | Metalworking machinery and equipment | 57 | － | － | 47 | 54 | 8 | － | 23 | 87 | 128 |
| 48 | Special industry machinery and equipment | 34 | － | 1 | 4 | 13 | 3 | － | 18 | 3 | 37 |


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

111,813


## Table A (continued)

Detailed Make of $\mathbf{1 0 0}$ Commodities by $\mathbf{1 0 0}$ Industries
(Millions of dollars at producers' prices)
KEY: $-=$ Value too small to report
Industry

Livestock and livestock product
Other agricultural products
Forestry and fishery product
Agricultural, forestry, and fishery services
Metallic ores mining
Coal mining
Crude petroleum and natural gas
Nonmetallic minerals mining
New construction
Maintenance and repair construction
Ordnance and accessories
Food and kindred products
Tobacco products
16 Broad and narrow fabrics, yarn and thread mills
Miscellaneous textile goods and floor coverings
18 Apparel
Miscellaneous fabricated textile products
$20+21$
$22+23$
Lumber and wood products
Furniture and fixtures
4 Paper and allied products, except containers
25 Paperboard containers and boxes
Newspapers and periodicals
Other printing and publishing
Industrial and other chemicals
Agricultural fertilizers and chemicals
28 Plastics and synthetic materials
Drugs
Cleaning and toilet preparations
Paints and allied products
Paints and alified products
Petroleum refining and related products

| 32 | $\begin{array}{l}\text { Rubber and miscellaneous plastics products } \\ 33+34\end{array}$ |
| ---: | :--- |
| Footwear, leather, and leather products |  |

    \(33+32\)
    35
    36
37
Glass and glass products
Stone and clay products
Primary iron and steel manufacturing
Primary nonferrous metals manufacturing
Metal containers and fabricated structur
Heating, plumbing, and Screw machine products and stampings
Other fabricated metal products
Engines and turbines
$+45$
Farm, construction, and mining machinery
Materials handling machinery and equipment
Metalworking machinery and equipment
Special industry machinery and equipment
C
-

```
49 General industrial machinery and equipment
    Miscellaneous machinery, except electrical
    51
    Service industry machinery
    Electrical industrial equipment and apparatus
5 4
Household appliances
Electric lighting and wiring equipment
56 Audio, video, and communication equipment
57
作ectronic components and accessories 
59A
Motor vehicles (passenger cars and trucks)
9B Truck and bus bodies, trailers, and motor vehicles parts
Aircraft and parts
Other transportation equipment
62 Scientific and controlling instruments
6 3 \text { Ophthalmic and photographic equipment}
64
Railroads and relaufacturing services; passenger ground transportation
Rairoads and related services; passenger gro
65B
Water transportation
65D A
Air transportation 
Pipelines, freight forwarders, and
In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
67
Electric services (utilities)
Gas production and distribut
Wholesale trade
Retail trade
Finance
OB Insurance
1A Owner-occupied dwellings
71B Real estate and royalties
72A Hotels and lodging places
Personal and repair services (except auto)
Computer and data processing services
3B Legal, engineering, accounting, and related services
Other business and professional services, except medical73 D
74
75
Advertising 
Eating and drinking places
75 Automotive repair and services
76
Amusements
7B
Educational and social services, and membership organizations
Federal Government enterprises
State and local government enterprises
General government industry
Household industry
85 Inventory valuation adjustment
Total commodity output
```



## Table A（continued）．

Detailed Make of $\mathbf{1 0 0}$ Commodities by 100 Industries
（Millions of dollars at producers＇prices）
KEY：$-=$ Value too small to report

| Industry |  | 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 |  | Scientific and controlling instruments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| number | Commodity number | （54） | （55） | （56） | （57） | （58） | （59A） | （59B） | （60） | （61） | （62） |
| 1 | Livestock and livestock products | － | － | － | － | － | － | － | － | － | － |
| 2 | Other agricultural products | － | － | － | － | － |  | － | － | － | － |
| 3 | Forestry and fishery products | － |  | － |  |  |  | － | － | － | － |
| 4 | Agricultural，forestry，and fishery services |  |  |  |  |  |  |  |  | － |  |
| $5+6$ | Metallic ores mining |  |  | － |  | － | － | － | － | － | － |
| 7 | Coal mining | － | － | － | － | － | － | － | － | － | － |
| 8 | Crude petroleum and natural gas |  |  |  |  |  |  | － | － | － |  |
| 9＋10 | Nonmetallic minerals mining | － |  |  |  |  |  | － | － | － | － |
| 11 12 | New construction | － |  |  |  |  |  | － | － |  |  |
| 12 | Maintenance and repair construction | － |  | － |  | － | － | － | － | － | － |
| 13 | Ordnance and accessories | － | － | \＄116 | \＄16 | \＄47 | － | \＄8 | \＄2，986 | － | \＄1，235 |
| 14 | Food and kindred products | 二 | 二 | － |  | 二 |  |  |  | 二 |  |
| 15 16 | Tobacco products Broad and narrow fabrics，yarn and thread mills | 二 |  |  |  | 二 |  | 二 | 二 | 二 | 10 |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | － | － | － | － | 26 |
| 18 | Apparel | － | － | － | － | － | － | － | － | － | 49 |
| 19 | Miscellaneous fabricated textile products | \＄5 | － | － | － | － | － | － | － | － | 3 |
| $20+21$ | Lumber and wood products | $\bigcirc$ | \＄2 | － | 8 | － | － | － | － | － | 3 |
| $22+23$ | Furniture and fixtures | 17 | 31 | 12 | 22 | － | － | 5 | － | \＄4 | 14 |
| 24 | Paper and allied products，except containers |  |  | 12 |  | 371 | － | － | － | － | 151 |
| 25 | Paperboard containers and boxes | － | － | － | － | － | － | － | － | － | － |
| 26 A | Newspapers and periodicals | － | － | － | 1 | － | － | － | － | － | 14 |
| 26 B | Other printing and publishing | － | － | － | 1 | ${ }^{-}$ | － | － | － | － | 10 |
| 27 A | Industrial and other chemicals | － | 2 | － | 8 | 3 |  | － | － | － | 17 |
| 27B | Agricultural fertilizers and chemicals | － |  | － |  | 1 | － | － | － | － |  |
| 28 | Plastics and synthetic materials | － | － | － | － | － | － | － | － | － | － |
| 29 A | Drugs | － |  | － |  | － |  |  | － | － | 240 |
| 29 B | Cleaning and toilet preparations | 4 | － | － | － | 4 | － | － | － | － | 20 |
| 30 | Paints and allied products | － | － | － | － | － | － | － | 29 | － | － |
| 31 | Petroleum refining and related products | － |  | － | － | － | － | － | － | － | － |
| 32 | Rubber and miscellaneous plastics products | 116 | 150 | 1 | 84 | 8 | － | 26 | 6 | 5 | 107 |
| 33＋34 | Footwear，leather，and leather products | － |  | － | － | － | － | $\bar{\square}$ | 1 | － | 13 |
| 35 | Glass and glass products | 二 |  | 二 |  |  | 二 | 25 | 1 5 | 二 | 37 |
| 36 | Stone and clay products | 二 | －9 | 二 | 28 5 | 17 | 二 | 41 175 | 5 | 二 | 22 |
| 37 | Primary iron and steel manufacturing | － | 173 | － | 5 |  | － | 175 | － | － | 62 |
| 38 | Primary nonferrous metals manufacturing | － | 13 | 143 | 106 | 12 | － | － | 3 | － | 7 |
| 39 | Metal containers | $\bar{\square}$ | 7 |  |  | ， | － |  |  |  |  |
| 40 | Heating，plumbing，and fabricated structural metal products | 97 | 7 | － | 12 | 6 | － | 39 | 5 | 21 | 22 |
| 41 | Screw machine products and stampings | 60 | 13 | 4 | 16 | 2 | － | 295 | 71 | 9 | 11 |
| 42 | Other fabricated metal products | ， | 47 | － | 28 | ， | － | 105 | 71 | 22 | 254 |
| 43 | Engines and turbines | － | － | － | － | 3 | － | 170 | 148 | 5 | 2 |
| $44+45$ | Farm，construction，and mining machinery | 3 | 58 | － | － | 1 | － | 137 | 11 | 275 | 13 |
| 46 | Materials handling machinery and equipment | $-$ | 1 | － | － | － | － | 8 | 1 | 12 | － |
| 47 | Metalworking machinery and equipment | 79 | 15 | － | 12 | 7 | － | 9 | 3 | 4 | 30 |
| 48 | Special industry machinery and equipment | 25 | 7 | － | 30 | 4 | － | 10 | － | － | 28 |

Service industry machinery
Electrical industrial equipment and apparatus

Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipmen Electronic components and accessories
Miscellaneous electrical machinery and supplie
Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts Aircraft and parts
Scientific and contron equipment
Scientific and controlling instruments
Ophthalmic and photographic equipment Miscellaneous manufacturing Rairroa freigh transportavices; passenger ground transportation Water transportation
Air 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 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
State and local government enterprises Household industry
-
Inventory valuation adjust
Total commodity output


147,890
1,765

> 29,
> 100,484

## Table A（continued） <br> Detailed Make of 100 Commodities by 100 Industries

（Millions of dollars at producers＇prices）
KEY：$-=$ Value too small to report

| 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 <br> trans－ portation | $\begin{array}{r} \text { Communi- } \\ \text { cations, } \\ \text { except } \\ \text { radio } \\ \text { and TV } \end{array}$ | Radio and TV broad－ casting |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| number | Commodity number | （63） | （64） | （65A） | （65B） | （65C） | （65D） | （65E） | （65G） | （66） | （67） |
| 1 | Livestock and livestock products | － | － | － | － | － | － | － | － | － | － |
| 2 | Other agricultural products | － | － | － | \＄11 | － | － | － | － | － | － |
| 3 | Forestry and fishery products | － | － | － |  |  | － |  | － | － | － |
| 4 | Agricultural，forestry，and fishery services | － | － |  |  |  | － |  | － | － | － |
| $5+6$ | Metallic ores mining | － | － | － |  | － | － | － | － | － | － |
| 7 | Coal mining | － | － | － | － | － | － | － | － | － | － |
|  | Crude petroleum and natural gas | － | － | － |  |  | － |  | － | － | － |
| 9＋10 | Nonmetallic minerals mining | 二 | － |  |  | － | － | － | － | － | － |
| 11 12 | New construction | － | － |  |  |  | － |  | － | － | － |
| 12 | Maintenance and repair construction |  |  | － | － | － | － | － | － | － | － |
| 13 | Ordnance and accessories | － | － | － | － | － | － |  | － | － | － |
| 14 | Food and kindred products | － | 二 |  |  |  | － |  | － | － | － |
| 15 | Tobacco products |  |  |  |  |  |  |  | － | － | － |
| 16 | Broad and narrow fabrics，yarn and thread mills | － | － | － |  |  |  |  | － | － | － |
| 17 | Miscellaneous textile goods and floor coverings | － | \＄20 | － | － | － | － | － | － | － | － |
| 18 | Apparel | － | 8 | － | － | － | － | － | － | － | － |
| $\begin{array}{r}19 \\ 20 \\ \hline 21\end{array}$ | Miscellaneous fabricated textile products Lumber and wood products | \＄2 | 53 12 | 二 | 二 | 二 | 二 | 二 | 二 | 二 | － |
| $22+23$ | Furniture and fixtures | － | 41 | － | － | － | － | － | － | － | － |
| 24 | Paper and allied products，except containers | 10 | 100 | － | － | － | － | － | － | － | － |
| 25 | Paperboard containers and boxes | － | 38 | － | － | － | － | － | － | － | － |
| 26A | Newspapers and periodicals | $\square$ | － | － | － | － | － | － | － | － | － |
| 26B | Other printing and publishing | 4 | 301 | － | － | － | － | － | － | － | － |
| 27 A | Industrial and other chemicals Agricultural fertilizers and chemicals | 7 | 16 | － | － | － | － |  | 二 | 二 | － |
| 27B |  | － | － | － | － | － | － |  | － | － | － |
| 28 | Plastics and synthetic materials | 7 | 7 | － | － | － | － | － | － | 二 | － |
| 298 | Drugs Cleaning and toilet preparations | 17 | 7 46 | 二 | 二 | 二 | 二 |  | 二 | 二 |  |
| 30 | Paints and allied products | － | 18 | － | － | － | － | － | － | － |  |
| 31 | Petroleum refining and related products | － | 9 | － | － | － | － |  | － | － |  |
| 32 | Rubber and miscellaneous plastics products | 25 | 230 | － | － | － | － | － | － | － | － |
| $33+34$ | Footwear，leather，and leather products |  | 15 | － | － | － | － | － | － | － |  |
| 35 | Glass and glass products | － | 5 | 二 | － | － | 二 | － | － | 二 |  |
| 36 | Stone and clay products | 1 | 30 | － |  |  | 二 | － | － | 二 |  |
| 37 | Primary iron and steel manufacturing | － | 3 | － | － | － | － | － | － | － | － |
| 38 | Primary nonferrous metals manufacturing | － | 5 | － | － | － | － |  | － | － | － |
| 39 | Metal containers | － | － | － | － | － | － | － | － | － | － |
| 40 | Heating，plumbing，and fabricated structural metal products | － | ${ }_{6}^{6}$ | － | － | － | － | － | － | － | － |
| 41 | Screw machine products and stampings | － | 27 | － | － | － | － | － | － | － | － |
| 42 | Other fabricated metal products | 1 | 54 | － | － | － | － | － | － | － | － |
| 43 | Engines and turbines | － | － | － | － | － | － | － | － | － | － |
| $44+45$ 46 | Farm，construction，and mining machinery | － | 2 | 二 | 二 | － | － | － | － | － | － |
| 47 | Metalworking machinery and equipment | － | 1 | － | － | － | － | － | － | － | － |
| 48 | Special industry machinery and equipment | 11 | 3 | － | － | － | － | － | － | － | － |

Service industry machinery
Electrical industrial equipment and apparatus

Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipmen 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
Scientific and contron equipment
Scientific and controlling instruments
Ophthalmic and photographic equipment Miscellaneous manufacturing Railor freight transportatices; passenger ground transportation Water transportation
Air transportation
Air transportation
Pipelines, freight forwarders, and related services Pipelines, freight forwarders, and
State and local passenger transit In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
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
Educational and social services,
membership organizations Federal Government enterprises
State and local government enterprises Household industry
bousenold dustry
Inventory valuation adjust
Total commodity output

[^16]155,5 \$32 - 194 $\$ 94,1$
2,6

## \$28,9

\$165
\$205,9
\$2,674



49
50 General industrial machinery and equipmen 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 Air transportatio Air transportation
Pipelines, freight forwarders, and related services State and local passenger transi In-hour thation Communications, except radio and TV Radio and TV broadcasting Electric services (utilities) Water and sanitary services

## Wholesale trade

Retail trade
Finance
Owner-occupied dwellings Real estate and royalties
Hotels and lodging places
Hotels and lodging places
Personal and repair services (except auto) Personal and repair services (except auto)
Computer and data processing services Lemputer and data processing services Other business and professional services, except medical
73D

## Advertising

Eating and drinking places Automotive repair and services Amusements
Health service
Educational and social services, and membership organizations Federal Government enterprises

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State and local government enterprises
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General government industry
Household industry

Inventory valuation adjustment Total commodity output


Table A（continued）．
Detailed Make of $\mathbf{1 0 0}$ Commodities by 100 Industries
（Millions of dollars at producers＇prices）
KEY：$-=$ Value too small to report

| Industry |  | Personal and repair services （except auto） | $\begin{array}{\|r} \text { Computer } \\ \text { and data } \\ \text { processing } \\ \text { services } \\ \hline \end{array}$ | Legal， engineering， accounting， and related services | $\begin{array}{r} \text { Other } \\ \text { business and } \\ \text { professional } \\ \text { services } \\ \text { except medical } \end{array}$ | Adver－ tising | Eating drinking places |  | 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 | － | － | － | － | － | － | － | \＄534 | － | － |
| 2 | Other agricultural products |  | － | － |  | － | － | － | 504 | － | － |
| 3 | Forestry and fishery products | － | － | － |  | － | － | － | － | － | － |
| 4 | Agricultural，forestry，and fishery services | － | － | － |  | － | － | － | － | － | － |
| $5+6$ | Metallic ores mining | － | － | － | － | － | － | － | － | － | － |
| 7 | Coal mining | － | － | － | － | － | － | － | － | － | － |
| －${ }_{8}^{8}$ | Crude petroleum and natural gas | － |  |  |  |  | 二 | 二 | － | 二 | － |
| $9+10$ 11 | Nonmetallic minerals mining New construction | 二 | 二 | 二 | 二 | 二 | 二 | 二 | 二 | 二 | 二 |
| 12 | Maintenance and repair construction | － | － | － | － | － | － | － | － | － | － |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | － | － | － |
| 14 | Food and kindred products | － | － | － |  | － | － | － | － | － | － |
| 15 | Tobacco products | － | － | － |  | － | － | － | － | － | － |
| 16 | Broad and narrow fabrics，yarn and thread mills | － | － | － |  | － | － | － | － | － | － |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | － | － | － | － | － |
| 18 | Apparel | － | － | － | － | － | － | － | － | － | － |
| 19 20 ＋21 | Miscellaneous fabricated textile products Lumber and wood products | － | 二 | 二 |  |  | 二 |  | － | 二 | － |
| $22+23$ | Furniture and fixtures | － | 二 | 二 | 二 | － | － | － | － | － | － |
| 24 | Paper and allied products，except containers | － | － | － |  | － | － | － | － | － | － |
| 25 | Paperboard containers and boxes | － | － | － | － | －$\overline{-}$ | － | － | － | － | － |
| 26A | Newspapers and periodicals | － | － | － | － | \＄35，360 | － | － | － | － | － |
| 26 B | Other printing and publishing | － | － | 二 | 二 | 30，114 | － | － | － | － | － |
| 27A | Industrial and other chemicals | － | － | － |  |  | － | － | － | － | － |
| 27B | Agricultural fertilizers and chemicals | － | － | － | － | － | － | － | － | － | － |
| 28 | Plastics and synthetic materials | － | － | － | － | － | － | － | － | － | － |
| 29 A | Drugs | － | 二 | 二 | 二 | 二 | － | 二 | － | － | － |
| 298 30 | Cleaning and toilet preparations Paints and allied products | － | 二 | 二 | － | 二 | － | － | 二 | 二 | 二 |
| 31 | Petroleum refining and related products | － | － | － | － | － | － | － | － | － | － |
| 32 | Rubber and miscellaneous plastics products | － | － | － | － | － | － | － | － | － | － |
| $33+34$ | Footwear，leather，and leather products |  | － | － | － | － | － | － | － | － | － |
| 35 | Glass and glass products | － | － | － | － | － | － | － | － | － | － |
| 36 | Stone and clay products | － | － | － | － | － | － | － | － | － | － |
| 37 | Primary iron and steel manufacturing | － | － | － | － | － | － | － | － | － | － |
| 38 | Primary nonferrous metals manufacturing | － | － | － | － | － | － | － | － | － | － |
| 39 | Metal containers | － | － | 二 | 二 | 二 | 二 | － | － | 二 | － |
| 40 | Heating，plumbing，and fabricated structural metal products | － | 二 | 二 | 二 | 二 | － | 二 | 二 | － | 二 |
| 42 | Other fabricated metal products | 二 | － | － | － | － | － | － | － | － | － |
| 43 | Engines and turbines | － | － | － | － | － | － | － | － | － | － |
| 44＋45 | Farm，construction，and mining machinery | － | － | － | \＄80 | － | － | － | － | － | － |
| 46 | Materials handling machinery and equipment | － | － | － | － | － | － | － | － | － | － |
| 47 | Metalworking machinery and equipment | － | － | － | － | － | － | － | － | － | － |
| 48 | Special industry machinery and 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 Aircraft and parts
Other transportation equipment
Scientific and controlling instrume
Ophthalmic and photographic equipment Miscellaneous manufacturing Rairroa friont transportation Mater transportation
War transportation
Air transportation
Pipelines, freight forwarders, and related services Pipelines, freight forwarders, and
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 Federal Government enterprises
State and local government enterprises Household industry
ouser
Inventory valuation adjustme
Total commodity output


| Table A（continued）． <br> Detailed Make of 100 Commodities by 100 Industries <br> （Millions of dollars at producers＇prices） |  | KEY：$-=$ Value too small to report |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry number | Commodity number | Federal Government enterprises | State and local gov－ ernment enterprises | Scrap， used and second－hand goods | General government industry | Household industry | Inventory valuation adjustment | $\begin{array}{r} \text { Total } \\ \text { industry } \\ \text { output } \end{array}$ |
|  |  | （78） | （79） | （81） | （82） | （84） | （85） |  |
| 1 | Livestock and livestock products |  | － | － | － | － | － | \＄91，504 |
| 2 | Other agricultural products |  | － | － |  | － | － | 108，294 |
| 3 | Forestry and fishery products |  | － | － |  | － | － | 9，613 |
| 4 | Agricultural，forestry，and fishery services | － | － | － | － | － | － | 28，251 |
| $5+6$ | Metallic ores mining | － | － | － | － | － | － | 10，749 |
| 7 | Coal mining | － | － | － | － | － | － | 26，917 |
| ${ }^{8}$ | Crude petroleum and natural gas | － | － | － | － | － | － | 105，369 |
| 9＋10 | Nonmetallic minerals mining | － | － | － | － | － | － | 13，682 |
| 11 | New construction | － | － | － |  | － | － | 456，949 |
| 12 | Maintenance and repair construction | － | － | － | － | － | － | 222，381 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | 25，760 |
| 14 | Food and kindred products | － | － | $\bar{\square}$ |  | － | － | 408，482 |
| 15 | Tobacco products | － | － | \＄5 | － | － | － | 40，146 |
| 16 | Broad and narrow fabrics，yarn and thread mills |  | － | － | － | － | － | 41，646 |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | － | 17，580 |
| 18 | Apparel | － | － | － | － | － | － | 69，132 |
| 19 | Miscellaneous fabricated textile products | － | － | ， | － | － | － | 19，055 |
| $20+21$ | Lumber and wood products | － | － | 36 | － | － | － | 86，865 |
| $22+23$ | Furniture and fixtures | － | － | 12 | － | － | － | 42，977 |
| 24 | Paper and allied products，except containers | － | － | 79 | － | － | － | 99，613 |
| 25 | Paperboard containers and boxes | － | － | 132 | － | － | － | 31，938 |
| 26A | Newspapers and periodicals | － | － | 19 | － | － | － | 56，711 |
| 26 B | Other printing and publishing | 二 | 二 | 72 | 二 | － | 二 | 110，564 |
| 27 A | Industrial and other chemicals | － | － | 57 | 二 | 二 | － | 109，880 |
| 27B | Agricultural fertilizers and chemicals | － | － | 2 | － | － | － | 17，831 |
| 28 | Plastics and synthetic materials | － | － | 29 | － | － | － | 48，040 |
| 29 A | Drugs | － | － | 18 | － | － | － | 62，674 |
| 29 B | Cleaning and toilet preparations | － | 二 | 11 | 二 | 二 | 二 | 39，628 |
| 30 | Paints and allied products | － | － |  | － | － | － | 14，198 |
| 31 | Petroleum refining and related products | － | － | 19 | － | － | － | 145，709 |
| 32 | Rubber and miscellaneous plastics products | － | － | 64 | － | － | － | 111，361 |
| $33+34$ | Footwear，leather，and leather products | － | － | 12 | － | － | － | 9，368 |
| 35 | Glass and glass products | － | － | 12 | － | － | － | 17，815 |
| 36 | Stone and clay products | － | － | 28 | － | － | － | 42，904 |
| 37 | Primary iron and steel manufacturing | － | － | 31 | － | － | － | 76，565 |
| 38 | Primary nonferrous metals manufacturing | － | － | 57 | － | － | － | 63，773 |
| 39 | Metal containers | － | － | － | － | － | － | 13，065 |
| 40 | Heating，plumbing，and fabricated structural metal products | － | － | 50 | － | － | － | 49，491 |
| 41 | Screw machine products and stampings | － | － | 317 | － | － | － | 34，703 |
| 42 | Other fabricated metal products | － | － | 17 | － | － | － | 53，974 |
| 43 | Engines and turbines | － | － | 17 | － | － | － | 17，044 |
| $44+45$ | Farm，construction，and mining machinery | － | － | 21 | － | － | － | 32，031 |
| 46 | Materials handling machinery and equipment | － | － | 4 | － | － | － | 8，152 |
| 47 | Metalworking machinery and equipment | － | － | 8 | － | － | － | 25，611 |
| 48 | Special industry machinery and equipment | － | － | 5 | － | － | － | 20，231 |

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General industrial machinery and equipment
Miscellaneous machinery, except electrical
Computer and office equipment
Service industry machinery
Electrical industrial equipment and apparatus
54
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment
5 7
Miscellaneous electrical machinery and supplies
Motor vehicles (passenger cars and trucks)
6 0
Truck and bus bodies, trailers, and motor v
Aircraft and parts 
Other transportation equipment 
Scientific and controlling instruments
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
Insurance
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
Legal, engineering, accounting, and related services
Other business and professional services, except medica
73D
Eating and drinking places
Eating and drinking places
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
```

59B
730


## Table B.

Detailed Use of Commodities by Industries
KEY: $-=$ Value too small to report
(Millions of dollars at producers' prices)

```
Computer and office equipmen
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
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 trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output
```



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产䀎





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NMO
Computer and office equipmen
Electrical industrial equipment and apparatus
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
Ophthalmic and photographic
Railroads and related services; passenger ground transportation
Motor freight transportation and warehousing
Water transportation
Air transportation
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
Wholesale trade
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except aut)
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
Federal Government enterprises 
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
Indirect business tax and nontax liability
l
Other value ad
Total industry output
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| Table B（continued）． <br> Detailed Use of Commodities by Industries <br> （Millions of dollars at producers＇prices） |  |  |  |  |  |  | $\begin{aligned} \text { KEY: }-\frac{\text { Value too small to report }}{\mathrm{N}} & =\text { Not applicable } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Paperboard containers and boxes | News－ papers and periodicals | $\begin{array}{r} \text { Other } \\ \text { printing } \\ \text { and } \\ \text { publishing } \end{array}$ | Industrial and other chemicals | Agricultural fertilizers and chemicals | Plastics and synthetic materials | Drugs | Cleaning and toilet prepar－ ations | $\begin{array}{r\|} \hline \text { Paints } \\ \text { and } \\ \text { allied } \\ \text { products } \\ \hline \end{array}$ | Petroleum refining and related products |
|  |  | （25） | （26A） | （26B） | （27A） | （27B） | （28） | （29A） | （29B） | （30） | （31） |
| 1 | Livestock and livestock products |  |  | － |  | － | － |  | \＄41 | － |  |
| 2 | Other agricultural products |  |  | － | \＄587 | － | ， | \＄137 |  |  | \＄1 |
| 3 | Forestry and fishery products |  |  | \＄5 | 29 | \＄10 | \＄1 | 22 | － | \＄7 | 1 |
| 4 | Agricultural，forestry，and fishery services | \＄8 | \＄26 | 29 | 46 | 7 | 16 | 30 | 13 | 4 | 20 |
| $5+6$ | Metallic ores mining |  |  |  | 1，055 | 17 | － | － | － | 20 | 21 |
| 7 | Coal mining | 25 | － | － | 206 | 29 | 58 | 18 | 9 | 2 | 7 |
| 8 | Crude petroleum and natural gas |  | － | － | 3，459 | 624 | 237 | － | － | － | 74，499 |
| 9＋10 | Nonmetallic minerals mining | － | － |  | 1，009 | 918 | － | 1 | 13 | 4 | 407 |
| 11 | New construction |  |  |  | － | － |  |  |  |  | － |
| 12 | Maintenance and repair construction | 159 | 331 | 561 | 1，091 | 148 | 498 | 454 | 215 | 52 | 1，094 |
| 13 | Ordnance and accessories |  |  |  | － |  |  |  |  |  | － |
| 14 | Food and kindred products | － |  |  | 363 | 287 | 52 | 216 | 401 | 129 | 139 |
| 15 | Tobacco products | － |  |  |  | － |  |  |  | － |  |
| 16 | Broad and narrow fabrics，yarn and thread mills | － | － | 72 | － | － | 9 | $\bigcirc$ | 12 | － | － |
| 17 | Miscellaneous textile goods and floor coverings | － | 4 | 41 | 1 | － | 1 | 8 | 12 | － | － |
| 18 | Apparel | － | － | － | － | － | 2 | － | － | － | － |
| 19 | Miscellaneous fabricated textile products | $\bar{\square}$ | $-$ | － | 1 | － | － | 2 | 4 | － | － |
| $20+21$ $22+23$ | Lumber and wood products | 37 | 11 | 7 | 37 | － | － | 1 | 2 | － | 3 |
| $22+23$ 24 | Furniture and fixtures |  | 5089 |  | 290 | $\overline{47}$ | $7 \bar{\square}$ |  | － 117 | 2 | －113 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 26A | Newspapers and periodicals | 21 | 1，149 | 164 | 8 | － | 2 | 66 6 | 1,503 1 1 | － | 133 |
| 26B | Other printing and publishing | 7 | 3，927 | 12，340 | 19 | 106 | 1 | 387 | 160 | 11 | 7 |
| 27A | Industrial and other chemicals | 661 | 411 | 1，977 | 25，203 | 1，946 | 16，336 | 1，529 | 3，859 | 2，895 | 2，093 |
| 27B | Agricultural fertilizers and chemicals |  | － | － | 926 | 2，046 | 226 | － | － | － | － |
| 28 | Plastics and synthetic materials | 151 | － | 7 | 860 | － | 1，591 | － | － | 1，777 | － |
| 29 A | Drugs | － | － | － | － 11 | 71 | － | 8，365 |  |  |  |
| 29B | Cleaning and toilet preparations |  | － | － | 116 | 71 | 279 | 49 | 2，147 | 2 | 419 |
| 30 | Paints and allied products | 106 | 1 | 2 | 529 |  | 16 |  | 11 | 253 |  |
| 31 | Petroleum refining and related products | 233 | 102 | 158 | 1，865 | 182 | 185 | 72 | 415 | 141 | 12，265 |
| 32 | Rubber and miscellaneous plastics products | 146 | 19 | 1，362 | 1，245 | 149 | 2，023 | 1，312 | 2，431 | 1 | 476 |
| $33+34$ | Footwear，leather，and leather products | － | 1 | 2 | － | $\overline{16}$ | 7 | － | － | － | 1 |
| 35 | Glass and glass products | 二 | － | － | 107 | 16 | 7 | 256 | 214 | － 3 | 330 |
| 36 | Stone and clay products | － 23 | － | 2 | 120 319 | 30 | 8 | 11 | 3 1 | 185 | 278 |
| 37 | Primary iron and steel manufacturing | 233 | 1 | 28 | 319 | 1 | 1 | － | 1 | 5 | 20 |
| 38 | Primary nonferrous metals manufacturing | 71 | － | 47 | 9 | $-$ | － | － | － | 1 | $\bigcirc$ |
| 39 | Metal containers | － | － | － | 647 | 85 | 4 | 81 | 431 | 500 | 137 |
| 40 | Heating，plumbing，and fabricated structural metal products | － | － | － | － | － | － | － |  | － |  |
| 41 | Screw machine products and stampings | 18 | $\bar{\square}$ | $\bar{\square}$ | 3 | $\overline{-}$ | $\overline{10}$ | 65 | 49 | 2 | $\square$ |
| 42 | Other fabricated metal products | 234 | 23 | 25 | 714 | 42 | 16 | 40 | 94 | 2 | 115 |
| 43 | Engines and turbines | － | 1 | － | － | － | － | － | － | － | － |
| $44+45$ | Farm，construction，and mining machinery | － | － | － | 二 | － | 二 | 二 | － | 二 | － |
| 46 | Materials handling machinery and equipment | $\bar{\square}$ | 4 | 30 | 42 | 1 | 24 |  |  |  | $\overline{7}$ |
| 47 | Metalworking machinery and equipment | 24 148 | $\stackrel{4}{4}$ | 30 | 42 | 1 | 24 | 3 | 7 | 1 | 19 |
| 48 | Special industry machinery and equipment | 148 | 25 | 413 | 640 | － | 20 | － | － | － | － |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery，except electrical | $\overline{61}$ | $\overline{19}$ | $\overline{94}$ | r 5 | 10 9 | 26 75 | 41 24 | 4 34 | ${ }_{3}$ | 1 91 |

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Computer and office equipmen
Service industry machinery
Electrical industrial equipment and apparatus
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
Scientific and controlling instruments
Ophthalmic and photographic equipment
Miscellaneous manufacturing 
Motor freight transportation and warehousing
Water transportation
Air transportation
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
Wholesale trade
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output
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[^17] $\begin{array}{r} \\ 33,386 \\ 9,146 \\ 393 \\ 5,15 \\ 14,654 \\ \hline\end{array}$ 30,831
11,964
681
19,198
31,843产

 145,709


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Computer and office equipmen
    service industry machinery
Electrical industrial equipment and apparatus
Elocehold appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment
Electronic components and accessories
Miscellaneous electrical machinery and supplies
59A
Truck and bus bodies, trailers, and motor vehicles parts
Aircraft and parts
Other transportation equipment 
Ophthalmic and photographic equipmen
# Ophthalmic and photographic
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Motor freight transportation and warehousing
Water transportation
Air transportation
Pipelines, freight forwarders, and related services
In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
68A
Electric services (utilities)
68A E
Gas production and distribution (utilities)
Water and sanitary services
Wholesale trad
Retail trade
Finance
Insurance
Real estate and royalties
l
Hotels and lodging places 
Personal and repair services (except aut)
Legal, engineering, accounting, and related services
Other business and professional services, except medical
Advertising
Eating and drinking places
Automotive repair and services
Amusements
Amalth services
Educational and social services, and membership organizations
Federal Government enterprises
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
*eneral government industry
Rest of the world adjustment to final uses
Household industry
Inventory valuation adjustment
Total intermediate inputs
lompensation of employees
Indirect business (
Other value ad
Total industry output
```



Table B: Detailed Use of Commodities by Industries 449

| Table B（continued）． <br> Detailed Use of Commodities by Industries $\text { KEY: }-=\text { Value too small to report }$ <br> （Millions of dollars at producers＇prices） $N=\text { Not applicable }$ |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commoditynumber | Industry number | Engines and turbines | Farm，con－ struction， and mining machinery | Materials handling machinery and equip－ ment | Metal－ working ma－ chinery and equipment | Special <br> industrymachinery andequipment | General <br> industrial <br> machinery <br> and equip－ <br> ment$\|$ | $\begin{array}{r\|} \hline \text { Miscella- } \\ \text { neous } \\ \text { machinery, } \\ \text { except } \\ \text { electrical } \end{array}$ | Computer and office equipment | $\begin{array}{r} \text { Service } \\ \text { industry } \\ \text { machinery } \end{array}$ | Electrical industrial equipment and apparatus |
|  |  | （43） | $(44+45)$ | （46） | （47） | （48） | （49） | （50） | （51） | （52） | （53） |
| － 1 | Livestock and livestock products |  |  |  |  |  |  |  |  |  |  |
| 2 | Other agricultural products |  |  |  |  |  |  |  |  | － | － |
| 4 | Forestry and fishery products |  |  |  |  |  |  |  |  |  | \＄17 |
| 4 | Agricultural，forestry，and fishery services | \＄8 | \＄13 | \＄2 | \＄9 | \＄7 | \＄15 | \＄12 | \＄16 | \＄7 | \＄17 |
| $5+6$ | Metallic ores mining |  | 12 |  | 6 |  |  |  | 3 | － | 33 |
| 7 | Coal mining | 1 | 3 | － | 1 | 1 | 2 | 2 | 1 | 2 | 1 |
| 8 | Crude petroleum and natural gas | － | － | － |  | －1 |  |  | － | － | － |
| 9＋10 | Nonmetallic minerals mining | － | － | － | 21 | 1 |  |  |  | － | － |
| 11 12 | New construction Maintenance and repair construction |  | 163 | 33 | 158 | 118 | 148 | 163 | 380 | 173 | 148 |
|  | Maintenance and repair construction |  |  | 33 | 158 | 118 | 148 | 163 | 380 | 173 | 148 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | － | － | － |
| 14 | Food and kindred products |  | 二 | 二 | 二 |  | 二 |  | 二 | 二 | 二 |
| 16 | Broad and narrow fabrics，yarn and thread mills | － | － | － | － |  |  |  |  | － | － |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | 214 | 33 | － | － | 1 |
| 18 | Apparel | 7 | － | － | 3 | 2 | 1 | － | － | 1 | － |
| 19 | Miscellaneous fabricated textile products |  |  |  |  |  |  | － |  |  |  |
| $20+21$ | Lumber and wood products | － | 50 | 10 | 82 | 54 | 27 | 4 | － | 63 | 23 |
| $22+23$ | Furniture and fixtures | － | － | － | － |  |  | － | $\bar{\square}$ |  | － |
| 24 | Paper and allied products，except containers | 7 | 10 | 4 | 16 | 137 | 128 | 8 | 35 | 124 | 142 |
| 25 | Paperboard containers and boxes | 14 | 33 | 1 | 94 | 22 | 122 | 67 | 182 | 98 | 99 |
| 26A | Newspapers and periodicals |  | 5 | － | 5 |  | $\bigcirc$ | 3 | 8 | 1 | 2 |
| 26B | Other printing and publishing | 2 | 5 | 1 | 5 | 2 | 3 | 4 | 8 | ， | 2 |
| 27 A | Industrial and other chemicals | 1 | 22 | 3 | 166 | 26 | 2 | 5 | － | 60 | 40 |
| 27B | Agricultural fertilizers and chemicals |  |  |  |  |  | － | － | － | － |  |
| 28 | Plastics and synthetic materials | － | － | － | － | － | 15 | 12 | 24 | 107 | 82 |
| 29A | Drugs | － | － | 二 | － | － | － | － | － |  | 18 |
| 29B | Cleaning and toilet preparations | 20 | 121 | $\overline{11}$ | 52 | － | $\overline{15}$ | 8 | $\begin{array}{r}5 \\ 36 \\ \hline\end{array}$ | 10 <br> 85 | 18 69 |
| 30 31 | Paints and allied products Petroleum refining and related products | 20 22 | 121 49 | 11 23 | 52 59 | $\overline{45}$ | 15 72 | $\begin{array}{r}8 \\ 4 \\ \hline\end{array}$ | 36 39 | 85 32 | 69 154 |
| 31 | Petroleum refining and related products <br> Rubber and miscellaneous plastics products | 22 202 | 49 1,351 | $\begin{array}{r}23 \\ 162 \\ \hline\end{array}$ | 59 237 | 45 400 | 72 772 | 47 120 | 39 812 | 32 704 | 154 778 |
| $33+34$ | Footwear，leather，and leather products | － |  |  | － | － | － | － |  | － | － |
| 35 | Glass and glass products | 75 | 14 | $\bigcirc$ | － | 14 | $\overline{78}$ | $\overline{-}$ | $\bigcirc$ | 4 | － |
| 36 | Stone and clay products | 75 | 40 | ${ }_{8}^{8}$ | 228 | 41 | 78 | 89 | 8 | 119 | 844 |
| 37 | Primary iron and steel manufacturing | 2，224 | 3，396 | 917 | 1，933 | 1，267 | 2，286 | 1，844 | 72 | 1，435 | 1，302 |
| 38 | Primary nonferrous metals manufacturing | 434 | 270 | 196 | 573 | 847 | 781 | 1，524 | 496 | 1，553 | 1，440 |
| 39 | Metal containers |  |  |  |  |  |  |  |  |  | 140 |
| 40 | Heating，plumbing，and fabricated structural metal products | 235 | 1，425 | 130 | 311 | 292 | 348 | 89 | 427 | 222 | 140 |
| 41 | Screw machine products and stampings Other fabricated metal products | 643 | 458 529 | 250 191 | 218 296 | 194 572 | 287 376 | 245 | 482 197 | 840 459 | 511 199 |
| 43 | Engines and turbines | 1，236 | 1，700 | 64 | － | 67 | 143 | 24 | － | 29 | 248 |
| $44+45$ | Farm，construction，and mining machinery | － | 1，215 | － | － | － |  |  |  |  |  |
| 46 | Materials handling machinery and equipment | － | 9 | 153 | － | 3 | 7 |  |  | － |  |
| 47 | Metalworking machinery and equipment | 106 | 160 | 37 | 1，184 | 185 | 150 | 383 | 28 | 125 | 61 |
| 48 | Special industry machinery and equipment |  |  | － | － | 672 | － | － | － | － | － |
| 49 | General industrial machinery and equipment | 283 | 882 | 463 | 265 | 508 | 2，306 | 319 | 23 | 467 | 123 |
| 50 | Miscellaneous machinery，except electrical | 760 | 886 | 245 | 777 | 803 | 966 | 1，585 | 85 | 577 | 202 |

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Computer and office equipment
Service industry machinery
Electrical industrial equipment and apparatus
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipmen
Electronic components and accessories
Miscellaneous electrical machinery and supplies
59A
Motor vehicles (passenger cars and trucks)
trailers, and motor vehicles parts
A Air
Aircraft and parts 
Other transportation equipment
Scientific and controlling instruments
64 Miscellaneous manufacturing
Miscellaneous manufacturing
Motor freight transportation and warehousing
Water transportation
D
A Pipelines, freight
Pipelines, freight forward
Communications, except radio and TV
Radio and TV broadcasting
Electric services (utilities)
Gas production and distribution (utilities)
Water and sanitary services
Wholesale t
Retail tra
Insurance
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
* ( Personal and repair services (except auto)
Legal, engineering, accounting, and related services
Other business and professional services, except medical
Advertising
Eating and drinking places
Automotive repair and services
Amusements
7A
Health services
Educational and social services, and membership organizations
7 8
Federal Government enterprises
State and local government enterprises
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
Compensation of employees 
l
Other value ad
Total industry output
```

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| Table B（continued）． <br> Detailed Use of Commodities by Industries <br> （Millions of dollars at producers＇prices） |  |  |  |  |  |  | $\begin{aligned} \text { KEY: }-\frac{\text { Value too small to report }}{\mathrm{N}} & =\text { Not applicable } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} \text { Commodity } \\ \text { number } \\ \hline \end{array}$ | Industry number | 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 | $\begin{array}{r} \text { Other } \\ \text { trans- } \\ \text { portation } \\ \text { equip- } \\ \text { ment } \\ \hline \end{array}$ | Scientific and controlling instruments |
|  |  | （54） | （55） | （56） | （57） | （58） | （59A） | （59B） | （60） | （61） | （62） |
| 1 | Livestock and livestock products |  |  |  |  |  |  |  |  |  |  |
| 2 | Other agricultural products |  |  |  | － |  | \＄1 | \＄1 | \＄1 | － | － |
| 3 | Forestry and fishery products |  |  |  |  |  |  |  |  | － 14 | \＄51 |
| 4 | Agricultural，forestry，and fishery services | \＄8 | \＄7 | \＄13 | \＄54 | \＄17 | 22 | 24 | 63 | \＄14 | \＄51 |
| $5+6$ | Metallic ores mining |  |  | 32 |  |  | － | 279 | 31 | － | 14 |
| 7 | Coal mining | － | － | － | 2 | － | 18 | 21 | 15 | 6 | 32 |
| ${ }^{8}$ | Crude petroleum and natural gas |  |  |  | － | － | － | － | － | － | － |
| 9＋10 | Nonmetallic minerals mining | 28 |  | － | 1 | － | － | 二 | － | － | － |
|  | New construction ind | $\bar{\square}$ |  |  |  |  |  |  |  |  |  |
|  | Maintenance and repair construction | 86 | 92 | 317 | 924 | 119 | 486 | 563 | 793 | 106 | 623 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | $\square$ | － | － |
| 14 | Food and kindred products |  |  |  | － | － | － | － | 7 | － | 55 |
| 15 | Tobacco products Broad and narrow fabrics，yarn and thread mills | 2 | － | 二 | 二 | 二 | 178 | 二 | 99 | 二 | 317 |
| 17 | Miscellaneous textile goods and floor coverings | 2 | － | － | 二 | 二 | 1，128 | $\overline{49}$ | 9 6 | 93 | 554 |
| 18 | Apparel | － | － | － | 1 | － | 5 | － | 6 | － | 18 |
| 19 | Miscellaneous fabricated textile products | 11 | － | － | － | － | 4，060 | 15 | 143 | 124 | 1 |
| $20+21$ | Lumber and wood products | 11 | 1 | 2 | － | － |  | 141 | 20 | 400 | 74 |
| $22+23$ | Furniture and fixtures | 2 | － | 609 | 13 | 1 | 2，522 | 30 | 55 | 36 | 51 |
| 24 | Paper and allied products，except containers | 236 | 123 | 208 | 148 | 42 | 43 | 70 | 26 | 8 | 381 |
| 25 | Paperboard containers and boxes | 172 | 261 | 119 | 107 | 250 | 19 | 329 | 15 | 5 | 479 |
| 26A | Newspapers and periodicals | － | 2 | 4 | 9 | 4 | 5 | 4 | 5 | 1 | 11 |
| 26 B | Other printing and publishing | 6 | 1 | 17 | 5 | 2 | 16 | 25 | 30 | 2 | 71 |
| 27A | Industrial and other chemicals | 113 | 50 | 17 | 800 | 193 | 712 | 353 | 70 | 16 | 156 |
| 27 B | Agricultural fertilizers and chemicals |  |  |  |  |  |  | － |  |  | － |
| 28 | Plastics and synthetic materials | 423 | 431 | 131 | 195 | 258 | 7 | 440 | 312 | 129 | 449 |
| 29 A | Drugs | $\overline{16}$ | 23 | 19 | 7 |  |  | － | － |  | 30 |
| 298 | Cleaning and toilet preparations | 16 136 | 23 | 19 | 7 | 3 | 7 1716 | 4 | － | － 159 | 30 |
| 30 | Paints and allied products | 136 | 7 | 11 | $\overline{-1}$ | $\overline{37}$ | 1，716 | 424 | 160 | 159 | －33 |
| 31 | Petroleum refining and related products | 58 | 60 | 40 | 61 | 37 | 64 | 95 | 158 | 67 | 130 |
| － 32 | Rubber and miscellaneous plastics products | 1，449 | 560 | 1，011 | 1，057 | 1，380 | 9，191 | 2，068 | 1，665 | 617 | 2，127 |
| $33+34$ | Footwear，leather，and leather products |  |  |  |  |  |  |  |  |  |  |
| 35 | Glass and glass products | 33 | 473 | 2 | 638 | $\overline{16}$ | 1，504 | 64 | 19 | 181 | 370 |
| 36 | Stone and clay products | 900 | 189 | 9 ${ }^{9}$ | 47 | 16 | 201 | 270 | 218 | 28 | 122 |
| 37 | Primary iron and steel manufacturing | 1，137 | 690 | 244 | 332 | 397 | 234 | 6，749 | 829 | 1，608 | 964 |
| 38 | Primary nonferrous metals manufacturing | 750 | 1，026 | 592 | 1，692 | 1，138 | 43 | 5，810 | 2，430 | 420 | 1，381 |
| 39 | Metal containers |  |  |  |  |  | － | － |  | － | 25 |
| 40 | Heating，plumbing，and fabricated structural metal products |  | － | 279 | 273 | 78 | 12604 | 1，639 | 91 | 635 | 762 1263 |
| 41 | Screw machine products and stampings Other fabricated metal products | 492 276 | 548 410 | 544 341 | 731 2,482 | 226 423 | 12,604 2,788 | 3,233 1,101 | 888 1,583 | 218 531 | 1,263 1,579 |
| 43 | Engines and turbines | － | － | － | － | － | 2，018 | 197 | － | 1，283 | － |
| $44+45$ | Farm，construction，and mining machinery | － | － | － | － | － |  |  | － | 35 | － |
| 46 | Materials handling machinery and equipment | － | 55 | $\bar{\square}$ | － | $\overline{47}$ | 8 | 6 | － | 1 | － |
| 47 | Metalworking machinery and equipment | 31 | 55 | 37 | 111 | 47 | 197 | 195 | 1，022 | 59 | 152 |
| 48 | Special industry machinery and equipment | － | － | － | 73 | － | － | － | － | － | － |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery，except electrical | $\begin{aligned} & 62 \\ & 35 \end{aligned}$ | $\overline{85}$ | $\begin{array}{r} 18 \\ 104 \end{array}$ | 314 | $\left.\begin{aligned} & 80 \\ & 98 \end{aligned} \right\rvert\,$ | $\begin{array}{r} 55 \\ 793 \end{array}$ | $\begin{aligned} & 1,351 \\ & 3,069 \end{aligned}$ | $\begin{array}{r} 275 \\ 1,364 \end{array}$ | $\begin{aligned} & 654 \\ & 241 \end{aligned}$ | 70 450 |

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
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Value added
Total industry output


[^18]| Table B (continued). <br> Detailed Use of Commodities by Industries <br> (Millions of dollars at producers' prices) $\begin{aligned} \text { KEY: }- & =\text { Value too small to report } \\ \mathrm{N} & =\text { Not applicable } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Ophthalmic, and photographic equipment | Miscel- <br> laneous manufac turing | Railroads and related services; pas- senger ground transportation | Motor freight transportation and warehousing | Water trans- portation | $\begin{array}{r} \text { Air } \\ \text { trans- } \\ \text { portation } \end{array}$ | Pipelines, freight forwarders, and related services | State and <br> local <br> passenger <br> transit | In-house transportation | Communications, except radio and TV |
|  |  | (63) | (64) | (65A) | (65B) | (65C) | (65D) | (65E) | (65F) | (65G) | (66) |
| 1 | Livestock and livestock products | - | \$3 | - |  |  |  | - | - | - |  |
| 2 | Other agricultural products | - | 34 | - | \$1 | \$3 | \$1 |  | - |  | \$1 |
| 3 | Forestry and fishery products |  | 14 |  |  | 3 |  |  |  |  |  |
| 4 | Agricultural, forestry, and fishery services | \$8 | 8 | \$1 | 2 | - | - |  | \$2 |  | 38 |
| $5+6$ | Metallic ores mining |  | 11 |  |  | - | - |  |  |  |  |
| 7 | Coal mining | 19 | 2 | - | - | 9 | - | - | - | - | - |
| 88 | Crude petroleum and natural gas |  | 5 | - | - | - | - | \$83 | - | - | - |
| 9+10 | Nonmetallic minerals mining | - | 5 | - | - | - | - | - | - | - | - |
| 11 12 | New construction Maintenance and repair construction | $\overline{149}$ | 188 | 2,465 | 736 | 30 | 239 | 574 | 1,664 | \$680 | 8,177 |
| 13 | Ordnance and accessories | - | - | - | - | - | - | 5 | - | - | - |
| 14 | Food and kindred products | - | 90 | - | - | 83 | 231 | - | - | - | - |
| 15 | Tobacco products | - |  | - |  | - |  | - |  | - | - |
| 16 | Broad and narrow fabrics, yarn and thread mills | - | 462 | - | - | - | 1 | - | 10 | - | - |
| 17 | Miscellaneous textile goods and floor coverings | 1 | 29 | - | 8 | 44 | - | - | - | 8 | 1 |
| 18 | Apparel | - | 181 | 23 | 3 | 63 | 8 | $\overline{7}$ | , | 2 | 92 |
| 19 | Miscellaneous fabricated textile products | - | 45 | - | 11 | 101 | 6 | 76 | 2 | 12 | 3 |
| $20+21$ | Lumber and wood products | - | 493 | - | 33 | 3 | 2 | 164 | - | , | 18 |
| $22+23$ | Furniture and fixtures |  | 21 | - | - |  |  |  | - |  |  |
| 24 | Paper and allied products, except containers | 896 | 279 | 22 | 60 | - | 31 | 20 | 3 | 69 | 181 |
| 25 | Paperboard containers and boxes | 242 | 780 |  | 97 | - | 3 | 78 |  | 131 | 85 |
| 26 A | Newspapers and periodicals | 11 | 7 | 13 | 41 | 39 | 19 | 16 | 1 |  | 83 |
| 26B | Other printing and publishing | 3 | 65 | 201 | 372 | 33 | 153 | 242 | 81 | 164 | 785 |
| 27A | Industrial and other chemicals | 505 | 419 | 104 | 103 | 12 | 18 | , | - | 116 | 16 |
| 27B | Agricultural fertilizers and chemicals | - | - | - |  | - | - | - | - | - | - |
| 28 | Plastics and synthetic materials | 278 | 992 | - | - | 4 | - | - | - | - | - |
| 29A | Drugs | - |  |  | - |  | $\bigcirc$ |  | - | - | 5 |
| 29 B | Cleaning and toilet preparations | 14 | 38 | - | 2 | 2 | 3 | - | 9 | 10 | 24 |
| 30 | Paints and allied products | $\overline{37}$ | 240 | - | 56 | 26 | 4 | - | - 102 | 263 | 56 |
| 31 | Petroleum refining and related products | 37 | 168 | 3,336 | 7,930 | 727 | 9,451 | 182 | 2,192 | 11,601 | 204 |
| 32 | Rubber and miscellaneous plastics products | 560 | 1,546 | 271 | 1,993 | 103 | 32 | 183 | 115 | 912 | 442 |
| $33+34$ | Footwear, leather, and leather products | - | 31 | 1 | 2 | - | 1 | 1 |  | 1 | 2 |
| 35 | Glass and glass products | 154 | 24 | 52 | 3 | 4 | -1 | 12 | - | 3 | 18 |
| 36 | Stone and clay products | 10 | 140 | 2 | 8 | 2 | 1 | 4 | - | 2 | - |
| 37 | Primary iron and steel manufacturing | 42 | 774 | 404 | - | - | 2 | - | - | - | - |
| 38 | Primary nonferrous metals manufacturing | 108 | 2,003 | 1 | 4 | 21 | - | - | - | 4 | 16 |
| 39 | Metal containers |  | - 14 | - | - | 5 | - | - | 2 | - | - |
| 40 | Heating, plumbing, and fabricated structural metal products | 7 | 145 | 7 | - | 5 | $\overline{-}$ | - | 2 | - | - |
| 41 | Screw machine products and stampings | 206 | 140 | 7 | $\overline{-7}$ | 2 | 42 | 7 | - | - | 365 |
| 42 | Other fabricated metal products | 66 | 470 | 264 | 476 | 221 | 70 | 74 | 13 | 338 | 244 |
| 43 | Engines and turbines | - | 2 | 219 | 102 | 217 | - | 34 | 111 | 17 | 356 |
| $44+45$ | Farm, construction, and mining machinery | - | - | - | 5 |  | - |  |  | 2 |  |
| 46 | Materials handling machinery and equipment Metalworking machinery and equipment | $\overline{29}$ | $\overline{100}$ | 75 | 5 20 | 151 | 28 | 二 | 7 | ${ }_{15}^{2}$ | 5 |
| 48 | Special industry machinery and equipment | 2 | 100 | 75 | 2 | 1 | 28 | - | - | 6 | 5 |
| 49 | General industrial machinery and equipment | 4 | 22 | 337 | 45 | 373 | 5 | 105 | 14 | 14 | 424 |
| 50 | Miscellaneous machinery, except electrical | 91 | 321 | 105 | 59 | 95 | 123 | 43 | 12 | 49 | 17 |


| 51 | Computer and office equipment |
| :---: | :---: |
| 52 | Service industry machinery |
| 53 | Electrical industrial equipment and apparatus |
| 54 | Household appliances |
| 55 | Electric lighting and wiring equipment |
| 56 | Audio, video, and communication equipment |
| 57 | Electronic components and accessories |
| 58 | Miscellaneous electrical machinery and supplies |
| 59A | Motor vehicles (passenger cars and trucks) |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts |
| 60 | Aircraft and parts |
| 61 | Other transportation equipment |
| 62 | Scientific and controlling instruments |
| 63 | Ophthalmic and photographic equipment |
| 64 | Miscellaneous manufacturing |
| 65A | Railroads and related services; passenger ground transportation |
| 65B | Motor freight transportation and warehousing |
| 65 C | Water transportation |
| 65D | Air transportation |
| 65 E | Pipelines, freight forwarders, and related services |
| 65G | In-house transportation |
| 66 | Communications, except radio and TV |
| 67 | Radio and TV broadcasting |
| 68A | Electric services (utilities) |
| 68B | Gas production and distribution (utilities) |
| 68 C | Water and sanitary services |
| 69A | Wholesale trade |
| 69B | Retail trade |
| 70A | Finance |
| 70B | Insurance |
| 71 A | Owner-occupied dwellings |
| 71B | Real estate and royalties |
| 72A | Hotels and lodging places |
| 72 B | Personal and repair services (except auto) |
| 73A | Computer and data processing services |
| 73B | Legal, engineering, accounting, and related services |
| 73 C | Other business and professional services, except medical |
| 73D | Advertising |
| 74 | Eating and drinking places |
| 75 | Automotive repair and services |
| 76 | Amusements |
| 77A | Health services |
| 77B | Educational and social services, and membership organizations |
| 78 | Federal Government enterprises |
| 79 | State and local government enterprises |
| 80 | Noncomparable imports |
| 81 | Scrap, used and secondhand goods |
| 82 | General government industry |
| 83 | Rest of the world adjustment to final uses |
| 84 | Household industry |
| 85 | Inventory valuation adjustment |
| I | Total intermediate inputs |
| 88 | Compensation of employees |
| 89 | Indirect business tax and nontax liability |
| 90 | Other value added |
| VA | Value added |
| T | Total industry output |



| Table B（continued）． |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Radio and TV broad－ casting | Electric sevvices （utilities） （utilities） | Gas pro－ duction and distribution （utilities） | Water and sanitary services | Wholesale trade | Retail trade | Finance | Insurance | Owner－ occupied dwellings | Real estate and royalties |
|  |  | （67） | （68A） | （68B） | （68C） | （69A） | （69B） | （70A） | （70B） | （71A） | （71B） |
| 1 | Livestock and livestock products |  |  |  |  |  |  |  |  | － |  |
| 2 | Other agricultural products | － | \＄1 | \＄1 | － | \＄76 | \＄2 | \＄3 | \＄2 | － | \＄25 |
| 3 | Forestry and fishery products |  |  |  |  | － |  |  |  |  | － |
| 4 | Agricultural，forestry，and fishery services | \＄4 | 16 | － | － | 278 | 538 | 114 | 59 | \＄3，634 | 2，877 |
| $5+6$ | Metallic ores mining |  |  | － | － |  |  |  |  |  | － |
| 7 | Coal mining | － | 15，676 | － | － | 9 | 5 | 2 | － | － | 4 |
| 8 | Crude petroleum and natural gas | － | 9 | 38，755 | － | 9 | － | － | － | － |  |
| 9＋10 | Nonmetallic minerals mining | － |  |  | － | 6 | 1 | － | － | － | － |
| 11 | New construction |  |  | 6－708 |  |  |  | 1，145 | － | －$\overline{-}$ | －$\overline{-}$ |
| 12 | Maintenance and repair construction | 259 | 13，323 | 6，798 | \＄1，528 | 2，332 | 4，914 | 1，145 | 612 | 21，663 | 29，576 |
| 13 | Ordnance and accessories | － | － | － | － | － | $\bar{\square}$ | － | － | － | － |
| 14 | Food and kindred products | － |  | － | － | 659 | 92 | － | － | － | － |
| 15 | Tobacco products | 二 | － | 二 | 二 |  |  | 二 | － | 二 |  |
| 16 17 | Broad and narrow fabrics，yarn and thread mills Miscellaneous textile goods and floor coverings | 二 | 二 | 二 | 二 | 87 53 | 51 43 | 1 | 二 | 二 | 1 |
| 18 | Apparel | － | 2 | － | － | 597 | 31 | － | － | － | － |
| 19 | Miscellaneous fabricated textile products | － | －7 | － | － | 272 | 31 | 175 | 19 | － | 10 |
| $20+21$ | Lumber and wood products | 1 | 7 | 3 | 157 | 1，879 | 106 | 75 | 47 | － | 43 |
| $22+23$ | Furniture and fixtures | － | － | － |  |  |  |  |  | － | 3 |
| 24 | Paper and allied products，except containers | 12 | 64 | 24 | 11 | 2，243 | 3，916 | 1，133 | 381 | － | 546 |
| 25 | Paperboard containers and boxes | 5 | 16 | 5 | 3 | 3，091 | 860 | 135 | 49 | － | 75 |
| 26A | Newspapers and periodicals | 7 | 9 | 1 | 4 | 274 | 113 | 318 | 35 | － | 24 |
| 26B | Other printing and publishing | 10 | 88 | 15 | 5 | 5，588 | 569 | 3，505 | 1，543 | － | 813 |
| 27A | Industrial and other chemicals | 14 | 295 | 2 | 499 | 366 | 37 | 50 | 20 | 2 | 42 |
| 27B | Agricultural fertilizers and chemicals |  |  |  |  | 335 | 23 | － | － | 344 | 132 |
| 28 | Plastics and synthetic materials | － | － | － | － | 5 | 12 | － | － | － | － |
| 29A | Drugs | － | － | 5 | － | 33 | － | $\bar{\square}$ | 7 | － |  |
| 29B | Cleaning and toilet preparations | － | 3 | 5 | － | 465 | 158 | 23 | 7 | － | 50 |
| 30 | Paints and allied products | － |  | － | 2 | 7 | 14 | 1 | 46 |  | 26 |
| 31 | Petroleum refining and related products | 10 | 2，171 | 329 | 671 | 1，778 | 1，497 | 363 | 124 | － | 526 |
| 32 | Rubber and miscellaneous plastics products | 3 | 164 | 8 | 155 | 2，628 | 1，678 | 124 | 342 | 61 | 394 |
| $33+34$ | Footwear，leather，and leather products | － | 2 | 1 | $\overline{21}$ | ${ }^{9}$ | 128 | 17 | 6 | － | 8 |
| 35 | Glass and glass products | － | 7 | － | 21 | 198 | 14 | 26 | 9 | － | 4 |
| 36 | Stone and clay products | － | 4 | － | 16 | 114 | 19 | 10 | － | － | 359 |
| 37 | Primary iron and steel manufacturing | － | － | 1 | － | 71 | 6 | 2 | 1 | － | － |
| 38 | Primary nonferrous metals manufacturing | － | 100 | － | 1 | 334 | 4 | － | 15 | － | 8 |
| 39 | Metal containers | － | 1 | － | － | 464 | － | － | － | 13 | $\bar{\square}$ |
| 40 | Heating，plumbing，and fabricated structural metal products | － | $\overline{4}$ | － | － | 106 | 8 | － | － | 134 | 83 |
| 41 | Screw machine products and stampings | － | 42 | 9 | 82 | 49 | r 1 | 265 | 212 |  | 188 |
| 42 | Other fabricated metal products | 2 | 32 | 9 | 82 | 495 | 592 | 265 | 212 | － | 188 |
| 43 | Engines and turbines | － | 916 | － | － | 18 | 71 | 3 | － | － | － |
| $44+45$ 46 | Farm，construction，and mining machinery Materials handling machinery and equipment | 二 | $\overline{13}$ | 二 | － | $\begin{array}{r}86 \\ 438 \\ \hline\end{array}$ | － | － | 二 | 159 | 二 |
| 47 | Metalworking machinery and equipment | 1 | 79 | 18 | 3 | 188 | 44 | 3 | － | － | 4 |
| 48 | Special industry machinery and equipment | － | － | － | － | 61 | 42 | － | － | － | 3 |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery，except electrical | $-5$ | $\begin{array}{r} 63 \\ 195 \end{array}$ | 3 8 | ［ 3 | 41 681 | 23 242 | 22 16 | 1 | － | 10 7 |

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Computer and office equipmen
    Service industry machinery
    Electrical industrial equipment and apparatus
    Household appliances
    Electric lighting and wiring equipment
Audio, video, and communication equipment
Audio, video, and communication equip
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
Motor freight transportation and warehousing
Water transportation
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
Wholesale trad
Retail trad
Finance
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
Rest of the world adjustment to final uses
Household industry
Household industry 
Total intermediate inputs
Compensation of employees
Indirect business tax and nontax liability
Othec value added
Other value a
Total industry output
```



| Table B (continued). <br> Detailed Use of Commodities by Industries $\text { KEY: }-=\text { Value too small to report }$ <br> (Millions of dollars at producers' prices) $\mathrm{N}=$ Not applicable |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Hotels and lodging places | Personaland repairservices(exceptauto)(72B) | $\left.\begin{array}{r}\text { Computer } \\ \text { and data } \\ \text { processing } \\ \text { services }\end{array}\right\}$ | Legal <br> engineering, <br> accounting, <br> and related <br> services <br> $(73 B)$ | Other <br> business and <br> professional <br> services except <br> medical <br> $(73 C)$ | Advertising | Eating drinking places | $\begin{array}{r} \text { Auto- } \\ \text { motive } \\ \text { repair } \\ \text { and } \\ \text { services } \end{array}$ | Amusements | Health services |
|  |  | (72A) |  |  |  |  | (73D) | (74) | (75) | (76) | (77A) |
| 1 | Livestock and livestock products |  | - |  |  | \$44 | - | \$321 |  | \$39 | \$55 |
| 2 | Other agricultural products | \$5 | - | \$2 | \$6 | 2 | - | 1,843 | \$2 | 147 | 203 |
| 3 | Forestry and fishery products | 3 |  | - |  |  |  | 1,747 |  | 6 | 37 |
| 4 | Agricultural, forestry, and fishery services | 275 | \$42 | 54 | 113 | 101 | \$9 | 186 | 53 | 271 | 748 |
| $5+6$ | Metallic ores mining |  |  |  |  |  |  | - | - | - | - |
| 7 | Coal mining | 2 | 3 | - | 1 | 1 | - | 6 | 2 | 1 | 7 |
| 8 | Crude petroleum and natural gas |  |  | - |  | - | - | - |  | - |  |
| $9+10$ | Nonmetallic minerals mining |  | 3 | - |  |  | - | - | - | - | - |
| 11 | New construction | , |  | $\bar{\square}$ |  |  |  |  | 525 | 1,056 | - |
| 12 | Maintenance and repair construction | 1,516 | 497 | 309 | 383 | 876 | 49 | 2,092 | 525 | 1,056 | 2,861 |
| 13 | Ordnance and accessories | - |  | - | - | 88 | - | - | - | 10 | - |
| 14 | Food and kindred products | 119 | - | - | - | 31 | - | 61,536 | - | 692 | 4,308 |
| 15 | Tobacco products |  |  | - |  |  |  |  |  |  |  |
| 16 | Broad and narrow fabrics, yarn and thread mills | 6 | 142 | - | - | ${ }_{7}^{6}$ | - | - | $\overline{55}$ | 80 | 36 |
| 17 | Miscellaneous textile goods and floor coverings | 13 | 37 | - | 2 | 7 | - | 38 | 55 | 10 | 49 |
| 18 | Apparel | 49 | 376 | - | - | 89 | 1 | 8 | 43 | 107 | 618 |
| - 19 | Miscellaneous fabricated textile products | 503 | 260 | $\bar{\square}$ | $\overline{75}$ | 6 | 18 | 156 | 124 | 53 | 689 |
| $20+21$ | Lumber and wood products | 12 | 43 | 18 | 75 | 89 | 4 | 25 | 11 | 78 | 135 |
| $22+23$ | Furniture and fixtures |  |  | 2 | 5 | 2 |  |  | 166 | 2 | 5 |
| 24 | Paper and allied products, except containers | 202 | 254 | 287 | 727 | 1,399 | 85 | 895 | 189 | 217 | 2,350 |
| 25 | Paperboard containers and boxes | 123 | 58 | 25 | 94 | 569 | 7 | 997 | 89 | 94 | 774 |
| 26A | Newspapers and periodicals | 53 | 34 | 35 | 128 | 154 | 6 | 29 | 41 | 63 | 387 |
| 26 B | Other printing and publishing | 189 | 945 | 1,039 | 1,961 | 2,440 | 2,222 | 571 | 105 | 269 | 3,052 |
| 27A | Industrial and other chemicals | 10 | 153 | 10 | 43 | 1,237 | 2 | 295 | 217 | 116 | 8,156 |
| 27B | Agricultural fertilizers and chemicals | 112 |  |  |  | 4 |  |  | - | 134 | 35 |
| 28 | Plastics and synthetic materials | - | 12 | - | - | - | - | - | - | - | 181 |
| 29 A | Drugs | $\overline{72}$ | 1117 | - | 29 | 450 | - | 53 | 121 | 9 | 7,576 |
| 29 B | Cleaning and toilet preparations | 72 | 1,117 | 4 | 29 | 450 | - | 53 | 121 | 31 | 658 |
| 30 | Paints and allied products | 0 | 911 | $\overline{85}$ | 2 | 49 | - | 1 | 328 | 33 | 0 |
| 31 | Petroleum refining and related products | 112 | 211 | 85 | 128 | 1,087 | 1 | 105 | 1,756 | 192 | 550 |
| 32 | Rubber and miscellaneous plastics products | 243 | 379 | 191 | 238 | 1,015 | 24 | 2,166 | 2,860 | 133 | 6,547 |
| $33+34$ | Footwear, leather, and leather products | 5 | 350 | 4 | 41 | 54 | - | 3 ${ }^{3}$ | 72 | 70 | 43 |
| 35 | Glass and glass products | 254 | 4 | , | 126 | 292 | - | 417 | 785 | 5 | 928 |
| 36 | Stone and clay products | 38 | 10 | - | 24 | 83 | - | 391 | 48 | 2 | 200 |
| 37 | Primary iron and steel manufacturing |  | 7 | - | 3 | 73 | - | - | - | 1 | 2 |
| 38 | Primary nonferrous metals manufacturing | - | 73 | - | - | 20 | - | 7 | 5 | 15 | 12 |
| 39 | Metal containers | - | - | - |  | 38 | - | - | - | - | - |
| 40 | Heating, plumbing, and fabricated structural metal products | - | 6 | 二 |  |  | 二 | 57 | 1, $\overline{67}$ | ${ }^{2}$ | - |
| 41 | Screw machine products and stampings Other fabricated metal products | 6 35 | 85 236 | 42 | 171 | 103 309 | $\overline{9}$ | 57 99 | 1,467 1,669 | 19 86 | 332 422 |
| 43 | Engines and turbines | - | 3 | - | - | 139 | - | 2 | 655 | - | 1 |
| $44+45$ | Farm, construction, and mining machinery | - | - | - | - | 80 | - | - | - | 4 | - |
| 46 | Materials handling machinery and equipment | 1 | - | - | $\overline{11}$ | 146 | - | - | $\overline{-}$ | - | - |
| 47 | Metalworking machinery and equipment | 1 | 12 | 4 | 11 | 567 | - | 1 | 32 | 7 | 11 |
| 48 | Special industry machinery and equipment | - | 41 | 2 | 5 | 394 | - | 148 | 35 | - | 4 |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery, except electrical | - | $\begin{aligned} & 37 \\ & 91 \end{aligned}$ | $\overline{19}$ | $\overline{77}$ | $\begin{aligned} & 427 \\ & 435 \end{aligned}$ | ${ }_{6}$ | 162 35 | 25 304 | 26 | 7 116 |

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Computer and office equipmen
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
Scientrif and controling instruments
Ophthalmic and photographic equipment
Miscellaneous manufacturing
Railroads and related services; passenger ground transportation
Motor freight transportation and warehousing
Water transportation
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
Wholesale trade
Retail trad
Finance
Insurance 
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output
```







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Computer and office equipmen
    Service industry machinery
    Electrical industrial equipment and apparatus
    Household appliances
    Electric lighting and wiring equipment
Audio, video, and communication equipment
Audio, video, and communication equip
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
Motor freight transportation and warehousing
Water transportation
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
Wholesale trad
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except a
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output Total industry output
```






| Table B (continued). <br> Detailed Use of Commodities by Industries <br> (Millions of dollars at producers' prices) |  |  |  | $\begin{aligned} \text { KEY: }- & =\text { Value too small to report } \\ \mathrm{N} & =\text { Not applicable } \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} \text { Commodity } \\ \text { number } \end{array}$ | Industry number |  |  | Federal government consumption and gross investment |  |  |  |  |
|  |  | Exports of goods and services | Imports goods and services | Total | National defense: Consumption expenditures | National defense: <br> Gross investment | Nondefense: Consumption expenditures | Nondefense: Gross investment |
|  |  | (94) | (95) | 96+97 | (96C) | (961) | (97C) | (971) |
| 1 | Livestock and livestock products | \$800 | -\$2,061 | \$7 | \$2 | - | \$5 | - |
| 2 | Other agricultural products | 16,116 | -6,860 | -358 | - | - | -358 | - |
| 3 | Forestry and fishery products | 2,880 | -5,659 | -1,169 | -1 | - | -1,168 | - |
| 4 | Agricultural, forestry, and fishery services | 61 | -21 | 39 | 19 | - | 20 | - |
| $5+6$ | Metallic ores mining | 1,104 | 1,488 | -147 | -148 | - | 1 | - |
| 7 | Coal mining | 3,122 | -133 | 29 | 1 | - | 28 | - |
| 8 | Crude petroleum and natural gas | 3,290 | -43,984 | -202 | - | - | -202 |  |
| 9+10 | Nonmetallic minerals mining | 686 | -898 | 2 | -3 |  | 5 | - |
| 11 | New construction | 77 | - | 15,803 | 9 | \$5,234 | 8 | \$10,569 |
| 12 | Maintenance and repair construction | 77 | - | 10,429 | 6,649 | - | 3,780 |  |
| 13 | Ordnance and accessories | 3,592 | -809 | 19,177 | 7,568 | 8,911 | 482 | 2,216 |
| 14 | Food and kindred products | 19,630 | -21,850 | 464 | 269 | - | 195 | - |
| 15 | Tobacco products | 5,874 | -1,587 | $\overline{63}$ | $\overline{51}$ | - |  | - |
| 16 | Broad and narrow fabrics, yarn and thread mills | 2,359 | -4,397 | 63 | 51 | - | 12 |  |
| 17 | Miscellaneous textile goods and floor coverings | 1,724 | -1,879 | 49 | 3 | - | 25 | 21 |
| 18 | Apparel | 4,065 | - 38,484 | 506 | 505 | - | 1 | - |
| 19 $20+21$ | Miscellaneous fabricated textile products | 810 | -2,870 | 206 | 150 | 二 | 56 | 1 |
| $20+21$ $22+23$ | Lumber and wood products | 5,965 | $-7,143$ $-6,026$ | 31 198 | 14 | 10 | 16 | 1 188 |
| 24 | Paper and allied products, except containers | 8,567 | -10,715 | 699 | 98 | - | 601 | - |
| 25 | Paperboard containers and boxes | 691 | -247 | 91 | 40 | - | 51 | - |
| 26A | Newspapers and periodicals | 653 | -199 | 111 | 12 | - | 99 | - |
| 26 B | Other printing and publishing | 2,984 | $-1,783$ | 996 | 290 | - | 706 | - |
| 27A | Industrial and other chemicals | 17,292 | -14,375 | 4,268 | 3,109 |  | 1,159 | - |
| 27B | Agricultural fertilizers and chemicals | 3,341 | -2,330 | 27 | 8 | - | 19 | - |
| 28 | Plastics and synthetic materials | 8,477 | $-3,827$ | 17 | 11 | - | 6 | - |
| 29A | Drugs | 7,272 | -13,193 | 530 | 365 | - | 165 | - |
| 29 B | Cleaning and toilet preparations | 2,591 | -2,052 | 180 | 126 | - | 54 | - |
| 30 | Paints and allied products | 745 | -200 | 6 |  |  | 6 |  |
| 31 | Petroleum refining and related products | 9,084 | -11,582 | 3,109 | 2,771 | - | 338 | - |
| 32 | Rubber and miscellaneous plastics products | 6,905 | -13,253 | 625 | 423 | - | 152 | 50 |
| $33+34$ | Footwear, leather, and leather products | 1,464 | -12,824 | 45 | 41 | - | 4 |  |
| 35 | Glass and glass products | 1,544 | -2,159 | 167 | 16 | - | 151 | - |
| 36 | Stone and clay products | 1,713 | -4,551 | 94 | 30 | - | 64 | - |
| 37 | Primary iron and steel manufacturing | 3,505 | -10,893 | 230 | 221 | - | 9 | - |
| 38 | Primary nonferrous metals manufacturing | 6,379 | -10,228 | 242 | 48 | 36 | 84 | 74 |
| 39 | Metal containers | 341 | -201 | 15 | 15 | - |  |  |
| 40 | Heating, plumbing, and fabricated structural metal products | 2,061 | -1,008 | 677 | 158 | 184 | 239 | 96 |
| 41 | Screw machine products and stampings | 2,171 | -2,628 | 193 | 122 | - 157 | 71 | 71 |
| 42 | Other fabricated metal products | 4,849 | -8,510 | 634 | 269 | 157 | 137 | 71 |
| 43 | Engines and turbines | 5,419 | -2,413 | 964 | 119 | 558 | 2 | 285 |
| $44+45$ | Farm, construction, and mining machinery | 9,002 | -4,754 | 506 | 9 | 464 | 9 | 24 |
| 46 | Materials handling machinery and equipment | 1,302 | -1,468 | 65 | - | 50 | 3 | 12 |
| 47 | Metalworking machinery and equipment | 3,686 | -5,127 | 64 | 6 | 18 | 38 | 2 |
| 48 | Special industry machinery and equipment | 4,510 | -5,881 | 158 | 2 | 21 | 123 | 12 |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery, except electrical | $\begin{aligned} & 7,834 \\ & 1,962 \end{aligned}$ | $\begin{array}{r} -7,796 \\ -1,895 \end{array}$ | $\begin{aligned} & 292 \\ & 851 \end{aligned}$ | $\begin{array}{r} 79 \\ 195 \end{array}$ | $\begin{aligned} & 165 \\ & 389 \end{aligned}$ | 11 31 | 37 236 |

```
Computer and office equipmen
    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)
trailers, and motor vehicles parts
Aircraft and parts
Other transportation equipment
Scientific and controlling instruments
Ophthalmic and photographic equipment
Miscellaneous manufacturving
Motor freight transportation and warehousing
Water transportation
Air transportation
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
Wholesale trad
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except a
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
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
Rest of the world adjustment to final uses
Household industry
#
Total intermediate inputs
Compensation of employees
Indirect business tax and nontax liability
Indirect business
Other value a
Total industry output
```

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| Table B (continued). <br> Detailed Use of Commodities by Industries <br> (Millions of dollars at producers' prices) |  | $\begin{aligned} \text { KEY: }-\frac{\text { Value too small to report }}{\mathrm{N}} & =\text { Not applicable } \end{aligned}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} \text { Commodity } \\ \text { number } \end{array}$ | Industry number | State and local government Consumption and gross investment |  |  |  |  | GDP | $\begin{array}{r} \text { Total } \\ \text { Commodity } \\ \text { output } \end{array}$ |
|  |  | Total | Education: Consumption expenditures | Education: Gross investment | Other: $\begin{array}{r}\text { Consumption } \\ \text { expenditures }\end{array}$ | Other: Gross investment |  |  |
|  |  | 98+99 | (98C) | (981) | (99C) | (991) |  |  |
| 1 | Livestock and livestock products | \$194 | \$40 | - | \$154 | - | \$3,506 | \$89,375 |
| 2 | Other agricultural products | 940 | 297 | - | 643 | - | 33,404 | 104,546 |
| 3 | Forestry and fishery products | -507 | 9 | - | -516 | - | -1,415 | 11,865 |
| 4 | Agricultural, forestry, and fishery services | 1,687 | 377 | - | 1,310 | - | 2,495 | 29,805 |
| $5+6$ | Metallic ores mining | - | - | - | - | - | 2,471 | 10,739 |
| 7 | Coal mining | 48 | 28 | - | 20 | - | 3,131 | 26,917 |
| 8 | Crude petroleum and natural gas |  |  |  |  |  | -40,978 | 97,623 |
| 9+10 | Nonmetallic minerals mining | 58 | - |  | 58 |  | -88 | 12,283 |
| 11 | New construction | 101,060 | - | \$20,251 |  | \$80,809 | 456,779 | 456,949 |
| 12 | Maintenance and repair construction | 32,065 | 6,802 |  | 25,263 | - | 62,933 | 222,381 |
| 13 | Ordnance and accessories | 145 | - | - | 145 | - | 21,752 | 22,217 |
| 14 | Food and kindred products | 8,654 | 4,061 | - | 4,591 | 2 | 255,058 | 408,757 |
| 15 | Tobacco products | -20 | -1 | - | -19 | - | 36,799 | 40,147 |
| 16 | Broad and narrow fabrics, yarn and thread mills | 216 | 73 | $\overline{12}$ | 143 | $\overline{10}$ | 401 | 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 | Miscellaneous fabricated textile products | 446 | 67 | - | 379 | - | 10,251 | 21,021 |
| $20+21$ | Lumber and wood products | 176 | 75 | - | 101 | - | 6,882 | 87,127 |
| $22+23$ | Furniture and fixtures | 2,666 | 5 | 1,601 | 4 | 1,061 | 37,370 | 42,849 |
| 24 25 | Paper and allied products, except containers | 3,260 | 1,654 |  | 1,606 |  | 17,503 | 98,497 |
| 25 268 | Paperboard containers and boxes Newspapers and periodicals | 198 652 | 39 406 | - | 159 246 | - | 1,391 15,494 | 31,743 19,895 |
| 26 B | Newspapers and periodicals Other printing and publishing | $\begin{array}{r}652 \\ 6,470 \\ \hline 1\end{array}$ | 406 4,346 | 二 | 246 2,124 | 二 | 15,494 $\mathbf{2 4 , 7 0 2}$ | 19,895 81,202 |
| 27A | Industrial and other chemicals | 3,537 | 826 | - | 2,711 | - | 15,562 | 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 | Drugs | 4,936 | 119 | - | 4,817 | - | 44,701 | 62,321 |
| 29 B | Cleaning and toilet preparations | 728 | 136 | - | 592 | - | 31,731 | 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 | Rubber and miscellaneous plastics products | 1,912 | 110 | - | 1,802 | - | 12,450 | 111,813 |
| $33+34$ | Footwear, leather, and leather products | 160 | - | - | 160 | - | 5,667 | 9,538 |
| 35 | Glass and glass products | 382 | 73 | - | 309 | - | 1,098 | 17,981 |
| 36 | Stone and clay products | 180 | 80 | - | 100 | - | -190 | 42,291 |
| 37 | Primary iron and steel manufacturing | 87 | 7 | - | 80 | - | -7,358 | 73,922 |
| 38 | Primary nonferrous metals manufacturing | 78 | 5 | - | 73 | - | -3,798 | 64,813 |
| 39 | Metal containers | 10 | 5 | - | 5 | - | 213 | 13,238 |
| 40 | Heating, plumbing, and fabricated structural metal products | 11 | - | - | 10 | 1 | 5,569 | 49,050 |
| 41 | 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 | Engines and turbines | 390 | 91 | 5 | 143 | 151 | 7,616 | 17,895 |
| $44+45$ | Farm, construction, and mining machinery | 1,663 | 62 | 24 | 14 | 1,563 | 24,897 | 30,946 |
| 46 | Materials handling machinery and equipment | 15 | $\bar{\square}$ | 9 | - | ${ }^{6}$ | 5,616 | 8,290 |
| 47 | Metalworking machinery and equipment | 400 | 98 | 124 | 69 | 109 | 17,380 | 27,046 |
| 48 | Special industry machinery and equipment | 256 | 95 | 154 | - | 7 | 15,994 | 20,218 |
| 49 | General industrial machinery and equipment | 485 | 81 | 66 | 73 | 265 | 12,035 | 29,678 |
| 50 | Miscellaneous machinery, except electrical | 262 | 130 | 40 | 55 | 37 | 1,957 | 24,946 |


| Computer and office equipment |
| :--- |
| Service industry machinery |
| Electrical industrial equipment and apparatus |
| Household appliances |
| Electric lighting and wiring equipment |
| Audio, video, and communuication 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 |
| 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 |
| State and local government enterprises |
| 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 |
| Compensation of employees |
| Indirect business tax and nontax liability |
| Other value added |
| Value added |
| Total industry output |



## Table C.

Detailed Commodity-by-Industry Direct Requirements
(Direct requirements per dollar of industry output, at producers' prices)

```
Computer and office equipmen
    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
Riscellaneous manufacturing
Motor freight transportation and warehousing
Water transportation
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
Wholesale trade
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
Rest of the world adjustment to final uses
Household industry
Total intermediate injuutsent
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output
```


## Table C (continued). Detailed Commodity-by-Industry Direct Requirements

(Direct requirements per dollar of industry output, at producers' prices)

|  |  | Ordnance and accessories |  | Tobacco products | Broad and narrow fabrics, yarn and thread mills | Miscellaneous textile goods and floor coverings | Apparel | Miscellaneous fabricated textile products | Lumber and wood products | Furniture and fixtures | Paper and allied products, except containers |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| number | Industry number | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20+21) | $(22+23)$ | (24) |
| 1 | Livestock and livestock products | - | 0.17618 |  | 0.00934 | 0.00296 | 0.00027 |  |  |  |  |
| 2 | Other agricultural products |  | . 07776 | . 07709 | . 06464 | . 00262 | . 00081 |  |  |  | . 00011 |
| 3 | Forestry and fishery products |  | . 00731 |  |  |  | . 00282 |  | . 08125 | . 00012 |  |
| 4 | Agricultural, forestry, and fishery services | . 00097 | . 00029 | . 00010 | . 00024 | . 00028 | . 00016 | . 00026 | . 00029 | . 00051 | . 00041 |
| $5+6$ | Metallic ores mining |  |  |  |  |  |  |  |  |  |  |
| 7 | Coal mining | . 00008 | . 00049 | . 00065 | . 00065 | . 00080 | . 00029 | . 00016 | . 00005 | . 00028 | . 00367 |
| 8 | Crude petroleum and natural gas |  |  |  |  |  |  |  |  |  |  |
| 9+10 | Nonmetallic minerals mining |  |  |  |  | - |  |  |  | - | . 00325 |
| 11 | New construction |  |  |  |  |  |  |  |  |  |  |
| 12 | Maintenance and repair construction | . 00569 | . 00413 | . 00214 | . 00525 | . 00926 | . 00401 | . 00335 | . 00325 | . 00416 | . 01208 |
| 13 | Ordnance and accessories | . 01405 | 9 | - | - | - $\overline{-1}$ | - | - | - | - | - |
| 14 | Food and kindred products |  | . 15563 |  | - | . 00063 | - | - | - | . 00123 | . 00641 |
| 15 | Tobacco products |  |  | . 08340 | - |  |  |  |  |  |  |
| 16 | Broad and narrow fabrics, yarn and thread mills | . 00054 |  |  | . 21085 | . 16917 | . 21456 | . 26770 |  | . 04484 | . 00109 |
| 17 | Miscellaneous textile goods and floor coverings |  | . 00005 | . 00010 | . 00146 | . 03129 | . 00033 | . 06088 | . 00195 | . 02627 | . 00667 |
| 18 | Apparel | . 00050 | - | - | . 00082 |  | . 19754 | . 02299 | . 00008 | . 00007 | . 00005 |
| 19 | Miscellaneous fabricated textile products |  | . 00018 | . 00005 | - | . 00011 | . 03197 | . 03186 | . 00002 | . 00046 | . 00002 |
| $20+21$ | Lumber and wood products | . 00202 | . 00018 | . 00002 | - | - | . 00001 | . 00184 | . 30111 | . 07711 | . 06533 |
| $22+23$ | Furniture and fixtures |  |  |  |  |  |  |  | . 00085 | . 00980 |  |
| 24 | Paper and allied products, except containers | . 00027 | . 01261 | . 00271 | . 00072 | . 00159 | . 00108 | . 00068 | . 00056 | . 00232 | . 14722 |
| 25 | Paperboard containers and boxes | . 00194 | . 01928 | . 01126 | . 00105 | . 00267 | . 00146 | . 00210 | . 00266 | . 01576 | . 01311 |
| 26 A | Newspapers and periodicals | . 00012 | . 00001 |  |  | . 00006 |  |  | . 00015 | . 00005 | . 00007 |
| 26 B | Other printing and publishing |  | . 00290 | . 00643 | . 00005 | . 00006 | . 00043 | . 00063 | . 00017 | . 00027 | . 00193 |
| 27 A | Industrial and other chemicals Agricultural fertilizers and chemicals | $\text { . } 0080303$ | .00518 .00000 | . 00010 | . 02267 | . 02207 | . 00007 | . 00572 | . 005078 | . 00158 | . 04711 |
| 28 | Plastics and synthetic materials | . 00311 | . 00040 | . 00705 | . 16506 | . 24255 | . 01215 | . 02073 | . 00372 | . 00300 | . 02441 |
| 29A | Drugs |  | . 00313 |  |  |  |  |  |  |  |  |
| 29B | Cleaning and toilet preparations | - | . 00118 | . 00169 | . 00103 | . 00427 | . 00409 | - | . 00009 | . 00074 | . 00423 |
| 30 | Paints and allied products | . 00031 |  |  |  |  |  | - | . 00165 | . 00908 | . 00009 |
| 31 | Petroleum refining and related products | . 00217 | . 00226 | . 00131 | . 00286 | . 00387 | . 00158 | . 00210 | . 00623 | . 00278 | . 00607 |
| 32 | Rubber and miscellaneous plastics products | . 01390 | . 01804 | . 00560 | . 00468 | . 00967 | . 00499 | . 01784 | . 00931 | . 04435 | . 03328 |
| $33+34$ | Footwear, leather, and leather products |  |  | - |  |  | . 00373 | . 02257 | . 00010 | . 00105 | - |
| 35 | Glass and glass products |  | . 00983 |  | . 00716 | . 00057 |  |  | . 00312 | . 00393 |  |
| 36 | Stone and clay products | . 00140 | . 00003 | . 00007 | . 00002 |  |  |  | . 00398 | . 00282 | . 00083 |
| 37 | Primary iron and steel manufacturing | . 01436 |  |  | - | . 00011 | - | - | . 00044 | . 03762 | . 00029 |
| 38 | Primary nonferrous metals manufacturing | . 01790 | - | - | - | - | - | - | . 00020 | . 01021 | . 00090 |
| 39 | Metal containers |  | . 02307 | - | - | - | - | - |  |  |  |
| 40 | Heating, plumbing, and fabricated structural metal products |  |  | - | - | - | - | - | . 00564 | - - | - |
| 41 | Screw machine products and stampings | . 00660 | . 00147 |  | - | - | - $-\overline{0}$ | - | . 00405 | . 01110 | . 00005 |
| 42 | Other fabricated metal products | . 00939 | . 00300 | . 00115 | - | - | . 00007 | - | . 01095 | . 04657 | . 00333 |
| 43 | Engines and turbines | . 00085 | . 00001 | - | - | - | - | - | - | - | - |
| $44+45$ | Farm, construction, and mining machinery |  |  | - | - | - | - | - |  | 二 | - |
| 46 | Materials handling machinery and equipment |  | - | - | - $\overline{-}$ | - | - | 00037 | . 00033 | 00083 |  |
| 47 | Metalworking machinery and equipment | . 00144 | . 00011 | . 00025 | . 00036 | . 00023 | . 00003 | . 00037 | . 00087 | . 00083 | . 0005 |
| 48 | Special industry machinery and equipment | . 00314 | . 00031 |  | . 00149 | . 01177 | . 00276 | . 00189 | . 00040 | . 00037 | . 00293 |
| 49 50 | General industrial machinery and equipment Miscellaneous machinery, except electrical | .01060 .00625 | $\begin{aligned} & 00055 \\ & .00042 \end{aligned}$ | $.00002$ | . 0016 | . 00114 | $\begin{aligned} & .00007 \\ & .00030 \end{aligned}$ | . 00100 | $\begin{aligned} & .00175 \\ & .00163 \end{aligned}$ | $\begin{aligned} & .00170 \\ & .00197 \end{aligned}$ | . 000213 |

KEY: $-=$ Value too small to report Miscellaneous Lum
and
prod Livestock and livestock products
Other agricultural products
Forestry and fishery products Agricultura, forestry, and fishery services

Coal mining
Cruce petroleum and natural gas
New construction
Maintenance and repair construction
Food and kindred products
Tobacco products
Miscend narow fabrics, yarn and thread mills
Apparel
Miscellaneous fabricated textile products
Lumber and wood products
Paper and allied products, excent containers
Paperboard containers and boxes
Newspapers and periodicals
Industrial and other chemicals
Plastics and synthetic materials
Drugs
Paints and allied products
Rureum refining and relaed products
Footwear, leather, and leather products Glass and glass products
Stone and clay products
Primary iron and steel manufacturing Primary nonferrous metals manufacturing Metar containers
Screw, manino products Other fabricated metal products
Engines and turbines
Materials handling machinery and equipment
Metalworking machinery and equipment
General industrial machinery and equipment
Miscellaneous machinery, except electrical
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 instrument
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
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 trad
Finance
Insurance
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
State and local government enterprises
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
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Value added
Total industry output

$\begin{array}{r}\text { 二 } \\ .00644 \\ - \\ .00078 \\ .01091 \\ .05109 \\ .00027 \\ - \\ .00003 \\ .07671 \\ .03125 \\ .00023 \\ .00116 \\ .00690 \\ - \\ .00446 \\ .00004 \\ .00481 \\ .00302 \\ - \\ .00854 \\ .00170 \\ .00083 \\ .02526 \\ .00011 \\ .00668 \\ .00131 \\ .00959 \\ .00300 \\ .00089 \\ .00868 \\ .00494 \\ .01534 \\ .00485 \\ .00396 \\ .00186 \\ .00019 \\ .00070 \\ .00015 \\ .00054 \\ .00022 \\ \hline\end{array}$
1.00000 1.00000 1.00000 $\begin{array}{r}64031 \\ \hline 00000\end{array}$ .34000
1.0000


| Table C Detailed （Direct re | Commodity－by－Industry Direct Requirements | s＇prices） |  |  |  |  |  | ：－ | Value | 00 smal | to report |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Paperboard containers and boxes | News－ papers and periodicals | $\begin{array}{r} \text { Other } \\ \text { printing } \\ \text { and } \\ \text { publishing } \end{array}$ | 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 |
|  |  | （25） | （26A） | （26B） | （27A） | （27B） | （28） | （29A） | （29B） | （30） | （31） |
| 1 | Livestock and livestock products |  |  | － |  |  |  |  | 0.00103 |  |  |
| 2 | Other agricultural products |  | － | － | ． 00534 |  | － | ． 00219 |  | － | ． 00001 |
| 3 | Forestry and fishery products |  | －- | ． 00005 | ． 00026 | ． 00056 | ． 00002 | ． 00035 | － | ． 00049 | ． 00001 |
| 4 | Agricultural，forestry，and fishery services | ． 00025 | ． 00046 | ． 00026 | ． 00042 | ． 00039 | ． 00033 | ． 00048 | ． 00033 | ． 00028 | ． 00014 |
| $5+6$ | Metallic ores mining |  |  | － | ． 00960 | ． 00095 |  |  |  | ． 00141 | ． 00014 |
| 7 | Coal mining | ． 00078 | － | － | ． 00187 | ． 00163 | ． 00121 | ． 00029 | ． 00023 | ． 00014 | ． 00005 |
| 8 | Crude petroleum and natural gas |  |  |  | ． 03148 | ． 03500 | ． 00493 |  |  |  | ． 51129 |
| 9＋10 | Nonmetallic minerals mining | － | － |  | ． 00918 | ． 05148 | － | ． 00002 | ． 00033 | ． 00028 | ． 00279 |
| 11 | New construction |  |  |  |  |  |  |  |  |  |  |
| 12 | Maintenance and repair construction | ． 00497 | ． 00583 | ． 00507 | ． 00993 | ． 00830 | ． 01037 | ． 00725 | ． 00542 | ． 00366 | ． 00751 |
| 13 | Ordnance and accessories | － | － | － | －$\overline{-}$ | － |  |  |  | 0090 | 0009 |
| 14 | Food and kindred products | － | － | － | ． 00330 | ． 01610 | ． 00108 | ． 00345 | ． 01012 | ． 00909 | ． 00095 |
| 15 | Tobacco products | － |  |  |  |  |  |  |  |  | － |
| 16 | Broad and narrow fabrics，yarn and thread mills | － |  | ． 00065 |  | － | ． 00019 |  |  |  | － |
| 17 | Miscellaneous textile goods and floor coverings |  | ． 00007 | ． 00037 | ． 00001 | － | ． 00002 | ． 00013 | ． 00030 | － | － |
| 18 | Apparel | 二 | 二 | 二 | 00001 | － | ． 00004 | 00003 | 00010 | － | － |
| 19 | Miscellaneous fabricated textile products |  |  | －- | ． 00001 |  | － | ． 00003 | ． 00010 |  | 0 |
| $20+21$ | Lumber and wood products | ． 00116 | ． 00019 | ． 00006 | ． 00034 | － | － | ． 00002 | ． 00005 | － | ． 00002 |
| 24 | Paper and allied products，except containers | ． 42122 | ． 08974 | ． 14571 | ． 00264 | ． 00264 | ． 01582 | ． 00244 | ． 00295 | ． 00014 | ． 00078 |
| 25 | Paperboard containers and boxes | ． 00241 | ． 00026 | ． 00445 | ． 00484 | ． 00454 | ． 00441 | ． 01059 | ． 03793 | ． 00007 | ． 00091 |
| 26 A | Newspapers and periodicals | ． 00066 | ． 02026 | ． 00148 | ． 00007 |  | ． 00004 | ． 00010 | ． 00003 |  | ． 00002 |
| 26 B | Other printing and publishing | ． 00022 | ． 06924 | ． 11161 | ． 00017 | ． 00594 | ． 00002 | ． 00617 | ． 00403 | ． 00077 | ． 00005 |
| 27 A | Industrial and other chemicals | ． 02069 | ． 00725 | ． 01789 | ． 22937 | ． 10914 | ． 34005 | ． 02439 | ． 09738 | ． 20390 | ． 01436 |
| 27B | Agricultural fertilizers and chemicals |  |  |  | ． 00843 | ． 11474 | ． 00470 |  |  | － |  |
| 28 | Plastics and synthetic materials | ． 00473 | － | ． 00006 | ． 00783 | － | ． 03312 |  | － | ． 12516 | － |
| 29A | Drugs | － | － | － |  | － | $\overline{12}$ | ． 13347 | 析 |  |  |
| 29B | Cleaning and toilet preparations |  |  | － | ． 00106 | ． 00398 | ． 005881 | ． 00078 | ． 05418 | ． 00014 | ． 00288 |
| 30 | Paints and allied products | ． 00331 | ． 00001 | ． 00002 | ． 00482 |  | ． 00033 |  | ． 00028 | ． 01782 |  |
| 31 | Petroleum refining and related products | ． 00729 | ． 00180 | ． 00143 | ． 01697 | ． 01019 | ． 00385 | ． 00115 | ． 01048 | ． 00991 | ． 08418 |
| 32 | Rubber and miscellaneous plastics products | ． 00457 | ． 00033 | ． 01232 | ． 01133 | ． 00836 | ． 04211 | ． 02093 | ． 06135 | ． 00007 | ． 00327 |
| $33+34$ | Footwear，leather，and leather products | － | ． 00002 | ． 00002 |  |  |  |  |  |  | ． 00001 |
| 35 | Glass and glass products | － | － | － | ． 00097 | ． 00090 | ． 00015 | ． 00408 | ． 00540 | ． 00021 | ． 00226 |
| 36 | Stone and clay products |  | －- | ． 00002 | ． 00109 | ． 00168 | ． 00017 | ． 00018 | ． 00008 | ． 01303 | ． 00191 |
| 37 | Primary iron and steel manufacturing | ． 00730 | ． 00002 | ． 00025 | ． 00290 | ． 00006 | ． 00002 | － | ． 00003 | ． 00035 | ． 00014 |
| 38 | Primary nonferrous metals manufacturing | ． 00222 | － | ． 00043 | ． 00008 |  |  |  |  | ． 00007 | －0094 |
| 39 | Metal containers |  |  | － | ． 00589 | ． 00477 | ． 00008 | ． 00129 | ． 01088 | ． 03522 | ． 00094 |
| 40 | Heating，plumbing，and fabricated structural metal products |  | － | － |  |  |  |  |  |  | － |
| 41 | Screw machine products and stampings | ． 00056 |  | － | ． 00003 | －$\overline{-1}$ | 00033 | ． 00104 | ． 00124 | ． 00014 | －0079 |
| 42 | Other fabricated metal products | ． 00732 | ． 00040 | ． 00022 | ． 00650 | ． 00236 | ． 00033 | ． 00064 | ． 00237 | ． 00014 | ． 00079 |
| 43 | Engines and turbines | － | ． 00002 | － | － | － | － | － | － | － | － |
| $44+45$ 46 | Farm，construction，and mining machinery | 二 | － | 二 | 二 | － | 二 | － | － | 二 | 二 |
| 47 | Materials handing machinery and equipment Metalworking machinery and equipment | ． $000 \overline{75}$ | ． $0000 \overline{7}^{-}$ | ． $0002 \overline{7}$ | ． $000 \overline{38}$ | ． 00006 | ． 00050 | ． 00005 | ． 00018 | ． $0000 \overline{7}$ | ． 00013 |
| 48 | Special industry machinery and equipment | ． 00463 | ． 00044 | ． 00374 | ． 00582 | － | ． 00042 |  |  |  | － |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery，except electrical | ． $001 \overline{91}$ | ．00033 | ． $0008{ }^{-}$ | $\begin{aligned} & .00005 \\ & .00353 \end{aligned}$ | $\begin{aligned} & .00056 \\ & .00050 \end{aligned}$ | $\begin{aligned} & .00054 \\ & .00156 \end{aligned}$ | $\begin{aligned} & .00065 \\ & .00038 \end{aligned}$ | $\begin{aligned} & .00010 \\ & .00086 \end{aligned}$ | ． 00021 | $\begin{aligned} & .00001 \\ & .00062 \end{aligned}$ |

```
Computer and office equipmen
    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
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
Wholesale trade
Retail trad
Finance
Insurance
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
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
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
Rest of the world adjustment to final uses
Household vindustry 
Total intermediate inputs
Compensation of employees
Indirect business tax and nontax liability
Other value added
Other value a
Total industry output
```

| - | . 00039 | . 00044 | - | - | - | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . 00004 | . 00001 | . 00043 |  | . 00002 | . 00003 | . 00018 | - | . 00001 |
|  |  | . 00001 | . 00072 | . 00006 | . 00010 | . 00011 | . 00053 |  | . 00001 |
| - |  | - |  | -0011 | - | - | - | - | -000 |
| - | . 00005 | . 00003 | . 00005 | . 00011 | . 00008 | . 00019 | . 00050 | - | . 00005 |
| - | . 00002 | . 00004 |  |  |  |  |  | 二 | 二 |
| . 00003 | . 00037 | . 00013 | . 00002 | - | - | - | - | - | . 00001 |
| . 00024 | . 00067 | . 00028 | . 00011 | . 00022 | . 00002 | . 00023 | . 00005 | . 00013 | . 00033 |
|  |  |  |  |  |  |  |  |  |  |
| . 00019 | . 00033 | . 00103 | . 00089 | . 00045 | . 00008 | . 00022 | . 00013 | . 00028 | . 00017 |
| . 00006 | . 00259 | . 00716 | . 00019 | . 00006 | . 00008 | . 00067 | . 00013 | . 00007 | . 00004 |
| . 00003 | . 00037 | . 00063 | . 00003 |  | . 00002 | . 00048 | . 00015 | . 00007 | . 00003 |
| . 01183 | . 00321 | . 00448 | . 01078 | . 01565 | . 00957 | . 00201 | . 00517 | . 01817 | . 00240 |
| . 03791 | . 00895 | . 01630 | . 02310 | . 05530 | . 01967 | . 00405 | . 01143 | . 02535 | . 00477 |
| . 00037 | . 00007 | . 00021 | . 00355 | . 00482 | . 00330 | . 00019 | . 00136 | . 00317 | . 00496 |
| . 00454 | . 00347 | . 00394 | . 00360 | . 00303 | . 00352 | . 00337 | . 00338 | . 00282 | . 00067 |
| . 00006 | . 00007 | . 00003 | . 00169 | . 00006 | . 00027 | . 00003 | . 00005 | . 00014 | . 03088 |
| . 00271 | . 00225 | . 00940 | . 00313 | . 00095 | . 00393 | . 00252 | . 00268 | . 00129 | . 00452 |
| . 00280 | . 00610 | . 00381 | . 00211 | . 00211 | . 00438 | . 00330 | . 00306 | . 00244 | . 00119 |
| . 01012 | . 00515 | . 00797 | . 02589 | . 01631 | . 02229 | . 00700 | . 00520 | . 00584 | . 01065 |
| . 00241 | . 00099 | . 00212 | . 01991 | . 02103 | . 01253 | . 00244 | . 00209 | . 00169 | . 08006 |
| . 00091 | . 00027 | . 00065 | . 00791 | . 00572 | . 00532 | . 00187 | . 00166 | . 00350 | . 00288 |
| . 06150 | . 02363 | . 03593 | . 05248 | . 05151 | . 04929 | . 06327 | . 05119 | . 04356 | . 03911 |
| . 00024 | . 00071 | . 00031 | . 00057 | . 00062 | . 00056 | . 00072 | . 00319 | . 00013 | . 00017 |
| . 00645 | . 00711 | . 00679 | . 00721 | . 01043 | . 00756 | . 00771 | . 00765 | . 00761 | . 00776 |
| . 00142 | . 00167 | . 00149 | . 00168 | . 00167 | . 00137 | . 00133 | . 00136 | . 00132 | . 00098 |
| . 00510 | . 03086 | . 02290 | . 00733 | . 00505 | . 00389 | . 00798 | . 00868 | . 00408 | . 00844 |
| . 00296 | . 00302 | . 02300 | . 00302 | . 00308 | . 00300 | . 00311 | . 00311 | . 00309 | . 00094 |
| . 00175 | . 00079 | . 00116 | . 00242 | . 00275 | . 00279 | . 00095 | . 00088 | . 00063 | . 00173 |
| . 00243 | . 00645 | . 00357 | . 00354 | . 00437 | . 00429 | . 00248 | . 00208 | . 00154 | . 00220 |
| . 00196 | . 01325 | . 00381 | . 02468 | . 01312 | . 02804 | . 02759 | . 01523 | . 01112 | . 00667 |
| . 01234 | . 03647 | . 01642 | . 01584 | . 02151 | . 01334 | . 02436 | . 01574 | . 00807 | . 00821 |
| . 00163 | . 02708 | . 01058 | . 00689 | . 01396 | . 00583 | . 05927 | . 06571 | . 01317 | . 00365 |
| . 00365 | . 00360 | . 00372 | . 00374 | . 00364 | . 00374 | . 00373 | . 00377 | . 00365 | . 00185 |
| . 00450 | . 00362 | . 00447 | . 00524 | . 00623 | . 00591 | . 00245 | . 00248 | . 00223 | . 00309 |
| . 00022 | . 00062 | . 00037 | . 00031 | . 00022 | . 00037 | . 00091 | . 00096 | . 00049 | . 00016 |
| . 00063 | . 00086 | . 00131 | . 00080 | . 00118 | . 00192 | . 00365 | . 00162 | . 00063 | . 00072 |
| . 00053 | . 00760 | . 00246 | . 00059 | . 00022 | . 00026 | . 00035 | . 00103 | . 00049 | . 00030 |
| . 00056 | . 00119 | . 00138 | . 00075 | . 00163 | . 00098 | . 00035 | . 00030 | . 00007 | . 00024 |
| . 00043 | . 00112 | . 00165 | . 00796 | . 00157 | . 00445 | . 03048 | . 00955 | . 00478 | . 00226 |
| - | - |  |  | . 00028 |  |  |  | - |  |
|  | - | - | - |  |  |  |  | - |  |
|  |  |  |  |  |  |  |  |  |  |
| . 67945 | . 40171 | . 48721 | . 63562 | . 65370 | . 69494 | . 49189 | . 53986 | . 59439 | . 86824 |
| . 24859 | . 33563 | . 30458 | . 19824 | . 13922 | . 19038 | . 19089 | . 14620 | . 20224 | . 05921 |
| . 00870 | . 00557 | . 00539 | . 01573 | . 00889 | . 00817 | . 01087 | . 00854 | . 00849 | . 02869 |
| . 06323 | . 25706 | . 20279 | . 15038 | . 19815 | . 10648 | . 30631 | . 30536 | . 19484 | . 04383 |
| . 32052 | . 59826 | . 51276 | . 36435 | . 34627 | . 30503 | . 50808 | . 46011 | . 40557 | . 13173 |
| 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |


| Detailed Commodity－by－Industry Direct Requirements <br> （Direct requirements per dollar of industry output，at producers＇prices） |  |  |  |  |  |  |  | KEY：$-=$ Value too small to report |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Rubber and miscella－ neous plastics products | Footwear， leather， and leather products | 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 products and stampings | Other fabri－ cated metal products |
|  |  | （32） | （33＋34） | （35） | （36） | （37） | （38） | （39） | （40） | （41） | （42） |
| 1 | Livestock and livestock products |  |  |  |  |  | － |  |  | － |  |
| 2 | Other agricultural products |  |  |  |  |  |  |  |  |  |  |
| 3 | Forestry and fishery products | ． 00746 |  |  | ． 00002 |  | ． 00017 |  |  |  |  |
| 4 | Agricultural，forestry，and fishery services | ． 00036 | ． 00011 | ． 00051 | ． 00054 | ． 00039 | ． 00044 | ． 00015 | ． 00028 | ． 00017 | ． 00035 |
| $5+6$ | Metallic ores mining |  |  | ． 00095 | ． 00044 | ． 02866 | ． 03762 |  | ． 00026 |  | ． 00004 |
| 7 | Coal mining | ． 00014 | ． 00021 | ． 00550 | ． 00660 | ． 01762 | ． 00028 | ． 00008 | ． 00004 | ． 00006 | ． 00006 |
| － 8 | Crude petroleum and natural gas |  |  |  |  |  |  |  |  |  |  |
| $9+10$ 11 | Nonmetallic minerals mining New construction | ． 00012 | － | ． 01078 | ． 06734 | ． 00302 | ． 00024 | 二 | 二 | 二 | ． 00002 |
| 12 | Maintenance and repair construction | ． 00677 | ． 00685 | ． 00786 | ． 00744 | ． 00748 | ． 00572 | ． 00482 | ． 00357 | ． 00961 | ． 00585 |
| 13 | Ordnance and accessories |  |  | － | －- | － | － | － | － | － | － |
| 14 | Food and kindred products | ． 00010 | ． 08999 | － | ． 00037 | － | － | － | － | － | － |
| 15 | Tobacco products |  |  |  |  |  | 00014 |  |  | － | － |
| 16 | Broad and narrow fabrics，yarn and thread mills | ． 00924 | ． 026247 |  | ． 00350 | － | ． 00014 |  |  | － | － |
| 17 | Miscellaneous textile goods and floor coverings | ． 01070 | ． 02146 | ． 00006 |  |  |  |  |  |  |  |
| 18 | Apparel | ． 00008 | ． 00043 |  |  | － | － | － | － | － | ． 00006 |
| 19 | Miscellaneous fabricated textile products | ． 00011 |  | ． 00006 | ． 00012 |  |  |  |  |  |  |
| $20+21$ $22+23$ | Lumber and wood products | ． 00154 | － | ． 00971 | ． 00384 | ． 00198 | ． 00304 | － | ． 00059 | ． 00043 | ． 00133 |
| 22＋23 | Furniture and fixtures <br> Paper and allied products，except containers | ． 00859 | ． 00576 | ． 00230 | ． 01112 | ． 00032 | ． 00044 | ． 00038 | ． 00065 | ． 00164 | ． 00434 |
| 25 | Paperboard containers and boxes | ． 01248 | ． 00330 | ． 04220 | ． 00370 | ． 00020 | ． 00088 | ． 00291 | ． 00436 | ． 00565 | ． 00611 |
| 26A | Newspapers and periodicals | ． 00007 |  |  | ． 00005 | ． 00003 | ． 00002 |  | ． 00006 | ． 00003 | ． 00004 |
| 26B | Other printing and publishing | ． 00034 | ． 00010 | ． 00011 | ． 00014 | ． 00126 | ． 00005 | ． 00605 | ． 00010 | ． 00011 | ． 00003 |
| 27A | Industrial and other chemicals | ． 04827 | ． 03501 | ． 03923 | ． 02539 | ． 01180 | ． 00397 | ． 00796 | ． 01081 | ． 00498 | ． 01165 |
| 27B | Agricultural fertilizers and chemicals |  |  |  |  |  | － |  | － | － |  |
| 28 | Plastics and synthetic materials | ． 17758 | ． 00117 | － | ． 00564 | － | ． 01457 | － | ． 00075 | ． 00245 | ． 00535 |
| 29 A | Drugs |  |  |  |  |  |  |  |  |  |  |
| 29B | Cleaning and toilet preparations | ． 00070 | ． 00427 | ． 00196 | ． 00217 | ． 00003 |  |  | ． 00006 | ． 00014 |  |
| 30 | Paints and allied products | ． 00067 |  | ． 00066 | ． 00123 | ． 00025 | ． 00011 | ． 02181 | ． 00506 | ． 00233 | ． 00672 |
| 31 | Petroleum refining and related products | ． 00220 | ． 00346 | ． 00478 | ． 00883 | ． 00485 | ． 00429 | ． 00243 | ． 00253 | ． 00170 | ． 00308 |
| 32 | Rubber and miscellaneous plastics products | ． 05705 | ． 03160 | ． 02167 | ． 00811 | ． 00177 | ． 00964 | ． 00138 | ． 01085 | ． 00409 | ． 02786 |
| $33+34$ | Footwear，leather，and leather products |  | ． 22758 |  |  | － |  |  | ． 00006 |  |  |
| 35 | Glass and glass products | ． 00549 |  | ． 09026 | ． 00240 |  | ． 00375 |  | ． 00568 | ． 00081 | ． 00100 |
| 36 | Stone and clay products | ． 00139 | ． 00064 | ． 01375 | ． 10195 | ． 01545 | ． 00220 | ． 00061 | ． 00141 | ． 00173 | ． 00228 |
| 37 | Primary iron and steel manufacturing | ． 00466 |  | ． 00107 | ． 00830 | ． 18508 | ． 01044 | ． 17214 | ． 17680 | ． 21543 | ． 11437 |
| 38 | Primary nonferrous metals manufacturing | ． 00063 | － | － | ． 00142 | ． 01913 | ． 33486 | ． 31887 | ． 08557 | ． 04821 | ． 05719 |
| 39 | Metal containers |  | － | － |  | ． 00003 | － | ． 09009 |  | ． 00009 | ． 00011 |
| 40 | Heating，plumbing，and fabricated structural metal products | ． 00030 |  | －0070 | ． 00044 | ． 00007 | － |  | ． 03673 | － | ． 00109 |
| 41 | Screw machine products and stampings | ． 00242 | ． 00032 | ． 00079 | ． 00121 | ． 00359 | ． 00050 | ． 00038 | ． 01267 | ． 01513 | ． 02138 |
| 42 | Other fabricated metal products | ． 00599 | ． 00651 |  | ． 00661 | ． 01602 | ． 00669 | ． 01500 | ． 03388 | ． 02305 | ． 06480 |
| 43 | Engines and turbines | ． 00018 | － | － | － | ． 00030 | － | － | － | － | ． 00072 |
| $44+45$ | Farm，construction，and mining machinery |  | － | － | － |  | 00017 | － | － | － | － |
| 46 | Materials handling machinery and equipment | ． 00002 | － | － |  | ． 00022 | ． 00017 | － | － | － | － |
| 47 | Metalworking machinery and equipment | ． 00183 | ． 00021 | ． 00499 | ． 00226 | ． 00847 | ． 00941 | ． 00122 | ． 00667 | ． 02063 | ． 00430 |
| 48 | Special industry machinery and equipment | ． 00297 | ． 00011 | ． 00112 | － | ． 00034 | ． 00096 |  | － | ． 00006 | － |
| 49 | General industrial machinery and equipment | ． 00022 |  | － | ． 00086 | ． 01662 | ． 00635 |  | ． 00226 | ． 00187 | ． 00033 |
| 50 | Miscellaneous machinery，except electrical | ． 00574 | ． 00149 | ． 00437 | ． 00248 | ． 00535 | ． 00370 | ． 00329 | ． 00477 | ． 01864 | ． 00804 |


| 51 | Computer and office equipment |
| ---: | :--- |
| 52 | Service industry machinery |
| 53 | Electrical industrial equipment and apparatus |
| 54 | Household appliances |
| 55 | Electric lighting and wiring equipment |
| 56 | Audio, video, and communication equipment |
| 57 | Electronic components and accessories |
| 58 | Miscellaneous electrical machinery and supplies |
| 59 A | Motor vehicles (passenger cars and trucks) |
| 59 B | Truck and bus bodies, trailers, and motor vehicles parts |
| 60 | Aircraft and parts |
| 61 | Other transportation equipment |
| 62 | Scientific and controlling instruments |
| 63 | Ophthalmic and photographic equipment |
| 64 | Miscellaneous manufacturing |
| 65 A | Railroads and related sevices; passenger ground transportation |
| 65 B | Motor freight transportation and warehousing |
| 65 C | Water transportation |
| 65 D | Air transportation |
| 65 E | Pipelines, freight forwarders, and related services |
| 65 G | In-house transportation |
| 66 | Communications, except radio and TV |
| 67 | Radio and TV broadcasting |
| 68 A | Electric services (utilities) |
| 68 B | Gas production and distribution (utilities) |
| 68 C | Water and sanitary services |
| 69 A | Wholesale trade |
| 69 B | Retail trade |
| 70 A | Finance |
| 70 B | Insurance |
| 71 A | Owner-occupied dwellings |
| 71 B | Real estate and royalties |
| 72 A | Hotels and lodging places |
| 72 B | Personal and repair services (except auto) |
| 73 A | Computer and data processing services |
| 73 B | Legal, engineering, accounting, and related services |
| 73 C | Other business and professional services, except medical |
| 73 D | Advertising |
| 74 | Eating and drinking places |
| 75 | Automotive repair and services |
| 76 | Amusements |
| 77 A | Health services |
| 77 B | Educational and social services, and membership organizations |
| 78 | Federal Government enterprises |
| 79 | State and local government enterprises |
| 80 | Noncomparable imports |
| 81 | Scrap, used and secondhand goods |
| 82 | General government industry |
| 83 | Rest of the world adjustment to final uses |
| 84 | Household industry |
| 85 | Inventory valuation adjustment |
| I | Total intermediate inputs |
| 88 | Compensation of employees |
| 89 | Indirect business tax and nontax liability |
| 90 | Other value added |
| VA | Value added |
| Total industry output |  |
| Tot |  |




| - |  |  |
| :---: | :---: | :---: |
| . 00020 | - | . 00002 |
| . 00157 | . 00060 | . 00579 |
| - | - |  |
| . 00004 | . 00017 | . 00007 |
|  |  |  |
| . 00002 | - | . 00009 |
| . 00020 | . 00070 | . 00009 |
|  |  |  |
|  |  |  |
| . 00218 |  | . 0000 |
| . 00016 | . 00014 | . 0001 |
| . 00018 | . 00006 | . 00004 |
| . 00375 | . 00449 | . 0028 |
| . 01617 | . 01509 | . 01333 |
| . 00034 | . 00060 | . 00068 |
| . 00329 | . 00352 | . 00322 |
|  | . 00003 |  |
| . 00792 | . 00398 | . 00614 |
| . 00294 | . 00194 | . 0032 |
| . 00839 | . 01268 | . 01444 |
| . 00338 | . 00357 | . 00537 |
| . 00081 | . 01136 | . 00195 |
| . 06044 | . 05738 | . 05437 |
| . 00061 | . 00052 | . 00062 |
| . 00669 | . 00752 | . 00710 |
| . 00127 | . 00142 | . 00135 |
| . 01024 | . 00789 | . 00878 |
| . 00299 | . 00286 | . 00306 |
| . 00088 | . 00216 | . 00161 |
| . 00247 | . 00359 | . 00370 |
| . 00436 | . 00822 | . 00674 |
| . 02092 | . 01752 | . 01580 |
| . 00558 | . 00758 | . 00908 |
| . 00417 | . 00404 | . 00424 |
| . 00262 | . 00419 | . 00410 |
| . 00016 | . 00032 | . 00017 |
| . 00101 | . 00285 | . 00096 |
| . 00071 | . 00071 | . 00073 |
| . 00123 | . 00055 | . 00115 |
| . 00151 | . 00094 | . 00092 |
| . 00172 |  | . 00054 |
|  |  |  |
|  |  |  |
| . 58758 |  |  |
| . 30233 | . 368948 | . 32028 |
| . 00708 | . 00705 | . 00697 |
| . 10298 | . 05529 | . 14147 |
| . 41239 | . 43179 | 46872 |
| 1.00000 | 1.00000 | 1.0000 |


| Detailed Commodity－by－Industry Direct Requirements <br> （Direct requirements per dollar of industry output，at producers＇prices） |  |  |  |  |  |  |  | KEY：$-=$ Value too small to report |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity |  | $\begin{gathered} \text { Engines } \\ \text { and } \\ \text { turbines } \end{gathered}$ | Farm，con－ struction， and mining machinery | Materials handling machinery and equip－ ment | Metal－ working ma－ chinery and equipment | Special industry machinery and equipment | General <br> industrial <br> machinery <br> and equip－ <br> ment$\|$ | Miscella－ neous machinery， except electrical | Computer and office equipment | $\begin{array}{r} \text { Service } \\ \text { industry } \\ \text { machinery } \end{array}$ |  |
| number | Industry number | （43） | （44＋45） | （46） | （47） | （48） | （49） | （50） | （51） | （52） | （53） |
| 1 | Livestock and livestock products |  | － |  | － |  |  |  |  |  |  |
| 2 | Other agricultural products |  |  |  |  |  | － |  | － | － |  |
| 3 | Forestry and fishery products |  |  |  |  |  |  |  |  |  |  |
| 4 | Agricultural，forestry，and fishery services | ． 00047 | ． 00041 | ． 00025 | ． 00035 | ． 00035 | ． 00050 | ． 00048 | ． 00025 | ． 00026 | ． 00061 |
| $5+6$ | Metallic ores mining |  | ． 00037 |  | ． 00023 |  |  |  | ． 00005 |  | ． 00119 |
| 7 | Coal mining | ． 00006 | ． 00009 | － | ． 00004 | ． 00005 | ． 00007 | ． 00008 | ． 00002 | ． 00008 | ． 00004 |
| 8 | Crude petroleum and natural gas |  |  |  |  |  |  |  |  |  |  |
| $9+10$ | Nonmetallic minerals mining |  | － |  | ． 00082 | ． 00005 | － |  |  |  |  |
| 11 | New construction |  |  |  |  |  |  |  |  |  |  |
| 12 | Maintenance and repair construction | ． 00656 | ． 00509 | ． 00400 | ． 00618 | ． 00582 | ． 00497 | ． 00652 | ． 00594 | ． 00655 | ． 00531 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | － | － | － |
| 14 | Food and kindred products |  | 二 | 二 |  |  | 二 |  | 二 | － | 二 |
| 15 16 | Tobacco products Broad and narrow fabrics，yarn and thread mills |  |  |  |  |  |  |  |  |  |  |
| 17 | Miscellaneous textile goods and floor coverings | － | － | － | － | － | ． 00718 | ． 00132 | － | － | ． 00004 |
| 18 | Apparel | ． 00041 | － | － | ． 00012 | ． 00010 | ． 00003 | － | － | ． 00004 | － |
| 19 | Miscellaneous fabricated textile products |  |  |  |  |  |  |  |  |  |  |
| $20+21$ | Lumber and wood products |  | ． 00156 | ． 00123 | ． 00320 | ． 00267 | ． 00091 | ． 00016 | － | ． 00238 | ． 00083 |
| $22+23$ | Furniture and fixtures |  |  |  |  |  |  |  |  |  |  |
| 24 | Paper and allied products，except containers | ． 00041 | ． 00031 | ． 00049 | ． 00062 | ． 00677 | ． 00429 | ． 00032 | ． 00055 | ． 00469 | ． 00511 |
| 25 | Paperboard containers and boxes | ． 00082 | ． 00102 | ． 00012 | ． 00367 | ． 00108 | ． 00409 | ． 00267 | ． 00285 | ． 00370 | ． 00356 |
| 26 A | Newspapers and periodicals |  | ． 00003 |  | ． 00004 | ． 00005 |  | ． 00012 | ． 00013 | ． 00004 | ． 00007 |
| 26 B | Other printing and publishing | ． 00011 | ． 00015 | ． 00012 | ． 00019 | ． 00010 | ． 00010 | ． 00015 | ． 00012 | ． 00004 | ． 00007 |
| 27 A | Industrial and other chemicals | ． 00006 | ． 00069 | ． 00037 | ． 00648 | ． 00129 | ． 00007 | ． 00020 | － | ． 00226 | ． 00144 |
| 27 B | Agricultural fertilizers and chemicals |  |  |  |  |  |  |  |  |  |  |
| 28 | Plastics and synthetic materials | － | － | － | － | － | ． 00050 | ． 00048 | ． 00038 | ． 00404 | ． 00295 |
| 29 A | Drugs | － | － | － | － | － |  |  |  |  |  |
| 29 B | Cleaning and toilet preparations | 00117 |  |  |  | － |  |  | $.00008$ | $.00038$ | ． 00065 |
| 30 | Paints and allied products | ． 00117 | ． 00377 | ． 00134 | ． 00202 | 00221 | ． 00050 | ． 00031 | $\text { . } 00056$ | ． 00320 | ． 00248 |
| 31 | Petroleum refining and related products | ． 00130 | ． 00153 | ． 00288 | ． 00231 | ． 00221 | $.00242$ | $.00188$ | ． 00060 | ． 00122 | ． 00555 |
| $\begin{array}{r} 32 \\ 33+34 \end{array}$ | Rubber and miscellaneous plastics products Footwear，leather，and leather products | ． 01185 | ． 04219 | ． 01985 | ． 00925 | ． 01977 | ． 02589 | ． 00477 | ． 01270 | ． 02660 | ． 02798 |
| $33+34$ 35 | Footwear，leather，and leather products Glass and glass products |  | ． 00044 |  |  | ． 00069 |  |  | － | ． 00015 |  |
| 36 | Stone and clay products | ． 00440 | ． 00125 | ． 00098 | ． 00890 | ． 00203 | ． 00262 | ． 00355 | ． 00013 | ． 00450 | ． 03035 |
| 37 | Primary iron and steel manufacturing | ． 13049 | ． 10602 | ． 11249 | ． 07548 | ． 06263 | ． 07668 | ． 07355 | ． 00113 | ． 05424 | ． 04682 |
| 38 | Primary nonferrous metals manufacturing | ． 02546 | ． 00843 | ． 02404 | ． 02237 | ． 04187 | ． 02620 | ． 06079 | ． 00776 | ． 05870 | ． 05178 |
| 39 | Metal containers |  |  |  |  |  |  |  |  |  |  |
| 40 | Heating，plumbing，and fabricated structural metal products | ． 01379 | ． 04449 | ． 01595 | ． 01214 | ． 01443 | ． 01167 | ． 00355 | ． 00668 | ． 00839 | ． 00503 |
| 41 | Screw machine products and stampings | ． 03773 | ． 01430 | ． 03067 | ． 00851 | ． 00959 | ． 00963 | ． 00977 | ． 00754 | ． 03175 | ． 01838 |
| 42 | Other fabricated metal products | ． 03385 | ． 01653 | ． 02341 | ． 01155 | ． 02826 | ． 01260 | ． 01601 | ． 00308 | ． 01733 | ． 00715 |
| 43 | Engines and turbines | ． 07252 | ． 05307 | ． 00784 | － | ． 00331 | ． 00479 | ． 00095 | － | ． 00109 | ． 00892 |
| $44+45$ | Farm，construction，and mining machinery | － | ． 03793 |  | － | －- |  |  | － |  | － |
| 46 | Materials handling machinery and equipment |  | ． 00028 | ． 01877 |  | ． 00015 | ． 00023 |  | ，0004 | － | － |
| 47 | Metalworking machinery and equipment Special industry machinery and equipment | ． 00622 | ． 00499 | ． 00454 | ． 04623 | .00914 .03322 | ． 00503 | ． 01528 | ． 00044 | ． 00472 | ． 00219 |
| 49 50 | General industrial machinery and equipment Miscellaneous machinery，except electrical | $\text { \| } 01660$ | $\text { . } 02753$ | $\begin{aligned} & 05679 \\ & .03005 \end{aligned}$ | $\begin{aligned} & 01035 \\ & .03034 \\ & \hline \end{aligned}$ | $\begin{aligned} & 02511 \\ & .03969 \end{aligned}$ | $\begin{aligned} & 07735 \\ & .03240 \end{aligned}$ | $\begin{aligned} & .01272 \\ & .06322 \end{aligned}$ | $\begin{aligned} & .00036 \\ & .00133 \end{aligned}$ | $\begin{aligned} & .01765 \\ & .02181 \end{aligned}$ | $\begin{aligned} & .00442 \\ & .00726 \end{aligned}$ |


| 51 | Computer and office equipment |
| :---: | :---: |
| 52 | Service industry machinery |
| 53 | Electrical industrial equipment and apparatus |
| 54 | Household appliances |
| 55 | Electric lighting and wiring equipment |
| 56 | Audio, video, and communication equipment |
| 57 | Electronic components and accessories |
| 58 | Miscellaneous electrical machinery and supplies |
| 59A | Motor vehicles (passenger cars and trucks) |
| 59B | Truck and bus bodies, trailers, and motor vehicles parts |
| 60 | Aircraft and parts |
| 61 | Other transportation equipment |
| 62 | Scientific and controlling instruments |
| 63 | Ophthalmic and photographic equipment |
| 64 | Miscellaneous manufacturing |
| 65A | Railroads and related services; passenger ground transportation |
| 65B | Motor freight transportation and warehousing |
| 65 C | Water transportation |
| 65D | Air transportation |
| 65E | Pipelines, freight forwarders, and related services |
| 65G | In-house transportation |
| 66 | Communications, except radio and TV |
| 67 | Radio and TV broadcasting |
| 68A | Electric services (utilities) |
| B | Gas production and distribution (utilities) |
| 68 C | Water and sanitary services |
| 69A | Wholesale trade |
| 98 | Retail trade |
| 70A | Finance |
| 70B | Insurance |
| 71A | Owner-occupied dwellings |
| 71B | Real estate and royalties |
| 72A | Hotels and lodging places |
| 72B | Personal and repair services (except auto) |
| 73A | Computer and data processing services |
| 73B | Legal, engineering, accounting, and related services |
| 73 C | Other business and professional services, except medical |
| 73 D | Advertising |
| 74 | Eating and drinking places |
| 75 | Automotive repair and services |
| 76 | Amusements |
| 77A | Health services |
| 77B | Educational and social services, and membership organizations |
| 78 | Federal Government enterprises |
| 79 | State and local government enterprises |
| 80 | Noncomparable imports |
| 81 | Scrap, used and secondhand goods |
| 82 | General government industry |
| 83 | Rest of the world adjustment to final uses |
| 84 | Household industry |
| 85 | Inventory valuation adjustment |
| 1 | Total intermediate inputs |
| 88 | Compensation of employees |
| 89 | Indirect business tax and nontax liability |
| 90 | Other value added |
| VA | Value added |
| T | Total industry output |




| Detailed Commodity-by-Industry Direct Requirements <br> (Direct requirements per dollar of industry output, at producers' prices) |  |  |  |  |  |  |  | KEY: $-=$ Value too small to report |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity |  | Household appliances | Electric lighting and wiring equipment | Audio, video, and communication 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 | $\begin{array}{r} \text { Other } \\ \text { trans- } \\ \text { portation } \\ \text { equip- } \\ \text { ment } \end{array}$ | Scientific and controlling instruments |
| number | Industry number | (54) | (55) | (56) | (57) | (58) | (59A) | (59B) | (60) | (61) | (62) |
| 1 | Livestock and livestock products |  |  |  |  |  |  |  |  |  |  |
| 2 | Other agricultural products |  |  | - |  | - | . 00001 | . 00001 | . 00001 |  | - |
| 3 | Forestry and fishery products |  |  |  |  |  |  |  |  |  |  |
| 4 | Agricultural, forestry, and fishery services | . 00048 | . 00037 | . 00025 | . 00076 | . 00080 | . 00015 |  | . 00062 | . 00047 | . 00048 |
| $5+6$ | Metallic ores mining |  |  | . 00061 |  | . 00033 |  | . 00348 | . 00030 |  | . 00013 |
| 7 | Coal mining | - |  | - | . 00003 | - | . 00012 | . 00026 | . 00015 | . 00020 | . 00030 |
| 8 | Crude petroleum and natural gas |  |  | - |  | - |  |  |  |  | - |
| $9+10$ 11 | Nonmetallic minerals mining New construction | . 00168 |  | - | . 00001 | - |  | - |  |  | - |
| 11 12 | New construction Maintenance and repair construction |  | . 00480 | . 00608 | . 01303 | . 00560 | . 00322 | . 00701 | . 00780 | . 00352 | . $005 \overline{90}$ |
| 13 | Ordnance and accessories | - | - | - | - | - | - | - | - | - | - |
| 14 | Food and kindred products |  |  | - | - | - |  | - | . 00007 |  | . 00052 |
| 15 | Tobacco products |  |  | - |  |  |  |  |  |  |  |
| 16 | Broad and narrow fabrics, yarn and thread mills | . 00012 |  | 00002 |  | - | . 00118 |  | . 00097 |  | . 00301 |
| 17 | Miscellaneous textile goods and floor coverings |  |  | . 00002 |  | - | . 00748 | . 00061 | . 00006 | . 00310 | . 00525 |
| 18 | Apparel | - | - | - | . 00001 | - | . 00003 | - | . 00006 | - | . 00017 |
| 19 | Miscellaneous fabricated textile products |  |  |  |  | - | . 02693 | . 00019 | . 00141 | . 00413 | . 00001 |
| $20+21$ | Lumber and wood products | . 00066 | . 00005 | . 00004 |  |  | . 00003 | . 00175 | . 00020 | . 01333 | . 00070 |
| $22+23$ | Furniture and fixtures | . 00012 |  | . 01168 | . 00018 | . 00005 | . 01673 | . 00037 | . 00054 | . 00120 | . 00048 |
| 24 | Paper and allied products, except containers | . 01419 | . 00644 | . 00399 | . 00209 | . 00198 | . 00029 | . 00087 | . 00025 | . 00027 | . 00361 |
| 25 | Paperboard containers and boxes | . 01033 | . 01365 | . 00228 | . 00151 | . 01178 | . 00012 | . 00410 | . 00015 | . 00016 | . 00454 |
| 26A | Newspapers and periodicals |  | . 00010 | . 00008 | . 00013 | . 00019 | . 00003 | . 00005 | . 00005 | . 00003 | . 00010 |
| 26B | Other printing and publishing | . 00035 | . 00005 | . 00033 | . 00007 | . 00009 | . 00011 | . 00031 | . 00029 | . 00006 | . 00067 |
| 27 A | Industrial and other chemicals | . 00679 | . 00262 | . 00033 | . 01128 | . 00909 | . 00473 | . 00440 | . 00069 | . 00053 | . 00148 |
| 27B | Agricultural fertilizers and chemicals |  |  |  |  |  |  |  |  |  | - |
| 28 | Plastics and synthetic materials | . 02543 | . 02255 | . 00251 | . 00275 | . 01216 | . 00005 | . 00548 | . 00307 | . 00430 | . 00426 |
| 29A | Drugs |  |  |  |  |  |  |  |  |  |  |
| 29B | Cleaning and toilet preparations | . 00096 | . 00120 | . 00036 | . 00010 | . 00014 | . 00005 | . 00005 | - $\overline{-157}$ | - | . 00028 |
| 30 | Paints and allied products | . 00817 | . 00036 | . 00021 |  | - $0^{-174}$ | . 01139 | . 00528 | . 00157 | . 00531 | . 00031 |
| 31 | Petroleum refining and related products | . 00351 | . 00314 | . 00078 | . 00086 | . 00174 | . 00043 | . 00118 | . 00155 | . 00222 | . 00123 |
| 32 | Rubber and miscellaneous plastics products | . 08710 | . 02930 | . 01938 | . 01490 | . 06502 | . 060097 | . 02577 | . 01637 | . 02057 | . 02016 |
| $33+34$ | Footwear, leather, and leather products |  |  |  |  | - | . 00001 | . 00001 | . 00001 |  | 51 |
| 35 | Glass and glass products | . 00198 | . 02475 | . 00004 | . 00899 |  | . 00998 | . 00080 | . 00019 | . 00603 | . 00351 |
| 36 | Stone and clay products | . 00541 | . 00989 | . 00017 | . 00066 | . 00075 | . 00133 | . 00336 | . 00214 | . 000093 | . 00116 |
| 37 | Primary iron and steel manufacturing | . 06835 | . 03610 | . 00468 | . 00468 | . 01871 | . 00155 | . 08408 | . 00815 | . 05360 | . 00914 |
| 38 | Primary nonferrous metals manufacturing | . 04508 | . 05369 | . 01135 | . 02385 | . 05362 | . 00028 | . 07238 | . 02389 | . 01400 | . 01309 |
| 39 | Metal containers |  |  |  |  |  |  |  |  |  | . 00024 |
| 40 | Heating, plumbing, and fabricated structural metal products |  |  | . 00535 | . 00385 | . 00368 |  | . 02042 | . 00089 | . 02117 | . 00722 |
| 41 | Screw machine products and stampings | . 02957 | . 02867 | . 01043 | . 01030 | . 01065 | . 08362 | . 04028 | . 00873 | . 00727 | . 01197 |
| 42 | Other fabricated metal products | . 01658 | . 02145 | . 00654 | . 03498 | . 01993 | . 01850 | . 01371 | . 01557 | . 01771 | . 01497 |
| 43 | Engines and turbines | - | - | - | - | - | . 01339 | . 00245 | - | . 04276 | - |
| $44+45$ | Farm, construction, and mining machinery | - | - | - | - | - |  | -0007 | - | . 00117 | - |
| 46 | Materials handling machinery and equipment |  | - | 00071 | - - | - - | . 00005 | . 00007 | - - | . 00003 | - |
| 47 | Metalworking machinery and equipment | . 00186 | . 00288 | . 00071 | . 00156 | . 00221 | . 00130 | . 00243 | . 01005 | . 00196 | . 00144 |
| 48 | Special industry machinery and equipment | - |  | - | . 00103 | - | - | - |  | - | - |
| 49 | General industrial machinery and equipment | . 00373 | - $\overline{-}$ | . 00035 |  | . 00377 | . 00036 | . 01683 | . 00270 | . 02180 | . 00066 |
| 50 | Miscellaneous machinery, except electrical | . 00210 | . 00445 | . 00199 | . 00443 | . 00462 | . 00526 | . 03823 | . 01341 | . 00803 | . 00427 |

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
Ophthalmic and photographic
Miscellaneous manufacturing
Railroads and related services; passenger ground transportation
Motor freight transportation and warehousing
Water transportation
Air transportation
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
Wholesale trade
Retail trad
Finance
Finance
Owner-occupied dwelling
Real estate and royalties
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except aut)
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
State and local government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
Rest of the world adjustment to final uses
Household industry
Total intermediate inputs
Compensation of employees
Indirect business tax and nontax liability
Other value added
Value added a
Total industry output

| Table C <br> Detailed <br> （Direct req | Commodinued）． Comodity－by－Industry Direct Requirements | prices |  |  |  |  |  | KEY：$-=$ | Value to | small | to report |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number | Industry number | Ophthalmic， and photo－ graphic equipment | Miscel－ <br> laneous manufac－ turing | Railroads and related services；pas－ senger ground transportation | Motor freight transportation and warehousing | Water trans－ portation | $\begin{array}{r} \text { Air } \\ \text { trans- } \\ \text { portation } \end{array}$ | Pipelines， freight forwarders， and related services | State and <br> local passenger transi | In－house trans－ portation | $\begin{gathered} \text { Communi- } \\ \text { cations, } \\ \text { except } \\ \text { radio } \\ \text { and TV } \end{gathered}$ |
|  |  | （63） | （64） | （65A） | （65B） | （65C） | （65D） | （65E） | （65F） | （65G） | （66） |
| 1 | Livestock and livestock products |  | 0.00007 |  |  |  |  |  |  |  |  |
| 2 | Other agricultural products |  | ． 00082 | － | ． 00001 | ． 00009 | ． 00001 |  | － | － | ． 00000 |
| 3 | Forestry and fishery products |  | ． 00034 |  |  | ． 00009 |  |  |  |  |  |
| 4 | Agricultural，forestry，and fishery services | ． 00033 | ． 00019 | ． 00002 | ． 00001 | － | － | － | ． 00034 | － | ． 00018 |
| $5+6$ | Metallic ores mining |  | ． 00027 |  |  | － |  |  |  | － |  |
| 7 | Coal mining | ． 00079 | ． 00005 | － | － | ． 00028 | － | － | － | － | － |
| 8 | Crude petroleum and natural gas |  |  |  | － |  |  | ． 00247 |  | － | － |
| $9+10$ | Nonmetallic minerals mining |  | ． 00012 |  | － | － |  |  |  |  |  |
| 11 | New construction |  |  |  |  |  |  |  |  |  |  |
| 12 | Maintenance and repair construction | ． 00616 | ． 00454 | ． 04421 | ． 00441 | ． 00092 | ． 00254 | ． 01708 | ． 28319 | ． 00411 | ． 03929 |
| 13 | Ordnance and accessories | － | － | － | － | － |  | ． 00015 | － | － | － |
| 14 | Food and kindred products | － | ． 00218 |  | － | ． 00256 | ． 00245 |  |  | － | － |
| 15 | Tobacco products |  |  |  |  |  |  |  |  | 二 |  |
| 16 17 | Broad and narrow fabrics，yarn and thread mills Miscellaneous textile goods and floor coverings | ． 00004 | $\text { . } 01118$ | 二 | ． 00005 | ． 00136 | ． 00001 | 二 | ． 00170 | ． $0000 \overline{5}$ | ． 00000 |
| 18 | Apparel | － | ． 00438 | ． 00041 | ． 00002 | ． 00194 | ． 00008 |  | － | ． 00001 | ． 00044 |
| 19 | Miscellaneous fabricated textile products |  | ． 00109 |  | ． 00007 | ． 00311 | ． 00006 | ． 00226 | ． 00034 | ． 00007 | ． 00001 |
| $20+21$ | Lumber and wood products | － | ． 01193 | － | ． 00020 | ． 00009 | ． 00002 | ． 00488 | － | ． 00006 | ． 00009 |
| $22+23$ | Furniture and fixtures |  | ． 00051 |  |  |  |  |  |  |  | 087 |
| 24 | Paper and allied products，except containers | ． 03713 | ． 00675 | ． 00039 | ． 00036 | － | ． 00033 | ． 00059 | ． 00051 | ． 00042 | ． 00087 |
| 25 | Paperboard containers and boxes | ． 01003 | ． 01887 | ． 00007 | ． 00058 | － | ． 00003 | ． 00232 | 7 | ． 00079 | ． 00041 |
| 26 A | Newspapers and periodicals | ． 00046 | ． 00017 | ． 00023 | ． 00025 | ． 00120 | ． 00020 | ． 00048 | ． 00017 |  | ． 00040 |
| 26 B | Other printing and publishing | ． 00012 | ． 00157 | ． 00361 | ． 00223 | ． 00102 | ． 00163 | ． 00720 | ． 01378 | ． 000099 | ． 00377 |
| 27 A | Industrial and other chemicals | ． 02093 | ． 01014 | ． 00187 | ． 00062 | ． 00037 | ． 00019 | ． 00024 | － | ． 00070 | ． 00008 |
| 27B | Agricultural fertilizers and chemicals | － |  |  |  | － |  |  | － | － | － |
| 28 | Plastics and synthetic materials | ． 01152 | ． 02401 | － | － | ． 00012 | － | － | － | － |  |
| 29 A | Drugs |  |  |  |  |  |  |  |  | 06 | ． 00002 |
| 29 B | Cleaning and toilet preparations | ． 00058 | ． 00092 |  | ． 00001 | 00080 | ． 00003 |  | ． 00153 | ． 00006 | ． 00012 |
| 30 | Paints and allied products |  | ． 00580 |  | ． 00034 | ． 00080 | ． 00004 |  |  | ． 00159 | ． 00027 |
| 31 | Petroleum refining and related products | ． 00152 | ． 00406 | ． 05983 | ． 04750 | ． 02241 | ． 10039 | ． 00541 | ． 37304 | ． 07011 | ． 00098 |
| 32 | Rubber and miscellaneous plastics products | ． 02321 | ． 03742 | ． 00486 | ． 01194 | ． 00318 | ． 00034 | ． 00544 | ． 01957 | ． 00551 | ． 00212 |
| $33+34$ | Footwear，leather，and leather products | － | ． 00075 | ． 00002 | ． 00001 | －0012 | ． 00001 | ． 00003 |  | ． 00000 | ． 00001 |
| 35 | Glass and glass products | ． 00638 | ． 00055 | ． 000093 | ． 00002 | ． 00012 | 00001 | ． 000036 | － | ． 00002 | ． 00009 |
| 36 | Stone and clay products | ． 00041 | ． 00339 | ． 00004 | ． 00005 | ． 00006 | ． 00001 | ． 00012 |  | ． 00001 | － |
| 37 | Primary iron and steel manufacturing | ． 00174 | ． 01873 | ． 00725 | － | － | ． 00002 |  |  | － | － |
| 38 | Primary nonferrous metals manufacturing | ． 00448 | ． 04848 | ． 00002 | ． 00002 | ． 00065 | － | － | － | ． 00003 | ． 00008 |
| 39 | Metal containers |  |  |  |  |  |  |  |  |  |  |
| 40 | Heating，plumbing，and fabricated structural metal products | ． 00029 | ． 00351 | 00013 | － | ． 00015 | 00045 | 二 | ． 00034 | － | 00175 |
| 41 | Screw machine products and stampings | ． 00854 | ． 00339 | ． 00013 | －- | ． 00006 | ． 00045 |  |  |  | ． 00175 |
| 42 | Other fabricated metal products | ． 00273 | ． 01137 | ． 00474 | ． 00285 | ． 00681 | ． 00074 | ． 00220 | ． 00221 | ． 00204 | ． 00117 |
| 43 $44+45$ | Engines and turbines | － | ． 00005 | ． 00393 | ． 00061 | ． 00669 | － | ． 00101 | ． 01889 | ． 00010 | ． 00171 |
| $44+45$ | Farm，construction，and mining machinery |  |  |  |  |  |  |  |  |  |  |
| 46 | Materials handling machinery and equipment |  |  | － | ． 00003 | － 004 | － | － | 00119 |  |  |
| 47 | Metalworking machinery and equipment Special industry machinery and equipment | ． 00120 | ． 00242 | ． 00135 | ． 000012 | ． 00465 | ． 00030 | 二 | ． 00119 | $\begin{aligned} & .00009 \\ & \text { חחOחA } \end{aligned}$ | ． 00002 |
| 49 | General industrial machinery and equipment | ． 00017 | ． 00053 | ． 00604 | ． 00027 | ． 01150 | ． 00005 | ． 00312 | ． 00238 | ． 00009 | ． 00204 |
| 50 | Miscellaneous machinery，except electrical | ． 00377 | ． 00777 | ． 00188 | ． 00035 | ． 00293 | ． 00131 | ． 00128 | ． 00204 | ． 00030 | ． 00008 |


| 51 | Computer and office equipment |
| ---: | :--- |
| 52 | Service industry machinery |
| 53 | Electrical industrial equipment and apparatus |
| 54 | Household appliances |
| 55 | Electric lighting and wiring equipment |
| 56 | Audio, video, and communication equipment |
| 57 | Electronic components and accessories |
| 58 | Miscellaneous electrical machinery and supplies |
| 59 A | Motor vehicles (passenger cars and trucks) |
| 59 B | Truck and bus bodies, trailers, and motor vehicles parts |
| 60 | Aircraft and parts |
| 61 | Other transportation equipment |
| 62 | Scientific and controlling instruments |
| 63 | Ophthalmic and photographic equipment |
| 64 | Miscellaneous manufacturing |
| 65 A | Railroads and related services; passenger ground transportation |
| 65 B | Motor freight transportation and warehousing |
| 65 C | Water transportation |
| 65 D | Air transportation |
| 65 E | Pipelines, freight forwarders, and related services |
| 65 G | In-house transportation |
| 66 | Communications, except radio and TV |
| 67 | Radio and TV broadcasting |
| 68 A | Electric services (utilities) |
| 68 B | Gas production and distribution (utilities) |
| 68 C | Water and sanitary services |
| 69 A | Wholesale trade |
| 69 B | Retail trade |
| 70 A | Finance |
| 70 B | Insurance |
| 71 A | Owner-occupied dwellings |
| 71 B | Real estate and royalties |
| 72 A | Hotels and lodging places |
| 72 B | Personal and repair services (except auto) |
| 73 A | Computer and data processing services |
| 73 B | Legal, engineering, accounting, and related services |
| 73 C | Other business and professional services, except medical |
| 73 D | Advertising |
| 74 | Eating and drinking places |
| 75 | Automotive repair and services |
| 76 | Amusements |
| 77 A | Health services |
| 77 B | Educational and social services, and membership organizations |
| 78 | Federal Government enterprises |
| 79 | State and local government enterprises |
| 80 | Noncomparable imports |
| 81 | Scrap, used and secondhand goods |
| 82 | General government industry |
| 83 | Rest of the world adjustment to final uses |
| 84 | Household industry |
| 85 | Inventory valuation adjustment |
| I | Total intermediate inputs |
| 88 | Compensation of employees |
| 89 | Indirect business tax and nontax liability |
| 90 | Other value added |
| VA | Value added |
| T | Total industry output |
|  |  |


| . 00046 | . 00051 | - |
| :---: | :---: | :---: |
| . 00004 | . 00007 | . 00014 |
| . 00493 | . 00452 | . 00448 |
|  | - |  |
| . 00025 | . 00044 | . 00038 |
|  | . 00012 |  |
| . 03535 | . 01109 | . 00027 |
| . 00012 | . 00031 | . 00151 |
| - | - |  |
| . 00016 | . 00011 | . 00696 |
|  | - | . 01693 |
| . 00510 | - |  |
| . 05151 | . 00027 | . 00018 |
| . 00004 | . 07312 | . 00023 |
| . 00339 | . 00239 | . 04247 |
| . 00716 | . 01189 | . 00660 |
| . 00058 | . 00048 | . 00140 |
| . 00348 | . 00336 | . 00384 |
| . 00004 |  | . 00793 |
| . 00367 | . 00952 |  |
| . 00466 | . 00354 | . 00701 |
| . 00611 | . 00777 | . 00172 |
| . 00232 | . 00253 | . 00002 |
| . 00088 | . 00070 | . 00194 |
| . 05964 | . 08331 | . 02728 |
| . 00076 | . 00129 | . 00332 |
| . 00854 | . 00748 | . 01742 |
| . 00141 | . 00170 | . 00468 |
| 00543 | 01219 | 01107 |
| . 00296 | . 00285 | . 00249 |
| . 00062 | . 00082 | . 00138 |
| . 00330 | . 00188 | . 01413 |
| . 00238 | . 00614 | . 00725 |
| . 01960 | . 01550 | . 01984 |
| . 01281 | . 03953 | . 00396 |
| . 00391 | . 00446 | . 00413 |
| . 00222 | . 00254 | . 01177 |
| . 00037 | . 00041 | . 00025 |
| . 00390 | . 00385 | . 00244 |
| . 00070 | . 00284 | . 00106 |
| . 00037 | . 02228 | . 00161 |
| . 00756 | . 00180 | . 00328 |
|  | . 00002 |  |
|  | - |  |
|  |  |  |
|  |  |  |
| . 20270 | . 29226 | . 42074 |
| . 00597 | . 00806 | . 01804 |
| . 38210 | . 12700 | . 17803 |
| . 59077 | . 42731 | . 61682 |
| 1.00000 | 1.00000 | 1.00000 |


| . 00001 | - | . 00002 | . 00057 |  |  | . 00155 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| . 00005 | - | . 00004 | . 00012 | . 00170 | . 00009 | . 00001 |
| . 00114 | . 00031 | . 00014 | . 00083 | . 07488 | . 00057 | . 00167 |
|  | . 00003 |  | - | - |  | - |
| . 00027 | . 00037 | . 00007 |  | . 00017 | . 00030 | . 00032 |
| . 00002 |  | . 00001 | . 00024 | - | . 00001 | . 01665 |
|  |  | . 00126 |  |  |  | . 01357 |
| . 00122 | . 00099 | . 00046 | . 00235 | . 00374 | . 00134 | . 00128 |
|  |  |  |  |  |  | -000 |
| . 00484 | . 00003 | $\begin{aligned} & .00015 \\ & .02873 \end{aligned}$ | . 00086 | . 04544 | . 00339 | . 00015 |
| . 00004 | . 02284 |  | . 00003 | . 02468 | . 00003 | - |
| . 00008 | . 020003 | . 00014 |  |  | . 00012 | . 00012 |
| . 00037 | . 00022 | . 00020 | . 00083 | . 00017 | -0025 | . 00040 |
| . 00023 | . 00228 | . 00029 | . 00095 | . 00034 | . 00025 | . 00071 |
| . 00265 | . 00059 | . 00136 | . 00098 | . 01174 | . 00127 | . 00075 |
| . 17256 | . 00321 | . 00248 | . 00622 | . 00851 | . 00477 | . 00119 |
| . 00125 | . 13200 | . 00174 | . 00167 | . 00494 | . 00111 | . 00005 |
| . 00373 | . 00237 | . 06441 | . 00693 | . 00017 | . 00006 | . 00323 |
| . 02974 | . 04337 | . 08307 | . 02270 | . 00408 | . 00068 | . 00006 |
|  |  |  |  |  |  | . 00043 |
| . 01266 | . 00083 | . 01279 | . 02862 | . 00017 | . 01279 | . 13344 |
|  |  |  |  |  |  | . 00039 |
| . 00676 | . 00370 | . 00312 | . 01303 | . 09292 | . 00775 | . 00389 |
| . 00071 | . 00028 | . 00015 | . 00033 | . 01481 | . 00113 | . 00034 |
| . 01281 | . 00111 | . 00132 | . 00098 | . 00153 | . 00554 | . 00109 |
| . 03037 | . 01557 | . 01553 | . 00892 | . 05106 | . 03407 | . 00863 |
| . 00452 | . 00046 | . 00046 | . 00077 | . 00051 | . 00695 | . 00033 |
| . 00774 | . 03231 | . 01631 | . 02624 | . 00851 | . 00002 | . 01066 |
| . 00803 | . 00142 | . 00160 | . 00538 | . 00221 | . 00735 | . 00162 |
| . 02081 | . 02762 | . 01563 | . 02100 | . 00902 | . 00062 | . 01605 |
| . 00380 | . 00142 | . 00319 | . 00295 | . 00034 | . 00399 | . 00303 |
| . 00063 | . 00059 | . 00290 | . 00211 | . 00068 | . 00091 | . 00694 |
| . 00287 | . 00863 | . 02362 | . 06979 | . 00408 | . 00393 | . 01367 |
| . 00520 | . 02105 | . 01138 | . 05212 | . 00187 | . 00681 | . 02960 |
| . 02042 | . 07263 | . 01634 | . 02743 | . 02383 | . 02614 | . 01925 |
| . 00212 | . 03835 | . 01475 | . 02478 | . 00034 |  | . 01579 |
| . 00447 | . 00176 | . 01946 | . 00369 | . 00187 | . 00486 | . 00358 |
| . 05759 | . 00046 | . 00161 | . 00654 | . 00170 | . 03791 | . 00547 |
| . 00043 | . 00046 | . 00063 | . 00051 |  |  | . 01354 |
| . 00037 |  |  |  |  |  |  |
| . 00048 | . 00373 | . 00069 | . 00747 | . 00170 | - | . 00150 |
| . 00148 | . 00031 | . 00081 | . 00393 | . 00034 | . 00213 | . 00316 |
| . 00162 |  | . 00022 | . 00030 | . 00034 | . 00036 | . 00019 |
| . 00359 | . 09106 | . 09376 | . 00744 | - | . 00104 | . 03068 |
| . 00003 | - | - | - | - | -. 00001 | - |
|  |  |  |  |  |  |  |
| - |  |  | - |  |  |  |
|  |  |  |  |  |  | - |
| . 50059 | . 60552 | . 55207 | . 41620 | 1.11962 | . 26548 | . 42092 |
| . 33263 | . 22010 | . 34800 | . 31860 | 1.53472 | . 50864 | . 21104 |
| . 01566 | . 01797 | . 06050 | . 02954 | - | . 02339 | . 06064 |
| . 15108 | . 15638 | . 03940 | . 23563 | -1.65436 | . 20247 | . 30738 |
| . 49937 | . 39445 | 44790 | . 58377 | -. 11964 | 73449 | 57905 |
| 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |


| Table C（c <br> Detailed <br> （Direct req | Commodity－by－Industry Direct Requirements uirements per dollar of industry output，at producers | ＇prices） |  |  |  |  |  | EY：－ | V Value | 00 small | report |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity |  | Radio and TV broad－ casting | Electric services （utilities） | $\qquad$ | Water and sanitary services | Wholesale trade | Retail trade | Finance | Insurance | Owner－ occupied dwellings |  |
| number | Industry number | （67） | （68A） | （68B） | （68C） | （69A） | （69B） | （70A） | （70B） | （71A） | （71B） |
| 1 | Livestock and livestock products |  |  |  | － |  |  |  |  |  |  |
| 2 | Other agricultural products | － | ． 00001 | ． 00001 | － | ． 00013 | ． 00000 | ． 00001 | ． 00001 | － | ． 00005 |
| 3 | Forestry and fishery products |  |  |  |  |  |  |  |  |  |  |
| 4 | Agricultural，forestry，and fishery services | ． 00014 | ． 00009 | － | － | ． 00049 | ． 00103 | ． 00027 | ． 00026 | ． 00795 | ． 00523 |
| $5+6$ | Metallic ores mining |  |  |  | － |  |  |  |  |  |  |
| 7 | Coal mining | － | ． 09173 | － | － | ． 00002 | ． 00001 | ． 00000 | － | － | ． 00001 |
| 8 | Crude petroleum and natural gas | － | ． 00005 | ． 41602 | － | ． 00002 |  |  | － |  | － |
| $9+10$ | Nonmetallic minerals mining | 二 |  |  | 二 | ． 00001 | ． 00000 | 二 | 二 | 二 | 二 |
| 11 12 | New construction Maintenance and repair construction | ． 00882 | ． 07796 | ． 07297 | ． 07965 | ． 00410 | ． 00940 | ． 00275 | ． 00265 | ． 04738 | ． 05376 |
| 13 | Ordnance and accessories | － | － | － | － | － | － | － | － | － | － |
| 14 | Food and kindred products | － | － | － | － | ． 00116 | ． 00018 | － | － | － | － |
| 15 | Tobacco products | － |  | － | － |  |  |  | － |  |  |
| 16 | Broad and narrow fabrics，yarn and thread mills | － |  | － | － | ． 00015 | ． 00010 |  | － |  |  |
| 17 | Miscellaneous textile goods and floor coverings |  |  |  | － | ． 00009 | ． 00008 | ． 00000 | － | － | ． 00000 |
| 18 | Apparel | － | ． 00001 | － | － | ． 00105 | ． 00006 | － | － |  | － |
| 19 | Miscellaneous fabricated textile products |  |  |  | －0818 | ． 00048 | ． 00006 | ． 00042 | ． 00008 | － | ． 00002 |
| $20+21$ | Lumber and wood products | ． 00003 | ． 00004 | ． 00003 | ． 00818 | ． 00330 | ． 00020 | ． 00018 | ． 00020 | － | ． 00008 |
| $22+23$ | Furniture and fixtures |  |  |  |  |  | ． 00000 |  |  |  | ． 000001 |
| 24 | Paper and allied products，except containers | ． 00040 | ． 00037 | ． 00026 | ． 00057 | ． 00394 | ． 00749 | ． 00272 | ． 00165 | － | ． 00099 |
| 25 | Paperboard containers and boxes | ． 00017 | ． 00009 | ． 00005 | ． 00016 | ． 00543 | ． 00165 | ． 00032 | ． 00021 | － | ． 00014 |
| 26 A | Newspapers and periodicals | ． 00024 | ． 00005 | ． 00001 | ． 00021 | ． 00048 | ． 00022 | ． 00076 | ． 00015 | － | ． 00004 |
| 26B 2 | Other printing and publishing | ． 00032 | ． 00052 | ． 00016 | ． 00026 | ． 000088 | ． 00109 | ． 00842 | ． 00668 | 00000 | ． 000148 |
| 27B | Agricultural fertilizers and chemicals |  | ． | － | － | ． 00059 | ． 00004 | ． 00012 | ． 0000 | ． 00075 | ． 0000024 |
| 28 | Plastics and synthetic materials | － | － | － | － | ． 00001 | ． 00002 | － | － | － | － |
| 29A | Drugs |  | － | － | － | ． 00006 |  |  | － |  | － |
| 29B | Cleaning and toilet preparations | － | ． 00002 | ． 00005 | － | ． 00082 | ． 00030 | ． 00006 | ． 00003 | － | ． 00009 |
| 30 | Paints and allied products |  |  |  | ． 00010 | ． 00001 | ． 00003 | ． 00000 | ． 00020 | － | ． 00005 |
| 31 | Petroleum refining and related products | ． 00033 | ． 01271 | ． 00353 | ． 03499 | ． 00312 | ． 00286 | ． 00087 | ． 00054 | － | ． 00096 |
| 32 | Rubber and miscellaneous plastics products | ． 00011 | ． 00096 | ． 00008 | ． 00809 | ． 00462 | ． 00321 | ． 00030 | ． 00148 | ． 00013 | ． 00072 |
| $33+34$ | Footwear，leather，and leather products | － | ． 00001 | ． 00001 | － | ． 00002 | ． 00024 | ． 00004 | ． 00003 | － | ． 00001 |
| 35 | Glass and glass products |  | ． 00004 | － | ． 00109 | ． 00035 | ． 00003 | ． 00006 | ． 00004 | － | ． 00001 |
| 36 | Stone and clay products |  | ． 00002 | － | ． 00083 | ． 00020 | ． 00004 | ． 00002 |  |  | ． 00065 |
| 37 | Primary iron and steel manufacturing |  | － | ． 00001 | － | ． 00012 | ． 00001 | ． 00000 | ． 00000 |  | － |
| 38 | Primary nonferrous metals manufacturing | － | ． 00059 | － | ． 00005 | ． 00059 | ． 00001 | － | ． 00006 | － | ． 00001 |
| 39 | Metal containers | － | ． 00001 | － | － | ． 00082 |  | － | － | － | － |
| 40 | Heating，plumbing，and fabricated structural metal products | － | － $0^{-}$ | － | － | ． 00019 | ． 00002 | － | － | ． 00029 | ． 00015 |
| 41 | Screw machine products and stampings |  | ． 00025 |  | － | ． 00000 | ． 00000 |  |  |  | － |
| 42 | Other fabricated metal products | ． 00006 | ． 00019 | ． 00009 | ． 00427 | ． 00087 | ． 00113 | ． 00064 | ． 00092 | － | ． 00034 |
| 43 | Engines and turbines | － | ． 00536 | － | － | ． 00003 | ． 00014 | ． 00001 | － | － | － |
| $44+45$ | Farm，construction，and mining machinery | － |  | 二 | － | ． 00015 |  | － | － | ． 00035 | － |
| 46 | Materials handling machinery and equipment |  | ． 00008 | － | － | ． 00077 | ． 00002 | － | － |  | － |
| 47 | Metalworking machinery and equipment | ． 00003 | ． 00046 | ． 00019 | ． 00016 | ． 00033 | ． 00008 | ． 00001 | － | － | ． 00001 |
| 48 | Special industry machinery and equipment | － | － | － | － | ． 00011 | ． 00008 | － | － | － | ． 00001 |
| $\begin{aligned} & 49 \\ & 50 \end{aligned}$ | General industrial machinery and equipment Miscellaneous machinery，except electrical | ．00017 | $\begin{gathered} .00037 \\ .00114 \end{gathered}$ | \|00003. | $\begin{gathered} .00016 \\ .00089 \end{gathered}$ | $\begin{aligned} & .00007 \\ & .00120 \end{aligned}$ | $\text { . } 00004$ | $\begin{aligned} & .00005 \\ & .00004 \end{aligned}$ | ． 00000 | 二 | $\begin{aligned} & .00002 \\ & .00001 \end{aligned}$ |


| 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 venicles (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 |
| In-house transportation |
| Communications, except radio and TV |
| Radio and TV broadccasting |
| 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 |
| State and local government enterprises |
| Noncomparable imports |
| Scrap, used and secondhand goods |
| General government industry |
| Rest of tte world adjustment to final uses |
| Household industry |
| Inventory valuation adjustment |
| Total intermediate inputs |
| Compensation of employees |
| Indirect business tax and nontax liability |
| Other value added |
| Value added |
| Total industry output |


| . 00112 | . 00004 | . 00163 |  | . 00045 | . 00016 | . 00058 | . 00081 | - | . 00007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | . 00001 | . 00001 | . 00042 | . 00030 | . 00025 | . 00000 | . 00000 |  | . 00000 |
| . 00098 | . 00110 |  |  | . 00017 | . 00007 | . 00004 | . 00002 | - | . 00001 |
|  |  |  |  | - | . 00001 | . 00000 | - | - | . 00009 |
|  | . 00076 | . 00001 | . 00099 | . 00030 | . 00042 | . 00005 | . 00009 | - | . 00007 |
| . 00140 |  |  |  | . 00025 | . 00006 | . 00003 | . 00002 | - | . 00001 |
| . 00708 |  |  |  | . 00537 | . 00037 | . 00016 | . 00000 | - | . 00000 |
| . 00031 | . 00062 | . 00034 | . 00151 | . 00064 | . 00058 | . 00081 | . 00114 | - | . 00013 |
| 00009 |  | 00010 | 06116 | 00169 | 00350 | 00016 | 00023 | - | 00010 |
| . 00009 | . 00007 | . 00010 | . 06116 | . 00169 | . 00350 | . 00016 | . 00023 | 二 | . 00010 |
|  |  |  |  | - | . 00000 | - | . 00001 | - | . 00000 |
| . 00010 | . 00061 | . 00022 | . 03663 | . 00009 | . 00009 | . 00000 | . 00023 | - | . 00006 |
| . 00136 | . 000005 | . 000009 | . 000031 | . 00109 | . 00036 | . 00149 | . 00140 | - | . 00025 |
| . 00017 | . 00019 | . 00011 | . 00021 | . 00093 | . 00090 | . 00155 | . 00076 |  | . 00028 |
| . 00060 | . 02739 | . 00042 | . 00224 | . 00085 | . 00076 | . 00078 | . 00119 | . 00001 | . 00066 |
| . 00153 | . 00340 | . 00048 | . 00576 | . 00370 | . 00259 | . 01031 | . 00384 | . 00005 | . 00101 |
|  | . 00433 | . 00077 | . 00089 | . 00020 | . 00011 | . 00008 | . 00003 |  | . 00002 |
| . 00249 | . 00228 | . 00295 | . 00344 | . 00467 | . 00285 | . 00332 | . 00439 | - | . 00232 |
| . 00003 | . 00020 | . 00502 | . 00047 | . 00048 | . 00007 | . 00006 | . 00007 | - | . 00005 |
| . 01015 | . 00225 | . 00248 | . 00958 | . 03969 | . 03873 | . 00089 | . 00012 | - | . 00091 |
| . 01561 | . 00167 | . 00066 | . 02190 | . 01448 | . 00890 | . 01245 | . 01806 | - | . 00686 |
| . 02064 |  |  |  |  |  |  |  | - | - |
| . 00640 | . 00013 | . 00206 | . 00408 | . 00804 | . 02236 | . 00473 | . 00163 | - | . 01197 |
| . 00016 | . 02756 | . 18986 | . 02686 | . 00197 | . 00159 | . 00115 | . 00018 | - | . 00172 |
| . 00138 | . 00110 | . 00025 | . 07447 | . 00152 | . 00296 | . 00251 | . 00051 |  | . 00630 |
| . 00290 | . 00691 | . 00619 | . 03067 | . 02399 | . 00333 | . 00432 | . 00287 | . 00041 | . 00150 |
| . 00025 | . 00021 | . 00031 | . 00881 | . 00247 | . 00343 | . 00031 | . 00051 | . 00042 | . 00048 |
| . 00845 | . 01689 | . 00866 | . 00777 | . 01122 | . 01677 | . 14408 | . 04624 | . 01868 | . 00928 |
| . 00553 | . 00207 | . 00122 | . 01189 | . 00146 | . 00278 | . 00303 | . 27895 | . 00661 | . 00297 |
| . 02305 | . 01130 | . 00388 | . 00401 | . 02873 | . 07143 | . 03225 | . 03993 | . 03590 | . 06542 |
| . 00253 | . 00233 | . 00139 | . 00242 | . 00323 | . 00284 | . 00288 | . 00468 |  | . 00256 |
| . 00333 | . 00055 | . 00028 | . 00413 | . 00214 | . 00315 | . 00105 | . 00076 | - | . 00353 |
| . 01440 | . 01021 | . 00262 | . 00306 | . 01337 | . 00635 | . 03061 | . 00970 |  | . 00113 |
| . 01479 | . 01159 | . 02461 | . 03483 | . 01176 | . 00978 | . 02704 | . 03350 | . 00524 | . 01706 |
| . 02624 | . 01044 | . 00514 | . 01129 | . 04162 | . 03434 | . 03937 | . 03828 | . 00359 | . 02598 |
| . 02830 | . 00077 | . 00024 | . 00005 | . 02535 | . 05070 | . 01784 | . 01181 | - | . 00909 |
| . 00300 | . 00279 | . 00155 | . 00309 | . 00371 | . 00399 | . 00338 | . 00555 | - | . 00300 |
| . 00382 | . 00116 | . 00165 | . 00374 | . 00677 | . 00454 | . 00239 | . 01477 | - | . 00649 |
| . 37883 | . 00030 | . 00029 | . 00026 | . 00115 | . 00084 | . 00052 | . 00062 | - | . 00031 |
| . 00535 | . 00312 | . 00052 | . 00063 | . 00199 | . 00097 | . 00208 | . 00146 | - | . 00087 |
| . 00114 | . 00268 | . 00112 | . 00160 | . 00567 | . 00575 | . 02139 | . 00771 | - | . 00283 |
| . 00027 | . 00011 | . 00008 |  | . 00055 | . 00066 | . 00034 | . 00011 |  | . 00074 |
|  | . 00013 | . 00061 | . 00010 | . 00719 | . 00015 | . 00747 | . 00313 |  |  |
| - |  |  |  | . 00000 | . 00000 |  | . 00000 | - | . 00000 |
|  |  |  |  |  |  |  |  |  |  |
| - | - | - | - | - | - | - | - | - |  |
|  |  |  |  |  |  |  |  |  |  |
| . 60507 | . 35215 | . 76143 | . 54492 | . 32558 | . 33988 | . 39960 | . 55054 | . 12775 | . 25123 |
| . 28114 | . 12917 | . 06188 | . 22361 | . 38653 | . 39306 | . 34902 | . 39766 |  | . 08748 |
| . 01819 | . 07341 | . 04639 | . 09516 | . 17705 | . 13865 | . 03922 | . 06023 | . 15970 | . 14491 |
| . 09559 | . 44523 | . 13028 | . 13628 | . 11080 | . 12837 | . 21213 | - . 00846 | . 71254 | . 51635 |
| . 39491 | . 64781 | . 23854 | . 45506 | . 67438 | . 66008 | . 60037 | . 44943 | . 87224 | . 74873 |
| 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |


| Table C (continued). <br> Detailed Commodity-by-Industry Direct Requirements <br> (Direct requirements per dollar of industry output, at producers' prices) |  |  |  |  |  |  | KEY: $-=$ Value too small to report |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Commodity number |  | 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 medica | Advertising |  | Auto- motive repair and services | Amusements | Health services |
|  | Industry number | (72A) | (72B) | (73A) | (73B) | (73C) | (73D) | (74) | (75) | (76) | (77A) |
| 1 | Livestock and livestock products |  |  | - |  | 0.00013 | - | 0.00114 |  | 0.00032 | 0.00010 |
| 2 | Other agricultural products | . 00008 | - | . 00002 | . 00002 | . 00001 | - | . 00657 | . 00001 | . 00121 | . 00036 |
| 3 | Forestry and fishery products | . 00005 |  |  |  |  |  | . 00622 |  | . 00005 | . 00007 |
| 4 | Agricultural, forestry, and fishery services | . 00461 | . 00046 | . 00047 | . 00044 | . 00030 | . 00030 | . 00066 | . 00038 | . 00223 | . 00132 |
| $5+6$ | Metallic ores mining |  |  |  |  |  |  |  |  |  |  |
| 7 | Coal mining | . 00003 | . 00003 | - | . 00000 | . 00000 | - | . 00002 | . 00001 | . 00001 | . 00001 |
| 8 | Crude petroleum and natural gas |  |  |  |  |  |  |  |  |  | - |
| 9+10 | Nonmetallic minerals mining | - | . 00003 | - | - | - |  |  |  |  |  |
| 11 | New construction |  |  |  |  |  |  |  |  |  |  |
| 12 | Maintenance and repair construction | . 02544 | . 00542 | . 00267 | . 00150 | . 00257 | . 00165 | . 00745 | . 00379 | . 00870 | . 00506 |
| 13 | Ordnance and accessories | $\bigcirc$ | - | - | - | . 00026 | - | - | - | . 00008 |  |
| 14 | Food and kindred products | . 00200 | - | - | - | . 00009 | - | . 21922 | - | . 00570 | . 00762 |
| 15 | Tobacco products |  |  | - |  |  |  |  |  |  |  |
| 16 | Broad and narrow fabrics, yarn and thread mills | . 00010 | . 00155 | - | - - | . 00002 | - | - 0001 |  | . 00066 | . 00006 |
| 17 | Miscellaneous textile goods and floor coverings | . 00022 | . 00040 | - | . 00001 | . 00002 | - | . 00014 | . 00040 | . 00008 | . 00009 |
| 18 | Apparel | . 00082 | . 00410 | - | - | . 00026 | - | . 00003 | . 00031 | . 00088 | . 00109 |
| 19 | Miscellaneous fabricated textile products | . 00844 | . 00283 |  |  | . 00002 | . 00060 | . 00056 | . 00089 | . 00044 | . 00122 |
| $20+21$ | Lumber and wood products | . 00020 | . 00047 | . 00016 | . 00029 | . 00026 | . 00013 | . 00009 | . 00008 | . 00064 | . 00024 |
| $22+23$ | Furniture and fixtures |  |  | . 00002 | . 00002 | . 00001 |  |  | . 00120 | . 00002 | . 00001 |
| 24 | Paper and allied products, except containers | . 00340 | . 00276 | . 00248 | . 00284 | . 00411 | . 00284 | . 00319 | . 00137 | . 00179 | . 00416 |
| 25 | Paperboard containers and boxes | . 00206 | . 00063 | . 00021 | . 00037 | . 00167 | . 00023 | . 00355 | . 00064 | . 00077 | . 00137 |
| 26A | Newspapers and periodicals | . 00089 | . 00037 | . 00030 | . 00050 | . 00045 | . 00020 | . 00010 | . 00030 | . 00052 | . 00068 |
| 26B | Other printing and publishing | . 00317 | . 01030 | . 00897 | . 00765 | . 00717 | . 07441 | . 00204 | . 00076 | . 00221 | . 00540 |
| 27 A | Industrial and other chemicals | . 00017 | . 00166 | . 00009 | . 00017 | . 00363 | . 00006 | . 00105 | . 00157 | . 00096 | . 01444 |
| 27 B | Agricultural fertilizers and chemicals | . 00188 |  | - | - | . 00001 |  | - | - | . 00110 | . 00006 |
| 28 | Plastics and synthetic materials | - | . 00013 | - | - | - | - | - | - | -0007 | . 00032 |
| 29 A | Drugs | 121 |  |  |  |  |  | 0 | 207 | . 00007 | . 01341 |
| 29 B | Cleaning and toilet preparations | . 00121 | . 01217 | . 00003 | . 00011 | . 00132 | - | . 00019 | . 00087 | . 00025 | . 00116 |
| 30 | Paints and allied products | . 00000 | . 00010 | 073 | . 000001 | . 00015 | -0005 | . 00000 | . 00237 | . 00028 | 97 |
| 31 | Petroleum refining and related products | . 00188 | . 00230 | . 00073 | . 00050 | . 00319 | . 00005 | . 00037 | . 01269 | . 00158 | . 00097 |
| 32 | Rubber and miscellaneous plastics products | . 00408 | . 00413 | . 00165 | . 00093 | . 00298 | . 00080 | . 00772 | . 02067 | . 00109 | . 01159 |
| $33+34$ | Footwear, leather, and leather products | . 00008 | . 00381 | . 00003 | . 00016 | . 00016 | - | . 00001 | . 00001 | . 00058 | . 00008 |
| 35 | Glass and glass products | . 00426 | . 00004 | . 00003 | . 00049 | . 00086 |  | . 00148 | . 00567 | . 00004 | . 00164 |
| 36 | Stone and clay products | . 00064 | . 00011 |  | . 00009 | . 00024 | - | . 00139 | . 00034 | . 00002 | . 00035 |
| 37 | Primary iron and steel manufacturing | - | . 00008 | - | . 00001 | . 00021 | - |  | - | . 00001 | . 00000 |
| 38 | Primary nonferrous metals manufacturing | - | . 00080 | - | - | . 00006 | - | . 00002 | . 00004 | . 00012 | . 00002 |
| 39 | Metal containers | - |  | - | - | . 00011 | - |  |  |  | - |
| 40 | Heating, plumbing, and fabricated structural metal products | - | . 00007 | - | - |  | - |  |  | . 00002 | - |
| 41 | Screw machine products and stampings | . 00010 | . 00093 |  |  | . 00030 |  | . 00020 | . 01060 | . 00016 | . 00059 |
| 42 | Other fabricated metal products | . 00059 | . 00257 | . 00036 | . 00067 | . 00091 | . 00032 | . 00035 | . 01206 | . 00071 | . 00075 |
| 43 | Engines and turbines | - | . 00003 | - | - | . 00041 | - | . 00001 | . 00474 | , | . 00000 |
| $44+45$ | Farm, construction, and mining machinery | - | - | 二 | - | . 00023 | - | - | - | . 00003 | - |
| 46 | Materials handling machinery and equipment |  |  | - | - | . 00043 | - | - | - |  | - |
| 47 | Metalworking machinery and equipment | . 00002 | . 00013 | . 00003 | . 00004 | . 00166 | - | . 00000 | . 00023 | . 00006 | . 00002 |
| 48 | Special industry machinery and equipment | - | . 00045 | . 00002 | . 00002 | . 00116 | - | . 00053 | . 00025 |  | . 00001 |
| 49 50 | General industrial machinery and equipment Miscellaneous machinery, except electrical | . 0001 | $\begin{gathered} .00040 \\ .00099 \end{gathered}$ | . $0001 \overline{16}$ | .00030 | $\begin{aligned} & 00125 \\ & .00128 \end{aligned}$ | . 00019 | $\text { . } 000058$ | $\begin{aligned} & .00018 \\ & .00222 \end{aligned}$ | . $0002 \bar{\square}$ | $\begin{aligned} & .00001 \\ & .00020 \end{aligned}$ |



| . 00012 | . 00487 | . 05705 | . 00200 | . 00140 | . 00218 | . 00004 | . 00004 | . 00017 | . 00141 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| . 00010 | . 00353 | . 00001 | . 00002 | . 00041 | . 000007 | . 00016 | . 00667 | . 00083 | . 00017 |
| . 00022 | . 00062 | . 00105 | . 00002 | . 00254 | . 00003 | . 00002 | . 00297 | . 00002 | . 00017 |
| . 00013 | . 00744 |  | - | . 00001 | - | . 00002 | - | - | . 00002 |
| . 00026 | . 00024 | . 00001 | . 00005 | . 00035 | . 00009 | . 00027 | . 00356 | . 00071 | . 00041 |
| . 00007 | . 00013 | . 00004 | . 00003 | . 00018 | . 00007 | . 00006 | . 00012 | . 00007 | . 00002 |
|  | . 01017 | . 03798 | . 00008 | . 00725 | . 00010 |  | . 00197 | . 00002 | . 00035 |
| . 00026 | . 00063 | . 00286 | . 00162 | . 00116 | . 00051 | . 00015 | . 00512 | . 00519 | . 00051 |
|  |  | -0015 |  | - $\bar{\square}$ |  | - | . 00078 | - | - |
| . 00051 | . 00075 | . 00015 | . 00032 | . 00137 | . 00069 | . 00112 | $.11321$ | . 00069 | . 00045 |
|  |  |  |  | . 00082 |  |  |  | . 00032 | - |
| . 00025 | . 00079 | . 00058 | . 00007 | . 00050 | . 00003 | . 00002 | . 00068 | . 00011 | . 01698 |
| . 00047 | . 01042 | . 00057 | . 00234 | . 00349 | . 00124 | . 00007 | . 00030 | . 00047 | . 00232 |
| . 00141 | . 01440 | . 00046 | . 00122 | . 00184 | . 00110 | . 00131 | . 00036 | . 00252 | . 00072 |
| . 00105 | . 00074 | . 00070 | . 00070 | . 00157 | . 00061 | . 00169 | . 00192 | . 00062 | . 00128 |
| . 00525 | . 00516 | . 00144 | . 00287 | . 00468 | . 00142 | . 00772 | . 00624 | . 00193 | . 00311 |
| . 00023 | . 00030 | . 00008 | . 00013 | . 00033 | . 00009 | . 00023 | . 00042 | . 00023 | . 00017 |
| . 00374 | . 00308 | . 00423 | . 00329 | . 00531 | . 00244 | . 00319 | . 00439 | . 00260 | . 00305 |
| . 01339 | . 00010 | . 00008 | . 00008 | . 00012 | . 00010 | . 00004 | . 00182 | . 00004 | . 00007 |
| . 02013 | . 02822 | . 00239 | . 00542 | . 01859 | . 01716 | . 03677 | . 01417 | . 01848 | . 01292 |
| . 01286 | . 01190 | . 02057 | . 01168 | . 01279 | . 01010 | . 00352 | . 00891 | . 00735 | . 00858 |
| . 03589 | . 01371 | . 00351 | . 00334 | . 00391 | . 00395 | . 02197 | . 00951 | . 01467 | . 00722 |
| . 00596 | . 00434 | . 00025 | . 00050 | . 00083 | . 00021 | . 00351 | . 00235 | . 00132 | . 00157 |
| . 01327 | . 00484 | . 00033 | . 00045 | . 00075 | . 00009 | . 00518 | . 00276 | . 00240 | . 00262 |
| . 00677 | . 01671 | . 02336 | . 00464 | . 01069 | . 00867 | . 04550 | . 04059 | . 01408 | . 01467 |
| . 00182 | . 00080 | . 00023 | . 00023 | . 00196 | . 00054 | . 00126 | . 00754 | . 00085 | . 00070 |
| . 05121 | . 00958 | . 00861 | . 01057 | . 00897 | . 00589 | . 00952 | . 01594 | . 00878 | . 00658 |
| . 00159 | . 00219 | . 00078 | . 00107 | . 00177 | . 00105 | . 00124 | . 00431 | . 00135 | . 00274 |
| . 07315 | . 05600 | . 03183 | . 05302 | . 02881 | . 04553 | . 04907 | . 05126 | . 06279 | . 06066 |
| . 00354 | . 00250 | . 00277 | . 00529 | . 00466 | . 00228 | . 00267 | . 00337 | . 00242 | . 00295 |
| . 00675 | . 04877 | . 00148 | . 00080 | . 00178 | . 00102 | . 00313 | . 01145 | . 00258 | . 00229 |
| . 00652 | . 00579 | . 08012 | . 02397 | . 01531 | . 00827 | . 00252 | . 00406 | . 00435 | . 01096 |
| . 00843 | . 03335 | . 01560 | . 07539 | . 01881 | . 03729 | . 00865 | . 00710 | . 02209 | . 01667 |
| . 07055 | . 02693 | . 03137 | . 08222 | . 05271 | . 08176 | . 02009 | . 02051 | . 03308 | . 04331 |
| . 01758 | . 02470 | . 00937 | . 00360 | . 00828 | . 00606 | . 02177 | . 01648 | . 03896 | . 00447 |
| . 00537 | . 00339 | . 00366 | . 00315 | . 00619 | . 00269 | . 01489 | . 00392 | . 00351 | . 00771 |
| . 00546 | . 00487 | . 00543 | . 00423 | . 00587 | . 00941 | . 00286 | . 01191 | . 00587 | . 00542 |
| . 00055 | . 00047 | . 00040 | . 00070 | . 00132 | . 02056 | . 00876 | . 00051 | . 16209 | . 00041 |
|  |  |  |  | . 00001 |  |  |  | . 00027 | . 02119 |
| . 00185 | . 00355 | . 00648 | . 00305 | . 00333 | . 00224 | . 00158 | . 00073 | . 00156 | . 00261 |
| . 00498 | . 00547 | . 00609 | . 00941 | . 00608 | . 00529 | . 00164 | . 00359 | . 00411 | . 00951 |
| . 00172 | . 00071 | . 00012 | . 00027 | . 00024 | . 00018 | . 00068 | . 00117 | . 00033 | . 00033 |
| . 00127 | . 00024 | . 00472 | . 00195 | . 00366 | . 00147 | . 00041 | . 00008 | . 00176 | . 00004 |
| - | . 00001 |  | - | . 00000 | - | . 00000 | . 00366 | -. 00126 | - |
|  |  |  |  |  |  |  |  |  |  |
| - | - |  |  | - |  | - |  |  |  |
|  |  |  |  | - $\overline{-}$ |  |  | - $\overline{-1}$ |  | - $\overline{-185}$ |
| . 45118 | . 43259 | . 38513 | . 33687 | . 28852 | . 36923 | . 54829 | . 48109 | . 46395 | . 35185 |
| . 34652 | . 31840 | . 42591 | . 46246 | . 41796 | . 38538 | . 32032 | . 27779 | . 31579 | . 50833 |
| . 08693 | . 02192 | . 01610 | . 00657 | . 01598 | . 01136 | . 05840 | . 04804 | . 04084 | . 00588 |
| . 11534 | . 22706 | . 17283 | . 19407 | . 27749 | . 23401 | . 07296 | . 19305 | . 17939 | . 13390 |
| . 54878 | . 56737 | . 61484 | . 66310 | . 71143 | . 63074 | 45168 | . 51888 | . 53602 | . 64811 |
| 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 | 1.00000 |

## Table C (continued)

## Detailed Commodity-by-Industry Direct Requirements

(Direct requirements per dollar of industry output, at producers' prices)

```
Computer and office equipment
Service industry machinery
Electrical industrial equipment and apparatus Household appliance
Electric lighting and wiring equipment
Alectric lighting and wiring equipment 
Audio, video, and communication equipm
58
Miscellaneous electrical machinery and supplies
Motor vehicles (passenger cars and trucks)
Motor vehicles (passenger cars and trucks)
Aircraft and parts 
Scientific and controlling instruments
Ophthalmic and photographic equipment
Ophthalmic and photographic
Railroads and related services; passenger ground transportation
Motor freight transportation and warehousing
Water transportation
Air transportation
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)
Wholesale trade
Retail trade
Finance
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
Educational and social services, and membership organizations
Federal Government enterprises
Federal Government enterprises
Noncomparable imports
Scrap, used and secondhand goods
General government industry
3 Rest of the world adjustment to final uses
Household industry
Inventory valuation adjustment
Total intermediate inputs
Compensation of employees
Indirect business tax and nontax liability
Other value added
Value added
```




| Table D. Detaile (Total requ | Industry-by-Commodity Total Requirements | roducers' | rices) |  |  |  |  | KEY: - | $=$ Value | too sma | ll to report |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Livestock and livestock products | Other agri- cultural products | Forestry and fishery products | Agricultural, forestry, and fishery services | Metallic mining mining | Coal mining | Crude <br> petrol- <br> eum and <br> natural gas | Non- metallic minerals mining | New construction | 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 | . 00430 | . 00233 | . 00121 | . 00163 | . 01401 | 1.13077 | . 00333 | . 01130 | . 00309 | . 00265 |
| 8 | Crude petroleum and natural gas | . 02636 | . 03308 | . 03224 | . 02191 | . 04786 | . 03104 | 1.27216 | . 05103 | . 02280 | . 02845 |
| $9+10$ | Nonmetallic minerals mining | . 00412 | . 00880 | . 02230 | . 00619 | . 00584 | . 00184 | . 00151 | . 99308 | . 01263 | . 01310 |
| 11 | New construction |  |  |  |  |  |  |  |  | 1.00037 |  |
| 12 | Maintenance and repair construction | . 03683 | . 02882 | . 04105 | . 02158 | . 04347 | . 01553 | . 04974 | . 02234 | . 01253 | 1.01224 |
| 13 | Ordnance and accessories | . 00006 | . 00005 | . 00005 | . 00005 | . 00010 | . 00006 | . 00004 | . 00008 | . 00015 | . 00012 |
| 14 | Food and kindred products | . 25311 | . 00438 | . 04443 | . 01752 | . 00370 | . 00236 | . 00212 | . 00262 | . 00269 | . 00267 |
| 15 | Tobacco products |  |  |  |  | . 00001 |  |  |  |  |  |
| 16 | Broad and narrow fabrics, yarn and thread mills | . 00306 | . 00535 | . 00278 | . 00327 | . 000096 | . 00527 | . 00037 | . 00086 | . 00270 | . 00256 |
| 17 | Miscellaneous textile goods and floor coverings | . 00327 | . 00271 | . 00643 | . 00356 | . 00058 | . 00047 | . 00030 | . 00051 | . 00349 | . 00379 |
| 18 | Apparel | . 00037 | . 00033 | . 00028 | . 00036 | . 00020 | . 00038 | . 00012 | . 00018 | . 00031 | . 00031 |
| 19 | Miscellaneous fabricated textile products | . 00099 | . 00186 | . 00146 | . 00304 | . 00023 | . 00020 | . 00016 | . 00019 | . 00085 | . 000999 |
| $20+21$ | Lumber and wood products | . 00904 | . 01081 | . 00560 | . 00448 | . 01151 | . 00655 | . 00530 | . 00363 | . 07672 | . 09503 |
| $22+23$ | Furniture and fixtures | . 00013 | . 00010 | . 00008 | . 00008 | . 00016 | . 00012 | . 00007 | . 00015 | . 00344 | . 00051 |
| 24 | Paper and allied products, except containers | . 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 |
| 29 A | 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 | Primary nonferrous metals manufacturing | . 00721 | . 00386 | . 00390 | . 00328 | . 00914 | . 00729 | . 00387 | . 00710 | . 02814 | . 02533 |
| 39 | Metal containers | . 00684 | . 00091 | . 00163 | . 00119 | . 00076 | . 00031 | . 00026 | . 00042 | . 00074 | . 00074 |
| 40 | Heating, plumbing, and fabricated structural metal products | . 00283 | . 00235 | . 00251 | . 00148 | . 01409 | . 00644 | . 00317 | . 00821 | . 05423 | . 04456 |
| 41 | Screw machine products and stampings | . 00210 | . 00113 | . 00108 | . 00099 | . 00416 | . 00770 | . 00092 | . 00337 | . 00493 | . 00428 |
| 42 | Other fabricated metal products | . 00678 | . 00550 | . 00419 | . 00499 | . 00625 | . 00663 | . 00763 | . 00541 | . 02688 | . 02242 |
| 43 | Engines and turbines | . 00096 | . 00078 | . 00154 | . 00047 | . 00600 | . 00646 | . 00082 | . 00556 | . 00108 | . 00093 |
| $44+45$ | Farm, construction, and mining machinery | . 00622 | . 00750 | . 00516 | . 00250 | . 03819 | . 03817 | . 00397 | . 03967 | . 00339 | . 00313 |
| 46 | Materials handling machinery and equipment | . 00026 | . 00027 | . 00014 | . 00019 | . 00769 | . 00657 | . 00071 | . 01428 | . 00323 | . 00053 |
| 47 | Metalworking machinery and equipment | . 00135 | . 00106 | . 00073 | . 00059 | . 00280 | . 00190 | . 00090 | . 00193 | . 00294 | . 00234 |
| 48 | Special industry machinery and equipment | . 00060 | . 00046 | . 00038 | . 00042 | . 00094 | .00057 | . 00028 | . 00073 | . 00078 | . 00068 |

    Computer and office equipment
    Service industry machinery
    Electrical industrial equipment and apparatus
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment
Alectronic components and accessories
Electronic components and accessories 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
W
Air transportation
Pipelines, freight forwarders, and related services
State and local passenger transi
In-house
*ations, except radio and TV
Radio and TV broadcasting
Electric services (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)
Personal and repair services (except auto)
Legal, engineering, accounting, and related services
Other business and professional services, except medical
Advertising
Advertising drining places
Eating and drinking places
Amusements
Health services
Educational and social services, and membership organizations
Federal Government enterprises
State and local government enterprises
State and local government en
Household industry
Inventory valuation adjustment

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2.83444
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 00211 & . 00184 & . 00163 & . 00102 & . 00832 & . 01281 & . 00248 & . 01113 & . 01027 & . 00539 \\
\hline . 00307 & . 00295 & . 00188 & . 00190 & . 00676 & . 00829 & . 00322 & . 00504 & . 00450 & . 00340 \\
\hline . 00142 & . 00107 & . 00103 & . 00099 & . 00144 & . 00096 & . 00091 & . 00136 & . 00185 & . 00159 \\
\hline . 00081 & . 00064 & . 00091 & . 00062 & . 00094 & . 00068 & . 00081 & . 00081 & . 01242 & . 01198 \\
\hline . 00174 & . 00133 & . 00135 & . 00093 & . 00456 & . 00476 & . 00193 & . 00589 & . 00950 & . 00767 \\
\hline . 00018 & . 00015 & . 00016 & . 00012 & . 00022 & . 00014 & . 00019 & . 00015 & . 00242 & . 00282 \\
\hline . 00164 & . 00122 & . 00136 & . 00128 & . 00125 & . 00126 & . 00113 & . 00088 & . 01848 & . 01680 \\
\hline . 00052 & . 00041 & . 00040 & . 00036 & . 00045 & . 00028 & . 00035 & . 00037 & . 00479 & . 00342 \\
\hline . 00317 & . 00250 & . 00214 & . 00214 & . 00266 & . 00198 & . 00145 & . 00251 & . 00527 & . 00456 \\
\hline . 00441 & . 00493 & . 00225 & . 00227 & . 00141 & . 00117 & . 00062 & . 00183 & . 00309 & . 00281 \\
\hline . 00021 & . 00018 & . 00021 & . 00019 & . 00026 & . 00028 & . 00008 & . 00029 & . 00023 & . 00024 \\
\hline . 00467 & . 00424 & . 00504 & . 00458 & . 00476 & . 00394 & . 00177 & . 00605 & . 00461 & . 00487 \\
\hline . 00033 & . 00027 & . 00043 & . 00059 & . 00076 & . 00073 & . 00029 & . 00063 & . 00050 & . 00044 \\
\hline . 00059 & . 00029 & . 00053 & . 00023 & . 00079 & . 00100 & . 00024 & . 00043 & . 00062 & . 00061 \\
\hline . 00109 & . 00070 & . 00170 & . 00080 & . 00112 & . 00063 & . 00051 & . 00073 & . 00469 & . 00389 \\
\hline . 00082 & . 00061 & . 00058 & . 00087 & . 00070 & . 00060 & . 00059 & . 00054 & . 00108 & . 00095 \\
\hline . 00158 & . 00116 & . 00107 & . 00096 & . 00111 & . 00079 & . 00073 & . 00114 & . 00469 & . 00451 \\
\hline . 02050 & . 00639 & . 00419 & . 00607 & . 01244 & . 03263 & . 00400 & . 00828 & . 00653 & . 00637 \\
\hline . 05211 & . 02887 & . 01539 & . 02594 & . 03316 & . 02368 & . 01020 & . 03208 & . 03743 & . 03542 \\
\hline . 00403 & . 00323 & . 01565 & . 00200 & . 00414 & . 00753 & . 00421 & . 00292 & . 00309 & . 00315 \\
\hline . 00531 & . 00423 & . 00706 & . 01378 & . 00731 & . 00636 & . 00506 & . 00562 & . 00536 & . 00510 \\
\hline . 00539 & . 00319 & . 00385 & . 00371 & . 00457 & . 00419 & . 00219 & . 00423 & . 00341 & . 00356 \\
\hline . 00216 & . 00067 & . 00044 & . 00064 & . 00131 & . 00345 & . 00042 & . 00087 & . 00069 & . 00067 \\
\hline . 07896 & . 09331 & . 09439 & . 07759 & . 05891 & . 05271 & . 02344 & . 08840 & . 07006 & . 07743 \\
\hline . 01355 & . 00991 & . 00840 & . 01012 & . 01034 & . 00719 & . 00789 & . 00977 & . 01314 & . 01313 \\
\hline . 00329 & . 00167 & . 00166 & . 00221 & . 00162 & . 00131 & . 00143 & . 00190 & . 00236 & . 00229 \\
\hline . 03179 & . 01566 & . 00778 & . 01023 & . 09024 & . 02799 & . 02356 & . 04995 & . 01421 & . 01336 \\
\hline . 01076 & . 01301 & . 00779 & . 00794 & . 02486 & . 00966 & . 04496 & . 03386 & . 00946 & . 00920 \\
\hline . 00265 & . 00333 & . 00140 & . 00135 & . 00133 & . 00089 & . 00143 & . 00128 & . 00161 & . 00164 \\
\hline . 12136 & . 07951 & . 04670 & . 06402 & . 06614 & . 05647 & . 02425 & . 06006 & . 07860 & . 07544 \\
\hline . 00379 & . 00280 & . 00471 & . 00252 & . 00479 & . 00315 & . 00423 & . 00535 & . 04137 & . 04609 \\
\hline . 02463 & . 01748 & . 01987 & . 01910 & . 02415 & . 01804 & . 01698 & . 02107 & . 02180 & . 02051 \\
\hline . 01102 & . 00790 & . 01020 & . 00684 & . 00711 & . 00475 & . 00412 & . 00727 & . 01102 & . 00826 \\
\hline . 10825 & . 11358 & . 03190 & . 04103 & . 03542 & . 04157 & . 22709 & . 03380 & . 03217 & . 03122 \\
\hline . 00412 & . 00306 & . 00469 & . 00365 & . 00635 & . 00523 & . 00524 & . 00508 & . 00449 & . 00426 \\
\hline . 00307 & . 00275 & . 00236 & . 00422 & . 00245 & . 00164 & . 00180 & . 00193 & . 00276 & . 00275 \\
\hline . 00875 & . 00616 & . 00660 & . 00620 & . 01039 & . 00658 & . 00579 & . 01009 & . 00961 & . 00859 \\
\hline . 01766 & . 01487 & . 03322 & . 02490 & . 03432 & . 02761 & . 03685 & . 02266 & . 08662 & . 05138 \\
\hline . 03795 & . 03219 & . 03507 & . 03094 & . 03862 & . 02574 & . 02388 & . 02853 & . 05869 & . 05827 \\
\hline . 00357 & . 00183 & . 00182 & . 00240 & . 00177 & . 00143 & . 00156 & . 00207 & . 00258 & . 00251 \\
\hline . 00477 & . 00345 & . 00571 & . 00475 & . 00826 & . 00642 & . 00597 & . 00694 & . 00553 & . 00533 \\
\hline . 01319 & . 01192 & . 00983 & . 01612 & . 01108 & . 00670 & . 00505 & . 00871 & . 01210 & . 01281 \\
\hline . 00318 & . 00206 & . 00312 & . 01041 & . 00166 & . 00155 & . 00162 & . 00164 & . 00215 & . 00211 \\
\hline . 01919 & . 00012 & . 00068 & . 00085 & . 00007 & . 00005 & . 00004 & . 00005 & . 00010 & . 00010 \\
\hline . 00263 & . 00180 & . 00338 & . 00179 & . 00364 & . 00332 & . 00189 & . 00187 & . 00194 & . 00181 \\
\hline . 00477 & . 00318 & . 00313 & . 00349 & . 00727 & . 00319 & . 00337 & . 00474 & . 00513 & . 00490 \\
\hline . 01007 & . 00885 & . 00488 & . 00512 & . 01431 & . 00629 & . 01015 & . 00959 & . 00565 & . 00546 \\
\hline & & & & & & & & & \\
\hline 2.83444 & 1.97416 & 1.96153 & 1.89402 & 2.26996 & 1.83723 & 1.96765 & 1.89246 & 2.14928 & 2.07321 \\
\hline
\end{tabular}

\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{12}{|r|}{KEY: \(-=\) Value too small to report} \\
\hline \multirow[b]{2}{*}{Industry number} & \multirow[b]{2}{*}{Commodity number} & \multirow[t]{2}{*}{\begin{tabular}{|r|}
\hline Ordnance \\
and \\
acces- \\
sories
\end{tabular}\(|\)} & \multirow[t]{2}{*}{\begin{tabular}{|c|}
\begin{tabular}{r} 
Food \\
and \\
kindred \\
products
\end{tabular} \\
\hline\((14)\)
\end{tabular}} & Tobacco products & Broad and narrow fabrics, yarn and thread mills &  & Apparel & \[
\begin{aligned}
& \text { Miscellaneous } \\
& \text { fabricated } \\
& \text { textile } \\
& \text { products }
\end{aligned}
\] & Lumber
and wood products & \[
\begin{array}{|r|}
\text { Furniture } \\
\text { and } \\
\text { fixtures }
\end{array}
\] & Paper and allied products, except containers \\
\hline & & & & (15) & (16) & (17) & (18) & (19) & (20+21) & (22+23) & (24) \\
\hline 1 & Livestock and livestock products & 0.00068 & 0.25604 & 0.00091 & 0.01578 & 0.00762 & 0.00594 & 0.00765 & 0.00573 & 0.00245 & 0.00327 \\
\hline 2 & Other agricultural products & . 00126 & . 16848 & . 08842 & . 09009 & . 02371 & . 02844 & . 03275 & . 02859 & . 00843 & . 00595 \\
\hline 3 & Forestry and fishery products & . 00066 & . 00841 & . 00039 & . 00064 & . 00086 & . 00344 & . 00089 & . 09624 & . 00836 & . 00817 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00163 & . 02513 & . 00670 & . 00797 & . 00316 & . 00370 & . 00370 & . 02118 & . 00336 & . 00315 \\
\hline \(5+6\) & Metallic ores mining & . 00370 & . 00171 & . 00031 & . 00213 & . 00270 & . 00102 & . 00134 & . 00117 & . 00395 & . 00175 \\
\hline 7 & Coal mining & . 00300 & . 00417 & . 00184 & . 00704 & . 00633 & . 00439 & . 00448 & . 00329 & . 00466 & . 00995 \\
\hline 8 & Crude petroleum and natural gas & . 01193 & . 02330 & . 00820 & . 03582 & . 04067 & . 02113 & . 02497 & . 02357 & . 01969 & . 03633 \\
\hline 9+10 & Nonmetallic minerals mining & . 00128 & . 00277 & . 00118 & . 00456 & . 00511 & . 00191 & . 00262 & . 00197 & . 00198 & . 00698 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 01630 & . 02471 & . 00955 & . 02554 & . 02996 & . 02045 & . 02116 & . 02032 & . 01833 & . 03170 \\
\hline 13 & Ordnance and accessories & . 96874 & . 00006 & . 00003 & . 00008 & . 00010 & . 00007 & . 00006 & . 00006 & . 00008 & . 00009 \\
\hline 14 & Food and kindred products & . 00270 & 1.23598 & . 00243 & . 00808 & . 00788 & . 00612 & . 00947 & . 00831 & . 00589 & . 01410 \\
\hline 15 & Tobacco products & & . 00001 & 1.09045 & . 00002 & . 00002 & . 00001 & . 00001 & & & . 00007 \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00241 & . 00244 & . 00143 & 1.27721 & . 24693 & . 36495 & . 45425 & . 00250 & . 06702 & . 00746 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00080 & . 00181 & . 00070 & . 00433 & . 97617 & . 00470 & . 06276 & . 00402 & . 02729 & . 00993 \\
\hline 18 & Apparel & . 00093 & . 00034 & . 00014 & . 01310 & . 00508 & 1.24581 & . 04894 & . 00045 & . 00115 & . 00048 \\
\hline 19 & Miscellaneous fabricated textile products & . 00033 & . 00078 & . 00033 & . 00330 & . 00383 & . 03781 & . 91556 & . 00052 & . 00194 & . 00067 \\
\hline \(20+21\) & Lumber and wood products & . 00654 & . 00900 & . 00396 & . 00521 & . 00723 & . 00435 & . 00704 & 1.41773 & . 11913 & . 11404 \\
\hline \(22+23\) & Furniture and fixtures & . 00065 & . 00021 & . 00005 & . 00014 & . 00011 & . 00015 & . 00110 & . 00347 & . 99594 & . 00051 \\
\hline 24 & Paper and allied products, except containers & . 00666 & . 04033 & . 02146 & . 01217 & . 03268 & . 01120 & . 01438 & . 01109 & . 02001 & 1.15790 \\
\hline 25 & Paperboard containers and boxes & . 00436 & . 02853 & . 01425 & . 00591 & . 00776 & . 00536 & . 00619 & . 00680 & . 01960 & . 01966 \\
\hline 26 A & Newspapers and periodicals & . 00379 & . 01148 & . 02452 & . 00366 & . 00595 & . 00660 & . 00443 & . 00418 & . 00587 & . 00491 \\
\hline 26B & Other printing and publishing & . 00582 & . 02005 & . 03477 & . 00667 & . 01117 & . 01059 & . 00935 & . 00744 & . 00947 & . 01739 \\
\hline 27 A & Industrial and other chemicals & . 02192 & . 02619 & . 01119 & . 13773 & . 17442 & . 05286 & . 07809 & . 02184 & . 03353 & . 09024 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00160 & . 01680 & . 00794 & . 01295 & . 00898 & . 00456 & . 00580 & . 00712 & . 00230 & . 00372 \\
\hline 28 & Plastics and synthetic materials & . 01034 & . 00947 & . 00992 & . 18632 & . 26320 & . 07018 & . 09826 & . 01182 & . 03116 & . 04119 \\
\hline 29 A & Drugs & . 00027 & . 00587 & . 00023 & . 00112 & . 00132 & . 00056 & . 00068 & . 00030 & . 00031 & . 00083 \\
\hline 29B & Cleaning and toilet preparations & . 00068 & . 00318 & . 00248 & . 00531 & . 00910 & . 00705 & . 00369 & . 00127 & . 00213 & . 00708 \\
\hline 30 & Paints and allied products & . 00121 & . 00150 & . 00037 & . 00179 & . 00224 & . 00098 & . 00116 & . 00317 & . 01024 & . 00167 \\
\hline 31 & Petroleum refining and related products & . 00986 & . 01997 & . 00759 & 02484 & . 02772 & . 01531 & . 01784 & . 02382 & . 01694 & . 02630 \\
\hline 32 & Rubber and miscellaneous plastics products & . 02448 & . 03301 & . 01085 & . 02369 & . 03624 & . 01879 & . 03452 & . 02390 & . 05774 & . 05501 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00007 & . 00024 & . 00006 & . 00050 & . 00022 & . 00738 & . 02772 & . 00031 & . 00158 & . 00011 \\
\hline 35 & Glass and glass products & . 00161 & . 01397 & . 00040 & . 01094 & . 00356 & . 00362 & . 00489 & . 00573 & . 00667 & . 00165 \\
\hline 36 & Stone and clay products & . 00439 & . 00251 & . 00096 & . 00236 & . 00669 & . 00163 & . 00237 & . 00830 & . 00689 & . 00570 \\
\hline 37 & Primary iron and steel manufacturing & . 03533 & . 01311 & . 00222 & 00533 & . 00725 & . 00418 & . 00491 & . 01335 & . 06435 & . 00827 \\
\hline 38 & Primary nonferrous metals manufacturing & . 04417 & . 01826 & . 00160 & . 00401 & . 00516 & . 00394 & . 00359 & . 00811 & . 02603 & . 00702 \\
\hline 39 & Metal containers & . 00036 & . 03128 & . 00028 & . 00139 & . 00166 & . 00074 & . 00095 & . 00069 & . 00097 & . 00124 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00284 & . 00203 & . 00073 & . 00176 & . 00219 & . 00142 & . 00160 & . 01104 & . 00460 & . 00296 \\
\hline 41 & Screw machine products and stampings & . 01105 & . 00315 & . 00051 & . 00100 & . 00125 & . 00088 & . 00109 & . 00761 & . 01403 & . 00200 \\
\hline 42 & Other fabricated metal products & . 01854 & . 00833 & . 00283 & . 00367 & . 00488 & . 00285 & . 00373 & . 01911 & . 05199 & . 01207 \\
\hline 43 & Engines and turbines & . 00185 & . 00070 & . 00023 & . 00069 & . 00071 & . 00049 & . 00053 & . 00079 & . 00069 & . 00079 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00103 & . 00245 & . 00080 & . 00137 & . 00098 & . 00070 & . 00076 & . 00128 & . 00123 & . 00108 \\
\hline 46 & Materials handling machinery and equipment & . 00022 & . 00024 & . 00008 & . 00024 & . 00027 & . 00020 & . 00019 & . 00068 & . 00109 & . 00034 \\
\hline 47 & Metalworking machinery and equipment & . 00447 & . 00133 & . 00059 & . 00135 & . 00150 & . 00091 & . 00125 & . 00234 & . 00309 & . 00170 \\
\hline 48 & Special industry machinery and equipment & . 00342 & . 00121 & . 00044 & .00326 & . 01347 & . 00472 & . 00421 & .00112 & . 00173 & . 00454 \\
\hline
\end{tabular}
Service industry machinery
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
Other transportation equipment
Scientific and controlling instruments
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
use 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
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto
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
State and local government enterprises
General government industry
Household industry
Inventory valuation adjustment
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 01494 & . 00219 & . 00049 & . 00124 & . 00180 & . 00108 & . 00127 & . 00402 & . 00438 & . 00212 \\
\hline . 01134 & . 00299 & . 00103 & . 00451 & . 00472 & . 00280 & . 00373 & . 00470 & . 00578 & . 00506 \\
\hline . 00774 & . 00143 & . 00099 & . 00151 & . 00171 & . 00149 & . 00133 & . 00136 & . 00141 & . 00186 \\
\hline . 00053 & . 00079 & . 00044 & . 00067 & . 00080 & . 00058 & . 00081 & . 00197 & . 00181 & . 00098 \\
\hline . 00905 & . 00175 & . 00097 & . 00140 & . 00191 & . 00123 & . 00133 & . 00185 & . 00244 & . 00191 \\
\hline . 00018 & . 00015 & . 00006 & . 00019 & . 00020 & . 00014 & . 00043 & . 00316 & . 00050 & . 00040 \\
\hline . 00196 & . 00125 & . 00081 & . 00095 & . 00098 & . 00069 & . 00074 & . 00295 & . 00126 & . 00149 \\
\hline . 01324 & . 00043 & . 00026 & . 00038 & . 00044 & . 00039 & . 00036 & . 00045 & . 00048 & . 00043 \\
\hline . 06715 & . 00296 & . 00165 & . 00276 & . 00308 & . 00307 & . 00255 & . 00293 & . 00309 & . 00311 \\
\hline . 00158 & . 00201 & . 00081 & . 00105 & . 00088 & . 00080 & . 00079 & . 00123 & . 00089 & . 00099 \\
\hline . 00020 & . 00019 & . 00006 & . 00013 & . 00014 & . 00010 & . 00010 & . 00046 & . 00029 & . 00018 \\
\hline . 00462 & . 00385 & . 00146 & . 00285 & . 00308 & . 00235 & . 00284 & . 00721 & . 00339 & . 00372 \\
\hline . 10843 & . 00041 & . 00022 & . 00042 & . 00046 & . 00044 & . 00045 & . 00046 & . 00054 & . 00046 \\
\hline . 00105 & . 00049 & . 00012 & . 00037 & . 00046 & . 00032 & . 00116 & . 00113 & . 00040 & . 00059 \\
\hline . 05752 & . 00088 & . 00045 & . 00076 & . 00244 & . 00059 & . 00082 & . 00102 & . 00291 & . 00512 \\
\hline . 00111 & . 00096 & . 00084 & . 00099 & . 00128 & . 00094 & . 00091 & . 00089 & . 00112 & . 00290 \\
\hline . 00113 & . 00173 & . 00226 & . 00106 & . 00138 & . 01521 & . 00430 & . 00219 & . 00224 & . 00136 \\
\hline . 00431 & . 01487 & . 00295 & . 01135 & . 01382 & . 00623 & . 00735 & . 01293 & . 00906 & . 01801 \\
\hline . 01996 & . 04510 & . 01355 & . 03455 & . 04470 & . 02843 & . 03467 & . 05140 & . 03620 & . 05767 \\
\hline . 00100 & . 00483 & . 00091 & . 00292 & . 00428 & . 00157 & . 00212 & . 00522 & . 00237 & . 00443 \\
\hline . 00802 & . 00801 & . 00489 & . 00788 & . 00854 & . 00959 & . 00937 & . 00799 & . 00774 & . 00801 \\
\hline . 00241 & . 00443 & . 00165 & . 00402 & . 00479 & . 00332 & . 00368 & . 00457 & . 00347 & . 00515 \\
\hline . 00045 & . 00157 & . 00031 & . 00120 & . 00146 & . 00066 & . 00077 & . 00136 & . 00095 & . 00190 \\
\hline . 01382 & . 04782 & . 01393 & . 03050 & . 02057 & . 02591 & . 02168 & . 03727 & . 04592 & . 02015 \\
\hline . 00933 & . 01178 & . 00812 & . 01018 & . 01256 & . 01091 & . 01061 & . 01034 & . 01163 & . 01079 \\
\hline . 00262 & . 00829 & . 01818 & . 00254 & . 00421 & . 00475 & . 00311 & . 00277 & . 00415 & . 00334 \\
\hline . 01708 & . 02382 & . 00699 & . 04450 & . 03516 & . 02813 & . 02864 & . 02294 & . 02243 & . 03835 \\
\hline . 00768 & . 01432 & . 00387 & . 02159 & . 02398 & . 01472 & . 01637 & . 01075 & . 01194 & . 02738 \\
\hline . 00122 & . 00221 & . 00074 & . 00237 & . 00289 & . 00154 & . 00200 & . 00185 & . 00173 & . 00383 \\
\hline . 05903 & . 11973 & . 03667 & . 09957 & . 09596 & . 09683 & . 09943 & . 11075 & . 11360 & . 09523 \\
\hline . 00160 & . 00480 & . 00412 & . 00324 & . 00308 & . 00248 & . 00255 & . 00359 & . 00389 & . 00441 \\
\hline . 01773 & . 02472 & . 01511 & . 02258 & . 02502 & . 02308 & . 02271 & . 02386 & . 02265 & . 02371 \\
\hline . 00400 & . 00772 & . 00396 & . 00581 & . 00597 & . 00549 & . 00553 & . 00684 & . 00570 & . 00597 \\
\hline . 02455 & . 05308 & . 02445 & . 03585 & . 03354 & . 03813 & . 03962 & . 03108 & . 03218 & . 02891 \\
\hline . 00557 & . 00618 & . 00477 & . 00645 & . 00730 & . 00727 & . 00687 & . 00684 & . 00636 & . 00662 \\
\hline . 00260 & . 00369 & . 00214 & . 01024 & . 00850 & . 00597 & . 00550 & . 00397 & . 00354 & . 00568 \\
\hline . 01476 & . 00969 & . 00597 & . 01104 & . 01266 & . 00980 & . 00963 & . 00969 & . 00971 & . 01214 \\
\hline . 01710 & . 01795 & . 01844 & . 02411 & . 02949 & . 01945 & . 02055 & . 01987 & . 02195 & . 01949 \\
\hline . 03562 & . 04225 & . 03051 & . 04077 & . 04280 & . 08295 & . 03854 & . 03941 & . 04249 & . 04144 \\
\hline . 00285 & . 00899 & . 01968 & . 00277 & . 00457 & . 00519 & . 00338 & . 00302 & . 00452 & . 00363 \\
\hline . 00741 & . 00764 & . 00580 & . 00860 & . 00938 & . 00989 & . 00941 & . 00905 & . 00867 & . 00841 \\
\hline . 00605 & . 01207 & . 00607 & . 01156 & . 01237 & . 00886 & . 00904 & . 01248 & . 00933 & . 01393 \\
\hline . 00212 & . 00569 & . 01063 & . 00224 & . 00321 & . 00370 & . 00247 & . 00266 & . 00304 & . 00284 \\
\hline . 00006 & . 00411 & . 00005 & . 00031 & . 00019 & . 00020 & . 00018 & . 00015 & . 00010 & . 00012 \\
\hline . 00224 & . 00275 & . 00228 & . 00257 & . 00287 & . 00285 & . 00737 & . 00580 & . 00351 & . 00317 \\
\hline . 00293 & . 00446 & . 00361 & . 00510 & . 00547 & . 00523 & . 00540 & . 00444 & . 00493 & . 00490 \\
\hline . 00533 & . 00869 & . 00337 & . 01065 & . 01137 & . 00985 & . 01044 & . 00882 & . 00831 & . 01294 \\
\hline & & & & & & & & & \\
\hline 1.84510 & 2.63626 & 1.66096 & 2.45937 & 2.51451 & 2.49729 & 2.39384 & 2.35202 & 2.17889 & 2.25520 \\
\hline
\end{tabular}

\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Industry number} & \multirow[b]{2}{*}{Commodity number} & Paperboard containers and boxes & News-
papers
and
periodicals & \[
\begin{array}{r}
\text { Other } \\
\text { printing } \\
\text { and } \\
\text { publishing }
\end{array}
\] & Industrial and other chemicals & \[
\begin{array}{r}
\text { Agricultural } \\
\text { fertilizers } \\
\text { and } \\
\text { chemicals }
\end{array}
\] & \[
\begin{array}{r}
\text { Plastics } \\
\text { and } \\
\text { synthetic } \\
\text { materials }
\end{array}
\] & Drugs & Cleaning and toilet preparations & Paints
and
allied
products & Petroleum refining and related products \\
\hline & & (25) & (26A) & (26B) & (27A) & (27B) & (28) & (29A) & (29B) & (30) & (31) \\
\hline 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 \\
\hline 2 & Other agricultural products & . 00341 & . 00135 & . 00193 & . 01136 & . 00553 & . 01163 & . 00516 & . 00516 & . 00610 & . 00161 \\
\hline 3 & Forestry and fishery products & . 00381 & . 00105 & . 00168 & . 00098 & . 00119 & . 00106 & . 00093 & . 00111 & . 00104 & . 00057 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00202 & . 00131 & . 00139 & . 00224 & . 00196 & . 00223 & . 00162 & . 00171 & . 00172 & . 00163 \\
\hline \(5+6\) & Metallic ores mining & . 00197 & . 00050 & . 00088 & . 01452 & . 00474 & . 00678 & . 00098 & . 00289 & . 00701 & . 00168 \\
\hline 7 & Coal mining & . 00710 & . 00204 & . 00317 & . 00790 & . 00683 & . 00755 & . 00240 & . 00329 & . 00443 & . 00398 \\
\hline 8 & Crude petroleum and natural gas & . 03214 & . 01081 & . 01625 & . 13680 & . 10958 & . 07841 & . 01386 & . 03601 & . 05426 & . 78781 \\
\hline \(9+10\) & Nonmetallic minerals mining & . 00407 & . 00129 & . 00203 & . 03045 & . 05925 & . 01185 & . 00177 & . 00508 & . 00991 & . 00557 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 02588 & . 01630 & . 01883 & . 03370 & . 03111 & . 03344 & . 01756 & . 01978 & . 02267 & . 05246 \\
\hline 13 & Ordnance and accessories & . 00008 & . 00005 & . 00006 & . 00050 & . 00011 & . 00020 & . 00006 & . 00030 & . 00016 & . 00006 \\
\hline 14 & Food and kindred products & . 00850 & . 00346 & . 00453 & . 01794 & . 02416 & . 01010 & . 01228 & . 02016 & . 01820 & . 00409 \\
\hline 15 & Tobacco products & . 00003 & . 00001 & . 00001 & . 00016 & . 00002 & . 00005 & . 00001 & . 00002 & . 00004 & . 00001 \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00400 & . 00123 & . 00329 & . 00182 & . 00119 & . 05498 & . 00133 & . 00286 & . 00773 & . 00071 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00458 & . 00129 & . 00249 & . 00072 & . 00066 & . 00383 & . 00092 & . 00196 & . 00083 & . 00061 \\
\hline 18 & Apparel & . 00038 & . 00018 & . 00027 & . 00029 & . 00029 & . 00050 & . 00024 & . 00043 & . 00028 & . 00022 \\
\hline 19 & Miscellaneous fabricated textile products & . 00043 & . 00023 & . 00052 & . 00031 & . 00029 & . 00034 & . 00025 & . 00078 & . 00026 & . 00031 \\
\hline \(20+21\) & Lumber and wood products & . 05208 & . 01371 & . 02056 & . 00659 & . 00621 & . 00733 & . 00461 & . 00687 & . 00454 & . 00637 \\
\hline \(22+23\) & Furniture and fixtures & . 00028 & . 00010 & . 00018 & . 00012 & . 00011 & . 00013 & . 00010 & . 00016 & . 00018 & . 00010 \\
\hline 24 & Paper and allied products, except containers & . 49162 & . 12015 & . 19353 & . 01618 & . 01556 & . 02929 & . 02100 & . 04697 & . 01250 & . 00612 \\
\hline 25 & Paperboard containers and boxes & 1.00112 & . 00380 & . 01059 & . 00870 & . 00885 & . 00961 & . 01484 & . 04214 & . 00493 & . 00275 \\
\hline 26 A & Newspapers and periodicals & . 00468 & . 98826 & . 04056 & . 00511 & . 00753 & . 00519 & . 02051 & . 02078 & . 00671 & . 00377 \\
\hline 26B & Other printing and publishing & . 01266 & . 16827 & 1.09323 & . 00899 & . 01734 & . 00911 & . 03163 & . 02933 & . 01149 & . 00667 \\
\hline 27A & Industrial and other chemicals & . 06857 & . 02242 & . 03900 & 1.10983 & . 20680 & . 48463 & . 05255 & . 17304 & . 31034 & . 05098 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00252 & . 00088 & . 00139 & . 02583 & 1.01398 & . 02169 & . 00352 & . 00527 & . 00852 & . 00141 \\
\hline 28 & Plastics and synthetic materials & . 02613 & . 00598 & . 01177 & . 06910 & . 02858 & . 89042 & . 01103 & . 02395 & . 12809 & . 00430 \\
\hline 29A & Drugs & . 00058 & . 00020 & . 00034 & . 00787 & . 01384 & . 00308 & 1.12308 & . 02378 & . 00212 & . 00035 \\
\hline 29B & Cleaning and toilet preparations & . 00369 & . 00111 & . 00172 & . 01433 & . 02991 & . 01348 & . 00841 & . 97670 & . 00808 & . 00425 \\
\hline 30 & Paints and allied products & . 00448 & . 00050 & . 00079 & . 00745 & . 00215 & . 00583 & . 00073 & . 00228 & . 98672 & . 00106 \\
\hline 31 & Petroleum refining and related products & . 02755 & . 00930 & . 01311 & . 09751 & . 04509 & . 04778 & . 01024 & . 03250 & . 04420 & 1.02730 \\
\hline 32 & Rubber and miscellaneous plastics products & . 03691 & . 00977 & . 02557 & . 02517 & . 02341 & . 05992 & . 03038 & . 07280 & . 01944 & . 00903 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00013 & . 00012 & . 00035 & . 00009 & . 00009 & . 00011 & . 00008 & . 00014 & . 00007 & . 00009 \\
\hline 35 & Glass and glass products & . 00223 & . 00052 & . 00079 & . 00219 & . 00227 & . 00188 & . 00585 & . 00726 & . 00155 & . 00316 \\
\hline 36 & Stone and clay products & . 00360 & . 00133 & . 00186 & . 00578 & . 00678 & . 00397 & . 00230 & . 00310 & . 01819 & . 00709 \\
\hline 37 & Primary iron and steel manufacturing & . 01739 & . 00273 & 00476 & . 01606 & . 01086 & . 00995 & . 00404 & . 00931 & . 01619 & . 01661 \\
\hline 38 & Primary nonferrous metals manufacturing & . 01040 & . 00236 & . 00465 & . 01193 & . 00766 & . 00693 & . 00350 & . 00985 & . 02293 & . 00464 \\
\hline 39 & Metal containers & . 00206 & . 00035 & . 00068 & . 00815 & . 00767 & . 00394 & . 00242 & . 01319 & . 04024 & . 00161 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00228 & . 00110 & . 00148 & . 00295 & . 00246 & . 00251 & . 00129 & . 00176 & . 00183 & . 00316 \\
\hline 41 & Screw machine products and stampings & . 00239 & . 00070 & . 00108 & . 00158 & . 00151 & . 00141 & . 00194 & . 00236 & . 00151 & . 00105 \\
\hline 42 & Other fabricated metal products & . 01790 & . 00303 & . 00573 & . 01102 & . 00734 & . 00720 & . 00320 & . 00700 & . 00602 & . 00705 \\
\hline 43 & Engines and turbines & . 00074 & . 00032 & . 00049 & . 00100 & . 00107 & . 00085 & . 00032 & . 00050 & . 00071 & . 00084 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00085 & . 00034 & . 00081 & . 00243 & . 00326 & . 00140 & . 00041 & . 00072 & . 00110 & . 00288 \\
\hline 46 & Materials handling machinery and equipment & . 00029 & . 00011 & . 00016 & . 00062 & . 00107 & . 00038 & . 00016 & . 00023 & . 00031 & . 00058 \\
\hline 47 & Metalworking machinery and equipment & . 00211 & . 00055 & . 00101 & . 00215 & . 00110 & . 00177 & . 00065 & . 00126 & . 00140 & . 00103 \\
\hline 48 & Special industry machinery and equipment & . 00682 & . 00149 & . 00543 & . 00702 & . 00172 & .00397 & . 00082 & . 00188 & . 00216 & . 00055 \\
\hline
\end{tabular}
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
Other transportation equipment
Scientific and controlling instruments
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
Retain trad
Finance
Insurance
Owner-occupied dwellings
Real estate and royalties
Hotels and lodging places
Hotels and lodging places
Personal and repair services (except auto)
Personal and repair services (except auto)
Lemputer and data processing 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
State and local government enterprises
State and local government en
General government industry
Household industry
Inventory valuation adjustment
Total industry output multiplier
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 00191 & . 00064 & . 00100 & . 00238 & . 00255 & . 00212 & . 00138 & . 00124 & . 00164 & . 00218 \\
\hline . 00536 & . 00157 & . 00278 & . 00640 & . 00337 & . 00540 & . 00183 & . 00343 & . 00331 & . 00348 \\
\hline . 00169 & . 00221 & . 00196 & . 00201 & . 00190 & . 00200 & . 00153 & . 00150 & . 00152 & . 00175 \\
\hline . 00079 & . 00045 & . 00053 & . 00125 & . 00085 & . 00099 & . 00048 & . 00145 & . 00068 & . 00094 \\
\hline . 00188 & . 00084 & . 00122 & . 00275 & . 00203 & . 00216 & . 00103 & . 00185 & . 00174 & . 00193 \\
\hline . 00025 & . 00011 & . 00014 & . 00028 & . 00018 & . 00021 & . 00010 & . 00016 & . 00015 & . 00022 \\
\hline . 00108 & . 00060 & . 00106 & . 00121 & . 00105 & . 00133 & . 00078 & . 00121 & . 00477 & . 00126 \\
\hline . 00044 & . 00045 & . 00069 & . 00047 & . 00046 & . 00050 & . 00040 & . 00042 & . 00041 & . 00047 \\
\hline . 00313 & . 00292 & . 00307 & . 00332 & . 00320 & . 00331 & . 00299 & . 00281 & . 00294 & . 00251 \\
\hline . 00091 & . 00093 & . 00088 & . 00092 & . 00097 & . 00091 & . 00062 & . 00081 & . 00083 & . 00085 \\
\hline . 00018 & . 00010 & . 00011 & . 00015 & . 00018 & . 00015 & . 00010 & . 00012 & . 00014 & . 00012 \\
\hline . 00372 & . 00233 & . 00253 & . 00322 & . 00398 & . 00327 & . 00190 & . 00225 & . 00290 & . 00268 \\
\hline . 00052 & . 00031 & . 00039 & . 00074 & . 00046 & . 00055 & . 00034 & . 00041 & . 00045 & . 00033 \\
\hline . 00058 & . 00022 & . 00029 & . 00057 & . 00070 & . 00059 & . 00020 & . 00037 & . 00070 & . 00041 \\
\hline . 00271 & . 00129 & . 00232 & . 00244 & . 00151 & . 00153 & . 00513 & . 00146 & . 00129 & . 00084 \\
\hline . 00174 & . 00390 & . 00988 & . 00258 & . 00174 & . 00157 & . 00185 & . 00141 & . 00626 & . 00083 \\
\hline . 00129 & . 00193 & . 00363 & . 00145 & . 00134 & . 00133 & . 00264 & . 00287 & . 00124 & . 00106 \\
\hline . 02060 & . 00633 & . 00908 & . 01635 & . 02126 & . 01739 & . 00499 & . 01042 & . 02443 & . 00642 \\
\hline . 07535 & . 02214 & . 03532 & . 04775 & . 08874 & . 04919 & . 01562 & . 03313 & . 05468 & . 01794 \\
\hline . 00305 & . 00091 & . 00148 & . 00660 & . 00782 & . 00665 & . 00111 & . 00333 & . 00647 & . 00870 \\
\hline . 00978 & . 00667 & . 00747 & . 00788 & . 00763 & . 00854 & . 00653 & . 00735 & . 00738 & . 00562 \\
\hline . 00601 & . 00237 & . 00322 & . 00894 & . 00744 & . 00661 & . 00218 & . 00410 & . 00616 & . 03517 \\
\hline . 00217 & . 00067 & . 00096 & . 00172 & . 00224 & . 00183 & . 00053 & . 00110 & . 00258 & . 00068 \\
\hline . 01790 & . 01059 & . 01987 & . 01997 & . 01943 & . 01996 & . 01329 & . 01537 & . 01461 & . 02515 \\
\hline . 01243 & . 01362 & . 01162 & . 01134 & . 01218 & . 01400 & . 01216 & . 01256 & . 01157 & . 01083 \\
\hline . 00275 & . 00784 & . 00414 & . 00354 & . 00521 & . 00360 & . 01499 & . 01530 & . 00480 & . 00261 \\
\hline . 03008 & . 01188 & . 01803 & . 03897 & . 03190 & . 04021 & . 01398 & . 01798 & . 02378 & . 02843 \\
\hline . 01921 & . 00644 & . 01045 & . 04692 & . 04480 & . 03748 & . 00858 & . 01473 & . 02118 & . 12709 \\
\hline . 00271 & . 00104 & . 00153 & . 00469 & . 00419 & . 00445 & . 00159 & . 00209 & . 00349 & . 00251 \\
\hline . 11632 & . 04966 & . 06892 & . 09230 & . 09364 & . 09928 & . 09166 & . 08890 & . 09198 & . 06602 \\
\hline . 00348 & . 00217 & . 00239 & . 00363 & . 00386 & . 00366 & . 00250 & . 00529 & . 00263 & . 00431 \\
\hline . 02496 & . 01817 & . 01957 & . 02488 & . 02915 & . 02659 & . 01927 & . 02181 & . 02437 & . 02687 \\
\hline . 00627 & . 00447 & . 00491 & . 00611 & . 00668 & . 00608 & . 00415 & . 00497 & . 00561 & . 00551 \\
\hline . 03031 & . 05561 & . 04646 & . 05148 & . 04587 & . 04084 & . 02870 & . 03451 & . 03285 & . 15857 \\
\hline . 00726 & . 00549 & . 00589 & . 00672 & . 00699 & . 00725 & . 00579 & . 00638 & . 00693 & . 00554 \\
\hline . 00524 & . 00240 & . 00325 & . 00488 & . 00534 & . 00608 & . 00263 & . 00318 & . 00347 & . 00381 \\
\hline . 01197 & . 01409 & . 01059 & . 01273 & . 01392 & . 01436 & . 00961 & . 00997 & . 01041 & . 01200 \\
\hline . 01799 & . 02513 & . 01593 & . 04850 & . 03744 & . 05514 & . 04509 & . 03380 & . 03574 & . 04105 \\
\hline . 04282 & . 05777 & . 03964 & . 04526 & . 05252 & . 04728 & . 05541 & . 04831 & . 03800 & . 03606 \\
\hline . 00300 & . 00852 & . 00450 & . 00386 & . 00567 & . 00393 & . 01625 & . 01658 & . 00522 & . 00285 \\
\hline . 00916 & . 00670 & . 00739 & . 00836 & . 00855 & . 00906 & . 00703 & . 00787 & . 00850 & . 00722 \\
\hline . 01431 & . 00742 & . 00982 & . 01194 & . 01490 & . 01347 & . 00652 & . 00851 & . 01019 & . 00849 \\
\hline . 00258 & . 00526 & . 00317 & . 00297 & . 00373 & . 00318 & . 00914 & . 00933 & . 00379 & . 00243 \\
\hline . 00011 & . 00009 & . 00007 & . 00010 & . 00017 & . 00011 & . 00010 & . 00014 & . 00012 & . 00006 \\
\hline . 00280 & . 00241 & . 00284 & . 00282 & . 00322 & . 00397 & . 00586 & . 00384 & . 00264 & . 00285 \\
\hline . 00477 & . 01179 & . 00612 & . 00526 & . 00479 & . 00531 & . 00372 & . 00467 & . 00429 & . 00459 \\
\hline . 00989 & . 00616 & . 00754 & . 01383 & . 01344 & . 01362 & . 00511 & . 00672 & . 00919 & . 01415 \\
\hline & & & & & & & & & \\
\hline & & & & & & & & & \\
\hline 2.44580 & 1.79604 & 1.95466 & 2.32998 & 2.35537 & 2.45593 & 1.85869 & 2.09752 & 2.30827 & 2.73243 \\
\hline
\end{tabular}

\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Industry & & Rubber and miscellaneous plastics products & Footwear, leather, and leather products & Glass
and
glass
products & Stone
and clay
products & Primary iron and steel manufacturing & Primary nonferrous metals manufacturing & Metal containers & Heating, plumbing, and fabricated structural metal products & Screw machine products and stampings & Other fabricated metal products \\
\hline number & Commodity number & (32) & (33+34) & (35) & (36) & (37) & (38) & (39) & (40) & (41) & (42) \\
\hline 1 & Livestock and livestock products & 0.00177 & 0.04878 & 0.00083 & 0.00095 & 0.00074 & 0.00089 & 0.00101 & 0.00078 & 0.00075 & 0.00081 \\
\hline 2 & Other agricultural products & . 00647 & . 02940 & . 00192 & . 00196 & . 00128 & . 00189 & . 00174 & . 00131 & . 00121 & . 00150 \\
\hline 3 & Forestry and fishery products & . 00728 & . 00177 & . 00189 & . 00098 & . 00071 & . 00119 & . 00083 & . 00070 & . 00062 & . 00085 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00290 & . 00521 & . 00154 & . 00149 & . 00134 & . 00169 & . 00143 & . 00121 & . 00109 & . 00126 \\
\hline \(5+6\) & Metallic ores mining & . 00293 & . 00148 & . 00268 & . 00252 & . 04732 & . 06971 & . 03346 & . 01616 & . 01449 & . 01137 \\
\hline 7 & Coal mining & . 00533 & . 00353 & . 01177 & . 01382 & . 03182 & . 00867 & . 01117 & . 00869 & . 00963 & . 00748 \\
\hline 8 & Crude petroleum and natural gas & . 03470 & . 02572 & . 03276 & . 04230 & . 03342 & . 03087 & . 02924 & . 02098 & . 01981 & . 02130 \\
\hline 9+10 & Nonmetallic minerals mining & . 00489 & . 00280 & . 01500 & . 08470 & . 00680 & . 00275 & . 00313 & . 00261 & . 00258 & . 00245 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 02459 & . 02513 & . 02360 & . 02615 & . 02825 & . 02759 & . 02720 & . 01926 & . 02610 & . 02076 \\
\hline 13 & Ordnance and accessories & . 00010 & . 00007 & . 00007 & . 00007 & . 00030 & . 00038 & . 00022 & . 00036 & . 00071 & . 00021 \\
\hline 14 & Food and kindred products & . 00621 & . 16607 & . 00362 & . 00399 & . 00317 & . 00372 & . 00468 & . 00337 & . 00318 & . 00343 \\
\hline 15 & Tobacco products & . 00002 & . 00001 & . 00001 & . 00001 & & . 00001 & . 00001 & & & . 00001 \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 02619 & . 05395 & . 00161 & . 00574 & . 00106 & . 00253 & . 00169 & . 00133 & . 00142 & . 00263 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 01330 & . 03153 & . 00092 & . 00067 & . 00058 & . 00074 & . 00063 & . 00064 & . 00069 & . 00117 \\
\hline 18 & Apparel & . 00102 & . 00858 & . 00024 & . 00031 & . 00033 & . 00036 & . 00037 & . 00030 & . 00030 & . 00060 \\
\hline 19 & Miscellaneous fabricated textile products & . 00101 & . 00246 & . 00029 & . 00039 & . 00028 & . 00029 & . 00031 & . 00028 & . 00059 & . 00077 \\
\hline 20+21 & Lumber and wood products & . 00971 & . 00602 & . 02758 & . 01168 & . 00815 & . 01128 & . 00825 & . 00857 & . 00661 & . 00819 \\
\hline \(22+23\) & Furniture and fixtures & . 00078 & . 00027 & . 00607 & . 00036 & . 00044 & . 00036 & . 00087 & . 00108 & . 00077 & . 00222 \\
\hline 24 & Paper and allied products, except containers & . 03864 & . 02462 & . 03049 & . 02163 & . 00661 & . 00797 & . 01469 & . 00931 & . 01085 & . 02000 \\
\hline 25 & Paperboard containers and boxes & . 01987 & . 01083 & . 04791 & . 00612 & . 00255 & . 00429 & . 00892 & . 00729 & . 00809 & . 00874 \\
\hline 26A & Newspapers and periodicals & . 00462 & . 01118 & . 00345 & . 00434 & . 00420 & . 00368 & . 00467 & . 00442 & . 00492 & . 00509 \\
\hline 26 B & Other printing and publishing & . 00831 & . 02134 & . 00615 & . 00721 & . 00901 & . 00725 & . 02968 & . 00779 & . 00848 & . 00959 \\
\hline 27A & Industrial and other chemicals & . 15899 & . 07408 & . 06027 & . 04814 & . 02778 & . 06436 & . 04824 & . 03139 & . 02274 & . 03522 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00614 & . 00504 & . 00181 & . 00153 & . 00098 & . 00176 & . 00149 & . 00109 & . 00087 & . 00127 \\
\hline 28 & Plastics and synthetic materials & . 17988 & . 02899 & . 01114 & . 01250 & . 00505 & . 02473 & . 01482 & . 00948 & . 00879 & . 01641 \\
\hline 29A & Drugs & . 00112 & . 00140 & . 00050 & . 00041 & . 00023 & . 00030 & . 00031 & . 00024 & . 00019 & . 00027 \\
\hline 29B & Cleaning and toilet preparations & . 00476 & . 00710 & . 00341 & . 00389 & . 00091 & . 00116 & . 00120 & . 00095 & . 00092 & . 00127 \\
\hline 30 & Paints and allied products & . 00272 & . 00120 & . 00189 & . 00288 & . 00129 & . 00118 & . 02427 & . 00622 & . 00352 & . 00752 \\
\hline 31 & Petroleum refining and related products & . 02487 & . 02106 & . 02187 & . 03341 & . 02213 & . 02272 & . 02136 & . 01585 & . 01451 & . 01543 \\
\hline 32 & Rubber and miscellaneous plastics products & 1.03609 & . 05507 & . 03549 & . 01809 & . 01198 & . 02618 & . 01790 & . 02408 & . 01912 & . 04176 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00050 & 1.24099 & . 00008 & . 00008 & . 00009 & . 00008 & . 00009 & . 00015 & . 00012 & . 00023 \\
\hline 35 & Glass and glass products & . 00781 & . 00293 & 1.07235 & . 00387 & . 00098 & . 00662 & . 00288 & . 00756 & . 00325 & . 00252 \\
\hline 36 & Stone and clay products & . 00535 & . 00302 & . 02182 & 1.09452 & . 02442 & . 00776 & . 00923 & . 00908 & . 01018 & . 00872 \\
\hline 37 & Primary iron and steel manufacturing & . 01574 & . 00769 & . 00897 & . 02163 & 1.22140 & . 04462 & . 24830 & . 24290 & . 27531 & . 21255 \\
\hline 38 & Primary nonferrous metals manufacturing & . 00879 & . 00617 & . 01046 & . 00830 & . 04994 & 1.43023 & . 50528 & . 13982 & . 08939 & . 10019 \\
\hline 39 & Metal containers & . 00164 & . 00441 & . 00074 & . 00070 & . 00050 & . 00073 & 1.07775 & . 00077 & . 00065 & . 00128 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00625 & . 00188 & . 00345 & . 00393 & . 00417 & . 00504 & . 00597 & 1.00446 & . 00859 & . 01229 \\
\hline 41 & Screw machine products and stampings & . 00455 & . 00211 & . 00280 & . 00324 & . 00740 & . 00378 & . 00524 & . 01747 & . 97677 & . 02623 \\
\hline 42 & Other fabricated metal products & . 01318 & . 01330 & . 00480 & . 01191 & . 02557 & . 01584 & . 02777 & . 04752 & . 03765 & . 96839 \\
\hline 43 & Engines and turbines & . 00090 & . 00048 & . 00084 & . 00132 & . 00232 & . 00139 & . 00125 & . 00316 & . 00312 & . 00206 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00092 & . 00090 & . 00139 & . 00424 & . 00464 & . 00302 & . 00226 & . 00331 & . 01189 & . 00539 \\
\hline 46 & Materials handling machinery and equipment & . 00038 & . 00020 & . 00042 & . 00139 & . 00111 & . 00098 & . 00067 & . 00124 & . 00053 & . 00078 \\
\hline 47 & Metalworking machinery and equipment & . 00365 & . 00119 & . 00605 & . 00475 & . 01171 & . 01428 & . 00895 & . 01163 & . 02609 & . 01159 \\
\hline 48 & Special industry machinery and equipment & . 00499 & . 00162 & . 00224 & . 00079 & .00137 & . 00235 & . 00148 & . 00134 & . 00109 & . 00166 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|}
\hline 49 & General industrial machinery and equipment \\
\hline 50 & Miscellaneous machinery, except electrical \\
\hline 51 & Computer and office equipment \\
\hline 52 & Service industry machinery \\
\hline 53 & Electrical industrial equipment and apparatus \\
\hline 54 & Household appliances \\
\hline 55 & Electric lighting and wiring equipment \\
\hline 56 & Audio, video, and communication equipment \\
\hline 57 & Electronic components and accessories \\
\hline 58 & Miscellaneous electrical machinery and supplies \\
\hline 59A & Motor vehicles (passenger cars and trucks) \\
\hline 59B & Truck and bus bodies, trailers, and motor vehicles parts \\
\hline 60 & Aircraft and parts \\
\hline 61 & Other transportation equipment \\
\hline 62 & Scientific and controlling instruments \\
\hline 63 & Ophthalmic and photographic equipment \\
\hline 64 & Miscellaneous manufacturing \\
\hline 65A & Railroads and related services; passenger ground transportation \\
\hline 65B & Motor freight transportation and warehousing \\
\hline 65C & Water transportation \\
\hline 65D & Air transportation \\
\hline 65 E & Pipelines, freight forwarders, and related services \\
\hline 65F & State and local passenger transit \\
\hline 65G & In-house transportation \\
\hline 66 & Communications, except radio and TV \\
\hline 67 & Radio and TV broadcasting \\
\hline 68A & Electric services (utilities) \\
\hline 68B & Gas production and distribution (utilities) \\
\hline 68C & Water and sanitary services \\
\hline 69A & Wholesale trade \\
\hline 69B & Retail trade \\
\hline 70A & Finance \\
\hline 70B & Insurance \\
\hline 71A & Owner-occupied dwellings \\
\hline 71B & Real estate and royalties \\
\hline 72A & Hotels and lodging places \\
\hline 72 B & Personal and repair services (except auto) \\
\hline 73A & Computer and data processing services \\
\hline 73 B & Legal, engineering, accounting, and related services \\
\hline 73 C & Other business and professional services, except medical \\
\hline 73D & Advertising \\
\hline 74 & Eating and drinking places \\
\hline 75 & Automotive repair and services \\
\hline 76 & Amusements \\
\hline 77A & Health services \\
\hline 77B & Educational and social services, and membership organizations \\
\hline 78 & Federal Government enterprises \\
\hline 79 & State and local government enterprises \\
\hline 82 & General government industry \\
\hline 84 & Household industry \\
\hline 85 & Inventory valuation adjustment \\
\hline T & Total industry output multiplier \\
\hline
\end{tabular}


\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
(Total requirements per dollar of delivery to final demand at producers' prices)
KEY: \(-=\) Value too small to report
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Industry & & \[
\begin{gathered}
\text { Engines } \\
\text { and } \\
\text { turbines }
\end{gathered}
\] & Farm, construction, and mining machinery & Materials handling machinery and equipment & Metalworking machinery and equipment & Special industry machinery and equipment & General industrial machinery and equipment &  & Computer and office equipment & Service industry machinery & Electrical industrial equipment and apparatus \\
\hline number & Commodity number & (43) & (44+45) & (46) & (47) & (48) & (49) & (50) & (51) & (52) & (53) \\
\hline , & Livestock and livestock products & 0.00076 & 0.00081 & 0.00073 & 0.00070 & 0.00076 & 0.00079 & 0.00063 & 0.00076 & 0.00081 & 0.00076 \\
\hline 2 & Other agricultural products & . 00118 & . 00136 & . 00115 & . 00120 & . 00124 & . 00135 & . 00097 & . 00117 & . 00144 & . 00130 \\
\hline 3 & Forestry and fishery products & . 00057 & . 00089 & . 00071 & . 00076 & . 00088 & . 00072 & . 00045 & . 00056 & . 00096 & . 00075 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00135 & . 00133 & . 00113 & . 00113 & . 00123 & . 00134 & . 00118 & . 00131 & . 00124 & . 00145 \\
\hline \(5+6\) & Metallic ores mining & . 01102 & . 00905 & . 00947 & . 00738 & . 00799 & . 00760 & . 00897 & . 00262 & . 00946 & . 00908 \\
\hline 7 & Coal mining & . 00730 & . 00669 & . 00632 & . 00543 & . 00500 & . 00565 & . 00537 & . 00265 & . 00527 & . 00498 \\
\hline 8 & Crude petroleum and natural gas & . 01626 & . 01676 & . 01669 & . 01521 & . 01455 & . 01556 & . 01367 & . 01001 & . 01592 & . 01845 \\
\hline 9+10 & Nonmetallic minerals mining & . 00224 & . 00197 & . 00178 & . 00319 & . 00171 & . 00175 & . 00157 & . 00101 & . 00216 & . 00393 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 02144 & . 01904 & . 01786 & . 01830 & . 01843 & . 01790 & . 01853 & . 02134 & . 02063 & . 01846 \\
\hline 13 & Ordnance and accessories & . 00062 & . 00020 & . 00151 & . 00077 & . 00033 & . 00034 & . 00038 & . 00015 & . 00127 & . 00017 \\
\hline 14 & Food and kindred products & . 00313 & . 00332 & . 00300 & . 00296 & . 00318 & . 00306 & . 00254 & . 00315 & . 00351 & . 00312 \\
\hline 15 & Tobacco products & & & & & & & & & & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00152 & . 00202 & . 00159 & . 00157 & . 00170 & . 00333 & . 00122 & . 00137 & . 00212 & . 00190 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00081 & . 00124 & . 00123 & . 00066 & . 00105 & . 00793 & . 00183 & . 00065 & . 00122 & . 00090 \\
\hline 18 & Apparel & . 00078 & . 00036 & . 00032 & . 00036 & . 00117 & . 00035 & . 00022 & . 00034 & . 00038 & . 00030 \\
\hline 19 & Miscellaneous fabricated textile products & . 00034 & . 00031 & . 00027 & . 00023 & . 00027 & . 00026 & . 00021 & . 00030 & . 00027 & . 00025 \\
\hline \(20+21\) & Lumber and wood products & . 00492 & . 00698 & . 00653 & . 00844 & . 00888 & . 00610 & . 00440 & . 00467 & . 00914 & . 00625 \\
\hline \(22+23\) & Furniture and fixtures & . 00034 & . 00069 & . 00312 & . 00026 & . 00023 & . 00023 & . 00026 & . 00075 & . 00119 & . 00029 \\
\hline 24 & Paper and allied products, except containers & . 00793 & . 00875 & . 00814 & . 00857 & . 01528 & . 01402 & . 00669 & . 01174 & . 01585 & . 01525 \\
\hline 25 & Paperboard containers and boxes & . 00417 & . 00467 & . 00346 & . 00643 & . 00418 & . 00721 & . 00453 & . 00711 & . 00759 & . 00676 \\
\hline 26A & Newspapers and periodicals & . 00397 & . 00529 & . 00499 & . 00431 & . 00505 & . 00530 & . 00471 & . 00704 & . 00555 & . 00601 \\
\hline 26 B & Other printing and publishing & . 00721 & . 00872 & . 00839 & . 00708 & . 00887 & . 00850 & . 00719 & . 01098 & . 00877 & . 00903 \\
\hline 27A & Industrial and other chemicals & . 01567 & . 02081 & . 01541 & . 02197 & . 01703 & . 01671 & . 01238 & . 01502 & . 02360 & . 02102 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00072 & . 00089 & . 00074 & . 00086 & . 00076 & . 00113 & . 00057 & . 00075 & . 00104 & . 00091 \\
\hline 28 & Plastics and synthetic materials & . 00764 & . 01219 & . 00822 & . 01006 & . 00871 & . 01183 & . 00584 & . 00831 & . 01525 & . 01330 \\
\hline 29 A & Drugs & . 00014 & . 00017 & . 00014 & . 00018 & . 00020 & . 00014 & . 00010 & . 00015 & . 00024 & . 00019 \\
\hline 29B & Cleaning and toilet preparations & . 00070 & . 00080 & . 00069 & . 00074 & . 00075 & . 00081 & . 00052 & . 00082 & . 00165 & . 00151 \\
\hline 30 & Paints and allied products & . 00263 & . 00503 & . 00254 & . 00292 & . 00146 & . 00161 & . 00120 & . 00144 & . 00459 & . 00351 \\
\hline 31 & Petroleum refining and related products & . 01267 & . 01318 & . 01361 & . 01185 & . 01173 & . 01219 & . 01040 & . 00843 & . 01245 & . 01581 \\
\hline 32 & Rubber and miscellaneous plastics products & . 02581 & . 05544 & . 03209 & . 04039 & . 03344 & . 04051 & . 01433 & . 02865 & . 04202 & . 04078 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00008 & . 00009 & . 00008 & . 00006 & . 00014 & . 00007 & . 00006 & . 00007 & . 00008 & . 00007 \\
\hline 35 & Glass and glass products & . 00130 & . 00193 & . 00131 & . 00133 & . 00198 & . 00120 & . 00120 & . 00390 & . 00197 & . 00179 \\
\hline 36 & Stone and clay products & . 01212 & . 00768 & . 00754 & . 01740 & . 00784 & . 00853 & . 00826 & . 00323 & . 01179 & . 03693 \\
\hline 37 & Primary iron and steel manufacturing & . 19707 & . 17579 & . 17413 & . 12500 & . 10756 & . 12458 & . 11330 & . 01905 & . 10468 & . 08375 \\
\hline 38 & Primary nonferrous metals manufacturing & . 07085 & . 04035 & . 06047 & . 05962 & . 08151 & . 05925 & . 10010 & . 03490 & . 11125 & . 09054 \\
\hline 39 & Metal containers & . 00045 & . 00059 & . 00045 & . 00045 & . 00041 & . 00040 & . 00030 & . 00043 & . 00061 & . 00051 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 01927 & . 05167 & . 02537 & . 01669 & . 02061 & . 01895 & . 01244 & . 01106 & . 01498 & . 00818 \\
\hline 41 & Screw machine products and stampings & . 04286 & . 02150 & . 03483 & . 03748 & . 01454 & . 01627 & . 01721 & . 01470 & . 03846 & . 02224 \\
\hline 42 & Other fabricated metal products & . 04392 & . 02990 & . 03616 & . 02505 & . 03899 & . 02647 & . 03446 & . 01934 & . 02836 & . 01960 \\
\hline 43 & Engines and turbines & . 95752 & . 05151 & . 01023 & . 00251 & . 00537 & . 01046 & . 00500 & . 00102 & . 00368 & . 02692 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00861 & 1.01091 & . 01920 & . 00626 & . 00264 & . 00649 & . 00548 & . 00069 & . 00223 & . 00238 \\
\hline 46 & Materials handling machinery and equipment & . 00051 & . 00307 & . 95524 & . 00147 & . 00206 & . 00330 & . 00090 & . 00028 & . 00076 & . 00134 \\
\hline 47 & Metalworking machinery and equipment & . 01178 & . 01801 & . 01344 & . 93813 & . 02058 & . 01207 & . 02774 & . 00268 & . 00962 & . 00762 \\
\hline 48 & Special industry machinery and equipment & . 00104 & . 00294 & . 01251 & . 00630 & .98760 & . 00872 & . 00327 & . 00106 & . 00466 & . 00123 \\
\hline
\end{tabular}
```

4 9 ~ G e n e r a l ~ i n d u s t r i a l ~ m a c h i n e r y ~ a n d ~ e q u i p m e n t
Miscellaneous machinery, except electrica
Computer and office equipmen
Service industry machinery
Electrical industrial equipment and apparatus
Household appliances
Electric lighting and wiring equipment
Audio, video, and communication equipment
Electronic components and accessories
5 8
Motor vehicles (passenger cars and trucks)
9B
Aircraft bus bo
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
Air transportation
Air transportation
Pipelines, freight forwarders, and
In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
Gas production and distribution (utilities)
Water and sanitary services
Wholesale trade
Retail trade
Finance
Owner-occupied dwellings
Real estate and royalties
Personat lodging places
Cersonal and repair services (except auto)
Legal, engineering, accounting, and related services
Other business and professional services, except medical
Advertising
Eating and drinking places
Automotive repair and services
Amusements
Educational and social services, and membership organizations
Federal Government enterprises
State and local government enterprises
General govemment industry
Household industry
Inventory valuation adjustment
Total industry output multiplier

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2.25330

\begin{tabular}{|c|c|c|c|c|c|}
\hline . 04081 & 1.02921 & . 02360 & . 00214 & . 03163 & . 01286 \\
\hline . 04645 & . 04069 & 1.00258 & . 00567 & . 02961 & . 01863 \\
\hline . 00314 & . 00212 & . 00227 & 1.15103 & . 00236 & . 00544 \\
\hline . 00434 & . 00533 & . 00127 & . 00074 & 1.04822 & . 00103 \\
\hline . 04294 & . 04725 & . 00738 & . 02444 & . 06215 & 1.00747 \\
\hline . 00049 & . 00085 & . 00022 & . 00029 & . 00822 & . 00670 \\
\hline . 00192 & . 00181 & . 00728 & . 00428 & . 00882 & . 01099 \\
\hline . 00069 & . 00057 & . 00045 & . 01250 & . 00099 & . 00251 \\
\hline . 01451 & . 00744 & . 00732 & . 34505 & . 00817 & 03915 \\
\hline . 00209 & . 00214 & . 00221 & . 00194 & . 00185 & . 00339 \\
\hline . 00027 & . 00028 & . 00051 & . 00025 & . 00056 & . 00038 \\
\hline . 00275 & . 00532 & . 00521 & . 00330 & . 00939 & . 00501 \\
\hline . 00128 & . 00207 & . 00504 & . 00066 & . 00131 & . 00127 \\
\hline . 00070 & . 00050 & . 00189 & . 00033 & . 00052 & . 00311 \\
\hline . 00632 & . 00584 & . 00330 & . 00529 & . 01857 & . 00826 \\
\hline . 00139 & . 00129 & . 00092 & . 01532 & . 00109 & . 00100 \\
\hline . 00118 & . 00173 & . 00095 & . 00168 & . 00176 & . 00123 \\
\hline . 00650 & . 00642 & . 00664 & . 00429 & . 00760 & . 00801 \\
\hline . 02875 & . 02751 & . 02604 & . 01460 & . 03225 & . 02903 \\
\hline . 00184 & . 00187 & . 00186 & . 00105 & . 00211 & . 00270 \\
\hline . 00899 & . 00825 & . 00762 & . 01110 & . 00851 & . 00816 \\
\hline . 00301 & . 00290 & . 00272 & . 00259 & . 00322 & . 00315 \\
\hline . 00068 & . 00068 & . 00070 & . 00045 & . 00080 & . 00084 \\
\hline . 01732 & . 02121 & . 01825 & . 01536 & . 02109 & . 01758 \\
\hline . 01275 & . 01224 & . 00942 & . 01438 & . 01162 & . 01206 \\
\hline . 00357 & . 00380 & . 00330 & . 00493 & . 00393 & . 00427 \\
\hline . 02141 & . 02374 & . 02370 & . 01752 & . 02320 & . 02339 \\
\hline . 01067 & . 01197 & . 01114 & . 00653 & . 01181 & . 01241 \\
\hline . 00148 & . 00165 & . 00143 & . 00120 & . 00250 & . 00158 \\
\hline . 11324 & . 10474 & . 07529 & . 16482 & . 12157 & . 11324 \\
\hline . 00208 & . 00215 & . 00191 & . 00237 & . 00282 & . 00262 \\
\hline . 01981 & . 02030 & . 01876 & . 02374 & . 02254 & . 02225 \\
\hline . 00443 & . 00465 & . 00420 & . 00485 & . 00507 & . 00455 \\
\hline . 03016 & . 02594 & . 03005 & . 03736 & . 02598 & . 02755 \\
\hline . 00620 & . 00612 & . 00567 & . 00716 & . 00659 & 00613 \\
\hline . 00306 & . 00371 & . 00306 & . 00294 & . 00353 & . 00346 \\
\hline . 00974 & . 01085 & . 00867 & . 01959 & . 01245 & . 01006 \\
\hline . 02228 & . 01989 & . 01873 & . 02815 & . 02012 & . 01727 \\
\hline . 03717 & . 03894 & . 04007 & . 04383 & . 03785 & . 03929 \\
\hline . 00388 & . 00413 & . 00359 & . 00536 & . 00428 & . 00464 \\
\hline . 00868 & . 00852 & . 00750 & . 00872 & . 00882 & . 00834 \\
\hline . 00794 & . 00890 & . 00771 & . 00750 & . 00899 & . 00844 \\
\hline . 00280 & . 00280 & . 00261 & . 00389 & . 00315 & . 00310 \\
\hline . 00006 & . 00007 & . 00007 & . 00007 & . 00007 & . 00007 \\
\hline . 00214 & . 00229 & . 00207 & . 00336 & . 00332 & . 00246 \\
\hline . 00466 & . 00431 & . 00356 & . 00411 & . 00394 & . 00434 \\
\hline . 00742 & . 00841 & . 00866 & . 00594 & . 00831 & . 00725 \\
\hline & & & & & \\
\hline & & & & & \\
\hline 2.04188 & 2.04438 & 1.88798 & 2.30833 & 2.21198 & 2.04619 \\
\hline
\end{tabular}

\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
(Total requirements per dollar of delivery to final demand at producers' prices)
KEY: \(-=\) Value too small to report
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Industry & & \[
\begin{array}{r}
\text { House- } \\
\text { hold } \\
\text { appli- } \\
\text { ances }
\end{array}
\] & 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 \\
\hline number & Commodity number & (54) & (55) & (56) & (57) & (58) & (59A) & (59B) & (60) & (61) & (62) \\
\hline 1 & Livestock and livestock products & 0.00103 & 0.00082 & 0.00069 & 0.00071 & 0.00091 & 0.00130 & 0.00090 & 0.00081 & 0.00086 & 0.00089 \\
\hline 2 & Other agricultural products & . 00215 & . 00154 & . 00116 & . 00128 & . 00178 & . 00304 & . 00162 & . 00140 & . 00179 & . 00160 \\
\hline 3 & Forestry and fishery products & . 00131 & . 00078 & . 00064 & . 00057 & . 00098 & . 00123 & . 00096 & . 00055 & . 00188 & . 00061 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00160 & . 00126 & . 00116 & . 00162 & . 00176 & . 00153 & . 00140 & . 00156 & . 00159 & . 00128 \\
\hline \(5+6\) & Metallic ores mining & . 00868 & . 00723 & . 00353 & . 00369 & . 00710 & . 00743 & . 01684 & . 00443 & . 00626 & . 00298 \\
\hline 7 & Coal mining & . 00581 & . 00482 & . 00251 & . 00344 & . 00418 & . 00508 & . 00712 & . 00305 & . 00487 & . 00302 \\
\hline 8 & Crude petroleum and natural gas & . 02206 & . 01816 & . 00929 & . 01203 & . 01690 & . 01973 & . 01934 & . 01119 & . 01528 & . 00964 \\
\hline \(9+10\) & Nonmetallic minerals mining & . 00442 & . 00284 & . 00098 & . 00156 & . 00191 & . 00228 & . 00238 & . 00120 & . 00162 & . 00113 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 02126 & . 01851 & . 01864 & . 02578 & . 02042 & . 02236 & . 02414 & . 02015 & . 01646 & . 01664 \\
\hline 13 & Ordnance and accessories & . 00061 & . 00012 & . 00259 & . 00038 & . 00250 & . 00038 & . 00035 & . 04021 & . 00019 & . 01235 \\
\hline 14 & Food and kindred products & . 00422 & . 00344 & . 00282 & . 00295 & . 00376 & . 00454 & . 00368 & . 00316 & . 00314 & . 00339 \\
\hline 15 & Tobacco products & . 00001 & & & & . 00001 & . 00001 & & & & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00530 & . 00311 & . 00215 & . 00136 & . 00340 & . 01990 & . 00299 & . 00431 & . 00489 & . 00692 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00210 & . 00100 & . 00097 & . 00062 & . 00163 & . 01122 & . 00189 & . 00120 & . 00454 & . 00590 \\
\hline 18 & Apparel & . 00041 & . 00032 & . 00026 & . 00028 & . 00034 & 00188 & . 00041 & . 00047 & . 00054 & . 00106 \\
\hline 19 & Miscellaneous fabricated textile products & . 00066 & . 00027 & . 00024 & . 00024 & . 00030 & . 02529 & . 00133 & . 00188 & . 00469 & . 00033 \\
\hline \(20+21\) & Lumber and wood products & . 00855 & . 00667 & . 00556 & . 00511 & . 00583 & . 00863 & . 00866 & . 00417 & . 02351 & . 00511 \\
\hline \(22+23\) & Furniture and fixtures & . 00257 & . 00210 & . 01161 & . 00128 & . 00043 & . 01753 & . 00130 & . 00103 & . 00210 & . 00098 \\
\hline 24 & Paper and allied products, except containers & . 03308 & . 02319 & . 01295 & . 01039 & . 03885 & . 01353 & . 01301 & . 00657 & . 00756 & . 01530 \\
\hline 25 & Paperboard containers and boxes & . 01545 & . 01815 & . 00545 & . 00485 & . 01578 & 00735 & . 00840 & . 00273 & . 00366 & . 00730 \\
\hline 26A & Newspapers and periodicals & . 01039 & . 00830 & . 00503 & . 00619 & . 00592 & . 00715 & . 00906 & . 00403 & . 00447 & . 00674 \\
\hline 26B & Other printing and publishing & . 01462 & . 01156 & . 00800 & . 00907 & . 00938 & . 01165 & . 01320 & . 00692 & . 00729 & . 00994 \\
\hline 27A & Industrial and other chemicals & . 04965 & . 03272 & . 01613 & . 02707 & . 04037 & . 03859 & . 03074 & . 01525 & . 01911 & . 01744 \\
\hline 27 B & Agricultural fertilizers and chemicals & . 00198 & . 00137 & . 00074 & . 00101 & . 00161 & . 00162 & . 00121 & . 00081 & . 00097 & . 00084 \\
\hline 28 & Plastics and synthetic materials & . 04511 & . 03094 & . 01089 & . 01032 & . 02853 & . 02648 & . 01786 & . 01166 & . 01448 & . 01329 \\
\hline 29 A & Drugs & . 00049 & . 00028 & . 00016 & . 00022 & . 00031 & . 00033 & . 00024 & . 00030 & . 00017 & . 00279 \\
\hline 29B & Cleaning and toilet preparations & . 00284 & . 00236 & . 00103 & . 00092 & . 00159 & . 00154 & . 00109 & . 00066 & . 00080 & . 00120 \\
\hline 30 & Paints and allied products & . 00925 & . 00155 & . 00105 & . 00105 & . 00124 & . 01457 & . 00696 & . 00313 & . 00701 & . 00111 \\
\hline 31 & Petroleum refining and related products & . 01751 & . 01411 & . 00762 & . 00940 & . 01321 & . 01643 & . 01519 & . 00968 & . 01284 & . 00798 \\
\hline 32 & Rubber and miscellaneous plastics products & . 10798 & . 05000 & . 03197 & . 02692 & . 07900 & . 08725 & . 04416 & . 03073 & . 03545 & . 03108 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00012 & . 00008 & . 00008 & . 00008 & . 00010 & . 00092 & . 00015 & . 00015 & . 00021 & . 00024 \\
\hline 35 & Glass and glass products & . 00459 & . 02848 & . 00397 & . 01242 & . 00294 & . 01401 & . 00357 & . 00190 & . 00825 & . 00614 \\
\hline 36 & Stone and clay products & . 01209 & . 01621 & . 00274 & . 00429 & . 00537 & . 00760 & . 01021 & . 00566 & . 00641 & . 00403 \\
\hline 37 & Primary iron and steel manufacturing & . 10945 & . 07918 & . 02253 & . 02590 & . 04540 & . 08197 & . 15007 & . 03111 & . 10217 & . 02797 \\
\hline 38 & Primary nonferrous metals manufacturing & . 08456 & . 08975 & . 03989 & . 05248 & . 09484 & 05703 & . 13548 & . 05590 & . 04453 & . 03307 \\
\hline 39 & Metal containers & . 00101 & . 00055 & . 00035 & . 00044 & . 00060 & . 00116 & . 00075 & . 00042 & . 00062 & . 00061 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00975 & . 00308 & . 00864 & . 00772 & . 00750 & . 01022 & . 02624 & . 00430 & . 02670 & . 00965 \\
\hline 41 & Screw machine products and stampings & . 03716 & . 03098 & . 01532 & . 01477 & . 01549 & . 10030 & . 05288 & . 01489 & . 01692 & . 01536 \\
\hline 42 & Other fabricated metal products & . 02590 & . 02933 & . 02031 & . 04253 & . 02852 & . 03567 & . 02776 & . 02693 & . 02830 & . 02466 \\
\hline 43 & Engines and turbines & . 00215 & . 00154 & . 00053 & . 00061 & . 00130 & . 01573 & . 00645 & . 00262 & . 04540 & . 00077 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00178 & . 00458 & . 00070 & . 00086 & . 00110 & . 00278 & . 00411 & . 00105 & . 01248 & . 00086 \\
\hline 46 & Materials handling machinery and equipment & . 00043 & . 00038 & . 00021 & . 00023 & . 00032 & . 00050 & . 00071 & . 00024 & . 00085 & . 00019 \\
\hline 47 & Metalworking machinery and equipment & . 01057 & . 00676 & . 00280 & . 00397 & . 00528 & . 00738 & . 00851 & . 01445 & . 00567 & . 00382 \\
\hline 48 & Special industry machinery and equipment & . 00297 & . 00137 & . 00093 & . 00226 & . 00153 & . 00147 & . 00140 & . 00089 & . 00093 & . 00112 \\
\hline
\end{tabular}

General industrial machinery and equipment Computer and office equipment Service industry machinery Electrical industrial equipment and apparatus Household appliances
Electric lighting and wiring equipment Audio, video, and communication equipmen 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 Railroads and manufacturing Rairroads fright transed services; passenger ground transportation 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 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
State and local government enterprises Household industry
Household industry
Inventory valuation adjustment
Total industry output multiplier
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 00915 & . 00446 & . 00210 & . 00237 & . 00695 & . 01060 & . 02570 & . 00600 & . 02843 & . 00307 \\
\hline . 00858 & . 00885 & . 00592 & . 00837 & . 02076 & . 02517 & . 04976 & . 02126 & . 01689 & . 00791 \\
\hline . 00407 & . 00313 & . 03000 & . 09216 & . 03254 & . 00534 & . 00515 & . 00813 & . 00205 & . 02432 \\
\hline . 02755 & . 00089 & . 00090 & . 00091 & . 00097 & . 02022 & . 01391 & . 00058 & . 00491 & . 00072 \\
\hline . 05145 & . 04009 & . 00645 & . 00687 & . 02036 & . 00606 & . 00707 & . 00519 & . 03428 & . 01367 \\
\hline . 95433 & . 00124 & . 00035 & . 00019 & . 00054 & . 00057 & . 00060 & . 00018 & . 00600 & . 00029 \\
\hline . 01561 & . 96479 & . 01005 & . 00611 & . 00508 & . 00823 & . 00491 & . 00147 & . 00481 & . 00498 \\
\hline . 01830 & . 00441 & . 99632 & . 01868 & . 01179 & . 01334 & . 00240 & . 01228 & . 00161 & . 02197 \\
\hline . 02702 & . 02226 & . 27490 & 1.12852 & . 11543 & . 03900 & . 03895 & . 04063 & . 00732 & . 11361 \\
\hline . 00249 & . 00795 & . 01157 & . 00272 & . 92072 & . 02267 & . 02234 & . 00238 & . 00620 & . 00913 \\
\hline . 00049 & . 00044 & . 00025 & . 00026 & . 00035 & 1.00448 & . 03658 & . 00026 & . 02417 & . 00024 \\
\hline . 00309 & . 00313 & . 00574 & . 00645 & . 02752 & . 29872 & 1.03858 & . 00278 & . 03496 & . 00240 \\
\hline . 00147 & . 00068 & . 00219 & . 00065 & . 00168 & . 00237 & . 00266 & 1.27362 & . 00534 & . 02340 \\
\hline . 00050 & . 00037 & . 00021 & . 00025 & . 00133 & . 00083 & . 00144 & . 00027 & 1.00985 & . 00025 \\
\hline . 03846 & . 01279 & . 02460 & . 01199 & . 01888 & . 00910 & . 00508 & . 06946 & . 00544 & . 96110 \\
\hline . 00141 & . 00113 & . 00155 & . 00137 & . 00408 & . 00145 & . 00127 & . 00149 & . 00083 & . 00860 \\
\hline . 00225 & . 00537 & . 00137 & . 00116 & . 00154 & . 00178 & . 00158 & . 00110 & . 00225 & . 00175 \\
\hline . 00966 & . 00767 & . 00422 & . 00558 & . 00725 & . 01078 & . 01080 & . 00460 & . 00725 & . 00428 \\
\hline . 03811 & . 03090 & . 01549 & . 01757 & . 03313 & . 04753 & . 04296 & . 01928 & . 03359 & . 01618 \\
\hline . 00267 & . 00201 & . 00101 & . 00138 & . 00196 & . 00254 & . 00285 & . 00123 & . 00184 & . 00109 \\
\hline . 00862 & . 00730 & . 00821 & . 00840 & . 00852 & . 01399 & . 01104 & . 01330 & . 00900 & . 00727 \\
\hline . 00374 & . 00306 & . 00220 & . 00242 & . 00326 & . 00487 & . 00418 & . 00308 & . 00326 & . 00211 \\
\hline . 00102 & . 00081 & . 00044 & . 00059 & . 00076 & . 00113 & . 00114 & . 00048 & . 00076 & . 00045 \\
\hline . 02177 & . 01712 & . 01155 & . 01434 & . 01704 & . 03308 & . 02913 & . 01310 & . 02663 & . 01077 \\
\hline . 01329 & . 01133 & . 01208 & . 01173 & . 01138 & . 01289 & . 01177 & . 00991 & . 00979 & . 01211 \\
\hline . 00757 & . 00597 & . 00352 & . 00436 & . 00409 & . 00504 & . 00652 & . 00279 & . 00316 & . 00470 \\
\hline . 02585 & . 02394 & . 01583 & . 02251 & . 02464 & . 02367 & . 02935 & . 01727 & . 01949 & . 01619 \\
\hline . 01442 & . 01299 & . 00614 & . 00815 & . 01113 & . 01245 & . 01401 & . 00705 & . 01037 & . 00621 \\
\hline . 00188 & . 00175 & . 00103 & . 00132 & . 00223 & . 00252 & . 00294 & . 00154 & . 00179 & . 00109 \\
\hline . 12500 & . 11564 & . 10046 & . 09911 & . 12717 & . 16328 & . 13528 & . 07090 & . 09985 & . 07466 \\
\hline . 00402 & . 00365 & . 00228 & . 00238 & . 00300 & . 00353 & . 00304 & . 00191 & . 00218 & . 00207 \\
\hline . 02397 & . 02097 & . 02038 & . 02108 & . 02302 & . 04078 & . 02617 & . 02403 & . 02038 & . 01884 \\
\hline . 00546 & . 00470 & . 00426 & . 00452 & . 00496 & . 00680 & . 00579 & . 00455 & . 00498 & . 00406 \\
\hline 02797 & . 03086 & . 02836 & . 03033 & . 02924 & . 03482 & . 02890 & . 02356 & . 03289 & . 02686 \\
\hline . 00704 & . 00620 & . 00609 & . 00615 & . 00644 & . 00844 & . 00736 & . 00681 & . 00613 & . 00562 \\
\hline . 00363 & . 00315 & . 00277 & . 00388 & . 00391 & . 00525 & . 00535 & . 00377 & . 00296 & . 00251 \\
\hline . 01073 & . 01128 & . 01308 & . 01346 & . 01115 & . 01263 & . 01295 & . 01841 & . 01129 & . 01160 \\
\hline . 02040 & . 01912 & . 02307 & . 02923 & . 01918 & . 02884 & . 02322 & . 02467 & . 01832 & . 02376 \\
\hline . 04238 & . 03871 & . 03758 & . 04363 & . 04558 & . 04699 & . 04628 & . 04200 & . 03581 & . 04444 \\
\hline . 00821 & . 00648 & . 00383 & . 00474 & . 00445 & . 00548 & . 00708 & . 00304 & . 00343 & . 00511 \\
\hline . 00952 & . 00867 & . 00776 & . 00781 & . 00900 & . 01080 & . 00955 & . 00868 & . 00841 & . 00749 \\
\hline . 00968 & . 00864 & . 00678 & . 00831 & . 00967 & . 06491 & . 01384 & . 00816 & . 00930 & . 00624 \\
\hline . 00495 & . 00391 & . 00287 & . 00336 & . 00308 & . 00411 & . 00472 & . 00258 & . 00249 & . 00341 \\
\hline . 00008 & . 00007 & . 00006 & . 00007 & . 00008 & . 00009 & . 00008 & . 00007 & . 00007 & . 00007 \\
\hline . 00443 & . 00249 & . 00305 & . 00334 & . 00309 & . 00604 & . 00427 & . 00437 & . 00249 & . 00359 \\
\hline . 00624 & . 00435 & . 00431 & . 00394 & . 00440 & . 00627 & . 00611 & . 00427 & . 00373 & . 00405 \\
\hline . 00834 & . 00817 & . 00479 & . 00616 & . 00850 & . 00887 & . 00948 & . 00562 & . 00795 & . 00576 \\
\hline & & & & & & & & & \\
\hline & & & & & & & & & \\
\hline 2.34050 & 2.06368 & 2.01279 & 2.01775 & 2.15205 & 2.81494 & 2.45886 & 2.15186 & 2.10239 & 1.84733 \\
\hline
\end{tabular}

\section*{Table D (continued).
Detailed Industry-by-Commodity Total Requirements}
(Total requirements per dollar of delivery to final demand at producers' prices)
KEY: \(-=\) Value too small to report
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Industry & & Ophthalmic, and photographic equipment & Miscellaneous manufacturing & Railroads and related services; passenger ground transportation & Motor freight transportation and warehousing & Water
trans-
portation & Air
trans-
portation & Pipelines, freight forwarders, and related services & \begin{tabular}{l}
In-house \\
transportation
\end{tabular} & \[
\begin{array}{|r|}
\hline \text { Communi- } \\
\text { cations, } \\
\text { except } \\
\text { radio } \\
\text { and TV } \\
\hline
\end{array}
\] & Radio and TV broadcasting \\
\hline number & Commodity number & (63) & (64) & (65A) & (65B) & (65C) & (65D) & (65E) & (65G) & (66) & (67) \\
\hline 1 & Livestock and livestock products & 0.00077 & 0.00199 & 0.00063 & 0.00065 & 0.00127 & 0.00214 & 0.00057 & 0.00051 & 0.00063 & 0.00384 \\
\hline 2 & Other agricultural products & . 00149 & . 00491 & . 00122 & . 00098 & . 00162 & . 00196 & . 00093 & . 00063 & . 00101 & . 00475 \\
\hline 3 & Forestry and fishery products & . 00083 & . 00236 & . 00078 & . 00044 & . 00054 & . 00049 & . 00072 & . 00025 & . 00050 & . 00039 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00109 & . 00171 & . 00105 & . 00077 & . 00113 & . 00097 & . 00076 & . 00044 & . 00096 & . 00229 \\
\hline \(5+6\) & Metallic ores mining & . 00159 & . 00632 & . 00143 & . 00063 & . 00084 & . 00052 & . 00037 & . 00043 & . 00049 & . 00032 \\
\hline 7 & Coal mining & . 00330 & . 00381 & . 00263 & . 00191 & . 00215 & . 00156 & . 00216 & . 00152 & . 00113 & . 00203 \\
\hline 8 & Crude petroleum and natural gas & . 01411 & . 02048 & . 08059 & . 05134 & . 02681 & . 08534 & . 01275 & . 05937 & . 00550 & . 00704 \\
\hline 9+10 & Nonmetallic minerals mining & . 00181 & . 00238 & . 00188 & . 00083 & . 00091 & . 00100 & . 00061 & . 00068 & . 00085 & . 00060 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 01654 & . 01917 & . 08238 & . 01988 & . 02676 & . 02230 & . 02928 & . 01307 & . 05163 & . 02399 \\
\hline 13 & Ordnance and accessories & . 00014 & . 00009 & . 00006 & . 00006 & . 000008 & . 00122 & . 00018 & . 00003 & . 000009 & . 00009 \\
\hline 14 & Food and kindred products & . 00338 & . 00724 & . 00257 & . 00274 & . 00539 & . 00981 & . 00220 & . 00224 & . 00215 & . 00612 \\
\hline 15 & Tobacco products & . 00001 & . 00001 & & & & & & & & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00228 & . 02269 & . 00121 & . 00094 & . 00342 & . 00070 & . 00173 & . 00052 & . 00074 & . 00109 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00118 & . 00279 & . 00071 & . 00054 & . 00218 & . 00031 & . 00053 & . 00031 & . 00039 & . 00034 \\
\hline 18 & Apparel & . 00024 & . 00669 & . 00067 & . 00025 & . 00301 & . 00030 & . 00028 & . 00018 & . 00080 & . 00067 \\
\hline 19 & Miscellaneous fabricated textile products & . 00021 & . 00311 & . 00039 & . 00041 & . 00356 & . 00050 & . 00262 & . 00024 & . 00023 & . 00038 \\
\hline \(20+21\) & Lumber and wood products & . 00796 & . 02376 & . 00944 & . 00375 & . 00487 & . 00407 & . 00917 & . 00211 & . 00594 & . 00395 \\
\hline \(22+23\) & Furniture and fixtures & . 00019 & . 00193 & . 00017 & . 00016 & . 00014 & . 00009 & . 00010 & . 00009 & . 00031 & . 00010 \\
\hline 24 & Paper and allied products, except containers & . 05565 & . 03375 & . 00604 & . 00568 & . 00820 & . 00596 & . 00830 & . 00370 & . 00674 & . 00892 \\
\hline 25 & Paperboard containers and boxes & . 01388 & . 02321 & . 00188 & . 00234 & . 00172 & . 00168 & . 00293 & . 00185 & . 00160 & . 00173 \\
\hline 26A & Newspapers and periodicals & . 00642 & . 01463 & . 00372 & . 00367 & . 01488 & . 00709 & . 00920 & . 00164 & . 00708 & . 01467 \\
\hline 26B & Other printing and publishing & . 00933 & . 02979 & . 01109 & . 000892 & . 01902 & . 01224 & . 01903 & . 00432 & . 01351 & . 01886 \\
\hline 27A & Industrial and other chemicals & . 04319 & . 04785 & . 01242 & . 00956 & . 00890 & . 00890 & . 00482 & . 00773 & . 00443 & . 00524 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00146 & . 00214 & . 00057 & . 00048 & . 00064 & . 00055 & . 00033 & . 00033 & . 00035 & . 00127 \\
\hline 28 & Plastics and synthetic materials & . 02137 & . 03992 & . 00395 & . 00442 & . 00392 & . 00196 & . 00247 & . 00244 & . 00217 & . 00177 \\
\hline 29A & Drugs & . 00126 & . 00061 & . 00011 & . 00010 & . 00011 & . 00012 & . 00006 & . 00007 & . 00009 & . 00015 \\
\hline 29B & Cleaning and toilet preparations & . 00182 & . 00368 & . 00097 & . 00068 & . 00060 & . 00077 & . 00038 & . 00064 & . 00055 & . 00056 \\
\hline 30 & Paints and allied products & . 00078 & . 00721 & . 00131 & . 00103 & . 00157 & . 00052 & . 00049 & . 00197 & . 00098 & . 00057 \\
\hline 31 & Petroleum refining and related products & . 01085 & . 01725 & . 10155 & . 06389 & . 03122 & 10899 & . 00983 & . 07522 & . 00545 & . 00669 \\
\hline 32 & Rubber and miscellaneous plastics products & . 03656 & . 05543 & . 01395 & . 02002 & . 00958 & . 00558 & . 00844 & . 00916 & . 00708 & . 00457 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00006 & . 00174 & . 00009 & . 00009 & . 00020 & . 00010 & . 00020 & . 00005 & . 00012 & . 00043 \\
\hline 35 & Glass and glass products & . 00881 & . 00249 & . 00201 & . 00109 & . 00104 & . 00087 & . 00088 & . 00075 & . 00082 & . 00061 \\
\hline 36 & Stone and clay products & . 00252 & . 00764 & . 00454 & . 00170 & . 00246 & . 00195 & . 00157 & . 00119 & . 00219 & . 00126 \\
\hline 37 & Primary iron and steel manufacturing & . 01106 & . 03704 & . 02095 & . 00618 & . 01075 & . 00480 & . 00388 & . 00413 & . 00501 & . 00268 \\
\hline 38 & Primary nonferrous metals manufacturing & . 01378 & . 08524 & . 00864 & . 00440 & . 00694 & . 00399 & . 00315 & . 00279 & . 00478 & . 00287 \\
\hline 39 & Metal containers & . 00054 & . 00099 & . 00037 & . 00031 & . 00035 & . 00048 & . 00016 & . 00032 & . 00017 & . 00026 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00210 & . 00483 & . 00510 & . 00159 & . 00281 & . 00141 & . 00176 & . 00100 & . 00282 & . 00140 \\
\hline 41 & Screw machine products and stampings & . 01037 & . 00663 & . 00274 & . 00205 & . 00202 & . 00154 & . 00103 & . 00121 & . 00330 & . 00094 \\
\hline 42 & Other fabricated metal products & . 00794 & . 01856 & . 00944 & . 00633 & . 01056 & . 00381 & . 00406 & . 00393 & . 00450 & . 00241 \\
\hline 43 & Engines and turbines & . 00054 & . 00080 & . 00697 & . 00146 & . 00854 & . 00050 & . 00157 & . 00056 & . 00218 & . 00036 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00056 & . 00094 & . 00110 & . 00049 & . 00102 & . 00058 & . 00034 & . 00040 & . 00035 & . 00032 \\
\hline 46 & Materials handling machinery and equipment & . 00018 & . 00029 & . 00023 & . 00017 & . 00020 & . 00013 & . 00010 & . 00013 & . 00009 & . 00008 \\
\hline 47 & Metalworking machinery and equipment & . 00241 & . 00461 & . 00239 & . 00073 & . 00572 & . 00112 & . 00049 & . 00049 & . 00058 & . 00045 \\
\hline 48 & Special industry machinery and equipment & . 00141 & . 00129 & . 00042 & . 00034 & .00057 & . 00028 & . 00033 & . 00026 & . 00029 & . 00030 \\
\hline
\end{tabular}
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
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
Pipelines, freight forwarders, and related services
Pipelines, freight forwarders, and
State and local passenger transit
In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
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
State and local government enterprises
Household industry
Household industry
Inventory valuation adjustment
Total industry output multiplier
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 00131 & . 00360 & . 00840 & . 00152 & . 01476 & . 00125 & . 00442 & . 00079 & . 00311 & . 00059 \\
\hline . 00617 & . 01117 & . 00499 & . 00246 & . 00651 & . 00333 & . 00238 & . 00154 & . 00129 & . 00120 \\
\hline . 01033 & . 00579 & . 00254 & . 00177 & . 00262 & . 00435 & . 00824 & . 00116 & . 00635 & . 00479 \\
\hline . 00049 & . 00079 & . 00181 & . 00109 & . 00103 & . 00063 & . 00068 & . 00070 & . 00084 & . 00090 \\
\hline . 00699 & . 00521 & . 01425 & . 00257 & . 00329 & . 00123 & . 00225 & . 00135 & . 00322 & . 00198 \\
\hline . 00044 & . 00025 & . 00047 & . 00012 & . 00033 & . 00013 & . 00015 & . 00008 & . 00025 & . 00015 \\
\hline . 00148 & . 00166 & . 00224 & . 00113 & . 00123 & . 00069 & . 00076 & . 00081 & . 00167 & . 00100 \\
\hline . 00120 & . 00118 & . 00072 & . 00069 & . 00051 & . 00107 & . 00122 & . 00049 & . 01992 & . 00251 \\
\hline . 04625 & . 01851 & . 00461 & . 00350 & . 00391 & . 00696 & . 00800 & . 00242 & . 02635 & . 01287 \\
\hline . 01477 & . 00189 & . 00283 & . 00250 & . 00207 & . 00135 & 00296 & . 00189 & . 00224 & . 00317 \\
\hline . 00019 & . 00017 & . 00097 & . 00058 & . 00068 & . 00008 & . 00012 & . 00033 & . 00011 & . 00010 \\
\hline . 00202 & . 00272 & . 01483 & . 01447 & . 00266 & . 00169 & . 00276 & . 00836 & . 00203 & . 00237 \\
\hline . 00049 & . 00080 & . 00081 & . 00044 & . 00090 & . 03732 & . 00048 & . 00015 & . 00042 & . 00028 \\
\hline . 00026 & . 00235 & . 01872 & . 00029 & . 02513 & . 00021 & . 00021 & . 00020 & . 00014 & . 00030 \\
\hline . 01132 & . 00226 & . 00104 & . 00086 & . 00086 & . 00260 & . 00062 & . 00054 & . 00131 & . 00079 \\
\hline 1.02536 & . 00139 & . 00087 & . 00113 & . 00132 & . 00103 & . 00173 & . 00045 & . 00122 & . 00252 \\
\hline . 00128 & 1.04501 & . 00132 & . 00113 & . 00438 & . 00148 & . 00216 & . 00076 & . 00201 & . 00298 \\
\hline . 00668 & . 00785 & . 93497 & . 00632 & . 00276 & . 00328 & . 00269 & . 00271 & . 00220 & . 00254 \\
\hline . 02054 & . 03361 & . 01870 & 1.20510 & . 01324 & . 01082 & . 01205 & . 01188 & . 00745 & . 00902 \\
\hline . 00167 & . 00225 & . 00351 & . 00270 & 1.08001 & . 00344 & . 00203 & . 00212 & . 00051 & . 00061 \\
\hline . 00651 & . 00775 & . 00661 & . 00736 & . 00588 & 1.01843 & . 00865 & . 00187 & . 00577 & . 00594 \\
\hline . 00243 & . 00337 & . 02260 & . 05046 & . 05686 & . 12018 & 1.02074 & . 00415 & . 00140 & . 00156 \\
\hline . 00070 & . 00083 & . 09884 & . 00053 & . 00029 & . 00035 & . 00028 & . 00028 & . 00023 & . 00027 \\
\hline . 01314 & . 02430 & . 01354 & . 00880 & . 00936 & . 00855 & . 00719 & 1.00692 & . 00867 & . 02603 \\
\hline . 01162 & . 01326 & . 01460 & . 02521 & . 01105 & . 02527 & . 03895 & . 01901 & 1.15840 & . 02900 \\
\hline . 00430 & . 01057 & . 00232 & . 00228 & . 00998 & . 00492 & . 00623 & . 00109 & . 00519 & 1.03157 \\
\hline . 01443 & . 02173 & . 01761 & . 01445 & . 01272 & . 01166 & . 01711 & . 01172 & . 00813 & 01614 \\
\hline . 00895 & . 01221 & . 01703 & . 01153 & . 00836 & . 01592 & . 00379 & . 01215 & . 00281 & . 00391 \\
\hline . 00127 & . 00163 & . 00164 & . 00665 & . 00141 & . 00137 & . 00090 & . 00267 & . 00096 & . 00160 \\
\hline . 08837 & . 13056 & . 05679 & . 05492 & . 03688 & . 03579 & . 02303 & . 04763 & . 02499 & . 02282 \\
\hline . 00245 & . 00345 & . 00762 & . 00743 & . 00248 & . 00222 & 00260 & . 00830 & . 00316 & 00241 \\
\hline . 01946 & . 02243 & . 03267 & . 03513 & . 05154 & . 03247 & . 03700 & . 01448 & . 02166 & . 02345 \\
\hline . 00409 & . 00564 & . 00894 & . 01580 & . 00484 & . 00515 & . 00868 & . 01166 & . 00407 & . 01060 \\
\hline . 02166 & . 03607 & . 04072 & . 05225 & . 05553 & . 04896 & . 04061 & . 02198 & . 03334 & . 07035 \\
\hline . 00535 & . 00634 & . 00473 & . 00676 & . 00411 & . 00567 & . 00512 & . 00549 & . 00513 & 00563 \\
\hline . 00233 & . 00335 & . 00308 & . 00296 & . 00235 & . 00484 & . 00356 & . 00231 & . 00936 & . 00616 \\
\hline . 00951 & . 01017 & . 02191 & . 01307 & . 02168 & . 04015 & . 08130 & . 00833 & . 02148 & . 02334 \\
\hline . 01381 & . 02201 & . 02326 & . 02154 & . 04357 & . 03268 & . 06693 & . 01614 & . 04631 & . 03801 \\
\hline . 04023 & . 04599 & . 04250 & . 04499 & . 10727 & . 04066 & . 05225 & . 03916 & . 04094 & . 06522 \\
\hline . 00468 & . 01147 & . 00253 & . 00248 & . 01086 & . 00534 & . 00676 & . 00120 & . 00514 & . 01138 \\
\hline . 00703 & . 00898 & . 00711 & . 00819 & . 00519 & . 02293 & . 00631 & . 00677 & . 00613 & . 00702 \\
\hline . 00645 & . 00909 & . 01395 & . 06194 & . 00492 & . 00553 & . 00923 & . 03483 & . 00808 & . 00931 \\
\hline . 00322 & . 00649 & . 00213 & . 00259 & . 00613 & . 00417 & . 00464 & . 00118 & . 02011 & 46014 \\
\hline . 00007 & . 00009 & . 00007 & . 00051 & . 00015 & . 00008 & 00007 & . 00006 & . 00006 & . 00026 \\
\hline . 00538 & . 00631 & . 00396 & . 00215 & . 00617 & . 00314 & . 00833 & . 00085 & . 00284 & . 00761 \\
\hline . 00346 & . 00695 & . 00448 & . 00546 & . 00469 & . 00457 & . 00717 & . 00444 & . 00621 & . 00671 \\
\hline . 00484 & . 00870 & . 00846 & . 01297 & . 06263 & . 02738 & . 00458 & . 00594 & . 00334 & . 00719 \\
\hline & & & & & & & & & \\
\hline & & & & & & & & & \\
\hline 1.78696 & 2.16820 & 1.92866 & 1.96278 & 1.95332 & 1.92052 & 1.67868 & 1.53824 & 1.68713 & 2.08166 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Table D
Detaile
(Total requ & (continued). & producers & prices) & & & & & EY: \(-=\) & Value to & small to & report \\
\hline ndustry & & Electric services (utilities) & Gas production and distribution (utilities) & Water and sanitary services & Wholesale trade & Retail trade & Finance & Insurance & Owneroccupied dwellings & Real
estate
and
royalties & Hotels lodging places \\
\hline number & Commodity number & (68A) & (68B) & (68C) & (69A) & (69B) & (70A) & (70B) & (71A) & (71B) & (72A) \\
\hline 1 & Livestock and livestock products & 0.00044 & 0.00057 & 0.00074 & 0.00086 & 0.00067 & 0.00050 & 0.00076 & 0.00050 & 0.00066 & 0.00148 \\
\hline 2 & Other agricultural products & . 00103 & . 00141 & . 00209 & . 00122 & . 00099 & . 00066 & . 00091 & . 00169 & . 00169 & . 00247 \\
\hline 3 & Forestry and fishery products & . 00071 & . 00093 & . 00151 & . 00063 & . 00038 & . 00024 & . 00030 & . 00036 & . 00053 & . 00058 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00101 & . 00174 & . 00318 & . 00115 & . 00184 & . 00088 & . 00113 & . 00821 & . 00596 & . 00560 \\
\hline \(5+6\) & Metallic ores mining & . 00070 & . 00099 & . 00149 & . 00039 & . 00030 & . 00019 & . 00025 & . 00016 & . 00028 & . 00036 \\
\hline 7 & Coal mining & . 10260 & . 00257 & . 00483 & . 00154 & . 00300 & . 00109 & . 00087 & . 00025 & . 00183 & . 00463 \\
\hline 8 & Crude petroleum and natural gas & . 04362 & . 63543 & . 05596 & . 01030 & . 01011 & . 00550 & . 00496 & . 00207 & . 00683 & . 01390 \\
\hline 9+10 & Nonmetallic minerals mining & . 00156 & . 00220 & . 00356 & . 00051 & . 00055 & . 00031 & . 00036 & . 00077 & . 00109 & . 00107 \\
\hline 11 & New construction & & & & & & & & & & \\
\hline 12 & Maintenance and repair construction & . 08978 & . 12526 & . 15125 & . 01249 & . 02197 & . 01120 & . 01347 & . 05096 & . 06653 & . 04227 \\
\hline 13 & Ordnance and accessories & . 00005 & . 00005 & . 00025 & . 00004 & . 00004 & . 00004 & . 00005 & . 00001 & . 00003 & . 00006 \\
\hline 14 & Food and kindred products & . 00171 & . 00216 & . 00264 & . 00356 & . 00249 & . 00198 & . 00312 & . 00042 & . 00159 & . 00529 \\
\hline 15 & Tobacco products & & & & & & & & & & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00091 & . 00055 & . 00116 & . 00134 & . 00070 & . 00059 & . 00050 & . 00019 & . 00039 & . 00497 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00052 & . 00057 & . 00096 & . 00046 & . 00044 & . 00024 & . 00026 & . 00023 & . 00035 & . 00117 \\
\hline 18 & Apparel & . 00016 & . 00016 & . 00047 & . 00149 & . 00021 & . 00014 & . 00015 & . 00003 & . 00011 & . 00163 \\
\hline 19 & Miscellaneous fabricated textile products & . 00020 & . 00025 & . 00038 & . 00064 & . 00022 & . 00063 & . 00033 & . 00009 & . 00019 & . 00805 \\
\hline \(20+21\) & Lumber and wood products & . 00937 & . 01243 & . 01997 & . 00761 & . 00420 & . 00257 & . 00285 & . 00489 & . 00689 & . 00589 \\
\hline \(22+23\) & Furniture and fixtures & . 00008 & . 00010 & . 00022 & . 00009 & . 00012 & . 00007 & . 00007 & . 00003 & . 00008 & . 00011 \\
\hline 24 & Paper and allied products, except containers & . 00339 & . 00391 & . 00615 & . 01402 & . 01624 & . 00997 & . 00924 & . 00108 & . 00429 & . 01101 \\
\hline 25 & Paperboard containers and boxes & . 00109 & . 00117 & . 00225 & . 00673 & . 00274 & . 00132 & . 00138 & . 00034 & . 00085 & . 00366 \\
\hline 26A & Newspapers and periodicals & . 00162 & . 00207 & . 00319 & . 00918 & . 01513 & . 00786 & . 00694 & . 00056 & . 00359 & . 00787 \\
\hline 26B & Other printing and publishing & . 00395 & . 00444 & . 00683 & . 02166 & . 01883 & . 02044 & . 01977 & . 00127 & . 00664 & . 01374 \\
\hline 27A & Industrial and other chemicals & . 00814 & . 01319 & . 02896 & . 00595 & . 00487 & . 00323 & . 00374 & . 00158 & . 00352 & . 00693 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00042 & . 00073 & . 00205 & . 00101 & . 00047 & . 00026 & . 00032 & . 00160 & . 00102 & . 00281 \\
\hline 28 & Plastics and synthetic materials & . 00216 & . 00236 & . 00553 & . 00259 & . 00216 & . 00124 & . 00167 & . 00064 & . 00129 & . 00341 \\
\hline 29A & Drugs & . 00010 & . 00012 & . 00028 & . 00017 & . 00007 & . 00005 & . 00006 & . 00004 & . 00006 & . 00015 \\
\hline 29B & Cleaning and toilet preparations & . 00057 & . 00059 & . 00098 & . 00124 & . 00070 & . 00037 & . 00041 & . 00015 & . 00041 & . 00183 \\
\hline 30 & Paints and allied products & . 00107 & . 00145 & . 00221 & . 00043 & . 00049 & . 00025 & . 00060 & . 00053 & . 00081 & . 00066 \\
\hline 31 & Petroleum refining and related products & . 02602 & . 01673 & . 04796 & . 01007 & . 00977 & . 00485 & . 00491 & . 00213 & . 00569 & . 00990 \\
\hline 32 & Rubber and miscellaneous plastics products & . 00642 & . 00558 & . 01573 & . 00860 & . 00694 & . 00322 & . 00551 & . 00183 & . 00388 & . 00896 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00006 & . 00008 & . 00009 & . 00011 & . 00037 & . 00014 & . 00013 & . 00002 & . 00008 & . 00045 \\
\hline 35 & Glass and glass products & . 00063 & . 00066 & . 00191 & . 00092 & . 00045 & . 00044 & . 00060 & . 00018 & . 00042 & . 00521 \\
\hline 36 & Stone and clay products & . 00403 & . 00635 & . 00990 & . 00110 & . 00124 & . 00070 & . 00083 & . 00178 & . 00332 & . 00273 \\
\hline 37 & Primary iron and steel manufacturing & . 00762 & . 01543 & . 01309 & . 00323 & . 00286 & . 00167 & . 00228 & . 00180 & . 00294 & . 00330 \\
\hline 38 & Primary nonferrous metals manufacturing & . 00542 & . 00502 & . 01060 & . 00372 & . 00237 & . 00161 & . 00216 & . 00144 & . 00241 & . 00273 \\
\hline 39 & Metal containers & . 00021 & . 00026 & . 00047 & . 00110 & . 00016 & . 00012 & . 00016 & . 00006 & . 00013 & . 00029 \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00476 & . 00610 & . 00796 & . 00115 & . 00132 & . 00071 & . 00088 & . 00258 & . 00321 & . 00217 \\
\hline 41 & Screw machine products and stampings & . 00188 & . 00110 & . 00327 & . 00088 & . 00080 & . 00054 & . 00085 & . 00027 & . 00061 & . 00093 \\
\hline 42 & Other fabricated metal products & . 00390 & . 00653 & . 00871 & . 00276 & . 00275 & . 00192 & . 00279 & . 00130 & . 00238 & . 00285 \\
\hline 43 & Engines and turbines & . 00597 & . 00061 & . 00110 & . 00034 & . 00049 & . 00023 & . 00033 & . 00009 & . 00026 & . 00052 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00396 & . 00244 & . 00204 & . 00042 & . 00031 & . 00018 & . 00020 & . 00055 & . 00039 & . 00048 \\
\hline 46 & Materials handling machinery and equipment & . 00076 & . 00043 & . 00024 & . 00083 & . 00010 & . 00006 & . 00007 & . 00004 & . 00008 & . 00013 \\
\hline 47 & Metalworking machinery and equipment & . 00110 & . 00101 & . 00130 & . 00075 & . 00044 & . 00029 & . 00035 & . 00016 & . 00033 & . 00053 \\
\hline 48 & Special industry machinery and equipment & . 00023 & . 00027 & . 00050 & . 00048 & . 00037 & . 00025 & . 00029 & . 00006 & . 00017 & . 00038 \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Table D
Detaile
(Total requ & (continued).
Industry-by-Commodity Total Requirements
a & producer & S' prices) & & & & & KEY: - & = Value & too sm & all to report \\
\hline [ & & Personal and repair services (except auto) & \[
\begin{array}{|r}
\text { Computer } \\
\text { and data } \\
\text { processing } \\
\text { services } \\
\hline
\end{array}
\] & \[
\begin{array}{r}
\text { Legal, } \\
\text { engineering, } \\
\text { accounting, } \\
\text { and related } \\
\text { services }
\end{array}
\] & Other
business and
professional
services
except medical & Advertising & \begin{tabular}{l}
Eating
and \\
drinking place
\end{tabular} &  & Amusements & Health
services & Educational and social services, and membership organizations \\
\hline number & Commodity number & (72B) & (73A) & (73B) & (73C) & (73D) & (74) & (75) & (76) & (77A) & (77B) \\
\hline 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 \\
\hline 2 & Other agricultural products & . 00145 & . 00076 & . 00065 & . 00088 & . 00204 & . 04675 & . 00109 & . 01100 & 00315 & . 00412 \\
\hline 3 & Forestry and fishery products & . 00045 & . 00028 & . 00023 & . 00029 & . 00091 & . 00741 & . 00051 & . 00053 & . 00054 & . 00083 \\
\hline 4 & Agricultural, forestry, and fishery services & . 00137 & . 00114 & . 00110 & . 00087 & . 00143 & . 00857 & . 00129 & . 00445 & . 00237 & . 00322 \\
\hline \(5+6\) & Metallic ores mining & . 00068 & . 00050 & . 00019 & . 00041 & . 00053 & . 00065 & . 00234 & . 00036 & . 00053 & . 00045 \\
\hline 7 & Coal mining & . 00247 & . 00113 & . 00087 & . 00105 & . 00215 & . 00390 & . 00261 & . 00255 & . 00162 & . 00197 \\
\hline 8 & Crude petroleum and natural gas & . 01261 & . 00494 & . 00425 & . 00818 & . 01055 & . 01524 & . 01823 & . 00912 & . 00905 & . 01160 \\
\hline 9+10 & Nonmetallic minerals mining & . 00075 & . 00040 & . 00030 & . 00050 & . 00115 & . 00131 & . 00097 & . 00074 & . 00099 & . 00114 \\
\hline 11
12 & New construction
Maintenance and repair construction & . 01839 & . 01207 & . 00969 & . 00985 & . 01765 & . 02403 & . 01832 & . 02327 & . 01565 & . 05516 \\
\hline 13 & Ordnance and accessories & . 00007 & . 00007 & . 00005 & . 00031 & . 00006 & . 00004 & . 00010 & . 00015 & . 00026 & . 00006 \\
\hline 14 & Food and kindred products & . 00321 & . 00223 & . 00184 & . 00291 & . 00390 & . 27559 & . 00264 & . 01192 & . 01325 & . 01724 \\
\hline 15 & Tobacco products & & & & & . 00001 & & & & & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00624 & . 00048 & . 00035 & . 00060 & . 00140 & . 00149 & . 00183 & . 00221 & . 00191 & . 00132 \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00116 & . 00026 & . 00020 & . 00030 & . 00107 & . 00097 & . 00107 & . 00050 & . 00068 & . 00066 \\
\hline 18 & Apparel & . 00579 & . 00016 & . 00012 & . 00047 & . 00036 & . 00032 & . 00063 & . 00150 & . 00161 & . 00065 \\
\hline 19 & Miscellaneous fabricated textile products & . 00311 & . 00016 & . 00015 & . 00019 & . 00038 & . 00087 & . 00110 & . 00071 & . 00136 & . 00059 \\
\hline \(20+21\) & Lumber and wood products & . 00440 & . 00272 & . 00239 & . 00266 & . 01117 & . 00547 & . 00407 & . 00477 & . 00334 & . 00889 \\
\hline \(22+23\) & Furniture and fixtures & . 00015 & . 00017 & . 00008 & . 00009 & . 00011 & . 00020 & . 00129 & . 00011 & . 00011 & . 00013 \\
\hline 24 & Paper and allied products, except containers & . 01287 & . 00925 & . 00825 & . 01035 & . 08712 & . 01946 & . 00929 & . 01057 & . 01108 & . 02166 \\
\hline 25 & Paperboard containers and boxes & . 00312 & . 00180 & . 00132 & . 00283 & . 00464 & . 01122 & . 00332 & . 00244 & . 00334 & . 00340 \\
\hline 26A & Newspapers and periodicals & . 00997 & . 00537 & . 00325 & . 00438 & . 27007 & . 01016 & . 00831 & . 01461 & . 00407 & . 01450 \\
\hline 26B & Other printing and publishing & . 02400 & . 01762 & . 01373 & . 01363 & . 28886 & . 01654 & . 01267 & . 01980 & . 01170 & . 05692 \\
\hline 27A & Industrial and other chemicals & . 01152 & . 00490 & . 00316 & . 00830 & . 01968 & . 01186 & . 01268 & . 00650 & . 02290 & . 00833 \\
\hline 27B & Agricultural fertilizers and chemicals & . 00061 & . 00035 & . 00028 & . 00041 & . 00097 & . 00490 & . 00064 & . 00280 & . 00114 & . 00112 \\
\hline 28 & Plastics and synthetic materials & . 00506 & . 00223 & . 00123 & . 00222 & . 00593 & . 00493 & . 00711 & . 00237 & . 00523 & . 00319 \\
\hline 29A & Drugs & . 00042 & . 00006 & . 00005 & . 00014 & . 00020 & . 00139 & . 00014 & . 00028 & . 01569 & . 00050 \\
\hline 29 B & Cleaning and toilet preparations & . 01304 & . 00041 & . 00047 & . 00172 & . 00103 & . 00133 & . 00145 & . 00081 & . 00193 & . 00132 \\
\hline 30 & Paints and allied products & . 00076 & . 00035 & . 00025 & . 00049 & . 00075 & . 00076 & . 00319 & . 00079 & . 00048 & . 00103 \\
\hline 31 & Petroleum refining and related products & . 01005 & . 00467 & . 00401 & . 00838 & . 00921 & . 01244 & . 01863 & . 00825 & . 00743 & . 01082 \\
\hline 32 & Rubber and miscellaneous plastics products & . 01177 & . 00731 & . 00371 & . 00672 & . 01326 & . 01865 & . 02703 & . 00576 & . 01674 & . 00926 \\
\hline \(33+34\) & Footwear, leather, and leather products & . 00516 & . 00011 & . 00027 & . 00026 & . 00021 & . 00015 & . 00019 & . 00096 & . 00021 & . 00093 \\
\hline 35 & Glass and glass products & . 00094 & . 00114 & . 00095 & . 00150 & . 00069 & . 00510 & . 00620 & . 00064 & . 00261 & . 00217 \\
\hline 36 & Stone and clay products & . 00155 & . 00100 & . 00075 & . 00117 & . 00143 & . 00315 & . 00291 & . 00132 & . 00150 & . 00245 \\
\hline 37 & Primary iron and steel manufacturing & . 00561 & . 00388 & . 00169 & . 00379 & 00356 & . 00529 & . 02349 & . 00304 & . 00304 & . 00417 \\
\hline 38 & Primary nonferrous metals manufacturing & . 00675 & . 00612 & & & \[
00316
\] & & & & & \\
\hline 39
40 & Metal containers
Heating, plumbing, and fabricated structural metal products & . 00039 & . 00017 & . 000011 & . 000032 & .00037
.00160 & \[
.00712
\] & \[
.0039
\] & . 00044 & \[
.0060
\] & . 00060 \\
\hline 41 & Screw machine products and stampings & . 00255 & . 00213 & . 00058 & . 00131 & . 00096 & . 00150 & . 01541 & . 00102 & . 00154 & . 00129 \\
\hline 42 & Other fabricated metal products & . 00552 & . 00451 & . 00186 & . 00280 & . 00322 & . 00376 & . 01527 & . 00272 & . 00283 & . 00384 \\
\hline 43 & Engines and turbines & . 00043 & . 00032 & . 00023 & . 00080 & . 00041 & . 00050 & . 00489 & . 00036 & . 00029 & . 00036 \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00036 & . 00023 & . 00018 & . 00077 & . 00035 & . 00092 & . 00090 & . 00045 & . 00030 & . 00044 \\
\hline 46 & Materials handling machinery and equipment & . 00011 & . 00009 & . 00008 & . 00051 & . 00011 & . 00016 & . 00019 & . 00010 & . 00009 & . 00011 \\
\hline 47 & Metalworking machinery and equipment & . 00083 & . 00064 & . 00040 & . 00208 & . 00070 & . 00065 & . 00194 & . 00048 & . 00049 & . 00060 \\
\hline 48 & Special industry machinery and equipment & . 00093 & . 00040 & . 00030 & . 00149 & . 00171 & . 00106 & . 00074 & . 00032 & . 00044 & . 00056 \\
\hline
\end{tabular}
Electric lighting and wiring equipment
Audio, video, and communication equipment
Electronic components and accessories
Electronic components and accessories
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
Pipelines, freight forwarders, and
State and local passenger transit
In-house transportation
Communications, except radio and TV
Radio and TV broadcasting
Electric services (utilitites)
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
Oega, engineering, accounting, and related services
Advertising
Eating and drinking places
Eating and drinking places
Automotive repair and services
Amusements
Health services
Educational and social services, and membership organizations
Federal Government enterprises
State and local government enterprises
State and local government en
General government industry
Household industry
Inventory valuation adjustment
Total industry output multiplier
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline . 00130 & . 00061 & . 00044 & . 00203 & . 00078 & . 00159 & . 00376 & . 00064 & . 00058 & . 00079 \\
\hline . 00254 & . 00151 & . 00099 & . 00241 & . 00200 & . 00169 & . 00860 & . 00134 & . 00127 & . 00158 \\
\hline . 00860 & . 09209 & . 00569 & . 00467 & . 00343 & . 00139 & . 00279 & . 00191 & . 00397 & . 00327 \\
\hline . 00454 & . 00035 & . 00030 & . 00077 & . 00060 & . 00078 & . 00775 & . 00155 & . 00059 & . 00108 \\
\hline . 00239 & . 00362 & . 00084 & . 00361 & . 00172 & . 00109 & . 00480 & . 00101 & . 00116 & . 00127 \\
\hline . 00754 & . 00010 & . 00007 & . 00013 & . 00012 & . 00016 & . 00030 & . 00014 & . 00013 & . 00028 \\
\hline . 00105 & . 00089 & . 00040 & . 00078 & . 00081 & . 00106 & . 00404 & . 00145 & 00096 & . 00162 \\
\hline . 00110 & . 00232 & . 00057 & . 00083 & . 00111 & . 00047 & . 00091 & . 00112 & . 00084 & . 00095 \\
\hline . 01732 & . 07340 & . 00502 & . 01216 & . 00613 & . 00261 & . 00918 & . 00332 & . 00561 & . 00503 \\
\hline . 00143 & . 00344 & . 00206 & . 00169 & . 00157 & . 00117 & . 00684 & . 00633 & . 00117 & . 00159 \\
\hline . 00014 & . 00009 & . 00008 & . 00015 & . 00012 & . 00016 & . 00437 & . 00013 & . 00010 & . 00014 \\
\hline . 00291 & . 00205 & . 00181 & . 00312 & . 00278 & . 00372 & . 10194 & . 00300 & . 00226 & . 00331 \\
\hline . 00033 & . 00035 & . 00025 & . 00040 & . 00031 & . 00033 & . 00087 & . 00027 & . 00066 & . 00032 \\
\hline . 00019 & . 00013 & . 00016 & . 00102 & . 00025 & . 00027 & . 00033 & . 00055 & . 00016 & . 00022 \\
\hline . 00195 & . 00178 & . 00046 & . 00104 & . 00130 & . 00064 & . 00183 & . 00071 & . 01719 & . 00170 \\
\hline . 01206 & . 00225 & . 00335 & . 00388 & . 00524 & . 00087 & . 00131 & . 00140 & . 00326 & . 00322 \\
\hline . 01704 & . 00137 & . 00201 & . 00264 & . 02012 & . 00278 & . 00197 & . 00465 & . 00154 & . 00565 \\
\hline . 00299 & . 00218 & . 00182 & . 00281 & . 00522 & . 00680 & . 00473 & . 00276 & . 00315 & . 00323 \\
\hline . 01516 & . 00704 & . 00766 & . 01046 & . 01965 & . 02608 & . 01998 & . 00978 & . 01084 & . 01349 \\
\hline . 00103 & . 00049 & . 00047 & . 00078 & . 00100 & . 00201 & . 00139 & . 00090 & . 00079 & . 00088 \\
\hline . 00590 & . 00731 & . 00567 & . 00729 & . 00635 & . 00684 & . 00785 & . 00534 & . 00551 & . 00630 \\
\hline . 00201 & . 00157 & . 00139 & . 00190 & . 00222 & . 00279 & . 00424 & . 00159 & . 00166 & . 00201 \\
\hline . 00031 & . 00023 & . 00019 & . 00030 & . 00055 & . 00072 & . 00050 & . 00029 & . 00033 & . 00034 \\
\hline . 03720 & . 00901 & . 01086 & . 02285 & . 02204 & . 05568 & . 02274 & . 03001 & . 01985 & . 04559 \\
\hline . 02110 & . 03058 & . 01945 & . 01950 & . 03672 & . 01241 & . 01791 & . 01661 & . 01537 & . 01788 \\
\hline . 00677 & . 00338 & . 00170 & . 00264 & . 20324 & . 00731 & . 00574 & . 01034 & . 00225 & . 00663 \\
\hline . 01866 & . 00830 & . 00655 & . 00745 & . 01377 & . 02919 & . 01650 & . 02030 & . 01175 & . 01448 \\
\hline . 00970 & . 00274 & . 00248 & . 00373 & . 00625 & . 01104 & . 00882 & . 00554 & . 00549 & . 00692 \\
\hline . 00275 & . 00067 & . 00069 & . 00081 & . 00120 & . 00319 & . 00206 & . 00183 & . 00173 & . 00203 \\
\hline . 03757 & . 04878 & . 01408 & . 02283 & . 04004 & . 08505 & . 06441 & . 03117 & . 03040 & . 03194 \\
\hline . 00261 & . 00138 & . 00123 & . 00302 & . 00242 & . 00403 & . 00817 & . 00281 & . 00214 & . 00478 \\
\hline . 02109 & . 01908 & . 01963 & . 01765 & . 01912 & . 02386 & . 22134 & . 02085 & . 01596 & . 02388 \\
\hline . 00548 & . 00279 & . 00296 & . 00391 & . 00565 & . 00550 & . 00846 & . 00434 & . 00568 & . 00570 \\
\hline . 07790 & . 04981 & . 07116 & . 04306 & . 05271 & . 07696 & . 06976 & . 09303 & . 07831 & . 13571 \\
\hline . 00493 & . 00500 & . 00732 & . 00630 & . 00530 & . 00574 & . 00604 & . 00483 & . 00490 & . 00555 \\
\hline 1.04748 & . 00299 & . 00205 & . 00360 & . 00365 & . 00526 & . 01218 & . 00457 & . 00376 & . 00400 \\
\hline . 01240 & 1.07041 & . 03112 & . 02170 & . 01445 & . 00940 & . 01509 & . 01082 & . 01661 & . 02545 \\
\hline . 04847 & . 03167 & 1.08604 & . 04207 & . 03209 & . 02230 & . 02413 & . 03858 & . 02843 & . 02879 \\
\hline . 05656 & . 05550 & . 10695 & 1.05241 & . 14819 & . 04727 & . 05168 & . 06285 & . 06142 & . 07342 \\
\hline . 00735 & . 00368 & . 00190 & . 00353 & . 21999 & . 00793 & . 00624 & . 01122 & . 00247 & . 00721 \\
\hline . 00635 & . 00646 & . 00541 & . 00829 & . 00659 & 1.01406 & . 00732 & . 00649 & . 01022 & . 01013 \\
\hline . 00889 & . 00786 & . 00653 & . 00849 & . 00984 & . 00941 & . 85502 & . 00982 & . 00818 & . 00938 \\
\hline . 00462 & . 00306 & . 00240 & . 00376 & . 09900 & . 01477 & . 00424 & 1.17992 & . 00228 & . 00872 \\
\hline . 00008 & . 00007 & . 00013 & . 00124 & . 00013 & . 00099 & . 00008 & . 00053 & 1.02179 & . 00015 \\
\hline . 00520 & . 00809 & . 00429 & . 00432 & . 00913 & . 00324 & . 00269 & . 00319 & . 00382 & 1.00682 \\
\hline . 00920 & . 00900 & . 01252 & . 00843 & . 00797 & . 01227 & . 01257 & . 00916 & . 01236 & . 01312 \\
\hline . 00803 & . 00327 & . 00344 & . 00332 & . 00562 & . 00999 & . 01347 & . 01065 & . 00551 & . 00740 \\
\hline & & & & & & & & & \\
\hline & & & & & & & & & \\
\hline 1.76926 & 1.69357 & 1.53494 & 1.49064 & 1.82499 & 2.14505 & 1.91528 & 1.81390 & 1.61338 & 1.82220 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Table D
Detaile
(Total re & \begin{tabular}{l}
(continued). \\
Industry-by-Commodity Total Requirements \\
quirements per dollar of delivery to final demand at
\end{tabular} & roducers' p & rices) & Va & too smal & to report \\
\hline Industry & & \begin{tabular}{r} 
Federal \\
\begin{tabular}{r} 
Government \\
enterprises
\end{tabular} \\
\hline
\end{tabular} & State and local government enterprises & General
government
industry & Household
industry & Inventory valuation adjustment \\
\hline number & Commodity number & (78) & (79) & (82) & (84) & (85) \\
\hline 1 & Livestock and livestock products & 0.00074 & 0.00083 & & - & - \\
\hline 2 & Other agricultural products & . 00081 & . 00303 & & - & \\
\hline 3 & Forestry and fishery products & . 00024 & . 00194 & & - & \\
\hline 4 & Agricultural, forestry, and fishery services & . 00038 & . 00626 & - & - & - \\
\hline \(5+6\) & Metallic ores mining & . 00042 & . 00136 & - & - & - \\
\hline 7 & Coal mining & . 00109 & . 00658 & - & - & - \\
\hline 8 & Crude petroleum and natural gas & . 00856 & . 04558 & - & - & - \\
\hline \(9+10\) & Nonmetallic minerals mining & . 00032 & . 00591 & - & - & - \\
\hline 11 & New construction & & & & - & \\
\hline 12 & Maintenance and repair construction & . 01056 & . 27649 & - & - & - \\
\hline 13 & Ordnance and accessories & . 00006 & . 00008 & - & - & - \\
\hline 14 & Food and kindred products & . 00329 & . 00230 & - & - & - \\
\hline 15 & Tobacco products & & & & - & \\
\hline 16 & Broad and narrow fabrics, yarn and thread mills & . 00157 & . 00121 & - & - & - \\
\hline 17 & Miscellaneous textile goods and floor coverings & . 00043 & . 00119 & - & - & - \\
\hline 18 & Apparel & . 00021 & . 00079 & - & - & - \\
\hline 19 & Miscellaneous fabricated textile products & . 00209 & . 00040 & - & - & - \\
\hline \(20+21\) & Lumber and wood products & . 00200 & . 02675 & & - & \\
\hline \(22+23\) & Furniture and fixtures & . 00104 & . 00020 & - & - & \\
\hline 24 & Paper and allied products, except containers & . 00625 & . 00627 & - & - & - \\
\hline 25 & Paperboard containers and boxes & . 00289 & . 00193 & - & - & - \\
\hline 26 A & Newspapers and periodicals & . 00160 & . 00300 & - & - & - \\
\hline 26 B & Other printing and publishing & . 01674 & . 00642 & - & - & - \\
\hline 27 A & Industrial and other chemicals & . 00327 & . 02952 & - & - & - \\
\hline 27B & Agricultural fertilizers and chemicals & . 00021 & . 00361 & - & - & - \\
\hline 28 & Plastics and synthetic materials & . 00142 & . 00495 & - & - & - \\
\hline 29 A & Drugs & . 00006 & . 00027 & - & - & - \\
\hline 29 B & Cleaning and toilet preparations & . 00095 & . 00104 & - & - & - \\
\hline 30 & Paints and allied products & . 00034 & . 00309 & - & - & \\
\hline 31 & Petroleum refining and related products & . 00904 & . 03460 & - & - & - \\
\hline 32 & Rubber and miscellaneous plastics products & . 00331 & . 01107 & - & - & - \\
\hline 33+34 & Footwear, leather, and leather products & . 00053 & . 00009 & - & - & - \\
\hline 35 & Glass and glass products & . 00039 & . 00200 & - & - & - \\
\hline 36 & Stone and clay products & . 00075 & . 01845 & - & - & - \\
\hline 37 & Primary iron and steel manufacturing & . 00393 & . 01289 & - & - & - \\
\hline 38 & Primary nonferrous metals manufacturing & . 00330 & . 01027 & - & - & - \\
\hline 39 & Metal containers & . 00016 & . 00047 & - & - & - \\
\hline 40 & Heating, plumbing, and fabricated structural metal products & . 00099 & . 01278 & - & - & - \\
\hline 41 & Screw machine products and stampings & . 00151 & . 00215 & - & - & - \\
\hline 42 & Other fabricated metal products & . 00166 & . 00818 & - & - & - \\
\hline 43 & Engines and turbines & . 00035 & . 00096 & - & - & - \\
\hline \(44+45\) & Farm, construction, and mining machinery & . 00023 & . 00379 & - & - & - \\
\hline 46 & Materials handling machinery and equipment & . 00015 & . 00029 & - & - & - \\
\hline 47 & Metalworking machinery and equipment & . 00045 & . 00144 & - & - & - \\
\hline 48 & Special industry machinery and equipment & . 00021 & . 00052 & - & - & - \\
\hline
\end{tabular}
```

General industrial machinery and equipmen
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 equipmen
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 equipmen
Miscellaneous manufacturing
Railroads and related services; passenger ground transportation
Motor freight transportation and warehousing
Water transportation
Water transportation
Air transportation
Pipelines, freight forwarders, and
SIte and local passen
Communications, except radio and TV
l
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
State and local government enterprises
General government industry
Household industry
Inventory valuation adjustment
Total industry output multiplier

```
\begin{tabular}{|c|c|}
\hline . 00087 & . 00252 \\
\hline . 00299 & . 01460 \\
\hline . 00074 & . 00176 \\
\hline . 00076 & . 00927 \\
\hline . 00064 & . 00313 \\
\hline . 00006 & . 00100 \\
\hline . 00091 & . 00514 \\
\hline . 00024 & . 00188 \\
\hline . 00167 & . 00340 \\
\hline . 00091 & . 00267 \\
\hline . 00060 & . 00016 \\
\hline . 01644 & . 00347 \\
\hline . 00126 & . 00038 \\
\hline . 00040 & . 00053 \\
\hline . 00045 & . 00174 \\
\hline . 00058 & . 00096 \\
\hline . 00103 & . 00235 \\
\hline . 00938 & . 00495 \\
\hline . 02722 & . 02394 \\
\hline . 00288 & . 00433 \\
\hline . 03236 & . 00482 \\
\hline . 00543 & . 00334 \\
\hline . 00099 & . 00052 \\
\hline . 01761 & . 02611 \\
\hline . 00636 & . 01605 \\
\hline . 00072 & . 00200 \\
\hline . 00810 & . 05158 \\
\hline . 00394 & . 03847 \\
\hline . 00264 & . 01935 \\
\hline . 01515 & . 03784 \\
\hline . 00122 & . 01339 \\
\hline . 01294 & . 02919 \\
\hline . 00317 & . 00727 \\
\hline . 02220 & . 05578 \\
\hline . 00144 & . 00318 \\
\hline . 00098 & . 00339 \\
\hline . 00477 & . 01146 \\
\hline . 00646 & . 07306 \\
\hline . 02278 & . 05146 \\
\hline . 00080 & . 00219 \\
\hline . 00309 & . 00494 \\
\hline . 00634 & . 01206 \\
\hline . 00067 & . 00183 \\
\hline . 00005 & . 00008 \\
\hline . 00092 & . 00214 \\
\hline 1.00162 & . 00897 \\
\hline . 00579 & 1.01474 \\
\hline & \\
\hline & \\
\hline 1.35307 & 2.14434 \\
\hline
\end{tabular}
㝘

\footnotetext{
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}

\section*{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:
\(\left.\begin{array}{ll}\text { IBM compatible } \boldsymbol{P C} \\
\text { /Acroread/ } & \begin{array}{l}\text { Acrobat readers for Windows } 3.11 \\
\text { and Windows 95/98. }\end{array} \\
\text { /Browser3/ } & \begin{array}{l}\text { HTML files to browse the } \\
\text { contents of the TSA-CD using a } \\
\text { web browser that supports frame } \\
\text { capabilities. }\end{array} \\
\text { HTML files to browse the } \\
\text { contents of the TSA-CD using a } \\
\text { web browser that does not support } \\
\text { frame capabilities. }\end{array}\right]\) /Document/ \begin{tabular}{l} 
Introduction, related articles, and \\
industry and commodity code \\
description.
\end{tabular}

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

\section*{Mac computer}
\begin{tabular}{ll} 
/Document/ & \begin{tabular}{l} 
Introduction, related articles, and \\
industry and commodity code \\
description.
\end{tabular} \\
/Data/ & \begin{tabular}{l} 
Data in ASCII and spreadsheet \\
format.
\end{tabular} \\
/Mac/Browser/ & \begin{tabular}{l} 
HTML files for browsing the CD. \\
/Mac/Extract/
\end{tabular} \begin{tabular}{l} 
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.
\end{tabular}
\end{tabular}

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 50 MB hard disk space.

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

\section*{Minimum Hardware and Software Requirements To Install CD Browser}

\section*{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.

\section*{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)

\section*{To Run the CD Browser and the Extract Program on Windows 95/98 or Windows NT}

\section*{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.

\section*{To Remove "TSA-CD Browser Application" from Hard Disk}

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

\section*{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 TSAMAC, then click icon "Extract."

\section*{For Queries about the CD-ROM and the Files It Contains}

Customer Service
Bureau of Transportation Statistics
U.S. Department of Transportation

400 7th Street, SW, Room 3430
Washington, DC 20590
Phone: 202-366-DATA
Fax: 202-366-3640
E-mail (product orders): orders@bts.gov
Statistics by phone: 1-800-853-1351
Statistics by e-mail: statistics@bts.gov
Fax-on-demand: 1-800-671-8012```


[^0]:    ${ }^{1}$ 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 StatisticsPriorities 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.

[^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.

[^2]:    ${ }^{2}$ 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]:    ${ }^{3}$ 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.

[^4]:    ${ }^{4}$ 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 air data.

    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

[^5]:    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.

[^6]:    ${ }^{8}$ 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.

[^7]:    ${ }^{9}$ 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.

[^8]:    ${ }^{11}$ 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 ser-vices-by industries is increased by the same amount as the sum of the in-house transportation industry output.

[^9]:    ${ }^{12}$ For more information on the derivation of the industry-bycommodity total requirements table, see U.S. Department of Commerce, Bureau of Economic Analysis, Benchmark InputOutput 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-

[^10]:    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.

[^11]:    ${ }^{14}$ 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.

[^12]:    ${ }^{15}$ 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.

[^13]:    ${ }^{16}$ 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.

[^14]:    ${ }^{17}$ 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.

[^15]:    ${ }^{18}$ 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.

[^16]:    55,57

[^17]:    

[^18]:    
    
    

