

Benchmark Input-Output Accounts for the U.S. Economy, 1987

THIS ARTICLE presents the 1987 benchmark input-output (I-O) accounts for the U.S. economy.¹ The first part of the article addresses the 1987 benchmark; it discusses the steps taken to speed up the benchmark's completion and then describes some improvements that have been made in the tables. The second part describes the concepts and methods underlying the U.S. I-O accounts and illustrates how the I-O tables are used.

The 1987 I-O estimates presented here are in summary form; that is, they are aggregated to 95 I-O industries from 480-industry detail. The make (production) of commodities by industries is shown in table 1, the use (consumption) of commodities by industries in table 2.1, and the components of value added by industries in table 2.2. The following summary I-O tables will be presented in the May SURVEY OF CURRENT BUSINESS: Commodity-by-industry direct requirements per dollar of industry output; commodity-by-commodity total requirements, direct and indirect, per dollar of delivery to final use; and industry-by-commodity total requirements, direct and indirect, per dollar of delivery to final use. All of the summary tables, as well as the detailed tables, are available on diskette (see the box on page 90).

This article includes supplementary tables that relate the I-O accounts to the national income and product accounts (NIPA's); these tables permit more extensive analyses of the I-O estimates. The article also contains two appendixes: Appendix A provides a list of selected SURVEY articles about the I-O accounts; appendix B provides a concordance between the industry codes used in the I-O accounts and the 1987 Standard Industrial Classification (SIC) codes.

The 1987 benchmark I-O estimates will be incorporated into the NIPA's during the next comprehensive NIPA revision, which is tentatively scheduled for release in late 1995.

1. Earlier benchmarks covered 1947, 1958, 1963, 1967, 1972, 1977, and 1982. BEA also has produced annual I-O accounts based on less comprehensive source data. The most recent annual accounts, for 1987, were presented in the April 1992 SURVEY OF CURRENT BUSINESS.

The 1987 Benchmark Accounts

In recognition of user needs—expressed, for example, by the interagency Working Group on the Quality of Economic Statistics—the Bureau of Economic Analysis (BEA) has developed a program to speed up the availability of I-O accounts.² For I-O benchmarks, which are prepared primarily from the Census Bureau's quinquennial economic censuses, the long-term goal is to make the I-O tables available within 5 years of a census year and within 1 year after release of all economic census data.

For the 1987 benchmark, BEA devised a set of procedures that captured the most important parts of the 1987 economic census data, but that abbreviated the normal time-consuming process of assembling a wide variety of other data for constructing components not based on economic census data. These procedures enabled BEA to complete the 1987 tables faster than otherwise would have been the case and to turn its re-

2. See "Improving the Quality of Economic Statistics: The 1992 Economic Statistics Initiative," SURVEY 71 (March 1991): 4-5.

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sources toward the 1992 benchmark at the earliest possible time.

Procedures for the 1987 benchmark

In preparing benchmark I-O accounts, BEA relies heavily on economic census data covering mining, construction, manufacturing, wholesale trade, retail trade, transportation, and selected services. The data are released by the Census Bureau as they are completed, over a period of

time that usually begins about 1 year after the end of the census year and continues for about 30 months. (For example, the planned release dates for the 1992 census year extend from early 1994 through late 1996.) To estimate outputs and inputs and to allocate commodities across industries and final users, BEA must augment the economic census data with data from hundreds of other sources, such as the U.S. Department of Agriculture, U.S. Department of Transportation,

Table A.—Principal Data Sources for Industry or Commodity Outputs, 1987 Benchmark

Industry or Commodity	Source
Agriculture, forestry, and fisheries	U.S. Department of Agriculture farm statistics
Mining	Census Bureau <i>1987 Census of Mineral Industries</i>
Construction	Census Bureau <i>1987 Census of Construction Industries, Census of Service Industries</i> , and value of construction put-in-place series
Manufacturing	Census Bureau <i>1987 Census of Manufactures</i>
Transportation	Interstate Commerce Commission <i>Transportation Statistics</i> Association of American Railroads <i>Freight Commodity Statistics</i> Census Bureau <i>1987 Census of Transportation, Motor Freight Transportation and Warehousing Survey</i> , and <i>Services Annual Survey</i> U.S. Army Corps of Engineers <i>1987 Waterborne Commerce of the U.S.</i> Department of Transportation <i>Air Carrier Financial Statistics</i> and <i>National Transportation Statistics</i>
Communications	Trade sources annual reports Federal Communications Commission <i>Statistics of Communication Common Carriers</i>
Utilities	Department of Energy—Energy Information Administration <i>Natural Gas Annual, Electric Sales and Revenue, and Financial Statistics of Selected Electric Utilities</i> American Gas Association <i>Gas Facts</i> Census Bureau <i>1987 Census of Mineral Industries</i> Trade sources financial statements
Wholesale and retail trade	Census Bureau <i>1987 Census of Retail Trade</i> and <i>1987 Census of Wholesale Trade</i>
Finance	Federal Deposit Insurance Corporation <i>Statistics on Banking</i> Federal Reserve Board <i>Annual Report</i> Federal Home Loan Bank Board financial reports Office of Thrift Supervision <i>Saving and Home Financing Source Book</i> National Credit Union Administration <i>Yearend Statistics for Federally Insured Credit Unions</i> HSN Consultants, Inc. <i>The Nilson Report</i> Federally sponsored credit agencies annual reports State and Federal regulatory agencies annual reports
Insurance	Trade sources financial statements Health Care Financing Administration private health insurance data A. M. Best and Company <i>Best's Aggregates and Averages</i> Mortgage Insurance Companies of America <i>Factbook</i>
Real estate	National Association of Realtors <i>1987 Home Sales Yearbook</i> Census Bureau <i>1987 Census of Housing, 1987 Census of Construction Industries, 1987 Census of Agriculture</i> , and <i>1987 Enterprise Statistics</i> Internal Revenue Service tabulations of tax returns
Services	Census Bureau <i>1987 Census of Service Industries</i> Internal Revenue Service tabulations of tax returns Bureau of Labor Statistics tabulations of wages and salaries covered by State unemployment insurance U.S. Department of Education <i>Digest of Educational Statistics</i>
Government enterprises	Federal and State and local government agency reports Office of Management and Budget Federal budget data Census Bureau <i>1987 Census of Governments</i>
Noncomparable imports	Census Bureau general imports and imports for consumption data Estimated as part of the balance of payments accounts
Scrap	Census Bureau <i>1987 Census of Manufactures</i>
General government	Estimated as part of the national income and product accounts
Household	Estimated as part of the national income and product accounts
Inventory valuation adjustment	Estimated as part of the national income and product accounts

U.S. Department of Treasury, Office of Management and Budget, and other government agencies and private organizations.

In preparing the 1987 benchmark I-O accounts, BEA used standard I-O procedures for the estimates of industry and commodity output, except for new construction (see table A). For previous benchmarks, approximately 50 construction industries were analyzed and estimated separately. For the 1987 benchmark, the economic census total for construction output was distributed among only five industries—four related to mining and one “all other” category, which covers the remaining industries within new construction and maintenance and repair construction.

BEA also used standard I-O procedures for the estimates of industry intermediate inputs where hard data were readily available—primarily for material inputs from the economic censuses. In previous benchmarks, the standard procedure has been to supplement these economic census data with estimates of other intermediate inputs from hundreds of other information sources. For the 1987 benchmark, BEA estimated these intermediate inputs by first extrapolating 1982 benchmark estimates to 1987 based on the change in industry output, and then by adjusting the extrapolated estimates to be consistent with—or to balance—commodity and industry outputs (see table B).

Value added components were prepared using the same procedures as in the past.³ Data

3. Value added equals gross output (sales or receipts and other operating income, plus inventory change) minus intermediate inputs (consumption of goods and services purchased from other industries or imported). It includes compensation of employees, indirect business tax and nontax liability, and other value added.

for compensation of employees and for indirect business tax and nontax liability are from the U.S. Department of Treasury, Office of Management and Budget, Bureau of Labor Statistics, and Census Bureau; NIPA estimates are also used.

For most final use components—personal consumption expenditures, gross private fixed investment, change in business inventories, exports of goods and services, and imports of goods and services—BEA used the same data and procedures as in the past.⁴ Most estimates of personal consumption expenditures and gross private fixed investment were prepared with the commodity-flow method.⁵ Inventories held by industries were based on economic census and Internal Revenue Service data. Exports and imports of goods and services were based on data from the Census Bureau and the U.S. balance of payments accounts.

For Federal Government and State and local government final use components, a combination of new and old procedures was used. Total expenditures by type of purchase, for Federal Government and for State and local governments, were obtained from the NIPA's, as in the past. Government purchases by I-O commodity were

4. In the I-O accounts, change in business inventories covers commodities wherever held; capital purchases—producers' durable equipment and structures—are included in gross private fixed investment; and imported commodities are included with domestically produced commodities in both final use and intermediate use.

5. The commodity-flow method generally begins with an estimate of the total supply of a commodity available for domestic uses; it then either attributes a fixed percentage of supply to final users, or it adjusts for intermediate purchases and attributes the residual to final users. For more information, see U.S. Department of Commerce, Bureau of Economic Analysis, *Personal Consumption Expenditures*, Methodology Paper Series MP-6 (Washington, DC: U.S. Government Printing Office, June 1990): 31-34.

Table B.—Principal Data Sources and Methods for Estimating Intermediate Inputs and Components of Value Added, 1987 Benchmark

Component	Source or method
Intermediate inputs	For census-covered industries, selected purchased services; in addition, for manufacturing and mining, materials consumed from 1987 economic censuses. For gas and electric utility industries, selected inputs from trade sources; for agriculture industries, inputs from U.S. Department of Agriculture. For most remaining industries, 1982 estimate extrapolated by change in industry output and adjusted to balance commodity and industry outputs.
Compensation of employees	For census-covered industries, payroll and benefits from Census Bureau 1987 economic censuses. For noncensus-covered industries, Bureau of Labor Statistics tabulations of wages and salaries covered by State unemployment insurance; other labor income estimated as part of the national income and product accounts.
Indirect business tax and nontax liability.	For Federal excise taxes, collections from Internal Revenue Service; for customs duties, receipts from <i>Monthly Treasury Statement</i> ; and for nontaxes (such as fines), receipts from the <i>Budget of the United States</i> , prepared by the Office of Management and Budget. For State and local governments, receipts from Census Bureau 1987 economic census and annual and quarterly surveys.
Other value added	For most industries, residual method: Total industry output less total intermediate inputs, compensation of employees, and indirect business tax and nontax liability.

estimated using 1982 benchmark I-O estimates as weights, a new procedure for the 1987 estimates.

Some procedures used to prepare the 1987 benchmark I-O accounts suggest certain caveats. First, the technology represented by the relationships of commodity inputs to industry outputs in the use table (as well as in the commodity-by-commodity and industry-by-commodity total requirements tables) is a hybrid of that in 1987 and that represented in the 1982 benchmark I-O accounts. Second, other value added was derived as a residual for most industries after subtracting total intermediate inputs, compensation of employees, and indirect business tax and nontax liability from total industry output.⁶ (For a few industries, estimates of other value added were available from other data sources; for example, other value added estimates for agriculture are from the U.S. Department of Agriculture.) As a result, the other value added component includes estimating errors from other parts of the I-O accounts. For studies requiring comparisons of value added components, users may find BEA's estimates of gross product originating by industry more useful.⁷

Improvements and other changes

The 1987 benchmark I-O tables differ from previous tables in several respects. The summary 1987 benchmark tables, which begin on page 98, cover 95 I-O industries instead of the 85 I-O industries used previously. For the new summary tables, 14 I-O industries were aggregated into 7, and 12 I-O industries were disaggregated into 30.⁸ With one exception, the aggregations involved small, declining industries; new construction and repair and maintenance construction were aggregated because of the abbreviated procedures used for the 1987 benchmark. The disaggregations involved large, growing industries. Appendix B shows the new aggregations and disaggregations of I-O industries. (The disaggregated industries

are designated with an alphabetical suffix to the 1982 benchmark I-O industry number.)

The industry classification of the I-O accounts is now based on the 1987 SIC; the 1982 benchmark tables and subsequent annual tables were based on the 1972 SIC. In addition, the 1987 benchmark tables incorporate all of the 1991 comprehensive NIPA revisions, including the change from gross national product to gross domestic product (GDP).⁹

Introduction to the U.S. I-O Accounts

The I-O accounts for the U.S. economy show the production of commodities by each of nearly 500 industries, in the "make" table, and the consumption of commodities by these industries, in the "use" table. **Chart 1** illustrates the make and use tables in matrix form in, respectively, the upper and lower panels. The commodity composition of GDP and the industry distribution of value added are also shown in the use table.

BEA prepares benchmark I-O accounts primarily from data that the Census Bureau collects every 5 years in its economic censuses for mining, construction, manufacturing, wholesale trade, retail trade, transportation, and selected services, as well as in its census of governments. Data from the U.S. Department of Agriculture, U.S. Department of Transportation, U.S. Department of Treasury, and other government agencies and private sources are also used.

The I-O accounts show compactly the relationships between all industries in the economy and all the commodities they produce and use. Estimates for commodities are typically shown at producers' prices.¹⁰ When producers' prices are used, transportation costs and wholesale and retail trade margins are treated as commodities that are separately produced and used by industries (see the section "**Definitions and conventions for valuation**").

The I-O accounts consist of five basic sets of tables: (1) Make, (2) use, (3) commodity-by-industry direct requirements, (4) commodity-by-commodity total requirements, and (5) industry-

6. For most I-O industries, other value added includes consumption of fixed capital, proprietors' income, corporate profits, and business transfer payments. For banking and for credit agencies other than banks, other value added also includes net interest. For owner-occupied dwellings and for real estate agents, managers, operators, and lessors, it also includes rental income. For the six industries covering the Federal Government and State and local government enterprises, it also includes current surplus less government subsidy payments.

7. See Robert P. Parker, "Gross Product by Industry, 1977-90," *SURVEY* 73 (May 1993): 33-54; and Robert E. Yuskavage, "Gross Product by Industry, 1988-91," *SURVEY* 73 (November 1993): 33-44.

8. The net addition of industries resulting from the aggregations and disaggregations of 1982 I-O industries is 11. In addition, the rest of the world is no longer technically considered to be an industry because of the change from GNP to GDP as the primary measure of final demand. Thus, there is a net increase of 10 industries in the 1987 benchmark.

9. The 1991 NIPA revision was described in the following *SURVEY* articles: "A Preview of the Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," September 1991; "A Preview of the Comprehensive Revision of the National Income and Product Accounts: New and Redesignated Tables," October 1991; and "The Comprehensive Revision of the U.S. National Income and Product Accounts: A Review of Revisions and Major Statistical Changes," December 1991.

10. Estimates for commodities in purchasers' prices can be derived by adjusting for transportation costs and for wholesale and retail trade margins; these costs and margins are included on the diskettes that can be ordered for the 1987 benchmark I-O (see the **the box** on page 90).

CHART 1

The U.S. Input-Output Accounts

MAKE TABLE: INDUSTRIES PRODUCING COMMODITIES

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

USE TABLE: COMMODITIES USED BY INDUSTRIES AND FINAL USES

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

TOTAL COMMODITY OUTPUT
 PRIMARY PRODUCT OF THE INDUSTRY
 TOTAL INDUSTRY OUTPUT

* The I-O accounts use two classification systems for industries and another for commodities; both generally use the same I-O numbers and titles. "Other" includes government enterprises and I-O special industries; for more information, see "Appendix B—Classification of the 1987 Benchmark Input-Output Accounts."

** For most industries, this item includes consumption of capital, proprietors' income, corporate profits and business transfer payments. For banking and credit agencies other than banks, it also includes net interest of owner-occupied dwellings and for real estate agents, managers, operators and lessors, it also includes rental income for the six industries covering the Federal Government and State and local government enterprises, it also includes current sales less government subsidies.

by-commodity total requirements.¹¹ For the 1987 benchmark, details for the value added components of the use table and of the commodity-by-industry direct requirements table are contained in separate tables. Only the make and use tables are presented in this article. The remaining three tables and their descriptions will be published in the May SURVEY.

The make table

The make table (table 1), in the upper panel of chart 1, shows the dollar value, in producers' prices, of each commodity produced by each industry. In each row, there is one "diagonal" cell that shows the value of production of the commodity for which the corresponding industry has been designated the "primary" producer. Entries in the other cells in the row show the value of production of commodities for which the industry is a "secondary" producer.¹² For example, the newspapers and periodicals industry (row 26A) is the primary producer of the newspapers and periodicals commodity (column 26A). It is also a secondary producer of the following commodities: Paper and allied products, except containers (column 24); other printing and publishing (column 26B); rubber and miscellaneous plastics products (column 32); miscellaneous manufacturing products (column 64); and advertising (column 73D). The sum of all entries in a row is the total output by the industry.

The entries in each column of the make table represent the production by both primary and secondary producers of the commodity named at the head of the column. For example, computer and data processing services (column 73A) includes the output by the primary producer—the computer and data processing services industry (row 73A)—and by the following secondary producers: Computer and office equipment (row 51); audio, video, and communication equipment (row 56); scientific and controlling instruments (row 62); finance (row 70A); and other business and professional services, except medical (row 73C). The sum of all entries in a column is the total output of the commodity.

An industry's share of the production of a commodity can be calculated from the values in

the make table by expressing the entries in a given column as a percentage of the column total. From the 1987 benchmark, for example, column 62 in table 1 shows that the production of scientific and controlling instruments (commodity 1-0 62) totaled \$86 billion, of which the scientific and controlling instruments industry (industry 1-0 62) produced \$80 billion, or about 93 percent of the total.

The industry and commodity output totals for this table are estimated primarily from the quinquennial economic censuses, conducted by the Census Bureau (see table A). The economic census data, which are on an SIC basis, cover most establishments with payrolls. Information from other government and private sources is used for 1-0 industries not covered by the economic census data, such as finance, insurance, real estate, utilities, and schools and religious organizations. Data from other government agencies are also used to supplement the economic census data for some industries.

BEA makes two adjustments to the economic census data. First, it adds estimates of the output for establishments without payrolls that are not covered by the economic census data. Second, BEA adjusts for misreported tax return information; this adjustment is necessary because in some cases, the Census Bureau data for expenses and receipts reflect tax return records rather than information collected directly from survey reports.¹³

BEA also adjusts the economic census data based on the SIC to the 1-0 industry classification system to attain greater homogeneity in the input structures for commodities produced by an 1-0 industry. This type of adjustment is discussed in the section "Definitions and conventions for classification."

The use table

The use table (table 2) is presented in two parts: Table 2.1 shows the dollar value, in producers' prices, of each commodity used by each industry and by each final user; table 2.2 shows detail, in producers' prices, on the value added components used by each industry in table 2.1 to produce its output. In table 2.1, entries in a row show the use of the commodity named at the beginning of the row by each industry or final user named at the head of the column. For example, the commodity radio and TV broadcasting services

11. In the designation of 1-0 tables, the row is referred to first and the column second. Thus, tables in which commodities appear in the rows and industries in the columns are designated "commodity-by-industry" tables, and tables in which industries appear in the rows and commodities in the columns are designated "industry-by-commodity" tables.

12. Primary and secondary products and the classification of industries are discussed further in the section "Definitions and conventions for classification."

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

(row 67) is used by the *industries* radio and TV broadcasting (column 67) and advertising (column 73D), as well as by persons—that is, as part of personal consumption expenditures (column 91).

In table 2.2, industries are shown in the rows, and total output, total intermediate inputs, and the components of value added are shown in the columns. For example, the total output for the radio and TV broadcasting industry (row 67) was \$29 billion, of which \$10 billion was labor compensation, \$1 billion was indirect business tax and nontax liability, \$3 billion was other value added, and \$16 billion was intermediate inputs. The column totals for industries in table 2.1 equal the right-hand row totals in table 2.2. For example, the *column total* for the radio and TV broadcasting industry in table 2.1 equals *the row total* for that industry in table 2.2, or \$29 billion. (The relationship between value added and other parts of the use table is depicted in the bottom panel of [chart 1](#).)

In table 2.1, industry uses sum to total intermediate use, shown in the right-hand column of the industries portion, and the final uses sum to GDP, shown in the right-hand column of the final uses portion. The total output of each commodity is the sum of all intermediate uses of the commodity by industries and all sales to final users. The total output of each industry is the sum of all intermediate inputs consumed by the industry—that is, the raw materials, semifinished products, and services that the industry purchases—and of the value added by the industry. For the economy as a whole, the total of all final uses of commodities equals the total value added by all industries, or GDP.

The rows in table 2.1 show the wide variation in the proportion of commodity output that is sold directly to final users. For example, the 1987 use table shows that some commodities, such as apparel (the primary product of industry I-O 18), were sold almost entirely to final users; therefore, the demand for these commodities is affected primarily by changes in the buying patterns of final users. Other commodities, such as industrial and other chemicals (I-O 27A), were used almost entirely as intermediate inputs. For these commodities, the connection between production and final uses is primarily indirect and can be traced mainly through industrial users' sales of commodities to final users.

The rows also show the wide variation in the direct usage of commodities by industries. For example, the 1987 use table shows that paper and

allied products, except containers (I-O 24), with \$81 billion of commodity output, were used by nearly all industries. The largest user was other printing and publishing (I-O 26B), which used \$15 billion, or 18 percent of total commodity output. In contrast, metal containers (I-O 39), with \$12 billion of commodity output, were used by only 20 industries. The largest user was food and kindred products (I-O 14), which used \$9 billion, or 74 percent of total commodity output.

The rows in table 2.2 show the wide variation in the use of value added inputs by industries to produce their outputs. For example, the real estate and royalties industry (I-O 71B) required \$280 billion of value added inputs, or 74 percent of its total output; of this, \$27 billion was for labor compensation, \$53 billion was for indirect business tax and nontax liability, and \$200 billion was for other value added. In contrast, the livestock and livestock products industry (I-O 1) required \$15 billion of value added inputs, or 17 percent of its total output; of this, \$3 billion was for labor compensation, \$1 billion was for indirect business tax and nontax liability, and \$11 billion was for other value added.

BEA estimates intermediate inputs in the use table through a number of processes. The economic censuses are the primary source for data on intermediate inputs; however, BEA must supplement these data to cover establishments without payrolls and industries not covered by the economic censuses. BEA also separates information for some broader categories of purchases into I-O commodities; for example, BEA separates data on purchases of office supplies into purchases of postal service, paper, envelopes, etc., using commodity-shipment proportions and other available information. BEA also uses related information that is available to make I-O estimates of inputs for which there is little hard data. For example, fees paid by industries for accounting services are estimated on the basis of industry employment. ([Table B](#) shows the principal methods and sources used for the 1987 benchmark.)

BEA estimates the final uses of commodities either by incorporating data into the I-O accounts directly from other sources after minor adjustment, or—for personal consumption expenditures and producers' durable equipment—by employing the commodity-flow method. An example of source data incorporated directly with only minor adjustments is exports of goods, which is obtained from the balance of payments accounts.

In the commodity-flow method, an estimate is first developed for the total supply of a commodity for domestic use. Then either a fixed percentage of total supply is attributed to final users, or the total supply is adjusted for intermediate purchases and the residual is attributed to final users.¹⁴

An example of commodity flow using the fixed percentage method can be illustrated by examining its use in estimating personal consumption expenditures for polishes and sanitation goods; in this case, approximately 40 percent of total output is allocated to personal consumption expenditures. An example of commodity flow using the residual method can be illustrated by examining its use in estimating personal consumption expenditures for wheat flour. First, an estimate is made for the total domestic supply of wheat flour: Total wheat flour sales by domestic firms, minus wheat flour exports, plus wheat flour imports. Next, an estimate is made for total consumption of wheat flour by intermediate users, including food manufacturers—of bread, cookies, crackers, and frozen bakery products—and restaurants. The wheat flour consumed by all intermediate users is then subtracted from domestic supply; government purchases of wheat flour are also subtracted. The residual is then assumed to be the wheat flour purchased by persons and is included in personal consumption expenditures.

The components of value added (see footnotes 3 and 6) are estimated using different methods. Compensation of employees by industry is estimated directly from source data. Indirect business tax and nontax liability by industry is either estimated directly from source data or is extrapolated based on the 1982 benchmark. For most industries, other value added is derived as a residual after subtracting total intermediate inputs, compensation of employees, and indirect business tax and nontax liability from total industry output (that is, industry sales receipts). For a few industries, estimates of other value added were available from other data sources; for example, other value added estimates for agriculture are from the U.S. Department of Agriculture.

Uses of the I-O accounts

The I-O accounts have a variety of statistical and analytical uses. For example, they can provide an economic framework to assess data quality and completeness, and they can be used as an

analytical economic tool to study industry production. This section describes some uses of the I-O accounts in preparing economic statistics and in studying interindustry relationships within the economy, as well as some of the assumptions analysts must make when they use I-O accounts as an economic tool.

The use of I-O accounts requires certain simplifying assumptions. Among these is the assumption that interindustry relationships established in the I-O accounts for a benchmark year will remain stable over time and through a range of output levels. Users of I-O tables generally must make the assumption that changes in interindustry relationships occur only gradually—for example, that the interindustry relationships represented in the 1987 benchmark are applicable for a band of years surrounding 1987. Also, I-O accounts implicitly assume that all adjustments to a change in final demand are achieved instantly and without price changes. For analyses that require different assumptions, other economic tools may be more appropriate.

Statistical uses.—The I-O accounts are used in several ways to prepare economic statistics. For NIPA comprehensive revisions, they are the single most important regular source for estimating the expenditure components of GDP and for parts of several income components. Because the I-O accounts have an internally consistent framework that tracks the input and output flows in the economy, any estimating weaknesses in the national economic accounts become readily apparent when they are compared with the I-O accounts. For the NIPA revision, the NIPA estimates of personal consumption expenditures and producers' durable equipment are based on the final use components of the I-O benchmark accounts, with additional adjustments to reflect the definitional, classificational, and statistical changes incorporated into the NIPA's since completion of the I-O accounts.¹⁵

The I-O benchmark accounts are also used as a framework to weight and calculate index numbers for price, volume, and value. For example, BEA uses the I-O-based detailed estimates of producers' durable equipment to weight producer price indexes for calculating the constant-dollar NIPA estimates of producers' durable equipment.

Analytical uses.—The I-O accounts are an important analytical tool because they show the interdependence among various producers and

14. See *Personal Consumption Expenditures*, pages 31–34.

15. For more information on the I-O accounts and their relationship to the NIPAs, see *Personal Consumption Expenditures*, pages 17 and 31–34.

consumers in the economy. Because of their industry detail, the I-O accounts can be used for analyzing a wide range of related empirical issues.

The main contribution of the I-O accounts to economic analysis is that they permit analysts to measure the repercussions that changes in final uses have on industries and commodities, both directly and indirectly. For example, an increase in consumer demand for motor vehicles will initially have a direct effect that will increase the production of cars, which in turn will have indirect effects, including increased steel production. Increased steel production will in turn require more chemicals, more iron ore, more limestone, and more coal. Increased car production will also require more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. Further, increased production of synthetic fibers will require more electricity and containers, and so on.

These repercussions are only a few in the continuing chain resulting from the initial increase in consumer demand for motor vehicles. Through I-O analysis, it is possible to trace this chain throughout the economy, measuring the direct and indirect effects on the output of each industry and commodity. Within the I-O accounts, these effects are quantified in coefficient tables. These tables can be used, for example, to determine the impact of a disaster on the economy or, when supplemented with additional information, to compute the effect on employment of an increased demand for U.S. exports. The Federal Emergency Management Agency, the U.S. Department of Defense, and the Census Bureau, among others, have found the I-O accounts to be useful for such studies.

When the U.S. I-O accounts are augmented with regional data, they can show economic impacts by region. For example, a State Government agency has used regional I-O accounts to estimate the economic effects of a high-speed intercity rail project on the State's economy, and a private consulting group has used regional I-O accounts to analyze the impact of a sports stadium on the local economy. BEA's Regional Economic Analysis Division helps planners and analysts estimate the regional impacts of project and program expenditures by industries.¹⁶

Definitions and conventions for classification

The I-O accounts use two classification systems, one for industries and another for commodities, but both classification systems generally use the same I-O numbers and titles. In the I-O industry classification system, output typically represents the total output of all establishments in each industry, regardless of whether the commodities produced are primary to the industry (that is, make up the largest proportion of the establishment's output) or are secondary (that is, primary to another industry). In the I-O commodity classification system, output represents the total output of the product or service, regardless of the classification of the establishments that produce it. This section discusses first the I-O industry classification system and then the I-O commodity classification system.

The I-O *industry classification system* is based on the SIC system, which classifies establishments into industries based on their primary products or services.¹⁷ Establishments are defined as economic units that are generally at a single physical location where business is conducted or where services or industrial operations are performed. Establishments are classified into an SIC industry on the basis of their primary products or services.¹⁸

The I-O industry classification system adjusts the SIC system primarily to attain a greater degree of homogeneity in the structure of inputs to the commodities produced by an I-O industry. The adjustments, which affect I-O-defined primary and secondary production, are called, in I-O terminology, redefinitions and reclassifications.¹⁹ The I-O system also provides for other industries and "special" industries that the SIC does not; these are discussed later in this section.

In a redefinition, the input purchases and the output sales receipts for a particular secondary product or service are moved from the SIC-defined industry to the I-O-defined industry. The input structure of the redefined product or service is assumed to be the same as that for the I-O industry in which the product or serv-

17. The I-O two-digit and six-digit industry categories and their composition in terms of the 1987 SIC codes are given in appendix B.

18. For a discussion of the SIC system, see Office of Management and Budget, Executive Office of the President, *Standard Industrial Classification Manual: 1987*. (Springfield, Virginia: National Technical Information Service, 1987): 11-18.

19. Fewer I-O adjustments to SIC-defined industries may be necessary for the 1997 and subsequent benchmark I-O accounts when the North American Industry Classification System (NAICS) is completed. The proposed NAICS is expected to be a common international system—covering the United States, Canada, and Mexico—for grouping establishments by similarity of production process. For a discussion, see Jack E. Triplett, "Economic Concepts for Economic Classifications," *SURVEY* 73 (November 1993): 45-56.

16. A typical I-O table in the Regional Input-Output Modeling System is derived mainly from two data sources: (1) The U.S. benchmark I-O accounts and (2) BEA's four-digit SIC county wage-and-salary data. For more information, see U.S. Department of Commerce, Bureau of Economic Analysis, *Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System (RIMS 11)*, Second Edition (Washington, DC: U.S. Government Printing Office, 1992).

ice is primary; this assumption is called, in I-O terminology, the commodity-based technology assumption.²⁰

An example of a redefinition involves restaurants located in hotels. Both inputs and outputs of these restaurants are moved from the hotels and lodging places industry (the industry of the establishment where the product or service occurs) to the eating and drinking places industry (the industry where the product or service is primary). The input structure related to the output of restaurants located in hotels is assumed to be similar to that for the eating and drinking places industry.

Redefinitions are used in the following cases:

- Construction work (both new construction and maintenance and repair) performed by all industries is redefined to the construction industries. Construction work performed by and for nonconstruction industries is referred to as “force-account construction.”
- Manufacturing in trade and service industries is redefined to the appropriate manufacturing industries.
- Retail trade in service industries is redefined to the retail trade industry. Services in the trade industries are redefined to service industries. Some services are also redefined within service industries.
- Manufacturers’ wholesale sales of purchased goods (resales) are redefined to the wholesale trade industry.
- Rental activities of all industries are redefined to the real estate and rental industries.
- The preparation of meals and beverages in most industries is redefined to the eating and drinking industry.

Redefinitions affect a number of industries; however, for most industries, the total output involved is small. Examples of industries with large dollar amounts of redefinitions of secondary products or services out of or into the industry are automobile and repair services (I-O 75), with \$131 billion of total industry output, of which \$40 billion has been redefined out to a number of other industries and \$1 billion has been redefined

in from a number of other industries; eating and drinking places (I-O 74), with \$209 billion of total industry output, \$34 billion out and \$½ billion in; wholesale trade (I-O 69A), with \$424 billion of total output, \$7 billion out and \$69 billion in; and retail trade (I-O 69B), with \$421 billion of total output, \$25 billion out and \$46 billion in.

In a reclassification, the I-O system creates a secondary product or service from an SIC-defined primary product or service. For these reclassified products and services and for all other SIC-defined secondary products and services that are not redefinitions, the I-O system moves the output receipts from the SIC-defined product or service class to the I-O-defined primary product or service class within the same I-O industry. In this case, total output for the affected industry remains unchanged; however, output for each affected commodity group changes.

An example of a reclassification involves the newspaper industry. The SIC defines the primary product or service classes of this industry as newspaper subscriptions and sales and newspaper advertising. The I-O system considers the primary product or service of the newspaper industry to consist of newspaper subscriptions and sales. It considers the advertising component to be secondary and, therefore, moves advertising receipts or output to the advertising commodity group. Total output for the I-O newspaper industry remains unchanged, but output for the newspaper commodity is reduced, and output for the advertising commodity is increased.

Reclassifications affect about 70 commodities; however, for the most part, the dollar values involved are not very large. Examples of industries with large dollar amounts of reclassified sales receipts are the newspapers and periodicals industry (I-O 26A), for which \$20 billion of its \$36 billion total commodity output is moved to the advertising commodity (I-O 73D); and the crude petroleum and natural gas industry (I-O 8), for which \$12 billion of its \$80 billion total commodity output is moved to the gas production and distribution (utilities) commodity (I-O 68B).

When the total requirements tables are calculated, inputs and outputs of each I-O-defined secondary product or service are moved to their particular I-O-defined commodity groups. The input structures of secondary products or services are assumed to be similar to those for the industries in which the products or services are primary; this assumption, in I-O terminology, is called the industry-based technology assumption (see footnote 20).

20. The I-O commodity-based and I-O industry-based technology assumptions are important when estimating the total-requirements tables. The significance of the assumptions is discussed elsewhere in the economic I-O literature. See, for example, United Nations, *System of National Accounts, 1993*, prepared under the auspices of the Inter-Secretariat Working Group on National Accounts (New York: United Nations, 1993): chapter 15, in particular pages 367-70; and Ronald E. Miller and Peter D. Blair, *Input-Output Analysis: Foundations and Extensions* (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1985): 149-99.

As mentioned earlier, the I-O system also provides for other industries and “special” industries that the SIC does not. The I-O system replaces the SIC-defined government-owned establishments with two industries to cover government enterprises as defined in the NIPA’S—Federal Government enterprises (I-O 78) and State and local government enterprises (I-O 79). The I-O system also provides “special” industries, such as general government (I-O 82), in which output and value added are defined as general government compensation of employees, and the inventory valuation adjustment (I-O 85), which is a NIPA adjustment to derive GDP (see [appendix B](#) for a complete listing of I-O special industries).

The I-O commodity classification system is closely related to that for industries. Each commodity receives the code of the industry in which the commodity is the primary product. This code is then used to group production of the commodity in the industry in which it is the primary product with its production in other industries in which it is a secondary product.

In several cases, the I-O commodity classification differs from that specified by the industry classification. If the same commodity is the primary product of more than one SIC industry, all of the I-O commodity is assigned the I-O commodity number that corresponds to the I-O industry that is the largest producer of the commodity. This results in there being no commodity output for the following I-O commodity groups: Forest products (commodity 2.0701); knit outerwear mills (commodity 18.0201); knit underwear and nightwear mills (commodity 18.0202); knitting mills, not elsewhere classified (commodity 18.0203); fertilizers, mixing only (commodity 27.0202); cold-rolled steel sheet, strip, and bars (commodity 37.0104); steel pipe and tubes (commodity 37.0105); secondary nonferrous metals (commodity 38.0600); Federal electric utilities (78.0200); State and local government passenger transit (commodity 79.0100); and State and local government electric utilities (commodity 79.0200).

Definitions and conventions for valuation

Transactions in commodities are typically valued in I-O accounts at producers’ prices, which exclude distribution costs (transportation costs and wholesale and retail trade margins), but include excise taxes collected and paid by producers. Transportation costs and trade margins are shown as separate purchases by the users of the commodities. The sum of the producers’ value,

transportation costs, and trade margins equals the purchasers’ value.

The I-O tables do not trace actual flows of commodities to and from wholesale trade and retail trade. If trade were shown as buying and reselling commodities, industrial and final users would make most of their purchases from a single source—trade. To show the relationship between the production of commodities and their purchase by intermediate and final users, commodities are shown as if they move directly to users, bypassing trade. The margin associated with a commodity is shown as a separate purchase of the commodity from wholesale trade and retail trade by users. Transportation costs are the freight charges paid to bring the commodity from the producer to the user, either intermediate or final. All transportation costs are included in the transportation rows (rows 65A–E) of the use table.

Wholesale trade has one primary product—distributive services for the sale of goods to final users other than for personal consumption expenditures. Examples of distributive services provided by wholesalers include merchandise handling, stocking, selling, and billing.

Wholesale trade output is measured one way for merchant wholesalers, agents, and brokers and another way for manufacturers’ sales branches. For merchant wholesalers, agents, and brokers (on own account), wholesale margin is measured as wholesale sales receipts less the cost of goods sold plus taxes collected by the distributor. For manufacturers’ sales branches, it is measured as expenses plus taxes collected by the sales branches.

Nonmargin output occurs when the wholesale trade service is purchased separately from the commodity. Nonmargin output includes, for example, a sales commission paid to a wholesaler acting as a broker. Nonmargin output is measured as the sum of expenses on goods sold by manufacturers’ sales offices, commissions on goods sold by agents and brokers, and customs duties. Wholesale trade output—both margin and nonmargin—is included in the wholesale trade row (row 69A) of the use table.

Retail trade has one primary product—distributive services for the sale of goods to persons. Retail output is defined as the retail margin, which is measured as retail sales less the

Table C.—Input-Output Commodity Composition of Final Demand, in Producers'

(Millions of dollars)

Commodity number	Personal consumption expenditures				Gross private fixed investment				Change in business inventories				Exports of goods and services				Imports of goods and services			
	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
1	3,090	96	1,034	4,219	0	0	0	0	-719	4	3	-711	485	17	14	515	-808	0	0	-808
2	15,682	3,215	13,806	32,703	0	0	0	0	-4,261	119	246	-3,896	12,747	1,129	2,069	15,946	-2,353	0	0	-2,353
3	3,763	52	1,652	5,466	0	0	0	0	101	1	10	113	544	6	37	587	-3,747	0	0	-3,747
4	647	0	0	647	0	0	0	0	0	0	0	0	122	0	0	122	-16	0	0	-16
5+6	0	0	0	0	446	23	21	489	19	-1	(*)	18	559	63	14	636	-1,349	0	0	-1,349
7	138	41	62	241	0	0	0	0	1,100	342	27	1,468	2,663	780	61	3,503	-65	0	0	-65
8	0	0	0	0	84	0	0	84	-1,758	15	8	-1,735	1,494	8	56	1,558	-28,965	0	0	-28,965
9+10	36	33	21	89	0	0	0	0	-8	17	1	9	633	237	10	880	-734	0	0	-734
11	0	0	0	0	358,627	0	0	358,627	0	0	0	0	15	0	15	0	0	0	0	0
12	0	0	0	0	17,300	0	0	17,300	0	0	0	0	81	0	81	0	0	0	0	0
13	1,099	5	1,078	2,182	198	0	0	198	457	(*)	11	468	2,725	27	32	2,784	-467	0	0	-467
14	201,153	5,019	100,843	307,016	0	0	0	0	1,771	43	239	2,053	12,111	585	1,388	14,084	-18,538	0	0	-18,538
15	20,774	121	13,651	34,546	0	0	0	0	242	2	108	351	2,591	12	587	3,190	-880	0	0	-880
16	1,047	13	1,024	2,084	0	0	0	0	599	5	29	633	1,407	15	99	1,521	-3,601	0	0	-3,601
17	4,992	113	4,173	9,278	2,369	53	963	3,385	412	6	25	443	782	24	58	863	-919	0	0	-919
18	71,153	360	60,712	132,225	0	0	0	0	1,446	6	123	1,575	1,197	3	117	1,318	-25,395	0	0	-25,395
19	10,088	49	9,245	19,381	0	0	0	0	333	1	33	367	362	2	69	433	-1,772	0	0	-1,772
20+21	1,820	43	1,646	3,508	3,920	11	2,478	6,409	1,157	48	147	1,352	3,645	236	430	4,311	-6,399	0	0	-6,399
22+23	19,469	132	17,015	36,616	15,467	128	2,672	18,266	596	2	46	644	684	8	93	785	-5,287	0	0	-5,287
24	11,902	357	7,712	19,972	0	0	0	0	916	39	66	1,021	5,922	313	313	6,548	-9,914	0	0	-9,914
25	292	7	148	447	0	0	0	0	127	1	3	132	262	6	18	286	-126	0	0	-126
26A	11,741	400	4,808	16,949	0	0	0	0	449	16	14	480	555	25	22	601	-226	0	0	-226
26B	10,923	267	9,177	20,366	0	0	0	0	1,188	22	132	1,342	1,062	14	137	1,213	-1,335	0	0	-1,335
27A	978	134	929	2,040	795	0	0	795	515	50	56	622	14,630	910	1,027	16,567	-10,727	0	0	-10,727
27B	784	31	691	1,506	0	0	0	0	138	10	124	272	542	20	255	816	-990	0	0	-990
28	0	0	0	0	0	0	0	0	502	37	14	553	5,364	525	205	6,094	-2,009	0	0	-2,009
29A	23,958	164	16,617	40,738	0	0	0	0	1,199	6	186	1,392	2,959	16	564	3,539	-7,590	0	0	-7,590
29B	25,019	886	16,865	42,770	0	0	0	0	558	12	67	636	983	30	126	1,139	-1,281	0	0	-1,281
30	194	10	89	294	0	0	0	0	197	8	22	228	342	17	43	402	-214	0	0	-214
31	60,189	2,468	33,098	95,755	0	0	0	0	3,001	86	501	3,588	6,128	278	1,258	7,664	-13,332	0	0	-13,332
32	11,669	2,072	12,647	26,388	155	4	36	196	1,292	73	136	1,500	3,233	209	434	3,876	-9,702	0	0	-9,702
33+34	13,619	63	13,745	27,427	0	0	0	0	467	2	62	530	666	7	46	719	-9,700	0	0	-9,700
35	1,518	39	1,922	3,479	0	0	0	0	179	5	31	214	777	22	142	941	-1,837	0	0	-1,837
36	2,705	104	3,017	5,826	0	0	0	0	606	34	74	715	1,019	64	122	1,205	-4,513	0	0	-4,513
37	11	2	11	25	13	0	0	13	1,204	56	150	1,410	1,407	77	178	1,663	-10,824	0	0	-10,824
38	72	2	57	131	36	1	5	42	864	13	43	921	3,303	63	298	3,665	-6,992	0	0	-6,992
39	0	0	0	0	21	1	1	23	24	1	1	25	166	3	6	174	-155	0	0	-155
40	525	14	404	942	2,811	20	296	3,127	557	4	53	614	869	10	113	992	-961	0	0	-961
41	1,464	15	1,551	3,030	0	0	0	0	237	2	8	247	2,123	26	56	2,206	-2,261	0	0	-2,261
42	3,600	102	3,626	7,327	1,945	106	389	2,440	604	10	161	775	2,634	112	597	3,343	-6,573	0	0	-6,573
43	461	5	228	693	2,302	27	171	2,500	208	1	18	227	2,899	29	471	3,398	-2,102	0	0	-2,102
44+45	248	2	247	497	16,909	513	6,700	24,122	333	17	133	483	6,063	270	1,205	7,538	-5,402	0	0	-5,402
46	0	0	0	0	5,032	97	1,033	6,162	42	1	13	56	540	10	122	671	-1,321	0	0	-1,321
47	583	3	523	1,108	13,439	181	2,100	15,720	50	1	14	65	2,335	28	290	2,653	-4,911	0	0	-4,911
48	176	91	113	291	15,053	185	2,551	17,789	198	(*)	6	204	2,696	30	430	3,156	-4,993	0	0	-4,993
49	0	0	0	0	11,072	96	714	11,882	153	1	15	169	4,182	38	369	4,589	-6,947	0	0	-6,947
50	117	4	98	220	747	8	123	878	101	4	8	113	1,660	58	123	1,840	-604	0	0	-604
51	3,290	46	2,221	5,557	33,476	122	7,525	41,122	331	3	20	354	13,167	174	2,418	15,759	-17,329	0	0	-17,329
52	823	8	822	1,713	883	75	2,543	9,804	306	1	34	340	1,217	10	364	1,591	-1,504	0	0	-1,504
53	161	3	113	277	5,878	106	820	6,803	110	2	19	131	1,847	24	148	2,019	-3,346	0	0	-3,346
54	11,997	319	7,770	20,086	2,657	72	1,448	4,177	3	-2	-4	943	24	107	1,074	-2,950	0	0	-2,950	
55	2,278	46	2,233	4,556	435	4	110	549	608	7	106	721	1,358	14	268	1,641	-3,341	0	0	-3,341
56	18,387	164	16,605	35,156	21,728	132	1,338	23,198	446	4	58	508	4,137	41	394	4,572	-20,190	0	0	-20,190
57	263	2	144	409	0	0	0	0	787	4	47	838	12,596	130	1,518	14,244	-13,704	0	0	-13,704
58	5,277	140	3,993	9,410	2,755	27	153	2,936	361	5	38	403	2,404	38	334	2,776	-4,511	0	0	-4,511
59A	101,875	2,626	24,316	128,816	62,933	1,622	4,878	69,433	8,115	202	319	8,636	12,918	325	515	13,758	-61,157	0	0	-61,157
59B	3,133	108	2,107	5,348	6,591	55	323	6,969	1,745	55	145	1,945	10,874	362	938	12,174	-16,950	0	0	-16,950
60	316	1	88	405	8,843	7	135	8,985	2,132	-2	-2	2,127	22,891	177	338	23,405	-6,875	0	0	-6,875
61	11,043	82	5,067	16,191	3,183	72	376	3,632	1,070	6	92	1,167	1,278	17	63	1,358	-2,937	0	0	-2,937
62	4,456	16	4,396	8,868	33,814	131	3,692	37,637	1,285	1	42	1,327	10,311	48	1,082	11,441	-9,990	0	0	-9,990
63	4,625	21	7,956	12,602	5,653	24	2,093	7,770	398	2	171	570	2,224	9	748	2,981	-5,696	0	0	-5,696
64	27,179	400	30,458	58,036	3,876	255	1,052	5,183	2,181	27	506	2,714	2,831	79	690	3,599	-15,769	0	0	-15,769
65A	9,990	0	0	9,990	0	0	0	0	0	0	0	0	731	0	0	731	-135	0	0	-135
65B	6,151	0	0	6,151	0	0	0	0	0	0	0	0	300	0	0	300	0	0	0	0
65C	3,472	0	0	3,472	0	0	0	0	0	0	0	0	7,209	0	0	7,209	3,264	0	0	3,264
65D	29,349	0	0	29,349	0	0	0	0	0	0	0	0	10,186	0	0	10,186	-5,711	0	0	-5,711
65E	1,596	0	0	1,596	0	0	0	0	0	0	0	0	1,958	0	0	1,958	0	0	0	0
66	61,963	0	0	61,963	4,389	0	0	4,389	0	0	0	0	2,496	0	0	2,496	0	0	0	0
67	1,326	0	0	1,326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68A	63,318	0	0	63,318	0	0	0	0	0	0	0	0	134	0	0	134	-986	0	0	-986
68B																				

and Purchasers' Prices, 1987 Benchmark ¹

Federal Government purchases, national defense				Federal Government purchases, nondefense				State and local government purchases, education				State and local government purchases, other				Commodity number
Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	
2	(*)	(*)	2	10	(*)	(*)	11	30	(*)	2	32	54	1	3	57	1
0	0	0	0	750	0	0	750	220	55	65	340	368	61	99	528	2
0	0	0	0	-1,112	0	0	-1,112	6	(*)	1	8	-419	(*)	3	-416	3
38	0	0	38	84	0	0	84	284	0	0	284	756	0	0	756	4
-142	-5	-1	-148	1	(*)	0	1	0	0	0	0	0	0	0	0	5+6
56	17	1	74	29	9	1	38	21	4	(*)	26	11	2	(*)	13	7
5	0	0	5	-177	34	20	-124	0	0	0	0	0	0	0	0	8
-2	-2	0	-3	4	4	0	9	0	0	0	0	-19	102	6	89	9+10
7,495	0	0	7,495	8,055	0	0	8,055	10,091	0	0	10,091	61,020	0	0	61,020	11
4,358	0	0	4,358	1,900	0	0	1,900	5,912	0	0	5,912	19,816	0	0	19,816	12
20,365	42	39	20,446	2,380	0	1	2,381	1	0	0	1	116	1	11	128	13
189	3	18	210	1,836	1	7	1,844	3,739	81	450	4,271	2,114	60	260	2,435	14
0	0	0	0	0	0	0	0	-1	0	-1	-1	-10	(*)	-7	-17	15
105	(*)	2	107	10	0	0	10	58	1	4	63	84	1	6	91	16
3	0	0	3	27	(*)	2	30	8	(*)	1	9	43	1	5	49	17
566	5	54	625	1	0	(*)	1	15	0	-1	14	838	10	83	931	18
140	1	34	175	45	(*)	11	57	95	(*)	17	112	347	2	58	406	19
32	1	2	34	13	(*)	1	14	59	4	11	74	55	2	6	63	20+21
39	(*)	5	45	90	1	12	103	992	7	159	1,158	784	2	151	937	22+23
124	3	14	141	243	6	26	275	1,183	48	77	1,308	1,057	33	87	1,178	24
42	(*)	(*)	43	31	0	(*)	31	32	1	2	35	125	3	9	137	25
15	1	(*)	16	138	1	1	139	302	12	11	325	154	5	5	164	26A
428	2	20	450	669	16	48	733	3,403	86	278	3,768	1,466	15	62	1,543	26B
1,793	66	79	1,938	100	-13	12	99	567	37	39	642	1,635	104	124	1,863	27A
9	3	12	15	1	3	11	20	111	4	46	161	213	12	61	286	27B
13	1	(*)	14	1	(*)	0	1	1	(*)	0	1	1	(*)	0	1	28
472	3	96	570	324	2	66	392	86	1	18	105	2,778	19	566	3,363	29A
160	4	24	189	42	2	10	54	119	5	24	147	321	12	50	383	29B
1	0	0	1	5	1	1	6	228	12	30	271	66	3	9	78	30
2,649	109	651	3,408	545	21	127	692	3,789	131	897	4,816	4,142	141	1,018	5,301	31
480	71	87	637	157	12	27	195	88	9	26	123	1,260	52	236	1,549	32
47	1	6	54	4	0	(*)	4	(*)	0	0	(*)	105	1	9	115	33+34
22	(*)	1	23	37	1	6	44	66	2	13	80	207	5	40	252	35
51	2	12	65	57	2	9	67	66	1	8	75	104	5	12	121	36
78	8	5	91	72	4	1	76	6	1	(*)	7	51	6	5	61	37
395	6	25	426	250	5	20	274	4	(*)	(*)	5	54	2	3	58	38
57	1	3	60	0	0	0	0	4	0	4	3	0	(*)	(*)	3	39
491	12	59	562	168	2	15	185	0	0	0	0	1	0	(*)	1	40
110	1	8	119	28	(*)	1	29	216	2	3	221	61	(*)	4	66	41
407	22	120	549	75	3	39	117	177	7	84	269	373	10	273	656	42
1,879	18	378	2,275	167	2	3	172	0	0	0	0	265	3	11	279	43
303	10	49	362	18	1	3	22	84	2	30	116	1,274	45	263	1,581	44+45
312	6	95	413	9	(*)	1	10	4	0	1	5	9	(*)	3	12	46
180	1	13	194	40	0	2	42	134	2	20	156	102	2	12	116	47
76	1	18	95	6	(*)	1	7	69	1	6	75	5	0	(*)	5	48
542	6	91	639	18	0	2	20	(*)	0	0	(*)	162	1	12	176	49
2,573	95	175	2,843	84	2	4	90	116	5	9	129	135	4	11	150	50
3,493	49	645	4,187	675	7	97	779	1,196	15	347	1,558	786	8	230	1,024	51
101	1	20	122	21	0	7	28	476	5	178	658	179	2	77	257	52
467	8	94	570	168	2	36	206	140	1	14	155	132	1	12	146	53
38	1	4	43	4	(*)	5	101	101	2	8	112	134	3	13	150	54
41	(*)	6	47	21	(*)	5	26	284	2	72	358	189	1	45	235	55
4,964	21	227	5,211	301	1	12	314	335	2	39	377	368	2	44	414	56
5,884	62	718	6,663	28	0	2	30	81	1	9	90	94	1	10	105	57
1,577	14	102	1,693	95	1	6	101	71	1	11	83	120	2	22	144	58
609	15	25	649	131	3	5	140	1,288	33	52	1,373	4,426	114	180	4,721	59A
1,050	27	97	1,174	43	1	4	47	294	10	96	400	422	14	172	608	59B
33,306	97	360	33,763	1,206	5	0	1,211	0	0	0	0	20	0	(*)	20	60
6,754	5	20	6,780	405	1	4	410	103	5	15	124	411	8	23	443	61
23,710	91	341	24,141	1,540	5	144	1,688	517	2	38	557	2,732	12	648	3,392	62
704	3	253	959	425	2	150	577	1,015	4	365	1,384	1,589	7	572	2,168	63
123	6	33	162	-547	2	-112	-657	1,184	38	319	1,541	747	13	200	960	64
234	0	0	234	469	0	0	469	2,169	0	0	2,169	229	0	0	229	65A
2,309	0	0	2,309	2,368	0	0	2,368	483	0	0	483	486	0	0	486	65B
677	0	0	677	130	0	0	130	0	0	0	0	89	0	0	89	65C
1,817	0	0	1,817	648	0	0	648	876	0	0	876	990	0	0	990	65D
0	0	0	0	0	0	0	0	3	0	0	3	65	0	0	65	65E
1,954	0	0	1,954	1,899	0	0	1,899	2,519	0	0	2,519	3,021	0	0	3,021	66
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
1,734	0	0	1,734	937	0	0	937	4,541	0	0	4,541	7,180	0	0	7,180	68A
465	0	0	465	114	0	0	114	685	0	0	685	987	0	0	987	68B
184	0	0	184	53	0	0	53	1,018	0	0	1,018	-35	0	0	-35	68C
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69A
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69B
36	0	0	36	1,710	0	0	1,710	666	0	0	666	161	0	0	161	70A
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70B
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71A
547	0	0	547	696	0	0	696	713	0	0	713	5,850	0	0	5,850	71B
692	0	0	692	254	0	0	254	-1,237	0	0	-1,237	2,073	0	0	2,073	72A
65	0	0	65	60	0	0	60	301	0	0	301	597	0	0	597	72B
2,833	0	0	2,833	1,300	0	0	1,300	1,402	0	0	1,402	3,845	0	0	3,845	73A
7,561	0	0	7,561	538	0	0	538	1,729	0	0	1,729	-73	0	0	-73	73B
15,944	0	0	15,944	4,963	0	0	4,963	4,136	0	0	4,136	7,298	0	0	7,298	73C
79	0	0	79	5	0	0	5	416	0	0	416	181	0	0	181	73D
371	0	0	371	768	0	0	768	-5,546	0	0	-5,546	2,138	0	0	2,138	74
94	0	0	94	92	0	0	92	823	0	0	823	1,400	0	0	1,400	75
823	0	0	823	179	0	0	179	189	0	0	189	-1,641	0	0	-1,641	76
-352	0	0	-352	965	0	0	965	-10	0	0	-10	-32,747	0	0	-32,747	77A
1,127	0	0	1,127	6,199	0	0	6,199	-15,934	0	0	-15,934	-318	0	0	-318	77B
312	0	0	312	97	0	0	97	128	0	0	128	1,354	0	0	1,354	78
80	0	0	80	31	0	0	31	171	0	0	171	187	0	0	187	79
8,673	0	0	8,673	1,443	1	1	1,444	43	10	4	57	6	1	1	8	80
-104	0	0	-104	778	0	0	778	683	0	4	687	1,589	0	2	1,591	81
108,244	0	0	108,244	42,383	0	0	42,383	173,286	0	0	173,286	142,873	0	0	142,873	82
-161	0	0	-161	-356	0	0	-356	0	0	0	0</					

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark

(Millions of dollars)

NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices
3. Food purchased for off-premise consumption (n.d.)					17. Cleaning, storage, and repair of clothing and shoes (s.)					32. Other durable house furnishings (d.)				
Total	211,016	7,811	111,975	330,802	Total	8,328	0	0	8,328	Total	17,946	566	17,748	36,260
1	1,722	19	644	2,385	72A	62	0	0	62	17	4,776	108	4,006	8,891
2	11,383	2,585	9,323	23,291	72B	8,266	0	0	8,266	19	1,371	6	1,095	2,472
3	2,584	48	1,346	3,978	18. Jewelry and watches (d.)					20+21	1,357	32	1,107	2,495
9+10	2	1	0	4	Total	12,698	27	13,505	26,230	22+23	1,569	23	995	2,587
14	194,576	4,863	100,017	299,456	62	1,599	4	1,463	3,065	26B	72	0	48	119
27A	60	9	43	112	64	11,624	23	11,926	23,573	32	203	5	202	410
69B	5	0	0	5	19. Other misc. personal, clothing and jewelry services (s.)					33+34	127	3	109	239
80	1,201	285	603	2,089	Total	9,443	0	0	9,443	35	358	12	375	745
81	-516	0	0	-516	72B	9,428	0	0	9,428	36	1,146	17	917	2,080
4. Purchased meals and beverages (n.d.)					73C	15	0	0	15	40	80	(*)	53	133
Total	172,236	0	0	172,236	21. Toilet articles and preparations (n.d.)					42	1,495	32	1,827	3,354
65A	36	0	0	36	Total	17,370	405	12,203	29,979	44+45	248	2	247	497
65D	93	0	0	93	19	69	1	66	135	47	583	3	523	1,108
74	169,638	0	0	169,638	29B	15,497	309	10,795	26,601	48	176	2	113	291
76	2,434	0	0	2,434	32	20	1	17	37	50	88	1	80	170
77B	35	0	0	35	42	589	25	347	960	51	237	3	311	551
5. Food furnished to employees (including military) (n.d.)					54	427	12	256	695	52	16	(*)	17	32
Total	6,464	200	899	7,563	58	221	13	175	408	53	81	1	56	138
1	158	2	8	167	64	549	45	548	1,142	54	104	3	72	179
2	174	42	61	276	22. Barbershops, beauty parlors, and health clubs (s.)					55	1,035	34	1,033	2,102
3	25	(*)	4	30	Total	16,078	0	0	16,078	56	793	3	535	1,331
14	6,107	156	827	7,090	72A	311	0	0	311	61	35	3	32	69
6. Food produced and consumed on farms (n.d.)					72B	13,513	0	0	13,513	62	481	3	377	860
Total	714	0	0	714	76	2,254	0	0	2,254	64	1,268	98	1,508	2,874
1	107	0	0	107	24. Owner-occupied nonfarm dwellings-space rent (s.)					69B	200	0	0	200
2	138	0	0	138	Total	321,380	0	0	321,380	80	725	173	673	1,571
14	470	0	0	470	71A	321,380	0	0	321,380	81	-677	0	1,439	763
7. Tobacco products (n.d.)					25. Tenant-occupied nonfarm dwellings-rent (s.)					33. Semidurable house furnishings (n.d.)				
Total	20,774	121	13,651	34,546	Total	120,032	0	0	120,032	Total	9,749	154	9,427	19,330
15	20,774	121	13,651	34,546	71B	120,032	0	0	120,032	16	267	5	265	536
12. Shoes and other footwear (n.d.)					26. Rental value of farm dwellings (s.)					17	81	2	81	165
Total	12,264	60	13,703	26,027	Total	4,888	0	0	4,888	18	3	0	3	6
32	2,801	34	3,465	6,299	71A	3,764	0	0	3,764	19	7,768	35	7,187	14,990
33+34	9,463	26	10,213	19,703	71B	1,124	0	0	1,124	26B	79	0	63	142
81	(*)	0	25	25	27. Other housing (s.)					31	2	0	2	3
14. Women's and children's clothing and accessories, except shoes (n.d.)					29. Furniture, including mattresses and bedsprings (d.)					32	435	9	431	875
Total	50,938	358	47,121	98,416	Total	18,091	108	16,270	34,469	35	150	3	155	308
16	660	7	666	1,333	22+23	17,882	108	16,011	34,001	37	11	2	11	25
18	43,726	200	40,297	84,223	81	208	0	259	468	41	114	3	121	237
19	98	1	121	220	30. Kitchen and other household appliances (d.)					64	675	58	919	1,651
24	3,141	92	2,651	5,883	Total	12,837	324	8,620	21,781	69B	3	0	0	3
26B	166	20	184	369	22+23	18	(*)	9	27	80	161	38	170	369
32	84	3	97	184	32	38	1	36	91	81	(*)	0	21	20
33+34	2,997	21	2,642	5,661	40	445	14	351	809	34. Cleaning and polishing preparations, and miscellaneous household supplies and paper products (n.d.)				
64	222	14	261	496	52	712	7	651	1,370	Total	20,022	950	12,123	33,095
69B	2	0	0	2	54	11,380	301	7,408	19,089	3	56	2	18	76
81	-158	0	203	45	58	222	2	120	344	9+10	35	32	20	86
15. Men's and boys' clothing and accessories, except shoes (n.d.)					31. China, glassware, tableware, and utensils (d.)					17	94	1	40	135
Total	28,267	177	21,310	49,754	Total	6,520	121	8,090	14,732	19	84	1	39	124
16	95	1	92	188	20+21	381	9	506	896	24	5,919	180	2,864	8,963
18	27,345	159	20,404	47,908	32	1,956	34	2,484	4,473	25	292	7	148	447
19	69	1	73	142	35	1,000	24	1,382	2,406	26B	23	0	11	34
32	34	1	33	68	36	765	14	864	1,643	27A	178	21	125	324
33+34	750	8	514	1,271	38	18	1	21	40	27B	784	31	691	1,506
64	101	7	105	212	35. Stationery and writing supplies (n.d.)					29B	9,358	561	5,904	15,823
81	-126	0	90	-36	Total	3,882	135	6,005	10,022	30	194	10	89	294
16. Standard clothing issued to military personnel (n.d.)					20+21	20	9	506	896	32	237	5	119	361
Total	133	1	13	146	22+23	18	(*)	9	27	36	327	52	154	534
16	25	(*)	2	27	32	38	1	36	91	42	431	3	185	620
18	80	(*)	9	89	40	445	14	351	809	53	74	2	51	127
33+34	28	(*)	2	30	52	712	7	651	1,370	55	807	8	777	1,592

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark—Continued

(Millions of dollars)

NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices
37. Electricity (s.)					49. Other professional medical services (s.)					71. Net purchases of used autos (d.)				
Total	63,318	0	0	63,318	Total	38,652	0	0	38,652	Total	14,070	0	14,209	28,280
68A	63,318	0	0	63,318	73C	495	0	0	495	81	14,070	0	14,209	28,280
68B	0	0	0	0	77A	38,158	0	0	38,158	72. Other motor vehicles (d.)				
38. Gas (s.)					51. Hospitals (s.)					Total	33,839	747	10,453	45,039
Total	25,544	0	0	25,544	Total	165,479	0	0	165,479	59A	28,232	728	6,382	35,342
68B	25,544	0	0	25,544	77A	165,479	0	0	165,479	61	3,982	19	1,315	5,317
39. Water and other sanitary services (s.)					55. Nursing homes (s.)					81	1,625	0	2,756	4,381
Total	20,800	0	0	20,800	Total	29,510	0	0	29,510	73. Tires, tubes, accessories, and other parts (d.)				
68C	14,672	0	0	14,672	77A	29,510	0	0	29,510	Total	12,029	2,174	11,036	25,238
79	6,128	0	0	6,128	56. Health insurance (s.)					19	120	1	117	238
40. Fuel oil and coal (n.d.)					61. Brokerage charges and investment counseling (s.)					29B	164	16	166	346
Total	6,102	305	4,794	11,201	Total	21,305	0	0	21,305	32	5,419	1,936	5,364	12,719
7	138	41	62	241	70B	21,305	0	0	21,305	35	11	(*)	10	21
20+21	83	2	33	118	62. Bank service charges, trust services, and safe deposit box rental (s.)					42	279	5	279	563
27A	192	23	79	294	Total	18,349	0	0	18,349	50	29	3	18	50
31	5,498	239	4,620	10,356	70A	18,349	0	0	18,349	52	155	1	154	310
68C	192	0	0	192	63. Services furnished without payment by financial intermediaries except life insurance carriers and private noninsured pension plans (s.)					55	330	3	290	622
41. Telephone and telegraph (s.)					64. Expense of handling life insurance (s.)					56	646	4	625	1,275
Total	51,879	0	0	51,879	Total	41,459	0	0	41,459	57	38	(*)	26	65
66	51,049	0	0	51,049	70B	41,459	0	0	41,459	58	2,186	97	1,857	4,139
72A	830	0	0	830	65. Legal services (s.)					59B	3,133	108	2,107	5,348
42. Domestic service (s.)					66. Funeral and burial expenses (s.)					81	-479	0	22	-457
Total	8,242	0	0	8,242	Total	93,475	0	0	93,475	74. Repair, greasing, washing, parking, storage, rental, and leasing (s.)				
73C	533	0	0	533	70A	93,475	0	0	93,475	Total	67,759	0	202	67,961
84	7,709	0	0	7,709	67. Other personal business (s.)					75	67,684	0	202	67,886
43. Other household operation (s.)					70. New autos (d.)					76	57	0	0	57
Total	24,691	2	20	24,714	Total	73,642	1,898	17,934	93,474	77B	18	0	0	18
54	44	2	16	63	59A	73,642	1,898	17,934	93,474	75. Gasoline and oil (n.d.)				
65B	5,996	0	0	5,996	68. Other household operation (s.)					Total	54,666	2,229	28,460	85,355
65C	114	0	0	114	Total	24,691	2	20	24,714	31	54,666	2,229	28,460	85,355
65D	36	0	0	36	54	24	1	17	41	76. Bridge, tunnel, ferry, and road tolls (s.)				
69B	12	0	0	12	32	323	12	227	561	Total	2,016	0	0	2,016
70B	3,275	0	0	3,275	54	41	1	18	60	79	2,016	0	0	2,016
72B	4,131	0	0	4,131	55	7	0	5	12	77. Motor vehicle insurance (s.)				
73B	92	0	0	92	62	1,718	7	1,413	3,137	Total	15,522	0	0	15,522
73C	4,712	0	0	4,712	45. Drug preparations and sundries (n.d.)					70B	15,522	0	0	15,522
78	6,269	0	0	6,269	Total	27,762	232	19,012	47,006	79. Mass transit systems (s.)				
81	10	0	4	14	24	1,620	43	682	2,345	Total	4,583	0	0	4,583
44. Other household operation (s.)					69. Other household operation (s.)					80. Taxicab (s.)				
Total	24,691	2	20	24,714	27A	74	4	35	112	65A	4,583	0	0	4,583
54	44	2	16	63	29A	23,958	164	16,617	40,738	82. Railway (s.)				
65B	5,996	0	0	5,996	31	24	1	17	41	Total	576	0	0	576
65C	114	0	0	114	32	323	12	227	561	65A	576	0	0	576
65D	36	0	0	36	54	41	1	18	60	83. Bus (s.)				
69B	12	0	0	12	55	7	0	5	12	Total	1,364	0	0	1,364
70B	3,275	0	0	3,275	62	1,718	7	1,413	3,137	65A	1,364	0	0	1,364
72B	4,131	0	0	4,131	46. Ophthalmic products and orthopedic appliances (d.)					84. Airline (s.)				
73B	92	0	0	92	Total	2,688	13	5,337	8,038	Total	19,935	0	0	19,935
73C	4,712	0	0	4,712	58	194	3	284	480	65D	19,935	0	0	19,935
78	6,269	0	0	6,269	62	548	2	1,014	1,564	85. Other intercity transportation (s.)				
81	10	0	4	14	63	1,940	8	4,040	5,988	Total	2,061	0	0	2,061
46. Ophthalmic products and orthopedic appliances (d.)					71. Net purchases of used autos (d.)					81. Net purchases of used autos (d.)				
Total	2,688	13	5,337	8,038	Total	14,070	0	14,209	28,280	82. Railway (s.)				
58	194	3	284	480	73C	495	0	0	495	Total	576	0	0	576
62	548	2	1,014	1,564	77A	38,158	0	0	38,158	65A	576	0	0	576
63	1,940	8	4,040	5,988	72. Other motor vehicles (d.)					83. Bus (s.)				
81	6	0	0	6	Total	33,839	747	10,453	45,039	Total	1,364	0	0	1,364
47. Physicians (s.)					73. Tires, tubes, accessories, and other parts (d.)					84. Airline (s.)				
Total	99,923	0	0	99,923	19	120	1	117	238	65D	19,935	0	0	19,935
77A	99,923	0	0	99,923	29B	164	16	166	346	85. Other intercity transportation (s.)				
48. Dentists (s.)					74. Repair, greasing, washing, parking, storage, rental, and leasing (s.)					81. Net purchases of used autos (d.)				
Total	26,416	0	0	26,416	Total	67,759	0	202	67,961	Total	14,070	0	14,209	28,280
77A	26,416	0	0	26,416	75	67,684	0	202	67,886	81	14,070	0	14,209	28,280
49. Other professional medical services (s.)					75. Gasoline and oil (n.d.)					72. Other motor vehicles (d.)				
Total	38,652	0	0	38,652	31	54,666	2,229	28,460	85,355	Total	33,839	747	10,453	45,039
73C	495	0	0	495	76. Bridge, tunnel, ferry, and road tolls (s.)					73. Tires, tubes, accessories, and other parts (d.)				
77A	38,158	0	0	38,158	Total	2,016	0	0	2,016	19	120	1	117	238
50. Other professional medical services (s.)					76. Bridge, tunnel, ferry, and road tolls (s.)					74. Repair, greasing, washing, parking, storage, rental, and leasing (s.)				
Total	165,479	0	0	165,479	79	2,016	0	0	2,016	29B	164	16	166	346
77A	165,479	0	0	165,479	77. Motor vehicle insurance (s.)					75. Gasoline and oil (n.d.)				
51. Hospitals (s.)					77. Motor vehicle insurance (s.)					76. Bridge, tunnel, ferry, and road tolls (s.)				
Total	165,479	0	0	165,479	Total	15,522	0	0	15,522	Total	54,666	2,229	28,460	85,355
77A	165,479	0	0	165,479	70B	15,522	0	0	15,522	31	54,666	2,229	28,460	85,355
52. Other hospitals (s.)					78. Motor vehicle insurance (s.)					77. Motor vehicle insurance (s.)				
Total	29,510	0	0	29,510	79. Mass transit systems (s.)					78. Motor vehicle insurance (s.)				
77A	29,510	0	0	29,510	Total	4,583	0	0	4,583	Total	2,359	0	0	2,359
53. Nursing homes (s.)					79. Mass transit systems (s.)					79. Mass transit systems (s.)				
Total	29,510	0	0	29,510	65A	4,583	0	0	4,583	65A	2,359	0	0	2,359
77A	29,510	0	0	29,510	80. Taxicab (s.)					80. Taxicab (s.)				
54. Nursing homes (s.)					80. Taxicab (s.)					81. Railway (s.)				
Total	21,305	0	0	21,305	Total	2,359	0	0	2,359	Total	576	0	0	576
70B	21,305	0	0	21,305	65A	2,359	0	0	2,359	65A	576	0	0	576
55. Nursing homes (s.)					81. Railway (s.)					82. Railway (s.)				
Total	21,305	0	0	21,305	82. Railway (s.)					83. Bus (s.)				
70B	21,305	0	0	21,305	Total	576	0	0	576	Total	1,364	0	0	1,364
56. Health insurance (s.)					83. Bus (s.)					83. Bus (s.)				
Total	21,305	0	0	21,305	65A	1,364	0	0	1,364	65A	1,364	0	0	1,364
70B	21,305	0	0	21,305	84. Airline (s.)					84. Airline (s.)				
57. Health insurance (s.)					84. Airline (s.)					85. Other intercity transportation (s.)				
Total	23,398	0	0	23,398	Total	19,935	0	0	19,935	Total	2,061	0	0	2,061
70A	23,398	0	0	23,398	65D	19,935	0	0	19,935	85. Other intercity transportation (s.)				
58. Health insurance (s.)					85. Other intercity transportation (s.)					81. Net purchases of used autos (d.)				
Total	23,398	0	0	23,398	Total	2,061	0	0	2,061	Total	14,070	0	14,209	28,280
70A	23,398	0	0	23,398	81. Net purchases of used autos (d.)					82. Railway (s.)				
59. Health insurance (s.)					82. Railway (s.)					83. Bus (s.)				
Total	23,398	0	0	23,398	Total	576	0	0	576	Total	1,364	0	0	1,364
70A	23,398	0	0	23,398	65A	576	0	0	576	65A	1,364	0	0	1,364
60. Health insurance (s.)														

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark—
Continued

[Millions of dollars]

NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchasers' prices
65A	177	0	0	177	92. Radio and television repair (s.)					79	6,007	0	0	6,007
65B	155	0	0	155						80	(*)	2	1	3
65C	133	0	0	133						81	214	0	401	615
65E	1,596	0	0	1,596	Total									
87. Books and maps (d.)										103. Higher education (s.)				
Total	7,887	149	4,968	13,004						Total	33,788	0	0	33,788
26B	7,875	149	4,924	12,948	93. Flowers, seeds, and potted plants (n.d.)					77B	33,788	0	0	33,788
69B	13	0	0	13						104. Nursery, elementary, and secondary schools (s.)				
81	-1	0	44	43						Total	14,496	0	0	14,496
88. Magazines, newspapers, and sheet music (n.d.)										77B	14,496	0	0	14,496
Total	12,020	444	5,039	17,503	95. Motion picture theaters (s.)					105. Other private education and research (s.)				
26A	11,741	400	4,808	16,949						Total	13,692	0	0	13,692
26B	421	44	231	695	96. Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics) (s.)					76	365	0	0	365
81	-142	0	0	-142						77B	13,328	0	0	13,328
89. Nondurable toys and sport supplies (n.d.)										106. Religious and welfare activities (s.)				
Total	11,514	157	13,674	25,345						Total	75,284	0	0	75,284
1	134	9	19	162	97. Spectator sports (s.)					77B	75,284	0	0	75,284
3	319	0	257	576						108. Foreign travel by U.S. residents (s.)				
13	406	4	397	807						Total	33,932	0	0	33,932
17	41	1	46	88	98. Clubs and fraternal organizations (s.)					65C	1,741	0	0	1,741
24	137	6	138	281						65D	9,058	0	0	9,058
26B	67	0	60	127						80	23,134	0	0	23,134
27A	235	37	338	610	99. Commercial participant amusements (s.)					109. Expenditures abroad by U.S. residents (n.d.)				
32	62	2	79	143						Total	3,888	0	0	3,888
53	6	(*)	6	12	100. Pari-mutuel net receipts (s.)					80	3,888	0	0	3,888
55	100	1	128	229						110. Expenditures in the United States by nonresidents (s.)				
58	186	2	169	357						Total	-30,323	0	0	-30,323
63	1,472	7	2,146	3,624	101. Other recreational expenditures (s.)					83	-30,323	0	0	-30,323
64	8,339	89	9,892	18,320						111. Personal remittances in kind to nonresidents (n.d.)				
72B	11	0	0	11						Total	-813	0	0	-813
81	-1	0	1	(*)						83	-813	0	0	-813
90. Wheel goods, sports and photographic equipment, boats, and pleasure aircraft (d.)										Personal consumption expenditures				
Total	14,023	146	11,406	25,575						Total	2,566,099	20,949	485,204	3,072,252
13	693	1	681	1,376	109. Commercial participant amusements (s.)					Durable commodities (d.)				
19	508	3	549	1,060						Total	249,778	6,528	158,931	415,237
32	91	30	121	242	100. Pari-mutuel net receipts (s.)					Nondurable commodities (n.d.)				
33+34	217	4	245	466						Total	673,095	14,328	323,840	1,011,264
42	194	8	173	375	101. Other recreational expenditures (s.)					Services (s.)				
43	461	5	228	693						Total	1,643,226	93	2,433	1,645,752
58	38	1	5	44										
60	316	1	88	405										
61	7,025	60	3,720	10,806										
62	111	(*)	129	241										
63	1,214	6	1,770	2,989										
64	2,490	27	3,270	5,787										
73C	505	0	0	505										
81	159	0	427	586										
91. Video and audio products, computing equipment, and musical instruments (d.)														
Total	23,508	254	19,356	43,118										
33+34	37	(*)	20	58										
51	3,052	43	1,911	5,006										
56	16,948	157	15,444	32,550										
57	212	1	118	331										
58	1,407	13	806	2,226										
64	861	12	568	1,441										
73A	855	0	322	1,177										
80	115	27	87	229										
81	22	0	78	100										

*Less than \$500,000.

NOTE.—The identifying numbers for the personal consumption categories are those used in table 2.4 in the *National Income and Product Accounts of the United States, Volume 2, 1959-88*.

Personal consumption expenditures of scrap, used and secondhand goods (I-O 81) from other final demand components are shown net of corresponding sales. (Sales among persons cancel.) However, the trade margin has been measured on all sales of used goods—both among persons

and between personal consumption expenditures and other final demand categories—to the extent that such sales pass through trade channels. The trade margin is usually the largest part of the value of used goods in purchasers' prices.

Table E.—Input-Output Commodity Composition of Producers' Durable Equipment Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark
[Millions of dollars]

NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchas- ers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchas- ers' prices	NIPA code/ I-O number	Producers' prices	Transporta- tion costs	Wholesale and retail trade margins	Purchas- ers' prices
5. Computers and peripheral equipment					52	2	0	0	2	26. Agricultural machinery, except tractors				
Total	29,802	74	6,652	36,528	58	10	(*)	1	11	Total	3,281	92	1,739	5,112
51	29,809	74	5,878	35,761	73B	640	0	0	640	44+45	3,134	92	1,169	4,395
81	-7	0	774	767	81	2	0	160	162	58	11	(*)	1	12
6. Office equipment except computers					15. General industrial, including materials handling, equipment					73B	168	0	0	168
Total	4,259	52	1,820	6,131	Total	16,167	189	1,855	18,211	81	-32	0	570	537
50	517	7	105	628	44+45	36	1	7	44	27. Construction machinery, except tractors				
51	3,455	45	1,605	5,106	46	5,029	97	1,033	6,159	Total	7,116	261	1,430	8,807
73A	10	0	0	10	48	2	0	(*)	2	44+45	6,847	261	1,247	8,354
73B	232	0	0	232	49	10,238	90	683	11,011	73B	313	0	0	313
81	46	0	109	155	50	197	1	17	214	81	-43	0	183	140
7. Communication equipment					73B	667	0	0	667	28. Mining and oilfield machinery				
Total	40,319	168	1,562	42,050	81	-1	0	116	114	Total	924	29	279	1,232
13	198	0	0	198	16. Electrical transmission, distribution, and industrial apparatus					8	84	0	0	84
38	36	1	5	42	Total	11,794	147	1,263	13,203	44+45	801	29	123	952
51	213	2	41	256	47	788	16	123	927	49	14	(*)	1	15
56	21,663	132	1,319	23,113	53	5,878	106	820	6,803	73B	45	0	0	45
58	2,643	22	137	2,801	62	4,719	25	320	5,064	81	-20	0	156	136
62	9,546	12	61	9,619	73B	410	0	0	410	29. Service industry machinery				
66	4,389	0	0	4,389	18. Trucks, buses, and truck trailers					Total	7,581	76	2,544	10,201
73B	1,585	0	0	1,585	Total	26,585	614	2,696	29,895	50	34	1	1	35
81	47	0	0	47	59A	21,685	559	2,104	24,347	52	7,184	75	2,543	9,802
8. Instruments					59B	6,591	55	323	6,969	73B	346	0	0	346
Total	11,669	58	2,129	13,856	81	-1,690	0	270	-1,421	81	18	0	0	18
62	11,137	58	2,129	13,324	19. Autos					30. Electrical equipment, n.e.c.				
73B	502	0	0	502	Total	24,652	1,063	3,121	28,836	Total	6,294	51	958	7,302
81	30	0	0	30	59A	41,248	1,063	2,775	45,086	48	208	3	42	252
9. Photocopy and related equipment					81	-16,596	0	346	-16,250	54	391	11	40	441
Total	8,635	30	2,520	11,185	20. Aircraft					55	435	4	110	549
62	2,635	6	427	3,067	Total	9,144	11	564	9,718	58	91	5	16	113
63	5,653	24	2,093	7,770	22+23	179	2	32	213	62	4,901	28	750	5,679
73B	304	0	0	304	60	8,843	7	135	8,985	73B	270	0	0	270
81	44	0	0	44	61	876	2	6	883	81	-2	0	0	-2
11. Fabricated metal products					62	-754	0	391	-363	31. Other nonresidential equipment				
Total	6,285	148	696	7,129	21. Ships and boats					Total	8,163	353	3,529	12,044
5+6	446	23	21	489	Total	1,657	2	165	1,824	17	1,087	24	442	1,554
27A	795	0	0	795	61	1,301	2	153	1,456	20+21	5	(*)	1	6
37	13	0	0	13	81	356	0	13	369	32	62	1	10	73
39	21	1	1	23	22. Railroad equipment					44+45	2,167	32	1,808	4,007
40	2,811	20	296	3,127	Total	1,311	31	20	1,361	61	598	40	217	855
42	1,931	106	378	2,414	61	1,285	31	7	1,322	64	3,876	255	1,052	5,183
46	4	0	0	4	73B	33	0	0	33	73B	445	0	0	445
73B	264	0	0	264	81	-7	0	13	6	81	-77	0	0	-77
12. Engines and turbines					24. Furniture and fixtures					32. Sale of equipment scrap, excluding autos				
Total	1,811	27	171	2,009	Total	15,756	125	2,701	18,582	Total	-2,520	0	0	-2,520
43	2,302	27	171	2,500	22+23	15,109	125	2,631	17,865	81	-2,520	0	0	-2,520
73B	64	0	0	64	73B	664	0	0	664	33. Residential (landlord durables)				
81	-556	0	0	-556	81	-16	0	69	53	Total	3,807	92	1,966	5,864
13. Metalworking machinery					25. Tractors					17	1,282	29	521	1,832
Total	13,442	168	2,137	15,747	Total	3,913	99	2,400	6,411	22+23	179	1	9	189
47	12,651	165	1,977	14,793	44+45	3,925	99	2,347	6,371	32	15	(*)	8	23
48	228	3	46	278	81	-12	0	52	41	54	2,266	61	1,409	3,736
73B	558	0	0	558	26. Producers' durable equipment					56	65	(*)	19	85
81	4	0	114	118	Total	278,028	4,144	47,598	329,771	14. Special industry machinery, n.e.c.				
14. Special industry machinery, n.e.c.					32	78	3	18	99	15. Producers' durable equipment				
Total	16,182	187	2,683	19,052	42	14	(*)	11	26	Total	278,028	4,144	47,598	329,771
32	78	3	18	99	48	14,615	179	2,463	17,257	16. Producers' durable equipment				
42	14	(*)	11	26	49	821	6	30	856	Total	278,028	4,144	47,598	329,771

*Less than \$500,000.

NOTE.—The identifying numbers for the producers' durable equipment

categories are those used in table 5.8 in the *National Income and Product Accounts of the United States, Volume 2, 1959-88*.

Text continues from page 83.

cost of goods sold plus the taxes collected—by any—by retail trade establishments.

Retail trade margins also apply to some purchases of goods by other final users; for example, retail trade margins apply to some purchases of personal computers by business and are included in gross private fixed investment. All retail trade margins are included in the retail trade row (row 69B) of the use table.

Imports of goods and services, a component of final uses, are treated in one of two ways, depending on whether or not they are comparable to U.S. commercially produced goods and services. Those that are comparable are included in the use table along with the distribution of the output of their domestic counterparts. The U.S. domestic port values of imported commodities are shown as negative entries in the imports of goods and services column of final use (column 95), so that the row total for a commodity equals the domestic output of that commodity. Other imported goods and services—those not comparable to U.S. commercially produced goods and services, and those purchased and used abroad by U.S. residents—are shown in the use table row for noncomparable imports (row 80).

Examples of noncomparable imports are coffee beans and parakeets; an example of goods purchased and used abroad by U.S. residents is food purchased by U.S. military personnel stationed abroad. The total value of all noncomparable imports is shown as a single negative entry in the imports of goods and services column (column 95).

Imports of goods *by commodity* (the entries in column 95) are valued at U.S. domestic port values plus duties. Imports of services are valued at producers' values. The entries for transportation imports and for trade imports include adjustments that convert the *total of all commodity imports* of goods and services to a foreign port value equivalent. This adjustment is made for conceptual consistency between the I-O accounts and the NIPA's and the balance of payments accounts.

Exports of goods and services—both by commodity and as a total—are valued in U.S. producers' prices, which are considered to be equivalent to U.S. domestic port values. Exports are also a component of final uses.

Inventory change, another component of final uses, represents the change in inventory of each commodity, wherever held, over the benchmark year. It is stated at book value—that is, at its

Data Availability

The estimates from the 1987 benchmark I-O accounts are available on diskette at two-digit (95 I-O industries) and six-digit (480 I-O industries) levels. They can be ordered for "transactions," for "total requirements," or for "all." "Transactions" includes the six-digit make table, use table, direct requirements coefficients table, and estimates by commodity of transportation costs and of wholesale and retail trade margins. "Total requirements" includes six-digit industry-by-commodity or commodity-by-commodity coefficients. Products specifying "all" contain all above data, but for the two-digit I-O industry level only. Each product includes information on the mathematical derivation of the coefficients tables. The BEA accession numbers and the prices for these products are listed below.

For further information about I-O products or when ordering by MasterCard or Visa, call the Interindustry Economics Division at (202) 606-5585. To order by mail, write to the Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. Specify the item, accession number, and price of the product(s) being ordered. For foreign shipment, add 25 percent to the total amount of the order. A check or money order payable to "Bureau of Economic Analysis" must accompany all written orders. Be sure to include a return address.

Item	BEA accession number	Price
<i>Diskettes (3 1/2 inch HD)</i>		
1987 benchmark six-digit, transactions (two diskettes).....	51-94-40-001	\$40
1987 benchmark six-digit, industry-by-commodity total requirements (two diskettes)	51-94-40-002	40
1987 benchmark six-digit, commodity-by-commodity total requirements (two diskettes)	51-94-40-003	40
1987 benchmark two-digit, all.....	51-94-40-004	20
1987 benchmark commodity composition of NIPA final demand ...	51-94-40-005	20
1987 benchmark personal consumption expenditures and producers' durable equipment by NIPA category.....	51-94-40-006	20

BEA's 1987 benchmark I-O accounts, at both the two-digit and six-digit levels, will also be available on CD-ROM through the Commerce Department's National Economic, Social, and Environmental Data Bank (NESE-DB) CD-ROM. The NESE-DB is produced quarterly in February, May, August, and November. Call the Office of Business Analysis at (202) 482-1986 for more information or to place an order. The NESE-DB is also available for public use at over 900 Federal Depository Libraries.

original cost—in the use table. The inventory valuation adjustment, which converts inventory change from book value to replacement cost, is shown as a single entry for the total of all commodities (row 85, column 93).

Supplementary tables

Four supplementary tables, which can be used with the five basic sets of I-O tables, are provided with this article. Three tables (tables C–E) cover the I-O commodity composition of NIPA final demand, of NIPA personal consumption expenditures, and of NIPA producers’ durable equipment; a fourth table (table F) reconciles I-O exports of goods and services and imports of goods and services with NIPA estimates.

The commodity composition tables are necessary as bridges between the I-O accounts and the NIPA’s because the two sets of accounts are based on different valuations and definitions. In the I-O accounts, final use categories are expressed in producers’ prices; in the NIPA’s, final demand categories are expressed in purchasers’ prices. Also, the definitions of I-O final use categories differ from those of the NIPA final demand categories. Before the I-O total requirements tables can be used to measure and analyze the changes in commodity or industry output requirements arising from changes in the level or composition of NIPA final demand, NIPA final demand categories must be converted to equivalent I-O final use categories. That is to say, the analysis should be consistent with I-O final use commodities that are valued at producers’ prices for the I-O year, with separate entries for transportation costs and trade margins.

Table C shows the I-O commodity composition in 1987 of each NIPA category of final demand

in producers’ and purchasers’ prices. It provides a bridge between I-O commodities in producers’ prices and NIPA final demand categories in purchasers’ prices. For each I-O commodity within a category of NIPA final demand, the table shows the transportation costs and trade margins included in the purchasers’ prices.

Table D shows the I-O commodity composition in 1987 of each NIPA category of personal consumption expenditures (NIPA table 2.4) in producers’ and purchasers’ prices. It provides a bridge between I-O commodities in producers’ prices and NIPA personal consumption categories in purchasers’ prices. For each I-O commodity within a NIPA category, the table shows the transportation costs and trade margins included in the purchasers’ prices.

Table E shows the I-O commodity composition in 1987 of each NIPA category of producers’ durable equipment purchases (NIPA table 5.8) in producers’ and purchasers’ prices. It provides a bridge between I-O commodities in producers’ prices and NIPA producers’ durable equipment categories in purchasers’ prices. For each commodity, the table shows the transportation costs and trade margins included in the purchasers’ prices. This table is useful for analyses relating the effects of changes in investment on industry and commodity output.

Table F reconciles the I-O estimates of exports and imports of goods and services with those in the NIPA’s. The same adjustments are made for both exports and imports; therefore, there is no net effect on total GDP. The adjustments are necessary because the NIPA’s—unlike the I-O accounts—include in imports the U.S. merchandise that is returned to the United States from other countries and in exports the foreign merchandise that is reexported from the United States to other countries.²¹ The NIPA’s also exclude definitional and statistical revisions to the balance of payments accounts between NIPA comprehensive revisions.


Appendixes A and B and tables 1 and 2 follow. 

Table F.—Relation of Exports and Imports in the Input-Output Accounts to the National Income and Product Accounts, 1987 Benchmark

[Millions of dollars]

	1987
Exports of goods and services, NIPA	363,952
Less: U.S. merchandise returned	6,781
Reexports	8,875
Plus: Statistical revisions, BPA	276
Equals: Exports of goods and services, I-O	348,572
Imports of goods and services, NIPA	507,050
Less: U.S. merchandise returned	6,781
Reexports	8,875
Plus: Statistical revisions, BPA	-952
Equals: Imports of goods and services, I-O	490,442

NIPA National income and product accounts
 BPA Balance of payments accounts
 I-O Input-output accounts

21. U.S. merchandise returned consists of domestically produced goods that were previously exported to other countries for processing or assembly, or both, and then returned to the United States. An example would be articles of metal that are manufactured in the United States, then exported for further processing abroad, and then returned to the United States for more processing. Reexports consists of commodities of foreign origin that were previously imported into the United States and then exported from the United States in substantially the same condition as when imported. An example would be imported foreign-made monitors that are purchased by U.S. personal computer manufacturers, joined with U.S.-made consoles, and then exported to a third foreign country.

**Appendix A.—Chronological List of Selected SURVEY OF CURRENT BUSINESS
Input-Output Articles**

1. Morris R. Goldman, Martin L. Marimont, and Beatrice N. Vaccara, "The Interindustry Structure of the United States: A Report on the 1958 Input-Output Study," November 1964.
2. "Industrial Impact of the 1966 Housing and Commercial Building Decline," November 1966.
3. "Input-Output Structure of the U.S. Economy: 1963," November 1969.
4. Allan H. Young and Claiborne M. Ball, "Industrial Impacts of Residential Construction and Mobile Home Production," October 1970.
5. Beatrice N. Vaccara, "An Input-Output Method for Long-Range Economic Projections," July 1971, Part I.
6. Philip M. Ritz and Eugene P. Roberts, "Industry Inventory Requirements: An Input-Output Analysis," November 1973.
7. "The Input-Output Structure of the U.S. Economy: 1967," February 1974.
8. Irving Stern, "Industry Effects of Government Expenditures: An Input-Output Analysis," May 1975.
9. Philip M. Ritz, "The Input-Output Structure of the U.S. Economy, 1972," February 1979.
10. Philip M. Ritz, Eugene P. Roberts, and Paula C. Young, "Dollar-Value Tables for the 1972 Input-Output Study," April 1979.
11. "The Input-Output Structure of the U.S. Economy, 1977," May 1984.
12. "Benchmark Input-Output Accounts for the U.S. Economy, 1982," July 1991.
13. "Annual Input-Output Accounts of the U.S. Economy, 1987," April 1992.

Appendix B.—Industry Classification of the 1987 Benchmark Input-Output Accounts

[The titles in boldface represent the industries used for the summary version of the 1987 tables. An asterisk preceding an SIC code indicates that the SIC industry is included in more than one I-O industry. For a description of the systems used in the I-O accounts, see the section "Definitions and conventions for classification."]

I-O industry number and title	Related 1987 SIC codes	I-O industry number and title	Related 1987 SIC codes
AGRICULTURE, FORESTRY, AND FISHERIES		14 Food and kindred products:	
1 Livestock and livestock products:		14.0101 Meat packing plants	2011
1.0100 Dairy farm products	024,*019, *0259, *029	14.0102 Sausages and other prepared meat products	2013
1.0200 Poultry and eggs	0251-3, *0259, *019, *0219, *029	14.0105 Poultry slaughtering and processing	2015
1.0301 Meat animals	0211-4, *0219, *019, *0259, *029	14.0200 Creamery butter	2021
1.0302 Miscellaneous livestock	0271-3, *0279, *019, *0219, *0259, *029	14.0300 Natural, processed, and imitation cheese	2022
2 Other agricultural products:		14.0400 Dry, condensed, and evaporated dairy products	2023
2.0100 Cotton	0131, *019, *0219, *0259, *029	14.0500 Ice cream and frozen desserts	2024
2.0201 Food grains	*011, *019, *0219, *0259, *029	14.0600 Fluid milk	2026
2.0202 Feed grains	*011, *0139, *019, *0219, *0259, *029	14.0700 Canned and cured fish and seafoods	2091
2.0203 Grass seeds	*0139, *019, *0219, *0259, *029	14.0800 Canned specialties	2032
2.0300 Tobacco	0132, *019, *0219, *0259, *029	14.0900 Canned fruits, vegetables, preserves, jams, and jellies	2033
2.0401 Fruits	0171-2, 0174-5, *0179, *019, *0219, *0259, *029	14.1000 Dehydrated fruits, vegetables, and soups	2034
2.0402 Tree nuts	0173, *0179, *019, *0219, *0259, *029	14.1100 Pickles, sauces, and salad dressings	2035
2.0501 Vegetables	0134, *0139, 016, *019, *0219, *0259, *029, *0119	14.1200 Prepared fresh or frozen fish and seafoods	2092
2.0502 Sugar crops	0133, *019, *0219, *0259, *029	14.1301 Frozen fruits, fruit juices, and vegetables	2037
2.0503 Miscellaneous crops	*0119, *0139, *019, *0219, *0259, *029	14.1302 Frozen specialties, n.e.c.	2038
2.0600 Oil bearing crops	0116, *0119, *0139, *0219, *0259, *029	14.1401 Flour and other grain mill products	2041
2.0701 Forest products	*018, *019, *0219, *0259, *029	14.1402 Cereal breakfast foods	2043
2.0702 Greenhouse and nursery products	*018, *019, *0219, *0259, *029	14.1403 Prepared flour mixes and doughs	2045
3 Forestry and fishery products:		14.1501 Dog and cat food	2047
3.0001 Forestry products	081, 083, 097	14.1502 Prepared feeds, n.e.c.	2048
3.0002 Commercial fishing	091	14.1600 Rice milling	2044
4 Agricultural, forestry, and fishery services:		14.1700 Wet corn milling	2046
4.0001 Agricultural, forestry, and fishery services	0254, *0279, 071-2, 075-6, 085, 092	14.1801 Bread, cake, and related products	2051, *546
4.0002 Landscape and horticultural services	078	14.1802 Cookies and crackers	2052
MINING		14.1803 Frozen bakery products, except bread	2053
5+6 Metallic ores mining:		14.1900 Sugar	2061-3
5.0000 Iron and ferroalloy ores	101, 106	14.2001 Candy and other confectionery products	2064
6.0100 Copper ore	102	14.2002 Chocolate and cocoa products	2066
6.0200 Nonferrous metal ores, except copper	103-4, 109, *108	14.2003 Chewing gum	2067
7 Coal mining:		14.2004 Salted and roasted nuts and seeds	2068
7.0000 Coal	122-3, *124	14.2101 Malt beverages	2082
8 Crude petroleum and natural gas:		14.2102 Malt	2083
8.0000 Crude petroleum and natural gas	131-2, *138	14.2103 Wines, brandy, and brandy spirits	2084
9+10 Nonmetallic minerals mining:		14.2104 Distilled and blended liquors	2085
9.0001 Dimension, crushed and broken stone	141-2	14.2200 Bottled and canned soft drinks	2086
9.0002 Sand and gravel	144	14.2300 Flavoring extracts and flavoring syrups, n.e.c.	2087
9.0003 Clay, ceramic, and refractory minerals	145	14.2400 Cottonseed oil mills	2074
9.0004 Nonmetallic mineral services and miscellaneous minerals	*148, 149	14.2500 Soybean oil mills	2075
10.0000 Chemical and fertilizer minerals	147	14.2600 Vegetable oil mills, n.e.c.	2076
CONSTRUCTION		14.2700 Animal and marine fats and oils	2077
11+12 Construction:		14.2800 Roasted coffee	2095
11.0000 New and maintenance and repair	15-17, 6552	14.2900 Edible fats and oils, n.e.c.	2079
11.0601 Petroleum and natural gas well drilling	*138	14.3000 Manufactured ice	2097
11.0602 Petroleum, natural gas, and solid mineral exploration	*138, *108, *124, *148	14.3100 Macaroni, spaghetti, vermicelli, and noodles	2098
11.0603 Access structures for solid mineral development	*108, *124, *148	14.3201 Potato chips and similar snacks	2096
12.0215 Maintenance and repair of petroleum and natural gas wells	*138	14.3202 Food preparations, n.e.c.	2099
MANUFACTURING		15 Tobacco products:	
13 Ordnance and accessories:		15.0101 Cigarettes	211
13.0100 Guided missiles and space vehicles	3761	15.0102 Cigars	212
13.0200 Ammunition, except for small arms, n.e.c.	3483	15.0103 Chewing and smoking tobacco and snuff	213
13.0300 Tanks and tank components	3795	15.0200 Tobacco stemming and redrying	214
13.0500 Small arms	3484	16 Broad and narrow fabrics, yarn and thread mills:	
13.0600 Small arms ammunition	3482	16.0100 Broadwoven fabric mills and fabric finishing plants	221-3, 2261-2
13.0700 Ordnance and accessories, n.e.c.	3489	16.0200 Narrow fabric mills	224
		16.0300 Yarn mills and finishing of textiles, n.e.c.	2269, 2281-2
		16.0400 Thread mills	2284
		17 Miscellaneous textile goods and floor coverings:	
		17.0100 Carpets and rugs	227
		17.0600 Coated fabrics, not rubberized	2295
		17.0700 Tire cord and fabrics	2296
		17.0900 Cordage and twine	2298
		17.1001 Nonwoven fabrics	2297
		17.1100 Textile goods, n.e.c.	2299
		18 Apparel:	
		18.0101 Women's hosiery, except socks	2251
		18.0102 Hosiery, n.e.c.	2252
		18.0201 Knit outerwear mills	2253
		18.0202 Knit underwear and nightwear mills	2254
		18.0203 Knitting mills, n.e.c.	2259
		18.0300 Knit fabric mills	2257-8
		18.0400 Apparel made from purchased materials	231-8, *3999
		19 Miscellaneous fabricated textile products:	
		19.0100 Curtains and draperies	2391
		19.0200 Housefurnishings, n.e.c.	2392
		19.0301 Textile bags	2393
		19.0302 Canvas and related products	2394
		19.0303 Pleating and stitching	2395
		19.0304 Automotive and apparel trimmings	2396
		19.0305 Schiffli machine embroideries	2397
		19.0306 Fabricated textile products, n.e.c.	2399

Appendix B.—Industry Classification of the 1987 Benchmark Input-Output Accounts—Continued

I-O industry number and title		Related 1987 SIC codes	I-O industry number and title		Related 1987 SIC codes
20+21	Lumber and wood products:		31	Petroleum refining and related products:	
20.0100	Logging	241	31.0101	Petroleum refining	291
20.0200	Sawmills and planing mills, general	2421	31.0102	Lubricating oils and greases	2992
20.0300	Hardwood dimension and flooring mills	2426	31.0103	Products of petroleum and coal, n.e.c.	2999
20.0400	Special product sawmills, n.e.c.	2429	31.0200	Asphalt paving mixtures and blocks	2951
20.0501	Millwork	2431	31.0300	Asphalt felts and coatings	2952
20.0502	Wood kitchen cabinets	2434			
20.0600	Veneer and plywood	2435-6	32	Rubber and miscellaneous plastics products:	
20.0701	Structural wood members, n.e.c.	2439	32.0100	Tires and inner tubes	301
20.0702	Prefabricated wood buildings and components	2452	32.0200	Rubber and plastics footwear	302
20.0703	Mobile homes	2451	32.0300	Fabricated rubber products, n.e.c.	306
20.0800	Wood preserving	2491	32.0400	Miscellaneous plastics products, n.e.c.	308
20.0901	Wood pallets and skids	2448	32.0500	Rubber and plastics hose and belting	3052
20.0903	Wood products, n.e.c.	2499	32.0600	Gaskets, packing, and sealing devices	3053
20.0904	Reconstituted wood products	2493			
21.0000	Wood containers, n.e.c.	2441, 2449	33+34	Footwear, leather, and leather products:	
22+23	Furniture and fixtures:		33.0001	Leather tanning and finishing	311
22.0101	Wood household furniture, except upholstered	2511	34.0100	Boot and shoe cut stock and findings	313
22.0102	Household furniture, n.e.c.	2519	34.0201	Shoes, except rubber	3143-4, 3149
22.0103	Wood television and radio cabinets	2517	34.0202	House slippers	3142
22.0200	Upholstered household furniture	2512	34.0301	Leather gloves and mittens	315
22.0300	Metal household furniture	2514	34.0302	Luggage	316
22.0400	Mattresses and bedsprings	2515	34.0303	Women's handbags and purses	3171
23.0100	Wood office furniture	2521	34.0304	Personal leather goods, n.e.c.	3172
23.0200	Office furniture, except wood	2522	34.0305	Leather goods, n.e.c.	319
23.0300	Public building and related furniture	253			
23.0400	Wood partitions and fixtures	2541	35	Glass and glass products:	
23.0500	Partitions and fixtures, except wood	2542	35.0100	Glass and glass products, except containers	321, 3229, 323
23.0600	Drapery hardware and window blinds and shades	2591	35.0200	Glass containers	3221
23.0700	Furniture and fixtures, n.e.c.	2599			
24	Paper and allied products, except containers:		36	Stone and clay products:	
24.0100	Pulp mills	261	36.0100	Cement, hydraulic	324
24.0400	Envelopes	2677	36.0200	Brick and structural clay tile	3251
24.0500	Sanitary paper products	2676	36.0300	Ceramic wall and floor tile	3253
24.0701	Paper coating and glazing	2671-2	36.0400	Clay refractories	3255
24.0702	Bags, except textile	2673-4	36.0500	Structural clay products, n.e.c.	3259
24.0703	Die-cut paper and paperboard and cardboard	2675	36.0600	Vitreous china plumbing fixtures	3261
24.0705	Stationery, tablets, and related products	2678	36.0701	Vitreous china table and kitchenware	3262
24.0706	Converted paper products, n.e.c.	2679	36.0702	Fine earthenware table and kitchenware	3263
24.0800	Paper and paperboard mills	262-3	36.0800	Porcelain electrical supplies	3264
			36.0900	Pottery products, n.e.c.	3269
25	Paperboard containers and boxes:		36.1000	Concrete block and brick	3271
25.0000	Paperboard containers and boxes	265	36.1100	Concrete products, except block and brick	3272
			36.1200	Ready-mixed concrete	3273
26A	Newspapers and periodicals:		36.1300	Lime	3274
26.0100	Newspapers	271	36.1400	Gypsum products	3275
26.0200	Periodicals	272	36.1500	Cut stone and stone products	328
			36.1600	Abrasive products	3291
26B	Other printing and publishing:		36.1700	Asbestos products	3292
26.0301	Book publishing	2731	36.1900	Minerals, ground or treated	3295
26.0302	Book printing	2732	36.2000	Mineral wool	3296
26.0400	Miscellaneous publishing	274	36.2100	Nonmetallic refractories	3297
26.0501	Commercial printing	275	36.2200	Nonmetallic mineral products, n.e.c.	3299
26.0601	Manifold business forms	276			
26.0602	Blankbooks, looseleaf binders and devices	2782	37	Primary iron and steel manufacturing:	
26.0700	Greeting cards	277	37.0101	Blast furnaces and steel mills	3312
26.0802	Bookbinding and related work	2789	37.0102	Electrometallurgical products, except steel	3313
26.0803	Typesetting	2791	37.0103	Steel wiredrawing and steel nails and spikes	3315
26.0806	Platemaking and related services	2796	37.0104	Cold-rolled steel sheet, strip, and bars	3316
			37.0105	Steel pipe and tubes	3317
27A	Industrial and other chemicals:		37.0200	Iron and steel foundries	332
27.0100	Industrial inorganic and organic chemicals	281 (excl. *2819), 2865, 2869	37.0300	Iron and steel forgings	3462
27.0401	Gum and wood chemicals	2861	37.0401	Metal heat treating	3398
27.0402	Adhesives and sealants	2891	37.0402	Primary metal products, n.e.c.	3399
27.0403	Explosives	2892			
27.0404	Printing ink	2893	38	Primary nonferrous metals manufacturing:	
27.0405	Carbon black	2895	38.0100	Primary smelting and refining of copper	3331
27.0406	Chemicals and chemical preparations, n.e.c.	2899	38.0400	Primary aluminum	3334, *2819
			38.0501	Primary nonferrous metals, n.e.c.	3339
27B	Agricultural fertilizers and chemicals:		38.0600	Secondary nonferrous metals	334
27.0201	Nitrogenous and phosphatic fertilizers	2873-4	38.0700	Rolling, drawing, and extruding of copper	3351
27.0202	Fertilizers, mixing only	2875	38.0800	Aluminum rolling and drawing	3353-5
27.0300	Pesticides and agricultural chemicals, n.e.c.	2879	38.0900	Nonferrous rolling and drawing, n.e.c.	3356
			38.1000	Nonferrous wiredrawing and insulating	3357
28	Plastics and synthetic materials:		38.1100	Aluminum castings	3363, 3365
28.0100	Plastics materials and resins	2821	38.1200	Copper foundries	3366
28.0200	Synthetic rubber	2822	38.1300	Nonferrous castings, n.e.c.	3364, 3369
28.0300	Cellulosic manmade fibers	2823	38.1400	Nonferrous forgings	3463
28.0400	Manmade organic fibers, except cellulosic	2824			
29A	Drugs:		39	Metal containers:	
29.0100	Drugs	283	39.0100	Metal cans	3411
			39.0200	Metal shipping barrels, drums, kegs, and pails	3412
29B	Cleaning and toilet preparations:		40	Heating, plumbing, and fabricated structural metal products:	
29.0201	Soap and other detergents	2841	40.0100	Enameled iron and metal sanitary ware	3431
29.0202	Polishes and sanitation goods	2842	40.0200	Plumbing fixture fittings and trim	3432
29.0203	Surface active agents	2843	40.0300	Heating equipment, except electric and warm air furnaces.	3433
29.0300	Toilet preparations	2844	40.0400	Fabricated structural metal	3441
			40.0500	Metal doors, sash, frames, molding, and trim	3442
30	Paints and allied products:		40.0600	Fabricated plate work (boiler shops)	3443
30.0000	Paints and allied products	285	40.0700	Sheet metal work	3444
			40.0800	Architectural and ornamental metal work	3446
			40.0901	Prefabricated metal buildings and components	3448
			40.0902	Miscellaneous structural metal work	3449

Appendix B.—Industry Classification of the 1987 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1987 SIC codes	I-O industry number and title	Related 1987 SIC codes
41 Screw machine products and stampings:		54.0400 Electric housewares and fans	3634
41.0100 Screw machine products, bolts, etc.	3451-2	54.0500 Household vacuum cleaners	3635
41.0201 Automotive stampings	3465	54.0700 Household appliances, n.e.c.	3639
41.0202 Crowns and closures	3466	55 Electric lighting and wiring equipment:	
41.0203 Metal stampings, n.e.c.	3469	55.0100 Electric lamp bulbs and tubes	3641
42 Other fabricated metal products:		55.0200 Lighting fixtures and equipment	3645-8
42.0100 Cutlery	3421	55.0300 Wiring devices	3643-4
42.0201 Hand and edge tools, except machine tools and handsaws.	3423	56 Audio, video, and communication equipment:	
42.0202 Saw blades and handsaws	3425	56.0100 Household audio and video equipment	3651
42.0300 Hardware, n.e.c.	3429	56.0200 Prerecorded records and tapes	3652
42.0401 Plating and polishing	3471	56.0300 Telephone and telegraph apparatus	3661
42.0402 Coating, engraving, and allied services, n.e.c.	3479	56.0500 Communication equipment	3663, 3669
42.0500 Miscellaneous fabricated wire products	3495-6	57 Electronic components and accessories:	
42.0700 Steel springs, except wire	3493	57.0100 Electron tubes	3671
42.0800 Pipe, valves, and pipe fittings	3491-2, 3494, 3498	57.0200 Semiconductors and related devices	3674
42.1000 Metal foil and leaf	3497	57.0300 Other electronic components	3672, 3675-9
42.1100 Fabricated metal products, n.e.c.	3499	58 Miscellaneous electrical machinery and supplies:	
43 Engines and turbines:		58.0100 Storage batteries	3691
43.0100 Turbines and turbine generator sets	3511	58.0200 Primary batteries, dry and wet	3692
43.0200 Internal combustion engines, n.e.c.	3519	58.0400 Electrical equipment for internal combustion engines	3694
44+45 Farm, construction, and mining machinery:		58.0600 Magnetic and optical recording media	3695
44.0001 Farm machinery and equipment	3523	58.0700 Electrical machinery, equipment, and supplies, n.e.c.	3699
44.0002 Lawn and garden equipment	3524	59A Motor vehicles (passenger cars and trucks):	
45.0100 Construction machinery and equipment	3531	59.0301 Motor vehicles and passenger car bodies	3711
45.0200 Mining machinery, except oil field	3532	59B Truck and bus bodies, trailers, and motor vehicles parts:	
45.0300 Oil and gas field machinery and equipment	3533	59.0100 Truck and bus bodies	3713
46 Materials handling machinery and equipment:		59.0200 Truck trailers	3715
46.0100 Elevators and moving stairways	3534	59.0302 Motor vehicle parts and accessories	3714
46.0200 Conveyors and conveying equipment	3535	60 Aircraft and parts:	
46.0300 Hoists, cranes, and monorails	3536	60.0100 Aircraft	3721
46.0400 Industrial trucks and tractors	3537	60.0200 Aircraft and missile engines and engine parts	3724, 3764
47 Metalworking machinery and equipment:		60.0400 Aircraft and missile equipment, n.e.c.	3728, 3769
47.0100 Machine tools, metal cutting types	3541	61 Other transportation equipment:	
47.0200 Machine tools, metal forming types	3542	61.0100 Ship building and repairing	3731
47.0300 Special dies and tools and machine tool accessories	3544-5	61.0200 Boat building and repairing	3732
47.0401 Power-driven handtools	3546	61.0300 Railroad equipment	374
47.0402 Rolling mill machinery and equipment	3547	61.0500 Motorcycles, bicycles, and parts	375
47.0404 Electric and gas welding and soldering equipment	3548	61.0601 Travel trailers and campers	3792
47.0405 Industrial patterns	3543	61.0603 Motor homes	3716
47.0500 Metalworking machinery, n.e.c.	3549	61.0700 Transportation equipment, n.e.c.	3799
48 Special industry machinery and equipment:		62 Scientific and controlling instruments:	
48.0100 Food products machinery	3556	62.0101 Search and navigation equipment	381
48.0200 Textile machinery	3552	62.0102 Laboratory apparatus and furniture	3821
48.0300 Woodworking machinery	3553	62.0200 Mechanical measuring devices	3823-4, 3829
48.0400 Paper industries machinery	3554	62.0300 Environmental controls	3822
48.0500 Printing trades machinery and equipment	3555	62.0400 Surgical and medical instruments and apparatus	3841
48.0600 Special industry machinery, n.e.c.	3559	62.0500 Surgical appliances and supplies	3842
49 General industrial machinery and equipment:		62.0600 Dental equipment and supplies	3843
49.0100 Pumps and compressors	3561, 3563	62.0700 Watches, clocks, watchcases, and parts	387
49.0200 Ball and roller bearings	3562	62.0800 X-ray apparatus and tubes	3844
49.0300 Blowers and fans	3564	62.0900 Electromedical and electrotherapeutic apparatus	3845
49.0500 Mechanical power transmission equipment	3566, 3568	62.1000 Laboratory and optical instruments	3826-7
49.0600 Industrial process furnaces and ovens	3567	62.1100 Instruments to measure electricity	3825
49.0700 General industrial machinery and equipment, n.e.c.	3569	63 Ophthalmic and photographic equipment:	
49.0800 Packaging machinery	3565	63.0200 Ophthalmic goods	385
50 Miscellaneous machinery, except electrical:		63.0300 Photographic equipment and supplies	386
50.0100 Carburetors, pistons, rings, and valves	3592	64 Miscellaneous manufacturing:	
50.0200 Fluid power equipment	3593-4	64.0101 Jewelry, precious metal	3911
50.0300 Scales and balances, except laboratory	3596	64.0102 Jewelers' materials and lapidary work	3915
50.0400 Industrial and commercial machinery and equipment, n.e.c.	3599	64.0104 Silverware and plated ware	3914
51 Computer and office equipment:		64.0105 Costume jewelry	3961
51.0102 Calculating and accounting machines	3578	64.0200 Musical instruments	393
51.0103 Electronic computers	3571	64.0301 Games, toys, and children's vehicles	3944
51.0104 Computer peripheral equipment	3572, 3575, 3577	64.0302 Dolls and stuffed toys	3942
51.0400 Office machines, n.e.c.	3579	64.0400 Sporting and athletic goods, n.e.c.	3949
52 Service industry machinery:		64.0501 Pens, mechanical pencils, and parts	3951
52.0100 Automatic vending machines	3581	64.0502 Lead pencils and art goods	3952
52.0200 Commercial laundry equipment	3582	64.0503 Marking devices	3953
52.0300 Refrigeration and heating equipment	3585	64.0504 Carbon paper and inked ribbons	3955
52.0400 Measuring and dispensing pumps	3586	64.0700 Fasteners, buttons, needles, and pins	3965
52.0500 Service industry machinery, n.e.c.	3589	64.0800 Brooms and brushes	3991
53 Electrical industrial equipment and apparatus:		64.0900 Hard surface floor coverings, n.e.c.	3996
53.0200 Power, distribution, and specialty transformers	3612	64.1000 Burial caskets	3995
53.0300 Switchgear and switchboard apparatus	3613	64.1100 Signs and advertising specialties	3993
53.0400 Motors and generators	3621	64.1200 Manufacturing industries, n.e.c.	*3999
53.0500 Relays and industrial controls	3625	TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	
53.0700 Carbon and graphite products	3624	65A Railroads and related services; passenger ground transportation:	
53.0800 Electrical industrial apparatus, n.e.c.	3629	65.0100 Railroads and related services	40, 474, *4789
54 Household appliances:		65.0200 Local and suburban transit and interurban highway passenger transportation.	41
54.0100 Household cooking equipment	3631	65B Motor freight transportation and warehousing:	
54.0200 Household refrigerators and freezers	3632	65.0300 Motor freight transportation and warehousing	42, *4789
54.0300 Household laundry equipment	3633		

Appendix B.—Industry Classification of the 1987 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1987 SIC codes	I-O industry number and title	Related 1987 SIC codes
65C Water transportation: 65.0400 Water transportation	44	75 Automotive repair and services: 75.0001 Automotive rental and leasing, without drivers	751
65D Air transportation: 65.0500 Air transportation	45	75.0002 Automotive repair shops and services	753, 7549
65E Pipelines, freight forwarders, and related services: 65.0600 Pipelines, except natural gas	46	75.0003 Automobile parking and car washes	752, 7542
65.0701 Freight forwarders and other transportation services	473, 4783, 4785, *4789	76 Amusements: 76.0101 Motion picture services and theaters	781-3
65.0702 Arrangement of passenger transportation	472	76.0102 Video tape rental	784
66 Communications, except radio and TV: 66.0000 Communications, except radio and TV	481-2, 484, 489	76.0201 Theatrical producers (except motion picture), bands, orchestras and entertainers	792
67 Radio and TV broadcasting: 67.0000 Radio and TV broadcasting	483	76.0202 Bowling centers	793
68A Electric services (utilities): 68.0100 Electric services (utilities)	491, *493	76.0203 Professional sports clubs and promoters	7941
68B Gas production and distribution (utilities): 68.0200 Gas production and distribution (utilities)	492, *493	76.0204 Racing, including track operation	7948
68C Water and sanitary services: 68.0301 Water supply and sewerage systems	494, 4952	76.0205 Physical fitness facilities and membership sports and recreation clubs	7991, 7997
68.0302 Sanitary services, steam supply, and irrigation systems	4953, 4959, 496-7, *493	76.0206 Other amusement and recreation services	791, 7992-3, 7996, 7999
WHOLESALE AND RETAIL TRADE			
69A Wholesale trade: 69.0100 Wholesale trade	50, 51	77A Health services: 77.0100 Doctors and dentists	801-3, 8041
69B Retail trade: 69.0200 Retail trade, except eating and drinking	52-7 (excl. *546), 59, *7389, 8042	77.0200 Hospitals	806
FINANCE, INSURANCE, AND REAL ESTATE			
70A Finance: 70.0100 Banking	60	77.0301 Nursing and personal care facilities	805
70.0200 Credit agencies other than banks	61, 67 (excl. 6732)	77.0302 Other medical and health services, including veterinarians	074, 8043, 8049, 807-9
70.0300 Security and commodity brokers	62	77B Educational and social services, and membership organizations: 77.0401 Elementary and secondary schools	821
70B Insurance: 70.0400 Insurance carriers	63	77.0402 Colleges, universities, and professional schools	822
70.0500 Insurance agents, brokers, and services	64	77.0403 Private libraries, vocational schools, and educational services, n.e.c.	823-4, 829
71A Owner-occupied dwellings: 71.0100 Owner-occupied dwellings		77.0501 Business associations and professional membership organizations	861-2
71B Real estate and royalties: 71.0201 Real estate agents, managers, operators, and lessors ..	65 (excl. 6552)	77.0502 Labor organizations, civic, social, and fraternal associations	863-4
71.0202 Royalties		77.0503 Religious organizations	866
SERVICES			
72A Hotels and lodging places: 72.0100 Hotels and lodging places	70	77.0504 Other membership organizations	84, 865, 869, 8733, 6732
72B Personal and repair services (except auto): 72.0201 Laundry, cleaning, garment services, and shoe repair ...	721, 725	77.0600 Job training and related services	833
72.0202 Funeral service and crematories	726	77.0700 Child day care services	835
72.0203 Portrait photographic studios, and other miscellaneous personal services	722, 729	77.0800 Residential care	836
72.0204 Electrical repair shops	762	77.0900 Social services, n.e.c.	832, 839
72.0205 Watch, clock, jewelry, and furniture repair	763-4	GOVERNMENT ENTERPRISES	
72.0300 Beauty and barber shops	723-4	78 Federal Government enterprises: 78.0100 U.S. Postal Service	43
73A Computer and data processing services: 73.0104 Computer and data processing services	737	78.0200 Federal electric utilities	(1)
73B Legal, engineering, accounting, and related services: 73.0301 Legal services	81	78.0500 Other Federal Government enterprises	(1)
73.0302 Engineering, architectural, and surveying services	871	79 State and local government enterprises: 79.0100 State and local government passenger transit	(1)
73.0303 Accounting, auditing and bookkeeping, and miscellaneous services, n.e.c.	872, 89	79.0200 State and local government electric utilities	(1)
79.0300 Other State and local government enterprises		79.0300 Other State and local government enterprises	(1)
SPECIAL INDUSTRIES			
72A Hotels and lodging places: 72.0100 Hotels and lodging places	70	80 Noncomparable imports: 80.0000 Noncomparable imports	(2)
72B Personal and repair services (except auto): 72.0201 Laundry, cleaning, garment services, and shoe repair ...	721, 725	81 Scrap, used and secondhand goods: 81.0001 Scrap	(3)
72.0202 Funeral service and crematories	726	81.0002 Used and secondhand goods	(3)
72.0203 Portrait photographic studios, and other miscellaneous personal services	722, 729	82 General government industry: 82.0000 General government industry	(4)
72.0204 Electrical repair shops	762	83 Rest of the world adjustment to final uses: 83.0001 Rest of the world adjustment to final uses	(5)
72.0205 Watch, clock, jewelry, and furniture repair	763-4	84 Household industry: 84.0000 Household industry	(6)
72.0300 Beauty and barber shops	723-4	85 Inventory valuation adjustment: 85.0000 Inventory valuation adjustment	(7)
73A Computer and data processing services: 73.0104 Computer and data processing services	737	VALUE ADDED	
73B Legal, engineering, accounting, and related services: 73.0301 Legal services	81	88.0000 Compensation of employees	(8)
73.0302 Engineering, architectural, and surveying services	871	89.0000 Indirect business tax and nontax liability	(8)
73.0303 Accounting, auditing and bookkeeping, and miscellaneous services, n.e.c.	872, 89	90.0000 Other value added	(8)
73C Other business and professional services, except medical: 73.0101 Miscellaneous repair shops	769	FINAL USES	
73.0102 Services to dwellings and other buildings	734	91.0000 Personal consumption expenditures	(9)
73.0103 Personnel supply services	736	92.0000 Gross private fixed investment	(9)
73.0105 Management and consulting services, testing and research labs	874, 8731-2, 8734	93.0000 Change in business inventories	(9)
73.0106 Detective and protective services	7381-2	94.0000 Exports of goods and services	(9)
73.0107 Miscellaneous equipment rental and leasing	735	95.0000 Imports of goods and services	(9)
73.0108 Photofinishing labs and commercial photography	7384, 7335-6	96.0000 Federal Government purchases, national defense	(9)
73.0109 Other business services	732, 7383, *7389, 7331, 7334, 7338	97.0000 Federal Government purchases, nondefense	(9)
73D Advertising: 73.0200 Advertising	731	98.0001 State and local government purchases, elementary and secondary public school systems	(9)
74 Eating and drinking places: 74.0000 Eating and drinking places	58	98.0002 State and local government purchases, public educational facilities beyond high school	(9)

Appendix B.—Industry Classification of the 1987 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1987 SIC codes	I-O industry number and title	Related 1987 SIC codes
98.0003 State and local government purchases, other education and libraries.	(9)	11.0204 Garages and service stations .....	.....
99.1001 State and local government purchases, hospitals and categorical health programs.	(9)	11.0205 Stores and restaurants .....	.....
99.1002 State and local government purchases, public welfare institutions and activities.	(9)	11.0206 Religious buildings .....	.....
99.1003 State and local government purchases, public sewerage systems, capital account only.	(9)	11.0207 Educational buildings .....	.....
99.1004 State and local government purchases, sanitation	(9)	11.0231 Hospitals .....	.....
99.2001 State and local government purchases, police	(9)	11.0232 Residential institutions and other health-related facilities	.....
99.2002 State and local government purchases, fire fighting organizations and auxiliary services.	(9)	11.0241 Amusement and recreation buildings .....	.....
99.2003 State and local government purchases, correctional institutions.	(9)	11.0250 Other nonfarm buildings .....	.....
99.3001 State and local government purchases, public highways (excluding non-capital expenditures of toll roads).	(9)	11.0301 Telephone and telegraph facilities .....	.....
99.3002 State and local government purchases, waterports and airports, capital account only.	(9)	11.0302 Railroads .....	.....
99.3003 State and local government purchases, government-operated transit systems, capital account only.	(9)	11.0303 Electric utility facilities .....	.....
99.3004 State and local government purchases, other commerce activities n.e.c., capital account only.	(9)	11.0304 Gas utility facilities .....	.....
99.3005 State and local government purchases, gas and electric utilities, capital account only.	(9)	11.0305 Petroleum pipelines .....	.....
99.3006 State and local government purchases, government-operated water supply facilities, capital account only.	(9)	11.0306 Water supply facilities .....	.....
99.3007 State and local government purchases, redevelopment projects, capital account only.	(9)	11.0307 Sewer system facilities .....	.....
99.3008 State and local government purchases, natural and agricultural resources and recreation facilities.	(9)	11.0308 Local transit facilities .....	.....
99.3009 State and local government purchases, other general government activities, n.e.c.	(9)	11.0400 Highways and streets .....	.....
ADDENDUM: Special commodity groupings		11.0501 Farm housing units and additions and alterations .....	.....
11 New construction:		11.0502 Farm service facilities .....	.....
11.0101 Residential 1-unit structures, nonfarm .....	.....	11.0601 Petroleum and natural gas well drilling .....	.....
11.0102 Residential 2-4 unit structures, nonfarm .....	.....	11.0602 Petroleum, natural gas, and solid mineral exploration .....	.....
11.0103 Residential garden apartments .....	.....	11.0603 Access structures for solid mineral development .....	.....
11.0104 Residential high-rise apartments .....	.....	11.0701 Military facilities .....	.....
11.0105 Residential additions and alterations, nonfarm .....	.....	11.0702 Dams and reservoirs .....	.....
11.0106 Hotels and motels .....	.....	11.0703 Other conservation and development facilities .....	.....
11.0107 Dormitories and other group housing .....	.....	11.0704 Other nonbuilding facilities .....	.....
11.0201 Industrial buildings .....	.....	12 Maintenance and repair construction:	
11.0202 Office buildings .....	.....	12.0100 Nonfarm residential structures .....	.....
11.0203 Warehouses .....	.....	12.0201 Other nonfarm buildings .....	.....
		12.0202 Farm residential buildings .....	.....
		12.0203 Farm service facilities .....	.....
		12.0204 Telephone and telegraph facilities .....	.....
		12.0205 Railroads .....	.....
		12.0206 Electric utility facilities .....	.....
		12.0207 Gas utility facilities .....	.....
		12.0208 Petroleum pipelines .....	.....
		12.0209 Water supply facilities .....	.....
		12.0210 Sewer facilities .....	.....
		12.0211 Local transit facilities .....	.....
		12.0212 Military facilities .....	.....
		12.0213 Conservation and development facilities .....	.....
		12.0214 Highways and streets .....	.....
		12.0215 Petroleum and natural gas wells .....	.....
		12.0216 Other nonbuilding facilities .....	.....

1. Although the SIC assigns the same codes to activities of both private firms and government agencies, SIC codes in the I-O accounts are used only for classifying private activities.
 2. Noncomparable imports include imported goods and services that are not commercially produced in the United States, and goods and services that are produced abroad and used abroad by U.S. residents—for example, defense spending abroad.
 3. Industry output is zero because there is no primary producing industry. Scrap is a secondary product of many industries, and used goods are sales and purchases typically between final uses. The sales are shown as negative values in the use table.
 4. Industry output is defined as the compensation of general government employees except for those engaged

in construction work; their compensation is included in the construction industry. It also excludes the compensation of employees of government enterprises.
 5. The commodity entries include adjustments to personal consumption expenditures and government purchases that eliminate items that are actually exports.
 6. Industry output is defined as the compensation of domestic household workers.
 7. The inventory valuation adjustment converts the inventory changes based on withdrawals valued primarily at historical cost as reported by most businesses to replacement cost, the valuation used in the I-O accounts.
 8. There are no related SIC codes since these categories are not industries, but are categories of income.
 9. There are no related SIC codes since these categories are not industries, but are categories of final uses.

Table 1.—The Make of Commodities

[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	New construction	Maintenance and repair construction
		1	2	3	4	5+6	7	8	9+10	11	12
1	Livestock and livestock products	83,609		243	494						
2	Other agricultural products		82,183	1,788	974						
3	Forestry and fishery products			7,456							
4	Agricultural, forestry, and fishery services				22,201						
5+6	Metallic ores mining					6,800					
7	Coal mining						25,447				
8	Crude petroleum and natural gas							67,947			
9+10	Nonmetallic minerals mining								11,321		
11+12	Construction									445,347	173,466
13	Ordnance and accessories										
14	Food and kindred products										
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills										
17	Miscellaneous textile goods and floor coverings										
18	Apparel										
19	Miscellaneous fabricated textile products										
20+21	Lumber and wood products										
22+23	Furniture and fixtures										
24	Paper and allied products, except containers										
25	Paperboard containers and boxes										
26A	Newspapers and periodicals										
26B	Other printing and publishing										
27A	Industrial and other chemicals							2	8		
27B	Agricultural fertilizers and chemicals								1		
28	Plastics and synthetic materials										
29A	Drugs										
29B	Cleaning and toilet preparations										
30	Paints and allied products										
31	Petroleum refining and related products							1	140		
32	Rubber and miscellaneous plastics products										
33+34	Footwear, leather, and leather products										
35	Glass and glass products										
36	Stone and clay products								402		
37	Primary iron and steel manufacturing								1		
38	Primary nonferrous metals manufacturing										
39	Metal containers										
40	Heating, plumbing, and fabricated structural metal products										
41	Screw machine products and stampings										
42	Other fabricated metal products										
43	Engines and turbines										
44+45	Farm, construction, and mining machinery										
46	Materials handling machinery and equipment										
47	Metalworking machinery and equipment										
48	Special industry machinery and equipment										
49	General industrial machinery and equipment										
50	Miscellaneous machinery, except electrical										
51	Computer and office equipment										
52	Service industry machinery										
53	Electrical industrial equipment and apparatus										
54	Household appliances										
55	Electric lighting and wiring equipment										
56	Audio, video, and communication equipment										
57	Electronic components and accessories										
58	Miscellaneous electrical machinery and supplies										
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts										
60	Aircraft and parts										
61	Other transportation equipment										
62	Scientific and controlling instruments										
63	Ophthalmic and photographic equipment										
64	Miscellaneous manufacturing										
65A	Railroads and related services; passenger ground transportation										
65B	Motor freight transportation and warehousing										
65C	Water transportation										
65D	Air transportation										
65E	Pipelines, freight forwarders, and related services										
66	Communications, except radio and TV										
67	Radio and TV broadcasting										
68A	Electric services (utilities)										
68B	Gas production and distribution (utilities)							59			
68C	Water and sanitary services										
69A	Wholesale trade										
69B	Retail trade										
70A	Finance										
70B	Insurance										
71A	Owner-occupied dwellings										
71B	Real estate and royalties										
72A	Hotels and lodging places										
72B	Personal and repair services (except auto)										
73A	Computer and data processing services										
73B	Legal, engineering, accounting, and related services										
73C	Other business and professional services, except medical										
73D	Advertising										
74	Eating and drinking places										
75	Automotive repair and services										
76	Amusements										
77A	Health services										
77B	Educational and social services, and membership organizations										
78	Federal Government enterprises										
79	State and local government enterprises										
82	General government industry										
84	Household industry										
85	Inventory valuation adjustment										
T	Total commodity output	83,609	82,183	9,488	23,668	6,802	25,451	68,008	11,884	445,347	173,466

*Less than \$500,000.

by Industries, 1987 Benchmark
at producers' prices]

Ordnance and accessories	Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Newspapers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Industry number
13	14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	
	3,075						131								1
	771														2
															3
															4
													(*)		5+6
													143		7
													1,259		8
															9+10
															11+12
26,047															13
	325,129						2		15	5			497	11	14
		26,361							18				2		15
			34,225	298	183	1,838		1	2			1			16
			317	15,177	4	75		1	53	1			17	1	17
			140	3	63,762	183		1							18
			68	35	55	16,647	10	20	13	2					19
1				2	(*)	8	72,281	160	14	7			1		20+21
2	1		1	2		35	136	36,040	10	1			2		22+23
	5	20	19	175	3	32	49	16	79,160	86			181		24
	3					1	4		87	24,848			25		25
									1				14,993	1,781	26A
									587	38			677	64,778	26B
24	119		1	43	1	17	3	3	42				28		27A
	13					3	1						75,354	843	27B
	7			343		1	4						1,132	11,877	28
	250								1				3,170	177	29A
	107			3	3	27		1	2				210	59	29B
	1			4					1				1,294	342	30
									2				62		31
4			24	80	18	25	71	40	407	153			5,357	23	32
5	26		2	2	43	18	1	4	1				185	2	33+34
						3		4							35
	(*)		4	33		1	71		100						36
3	124								1	1					37
															38
										42					39
2				1		1	75	59							40
5						1	6	10							41
10			15	1		1	1	6							42
4			3	15		4	30	89	162	56					43
13															44+45
1	3														46
5															47
															48
4															49
8															50
2															51
	2														52
															53
															54
															55
															56
															57
															58
															59A
															59B
															60
															61
															62
															63
															64
															65A
															65B
															65C
															65D
															65E
															66
															67
															68A
															68B
															68C
															69A
															69B
															70A
															70B
															71A
															71B
															72A
															72B
															73A
															73B
															73C
															73D
															74
															75
															76
															77A
															77B
															78
															79
															82
															84
															85
28,177	329,636	26,381	34,832	16,266	64,259	19,006	72,936	36,700	80,961	25,288	15,674	67,126	89,852	13,365	T

Table 1.—The Make of Commodities

(Millions of dollars)

Industry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Plastics and synthetic materials	Drugs	Cleaning and toilet preparations	Paints and allied products	Petroleum refining and related products	Rubber and miscellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing
		28	29A	29B	30	31	32	33+34	35	36	37
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									1	
7	Coal mining										
8	Crude petroleum and natural gas					4,162					
9+10	Nonmetallic minerals mining					72				299	4
11+12	Construction										
13	Ordnance and accessories										1
14	Food and kindred products		136	39	2	4	37	84			
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills	1,663					15				3
17	Miscellaneous textile goods and floor coverings	110					132	(*)			1
18	Apparel			1			17	42			
19	Miscellaneous fabricated textile products			2			17	10	(*)		1
20+21	Lumber and wood products						76	1	43	29	2
22+23	Furniture and fixtures						76	3	87	2	14
24	Paper and allied products, except containers	4		123	9		850	1			5
25	Paperboard containers and boxes						275				
26A	Newspapers and periodicals						1				
26B	Other printing and publishing			1			31	24	1		4
27A	Industrial and other chemicals	4,851	489	769	143	922	297		11	135	26
27B	Agricultural fertilizers and chemicals	213	181	80			3	1			1
28	Plastics and synthetic materials	36,104	71	72	31	3	686				1
29A	Drugs	16	34,447	719			21				1
29B	Cleaning and toilet preparations	39	286	30,826	37	44	60	6			10
30	Paints and allied products	115		21	11,832	7	7				12
31	Petroleum refining and related products	1		18	4	132,214	8		1		100
32	Rubber and miscellaneous plastics products	232	7	11	21	1	82,604	23	39	43	5
33+34	Footwear, leather, and leather products				1			8,563			
35	Glass and glass products						18		15,893		38
36	Stone and clay products	4	11	50	2	115	99		49	42,323	10
37	Primary iron and steel manufacturing				1	1	7		1	15	65,015
38	Primary nonferrous metals manufacturing				1	1	48		65	38	494
39	Metal containers						45				
40	Heating, plumbing, and fabricated structural metal products	7					229		18	37	81
41	Screw machine products and stampings				1		97	3	18	2	10
42	Other fabricated metal products	3	1	3	1	2	237	12	7	42	109
43	Engines and turbines										14
44+45	Farm, construction, and mining machinery						1		1	4	104
46	Materials handling machinery and equipment						4			1	3
47	Metalworking machinery and equipment	1		1	1		53			42	28
48	Special industry machinery and equipment	1		3	2		34		1	6	16
49	General industrial machinery and equipment	1	1	1	3	1	56			12	27
50	Miscellaneous machinery, except electrical					1	33			4	49
51	Computer and office equipment				1		2			2	17
52	Service industry machinery			13			68		1	4	7
53	Electrical industrial equipment and apparatus	9					8			19	
54	Household appliances						8		1		
55	Electric lighting and wiring equipment	6					72		25	8	133
56	Audio, video, and communication equipment						4			9	
57	Electronic components and accessories						66		1	5	2
58	Miscellaneous electrical machinery and supplies	21		3			8			1	
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts	1			6	13	90		1	11	20
60	Aircraft and parts	4				1	15			1	2
61	Other transportation equipment						3				1
62	Scientific and controlling instruments	3	204	84			78	2	41	13	1
63	Ophthalmic and photographic equipment		28	3	59		132		1	2	
64	Miscellaneous manufacturing			31	2	1	111	14	29	22	7
65A	Railroads and related services; passenger ground transportation										
65B	Motor freight transportation and warehousing										
65C	Water transportation										
65D	Air transportation										
65E	Pipelines, freight forwarders, and related services										
66	Communications, except radio and TV										
67	Radio and TV broadcasting										
68A	Electric services (utilities)										
68B	Gas production and distribution (utilities)					20					
68C	Water and sanitary services										
69A	Wholesale trade										
69B	Retail trade										
70A	Finance										
70B	Insurance										
71A	Owner-occupied dwellings										
71B	Real estate and royalties										
72A	Hotels and lodging places										
72B	Personal and repair services (except auto)										
73A	Computer and data processing services										
73B	Legal, engineering, accounting, and related services										
73C	Other business and professional services, except medical										
73D	Advertising										
74	Eating and drinking places										
75	Automotive repair and services										
76	Amusements										
77A	Health services										
77B	Educational and social services, and membership organizations										
78	Federal Government enterprises										
79	State and local government enterprises									33	
82	General government industry										
84	Household industry										
85	Inventory valuation adjustment										
T	Total commodity output	43,407	35,862	32,872	12,183	137,599	86,851	8,787	16,335	43,340	66,201

*Less than \$500,000.

Table 1.—The Make of Commodities

[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Electrical industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Audio, video, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Other transportation equipment
		53	54	55	56	57	58	59A	59B	60	61
1	Livestock and livestock products										
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	Construction										
13	Ordnance and accessories		1		140	9	69		16	3,802	2
14	Food and kindred products		1								
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills	1									
17	Miscellaneous textile goods and floor coverings			1							
18	Apparel										
19	Miscellaneous fabricated textile products	(*)		(*)		1			1		
20+21	Lumber and wood products		(*)	5	3		(*)		1	1	6
22+23	Furniture and fixtures	7	42	14	2	21	1		1	2	3
24	Paper and allied products, except containers						331				
25	Paperboard containers and boxes										
26A	Newspapers and periodicals										
26B	Other printing and publishing	1			3			1			1
27A	Industrial and other chemicals	2		1		1	14			1	(*)
27B	Agricultural fertilizers and chemicals										
28	Plastics and synthetic materials				3		1				
29A	Drugs										
29B	Cleaning and toilet preparations		1		13						
30	Paints and allied products										
31	Petroleum refining and related products				5						
32	Rubber and miscellaneous plastics products	29	50	63	2	19	16		285	1	5
33+34	Footwear, leather, and leather products										
35	Glass and glass products			8			2		2		1
36	Stone and clay products	6		5	7	28	14		7	16	
37	Primary iron and steel manufacturing	3		83		42			44		1
38	Primary nonferrous metals manufacturing	1		36	76	62	18		14	9	1
39	Metal containers										
40	Heating, plumbing, and fabricated structural metal products	7	54	4	2	9	17	6	17	11	24
41	Screw machine products and stampings	4	63	10	1	8	2	(*)	13	1	7
42	Other fabricated metal products	63	8	68	3	8	8		79	45	23
43	Engines and turbines	227					23		187	489	17
44+45	Farm, construction, and mining machinery	20	35	35			1		53	4	210
46	Materials handling machinery and equipment	21			2	1	(*)		15	(*)	8
47	Metalworking machinery and equipment	69	115	1	7	1	28		27	11	4
48	Special industry machinery and equipment	3	7		2	31	3	(*)	5	23	1
49	General industrial machinery and equipment	64	12	6	2	22	9		46	14	4
50	Miscellaneous machinery, except electrical	141	1	3	1	7	163	1	188	39	23
51	Computer and office equipment	43			339	1,162	188			12	
52	Service industry machinery	9	85	36	1	2	10	1	609	1	1
53	Electrical industrial equipment and apparatus	21,698	2	151	11	123	55		36	46	1
54	Household appliances	5	14,863	10	11	1	9				
55	Electric lighting and wiring equipment	185	5	16,384	60	43	98		192		
56	Audio, video, and communication equipment	58	273	49	38,346	433	122				
57	Electronic components and accessories	197		129	335	45,340	164				
58	Miscellaneous electrical machinery and supplies	62	5	159	223	397	18,539				
59A	Motor vehicles (passenger cars and trucks)							130,195			3
59B	Truck and bus bodies, trailers, and motor vehicles parts	28	6	47	191		358	3,304	62,377	55	52
60	Aircraft and parts	96		4	33	37	81		12	79,455	51
61	Other transportation equipment	124		4		1	1	2	55	24	23,564
62	Scientific and controlling instruments	99	12	81	1,171	393	514	(*)	2	342	18
63	Ophthalmic and photographic equipment	3		6	31	2	126			1	
64	Miscellaneous manufacturing	2	30	21	10	1	4		8		44
65A	Railroads and related services; passenger ground transportation										
65B	Motor freight transportation and warehousing										
65C	Water transportation										
65D	Air transportation										
65E	Pipelines, freight forwarders, and related services										
66	Communications, except radio and TV										
67	Radio and TV broadcasting										
68A	Electric services (utilities)										
68B	Gas production and distribution (utilities)										
68C	Water and sanitary services										
69A	Wholesale trade										
69B	Retail trade										
70A	Finance										
70B	Insurance										
71A	Owner-occupied dwellings										
71B	Real estate and royalties										
72A	Hotels and lodging places										
72B	Personal and repair services (except auto)										
73A	Computer and data processing services										
73B	Legal, engineering, accounting, and related services										
73C	Other business and professional services, except medical										
73D	Advertising										
74	Eating and drinking places										
75	Automotive repair and services										
76	Amusements										
77A	Health services										
77B	Educational and social services, and membership organizations										
78	Federal Government enterprises										
79	State and local government enterprises										
82	General government industry										
84	Household industry										
85	Inventory valuation adjustment										
T	Total commodity output	23,277	15,670	17,421	41,037	48,203	20,987	133,509	68,327	84,421	24,074

*Less than \$500,000.

by Industries, 1987 Benchmark—Continued
at producers' prices]

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	Communications, except radio and TV	Radio and TV broadcasting	Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Industry number
62	63	64	65A	65B	65C	65D	65E	66	67	68A	68B	68C	69A	
				807										1
														2
														3
														4
														5+6
														7
											11,968			8
														9+10
1,254		2												11+12
		2												13
		2												14
1		9												15
74		5												16
6		24												17
5		40												18
6		13												19
55	1	28												20+21
221	71	103												22+23
1		26												24
		6												25
1	21	146												26A
7	14	8												26B
		5												27A
														27B
1														28
281		2												29A
53		36												29B
		10												30
		(*)												31
72	11	126												32
9		6												33+34
15		5												35
44	65	20												36
79		1									26			37
16		1												38
														39
93	3	8												40
28		13												41
168		42												42
2	1													43
3		2												44+45
2		1												46
45	3	10												47
24	1	6												48
57		7												49
16	1	4												50
58	2	11												51
24		7												52
152		2												53
12	1	35												54
33	32	10												55
1,140		19												56
343	9	16												57
307		13												58
1		8												59A
141		2												59B
671	2	13												60
3		14												61
80,003	53	23												62
239	18,402	13												63
96	16	30,178												64
			43,271	162										65A
				113,492										65B
					24,053							2,603		65C
			302	733	108	76,253								65D
						1,465	23,301							65E
								160,164						66
									2,250					67
										132,335				68A
											67,248			68B
												36		68C
												10,971		69A
													423,751	69B
														70A
														70B
														71A
														71B
														72A
														72B
														73A
														73B
														73C
														73D
														74
														75
														76
														77A
														77B
			4,822			37	1,342			7,216				78
										16,902	2,938	14,859		79
														82
														84
														85
85,858	18,707	31,083	48,394	115,194	24,198	79,060	23,301	160,164	2,250	156,453	82,180	28,469	423,751	T

Table 1.—The Make of Commodities

[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Retail trade	Finance	Insurance	Owner-occupied dwellings	Real estate and royalties	Hotels and lodging places	Personal and repair services (except auto)	Computer and data processing services	Legal, engineering, accounting, and related services
		69B	70A	70B	71A	71B	72A	72B	73A	73B
		Commodity number								
1	Livestock and livestock products									
2	Other agricultural products									
3	Forestry and fishery products									
4	Agricultural, forestry, and fishery services									
5+6	Metallic ores mining									
7	Coal mining									
8	Crude petroleum and natural gas									
9+10	Nonmetallic minerals mining									
11+12	Construction									
13	Ordinance and accessories									
14	Food and kindred products									
15	Tobacco products									
16	Broad and narrow fabrics, yarn and thread mills									
17	Miscellaneous textile goods and floor coverings									
18	Apparel									
19	Miscellaneous fabricated textile products									
20+21	Lumber and wood products									
22+23	Furniture and fixtures									
24	Paper and allied products, except containers									
25	Paperboard containers and boxes									
26A	Newspapers and periodicals									
26B	Other printing and publishing									
27A	Industrial and other chemicals									
27B	Agricultural fertilizers and chemicals									
28	Plastics and synthetic materials									
29A	Drugs									
29B	Cleaning and toilet preparations									
30	Paints and allied products									
31	Petroleum refining and related products									
32	Rubber and miscellaneous plastics products									
33+34	Footwear, leather, and leather products									
35	Glass and glass products									
36	Stone and clay products									
37	Primary iron and steel manufacturing									
38	Primary nonferrous metals manufacturing									
39	Metal containers									
40	Heating, plumbing, and fabricated structural metal products									
41	Screw machine products and stampings									
42	Other fabricated metal products									
43	Engines and turbines									
44+45	Farm, construction, and mining machinery									
46	Materials handling machinery and equipment									
47	Metalworking machinery and equipment									
48	Special industry machinery and equipment									
49	General industrial machinery and equipment									
50	Miscellaneous machinery, except electrical									
51	Computer and office equipment								2,083	
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								13	
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								51	51
65A	Railroads and related services; passenger ground transportation									
65B	Motor freight transportation and warehousing									
65C	Water transportation									
65D	Air transportation									
65E	Pipelines, freight forwarders, and related services									
66	Communications, except radio and TV									
67	Radio and TV broadcasting									
68A	Electric services (utilities)									
68B	Gas production and distribution (utilities)									
68C	Water and sanitary services									
69A	Wholesale trade									
69B	Retail trade	420,693								
70A	Finance		280,874			79			1,640	
70B	Insurance			172,850						
71A	Owner-occupied dwellings				325,144					
71B	Real estate and royalties					380,275				
72A	Hotels and lodging places					934	40,064			
72B	Personal and repair services (except auto)							66,233		
73A	Computer and data processing services								60,821	
73B	Legal, engineering, accounting, and related services									177,931
73C	Other business and professional services, except medical							35	79	
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	1,301		751		737		3		
79	State and local government enterprises	966	76			7,596				
82	General government industry									
84	Household industry									
85	Inventory valuation adjustment									
T	Total commodity output	422,960	280,950	177,621	325,144	389,620	40,064	66,271	64,687	177,982

*Less than \$500,000.

by Industries, 1987 Benchmark—Continued
at producers' prices]

Other business and professional services, except medical	Advertising	Eating and drinking places	Automotive repair and services	Amusements	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	Scrap, used and secondhand goods	General government industry	Household industry	Inventory valuation adjustment	Total industry output	Industry number
73C	73D	74	75	76	77A	77B	78	79	81	82	84	85	99	
				64									87,484	1
				88									86,742	2
													7,456	3
													22,201	4
													6,807	5+6
													25,452	7
													84,228	8
													12,964	9+10
													618,813	11+12
									3				31,438	13
													325,972	14
													26,383	15
													38,244	16
													15,982	17
													64,184	18
													16,987	19
									108				72,875	20+21
									1				36,777	22+23
									80				81,982	24
									191				25,511	25
													49,727	26A
													87,378	26B
													84,375	27A
									121				13,512	27B
													40,672	28
													36,012	29A
													33,229	29B
													12,072	30
													137,871	31
													85,572	32
													8,700	33+34
									6				16,085	35
													43,732	36
									116				68,091	37
									166				56,376	38
									256				11,904	39
									83				43,930	40
									309				31,973	41
									37				44,424	42
									52				14,096	43
									15				26,753	44+45
									5				7,194	46
									9				21,227	47
									2				16,254	48
									36				23,236	49
									15				20,003	50
									12				55,819	51
									38				22,409	52
									25				22,665	53
									27				15,361	54
									8				17,615	55
				27									40,700	56
													48,654	57
													20,823	58
									26				134,115	59A
									146				68,991	59B
									155				82,128	60
									11				24,082	61
									8				85,463	62
									14				19,725	63
													33,089	64
									26				43,458	65A
													116,095	65B
													24,053	65C
													76,253	65D
													25,908	65E
													161,127	66
													29,396	67
													132,371	68A
													67,549	68B
									291				11,262	68C
													423,751	69A
													420,694	69B
													286,613	70A
													172,850	70B
													325,144	71A
													380,275	71B
													40,997	72A
													66,302	72B
													60,821	73A
													177,931	73B
													220,728	73C
													15,884	73D
													209,394	74
													130,704	75
													78,192	76
													338,511	77A
													152,678	77B
													45,396	78
													69,484	79
													466,785	82
													7,709	84
													-17,817	85
													-17,817	T
211,165	9,333		92	22									220,728	73C
	15,884												15,884	73D
313		209,177											209,394	74
	45		130,391										130,704	75
118				78,148									78,192	76
	408				338,393								338,511	77A
		1,844		75		152,270							152,678	77B
			744	416			33,469						45,396	78
								18,754					69,484	79
													466,785	82
													7,709	84
													-17,817	85
211,758	109,406	211,021	131,228	78,841	338,393	152,270	33,469	19,045	2,321	466,785	7,709	-17,817	8,175,016	T

Table 2.1.—The Use of Commodities

[Millions of dollars]

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agri-cultural, forestry, and fishery services	Metallic ores mining	Coal mining	Crude petroleum and natural gas	Non-metallic minerals mining	Con-struction	Ordnance and accessories
		1	2	3	4	5+6	7	8	9+10	11+12	13
		Industry number									
1	Livestock and livestock products	16,818	1,584	27	1,251						
2	Other agricultural products	23,778	3,855		2,089					241	
3	Forestry and fishery products			168	32						
4	Agricultural, forestry, and fishery services	4,003	6,542	1,288	8					3,250	2
5+6	Metallic ores mining					519					
7	Coal mining					11	2,730			1	4
8	Crude petroleum and natural gas							3,149			
9+10	Nonmetallic minerals mining	6	254		2	7	32		452	4,834	
11	New construction									44	
12	Maintenance and repair construction	458	710	83	288	88	195	1,844	116	338	208
13	Ordnance and accessories			29						13	899
14	Food and kindred products	11,566		305	33	1	(*)	3	2	(*)	(*)
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills		44			1	18			4	4
17	Miscellaneous textile goods and floor coverings	25	26	72	114					1,760	1
18	Apparel					(*)	8		4	120	12
19	Miscellaneous fabricated textile products		88	31	79			(*)		223	(*)
20+21	Lumber and wood products	36	295			38	62	(*)	3	33,521	27
22+23	Furniture and fixtures									1,271	
24	Paper and allied products, except containers	110	139	1	10	1	8	8	38	1,184	7
25	Paperboard containers and boxes	5	333	1	185	(*)		2	4	45	22
26A	Newspapers and periodicals	9	10	1	3	(*)			24	52	3
26B	Other printing and publishing	9	10	40	24	3	12	32	8	204	22
27A	Industrial and other chemicals	102	64	14	7	204	138	837	220	1,310	127
27B	Agricultural fertilizers and chemicals	142	4,607	40	2,972	1	2		(*)	8	6
28	Plastics and synthetic materials										31
29A	Drugs	198			1						
29B	Cleaning and toilet preparations	54							7	2	10
30	Paints and allied products			4				6		4,688	4
31	Petroleum refining and related products	335	1,175	294	215	127	390	289	194	11,220	31
32	Rubber and miscellaneous plastics products	162	357	2	36	82	247	26	122	6,677	198
33+34	Footwear, leather, and leather products	25	(*)		3		(*)	1		29	1
35	Glass and glass products	6		2	10	1	(*)	8	4	993	3
36	Stone and clay products		100		12	23	80	265	2	31,054	50
37	Primary iron and steel manufacturing	14	15			134	19	260	43	10,023	473
38	Primary nonferrous metals manufacturing					15	13			6,194	562
39	Metal containers			18							
40	Heating, plumbing, and fabricated structural metal products	17	19			43	66	46	61	31,335	
41	Screw machine products and stampings	27				35	146		33	280	189
42	Other fabricated metal products	68	153	53	26	9	82	383	37	8,090	462
43	Engines and turbines			14	44	37	111	22	57		28
44+45	Farm, construction, and mining machinery	249	663	21	78	129	1,084	239	253	1,419	
46	Materials handling machinery and equipment					35	95		142	1,416	
47	Metalworking machinery and equipment	83	92	(*)	2	8		77	8	200	87
48	Special industry machinery and equipment										
49	General industrial machinery and equipment	27	50	8	4	78	428	157	164	1,513	235
50	Miscellaneous machinery, except electrical	47	123	3	4	12	78	36	19	126	119
51	Computer and office equipment				2						
52	Service industry machinery									6,638	
53	Electrical industrial equipment and apparatus	10	27			27	90	166	64	2,743	25
54	Household appliances									1,505	
55	Electric lighting and wiring equipment	19	43	1	8	4	28	19	8	9,894	2
56	Audio, video, and communication equipment				(*)		(*)	1		2,011	874
57	Electronic components and accessories										870
58	Miscellaneous electrical machinery and supplies	152	404	1	10	6	2	2	5	845	19
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts	90	217	5	40	13	9	7	3	414	1
60	Aircraft and parts				1						3,195
61	Other transportation equipment			156	12	5				2	
62	Scientific and controlling instruments			15	1	5	3	3	1	1,421	398
63	Ophthalmic and photographic equipment			(*)	8	1	3	10	2	116	19
64	Miscellaneous manufacturing	15	16	1	14	2	4	5	6	878	7
65A	Railroads and related services; passenger ground transportation	824	249	7	92	20	652	45	36	1,557	18
65B	Motor freight transportation and warehousing	1,914	1,290	24	208	52	159	154	182	8,274	153
65C	Water transportation	107	46	24	33	7	54	103	12	302	2
65D	Air transportation	20	100	7	418	25	19	86	48	853	145
65E	Pipelines, freight forwarders, and related services	4	15	2	3	2	6	4	3	37	1
66	Communications, except radio and TV	222	246	4	1	9	2	120	22	2,315	145
67	Radio and TV broadcasting										
68A	Electric services (utilities)	972	515	3	59	647	611	1,292	651	1,047	260
68B	Gas production and distribution (utilities)		164	1	2	74	11	556	218	322	89
68C	Water and sanitary services	111	368	6		15	60	131	135	252	31
69A	Wholesale trade	3,861	3,567	186	1,452	133	720	523	260	26,466	585
69B	Retail trade	75	228	8	67	8	9	6	3	24,114	4
70A	Finance	796	849	77	103	69	169	223	231	7,098	58
70B	Insurance	438	1,797	102	80	23	31	18	6	1,966	32
71A	Owner-occupied dwellings										
71B	Real estate and royalties	3,000	7,097		179	85	622	14,641	154	2,711	264
72A	Hotels and lodging places	49	54	14	24	12	5	27	106	707	27
72B	Personal and repair services (except auto)	26	70	7	182	2	4	10	20	139	12
73A	Computer and data processing services			16	90	33	3	5	115	6	15
73B	Legal, engineering, accounting, and related services	108	121	252	243	113	207	801	96	36,297	325
73C	Other business and professional services, except medical	362	954	132	206	38	82	144	112	14,948	346
73D	Advertising	19	21	3	92	5	46	853	19	244	615
74	Eating and drinking places	16	17	11	80	8	19	69	23	1,440	88
75	Automotive repair and services	50	179	131	588	187	197	191	17	6,117	28
76	Amusements				282		1	2	3	42	2
77A	Health services	744									
77B	Educational and social services, and membership organizations			21	40	14	42	29	15	25	9
78	Federal Government enterprises	12	13	6	50	10	3	2	17	243	7
79	State and local government enterprises	15	32	5	17	6	4	3	3	121	6
80	Noncomparable imports				37	31	18	792	9	5	18
81	Scrap, used and secondhand goods									14	
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	72,410	40,021	3,748	12,253	3,331	9,964	28,744	4,751	327,813	12,510
VA	Value added	15,074	46,721	3,708	9,948	3,476	15,488	55,484	8,213	291,000	18,928
T	Total industry output	87,484	86,742	7,456	22,201	6,807	25,452	84,228	12,964	618,813	31,438

*Less than \$500,000.

by Industries, 1987 Benchmark
at producers' prices]

Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Newspapers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	Commodity number
14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	28	
60,821		262		13											1
22,262	1,707	3,192	34	31								86			2
2,033				295		5,874		108				68			3
8	(*)	3	1			22	1	6	(*)	1	2	2	1	1	4
105	15	28	10	4	4	21	7	15				636		6	5+6
8								428	2	1	13	273	5	132	7
								303				1,043	552	4	8
810	39	179	48	129	42	423	289	397	88	187	238	576	926		9+10
		(*)		(*)		1		1						158	11
54,695	1	1	22	1	4	7	15	344	3	3	9	348	92	53	12
	3,664														13
		9,897	3,621	13,040	3,875	5	1,236	677			94				14
13		346	683	19	1,264	136	973	356		5	54				15
11	2	2	11	12,117	161	12	13	11	1	1	5	(*)	(*)	5	16
72			17	1,506	552	17	58	1		1	1	23	1	(*)	17
61	(*)	3	1		52	20,956	3,229	4,804		2		48			18
						71	146	1							19
3,142	131	24	94	111	39	64	51	13,139	11,548	6,485	14,631	721	48	463	20+21
5,856	952	131	99	200	200	279	555	1,088	53	12	336	409	55	269	22+23
10	2	2	1	4	2	7	4	4		443	206	7	1	2	24
1,880	377	11	7	54	30	38	33	110	13	3,358	7,054	52	190	15	26A
1,505	51	852	594	78	103	848	215	3,444	491	379	2,389	18,226	1,371	13,509	26B
187						186		205				366	2,533	95	27A
121		5,251	3,825	1,526	509	329	114	2,005	557		129	757		1,470	27B
890												136			28
154	18	88	78	294		1		386				104	25	230	29A
		1	1	(*)		386	376		66		39	408		89	29B
369	35	104	31	112	13	446	84	565	182	81	238	1,012	69	103	30
5,261	71	198	117	302	496	690	1,197	1,999	73	33	1,616	994	115	1,685	31
1		2		313	230	9	104	1	3	2	13	2		(*)	32
3,923	1	207	6			211	137	5	(*)		2			(*)	33+34
19	1	4	2	1	1	409	131	90		1	9	133	39	26	35
5	1	2	4	(*)	1	31	172	2	68	(*)	1	68	26	14	36
						53	469	47	54		178	59		2	37
8,683	2											462	55	3	38
						479									39
662						1,007	372					1	10	1	40
1,020	185	2	1	7	1	1,505	1,378	502	123	1	53	650	40	13	41
															42
(*)	1	12		1		39		1							43
38	6	14	5	9	6	147	79	44	18	7	23	35	2	21	44+45
90		109	224	160	18	83	13	368	100	77	359	410		9	47
220	7			7		113	71	55		2	2	21	16	83	48
90	14	31	10	20	8	190	38	95	27	13	40	77	5	48	49
										7	47				50
7						22						21			51
						44	59				(*)	41			52
(*)		(*)		1	(*)	147									53
7	(*)	1	(*)	1	1	114	6	5	1	1	3	3	(*)	1	54
1	(*)	(*)	(*)	(*)	(*)	1	1	1	(*)	1	3	1		(*)	55
4	1	2													56
19	4	4	(*)	5		12	1	4	1	38	29	(*)	(*)		57
						191	9	30	8	13	35	4	1	1	58
															59A
															59B
															60
31	5	4	1	4	3	12	14	38	7	43	172	84	6	5	61
19	2	5	2	6	2	14	10	10	3	121	527	20	1	5	62
18	1	3	2	305	105	43	62	9	3	13	141	5	(*)	3	63
1,842	10	75	43	18	15	663	160	828	287	174	430	908	281	475	64
5,132	110	277	238	280	123	1,026	369	1,627	570	327	1,005	1,494	781	570	65A
498	3	9	27	7	7	111	15	107	17	5	30	156	49	131	65B
484	29	29	9	114	21	81	83	387	48	940	368	232	15	59	65C
3	(*)	1	1	1	1	5	1	9	2	4	42	1	1	12	65D
447	28	48	28	95	29	125	89	152	72	206	241	207	39	91	65E
															66
2,750	87	1,088	216	519	105	1,044	344	2,292	277	246	725	2,850	304	964	67
1,336	20	152	112	96	40	344	82	994	80	21	95	2,389	466	771	68A
442	9	114	26	34	52	182	66	1,074	29	21	77	318	113	149	68B
16,850	536	1,807	433	2,171	951	3,806	2,039	3,637	999	782	3,080	3,141	747	1,743	68C
53	8	11	2	19	1	73	16	80	16	27	69	37	3	10	69A
937	131	106	60	281	129	446	379	303	41	256	449	274	226	104	69B
355	37	41	24	76	26	196	58	216	47	70	191	159	26	77	69C
															70A
866	78	71	57	385	102	305	257	221	118	722	973	441	37	118	70B
209	8	3	2	16	16	22	19	261	19	86	347	41	3	30	71A
192	7	191	52	144	69	32	27	127	11	53	48	38	4	81	71B
123	11	30	10	13	4	22	16	184	29	451	266	66	6	17	72A
866	61	91	36	175	46	230	421	205	69	897	616	1,701	83	1,038	72B
1,802	97	466	99	342	136	546	749	450	184	1,945	1,064	1,164	335	358	73A
8,657	783	227	343	992	202	987	730	857	40	869	1,061	1,135	194	479	73B
358	19	76	32	191	51	218	160	132	53	201	533	220	17	57	73C
477	101	20	292	4	4	502	178	732	184	327	879	116	30	91	73D
5	2	1	1	2	(*)	5	15	3	1	5	16	5	(*)	1	74
															75
80	12	22	3	25	97	175	63	62	4	78	124	25	10	53	76
235	54	38	24	149	38	71	63	72	22	586	594	85	5	19	77A
288	8	18	7	12		25	14	153	8	8	21	67	7	19	77B
5,056	47	25	166	59	88	13	32	84	2	55	234	636	101	147	78
			5					828					33		79
															80
															81
															82
															83
															84
															85
225,473	9,588	26,104	11,628	37,181	10,072	46,952	19,518	47,704	16,705	20,689	42,232	47,098	10,148	26,308	I
100,498	16,795	12,140	4,354	27,003	6,915	25,923	17,259	34,278	8,806	29,037	45,145	37,277	3,364	14,365	VA
325,972	26,383	38,244	15,982	64,184	16,987	72,875	36,777	81,982	25,511	49,727	87,378	84,375	13,512	40,672	T

Table 2.1.—The Use of Commodities

[Millions of dollars]

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Drugs	Cleaning and toilet preparations	Paints and allied products	Petroleum refining and related products	Rubber and miscellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing
		29A	29B	30	31	32	33+34	35	36	37	38
		Industry number									
1	Livestock and livestock products	86	15								
2	Other agricultural products	27									
3	Forestry and fishery products	6		15							
4	Agricultural, forestry, and fishery services	1	(*)		2	3		1	2	2	2
5+6	Metallic ores mining			43					33	1,969	3,933
7	Coal mining	9	5		21	25	1	2	399	1,449	34
8	Crude petroleum and natural gas			13	75,971	75				10	
9+10	Nonmetallic minerals mining		9	17	490	35	2	184	3,513	231	18
11	New construction										
12	Maintenance and repair construction	131	75	46	952	392	28	130	328	1,294	273
13	Ordnance and accessories					1			57	20	
14	Food and kindred products	61	558	160	42	17	893	1	25	6	6
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills					812	239		126		43
17	Miscellaneous textile goods and floor coverings		18		39	894	197		2		1
18	Apparel	(*)	1	(*)	1	12	4	3	6	8	4
19	Miscellaneous fabricated textile products	(*)	2		(*)	24		(*)	2	1	(*)
20+21	Lumber and wood products		6		59	189	24	237	95	136	151
22+23	Furniture and fixtures									28	
24	Paper and allied products, except containers	161	61	2	9	789	6	15	551	15	17
25	Paperboard containers and boxes	314	1,146		191	987	66	707	142	79	103
26A	Newspapers and periodicals	1	2	(*)	2	9	1	1	5	3	3
26B	Other printing and publishing	182	345	26	17	99	5	25	25	35	25
27A	Industrial and other chemicals	697	2,971	2,334	1,758	3,905	271	982	1,269	1,723	715
27B	Agricultural fertilizers and chemicals	54									
28	Plastics and synthetic materials		468	1,441	60	15,955	109		189		784
29A	Drugs	3,758									
29B	Cleaning and toilet preparations	21	1,535	5	417	29	33		98	1	1
30	Paints and allied products		63	252	6	65		20	70	23	31
31	Petroleum refining and related products	39	329	80	9,933	235	10	45	238	332	364
32	Rubber and miscellaneous plastics products	749	1,713	1	620	4,074	250	173	125	139	647
33+34	Footwear, leather, and leather products	(*)			3	5	1,601	2	1	2	
35	Glass and glass products	233	231	8	277	450		1,309	71	5	48
36	Stone and clay products	1	3	132	51	247	7	320	5,111	996	263
37	Primary iron and steel manufacturing		2	16	42	300	1	6	277	10,233	515
38	Primary nonferrous metals manufacturing	1		7		115		1	23	1,470	17,261
39	Metal containers	138	433	534	167				(*)	1	(*)
40	Heating, plumbing, and fabricated structural metal products	12	16			44			7		
41	Screw machine products and stampings	64	196	6		439	9	35	100	275	90
42	Other fabricated metal products	65	390	21	397	860	43	2	219	772	528
43	Engines and turbines					15			2	11	
44+45	Farm, construction, and mining machinery								13		
46	Materials handling machinery and equipment					5	(*)		2	17	10
47	Metalworking machinery and equipment	3	6	1	19	161	4	87	25	524	488
48	Special industry machinery and equipment					233	1	11			
49	General industrial machinery and equipment	17	59	(*)	1	29	(*)	4	32	868	556
50	Miscellaneous machinery, except electrical	10	25	2	41	255	9	49	48	207	114
51	Computer and office equipment	8								4	
52	Service industry machinery									4	
53	Electrical industrial equipment and apparatus					13		34	12	434	329
54	Household appliances					(*)	1	5		(*)	
55	Electric lighting and wiring equipment	1	(*)	(*)	13	120	(*)	3	32	10	2
56	Audio, video, and communication equipment	(*)	(*)	(*)	(*)	1		(*)	(*)	(*)	(*)
57	Electronic components and accessories					55			1		
58	Miscellaneous electrical machinery and supplies	1	(*)		1	23		1	1	4	1
59A	Motor vehicles (passenger cars and trucks)										
59B	Truck and bus bodies, trailers, and motor vehicles parts	5	3	(*)	54	13	(*)	4	9	7	12
60	Aircraft and parts										
61	Other transportation equipment									4	
62	Scientific and controlling instruments	28	6	2	24	43	1	16	16	21	14
63	Ophthalmic and photographic equipment	5	5	1	6	19	1	3	10	11	8
64	Miscellaneous manufacturing	3	45	1	3	19	83	2	40	11	5
65A	Railroads and related services; passenger ground transportation	27	112	158	153	603	18	185	644	1,149	336
65B	Motor freight transportation and warehousing	119	369	280	563	2,331	88	222	2,527	916	1,707
65C	Water transportation	12	38	19	889	115	3	12	154	319	57
65D	Air transportation	56	80	11	67	127	24	67	61	78	102
65E	Pipelines, freight forwarders, and related services	1	2	2	5,485	6	(*)	2	3	5	2
66	Communications, except radio and TV	126	79	40	187	249	22	122	295	150	111
67	Radio and TV broadcasting										
68A	Electric services (utilities)	288	189	74	1,653	1,829	68	478	1,159	2,813	2,501
68B	Gas production and distribution (utilities)	167	167	43	1,260	511	19	580	789	1,898	807
68C	Water and sanitary services	34	48	8	209	202	10	34	120	489	95
69A	Wholesale trade	1,439	1,583	343	6,367	4,238	369	682	1,269	4,274	3,417
69B	Retail trade	9	5	(*)	19	32	(*)	6	28	23	27
70A	Finance	186	88	16	1,232	386	50	69	286	247	267
70B	Insurance	32	52	6	361	181	10	26	91	138	112
71A	Owner-occupied dwellings										
71B	Real estate and royalties	211	150	58	614	538	45	86	218	157	184
72A	Hotels and lodging places	13	25	7	27	23	43	15	17	10	36
72B	Personal and repair services (except auto)	48	21	1	54	118	12	12	55	76	85
73A	Computer and data processing services	5	7	1	126	265	5	23	89	108	35
73B	Legal, engineering, accounting, and related services	1,568	169	54	376	580	30	53	168	191	140
73C	Other business and professional services, except medical	1,071	395	62	1,156	685	90	93	408	1,246	561
73D	Advertising	366	853	55	321	704	130	375	864	2,010	537
74	Eating and drinking places	66	61	18	51	246	28	37	122	119	91
75	Automotive repair and services	111	55	7	128	318	11	88	223	103	285
76	Amusements	2	2	(*)	3	7	(*)	1	2	2	2
77A	Health services										
77B	Educational and social services, and membership organizations	172	38	4	145	297	2	8	39	13	37
78	Federal Government enterprises	26	51	8	72	86	31	19	49	87	46
79	State and local government enterprises	17	19	1	16	31	8	7	11	43	25
80	Noncomparable imports	777	187	65	392	1,155	2	87	130	84	789
81	Scrap, used and secondhand goods							72		2,583	2,376
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	13,840	15,583	6,504	113,613	47,948	5,018	7,875	23,169	42,721	42,163
VA	Value added	22,172	17,646	5,568	24,258	37,624	3,681	8,210	20,563	25,370	14,213
T	Total industry output	36,012	33,229	12,072	137,871	85,572	8,700	16,085	43,732	68,091	56,376

*Less than \$500,000.

by Industries, 1987 Benchmark—Continued
at producers' prices]

Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm, construction, and mining machinery	Materials handling machinery and equipment	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus	Household appliances	Commodity number
39	40	41	42	43	44+45	46	47	48	49	50	51	52	53	54	
															1
															2
(*)	1	(*)	1	1	2	(*)	1	(*)	1	1	1	(*)	1	(*)	3
1	13	12	21	4	12	(*)	6	(*)	1	1	2	6	4	5+6	
	5		8									18		7	
														8	
33	518	324	552	92	223	74	127	123	156	192	434	136	185	73	9+10
(*)	6	2	4	1	3	2	4	3	2	1	1	2	3	2	11
			1						136	17			4		12
1	2	2	10	2	1	(*)	2	1	3	1	2	2	2	2	13
	(*)	103					(*)	(*)	(*)	(*)	(*)	(*)			14
11	138	32	177		46	11	26	27	25	5	1	107	29	98	15
					(*)	1			(*)	(*)	(*)			17	16
4	33	31	10	7	7	2	6	4	26	7	78	11	120	35	17
28	231	132	329	24	64	5	83	29	83	64	90	130	132	308	18
(*)	5	2	4	1	1	1	3	2	2	2	2	2	2	2	19
220	27	15	29	7	18	34	20	12	17	15	7	12	19	12	20+21
61	119	242	742	4	35	10	168	193	18	19	13	86	43	96	22+23
															24
17	33	49	169						41	36	56	96	89	366	25
															26A
6	15	15	17							1					26B
196	243	79	342	5	73	7	23		4	3	21	66	69	112	27A
17	104	40	118	13	43	18	66	33	44	34	57	24	147	15	27B
19	425	97	859	139	727	101	151	257	325	85	1,045	435	468	642	28
	1				3		(*)		(*)	(*)	2	(*)	(*)		29A
(*)	325	55	114	(*)	(*)			42	1	1	3	20	1	166	29B
13	125	76	171	48	57	13	235	46	99	147	13	98	222	70	30
2,571	8,294	7,905	5,190	1,938	2,988	607	1,467	1,017	2,135	1,338	335	1,229	1,117	1,144	31
3,008	3,194	980	2,049	652	225	95	427	365	639	910	709	1,140	1,214	312	32
199		4	8												33+34
	996	4	175	997	193	307	247	157	214	174	192	110	400	243	35
15	1,209	476	729	233	394	134	179	103	189	189	389	389	220	567	36
159	1,475	585	2,453	213	440	260	170	216	215	253	302	389	220	567	37
	1		33	1,306	971	66		60	83	12		30	104	43	38
					22	383		6							39
17	401	952	256	91	122	37	847	150	146	283	35	122	61	37	40
								372							41
3	202	63	30	188	709	225	130	380	1,559	210	27	398	89	101	42
20	115	370	187	451	682	165	612	427	382	1,076	42	242	127	23	43
								3	8	1	11,591		3		44+45
1	110	50	216	476	117	287	601	979	976	80	1,398	1,456	843	592	46
								1							47
(*)	4	13	3	3	7	1	6	1	1	17	206	142	64	190	48
(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	913	(*)	(*)	(*)	49
			11	16	155	129	48	12	30	44	4,063	6	584	137	50
(*)	1				9			10	11	16	9	63	20	2	51
2	11	21	11	22	72	1	9	2	4	2	9	1	4		52
													27		53
1	96	5	13	2	5	1	4	3	11	3		396	40	303	54
1	11	5	10	7	7	2	7	5	7	7	17	4	6	3	55
1	22	4	15	1	11	4	7	2	4	2	24	32	17	108	56
41	137	107	107	8	38	7	27	21	22	22	26	30	61	31	57
190	680	433	551	105	306	58	151	84	132	100	109	156	156	166	58A
3	13	13	21	3	15	2	5	3	6	4	6	8	5	3	58B
50	128	27	156	30	120	20	91	91	123	64	740	120	220	78	58C
(*)	2	(*)			1	(*)	1	1	1	(*)	2	(*)	1		58D
11	117	85	173	39	80	29	86	76	101	72	192	76	126	36	58E
															59A
139	378	423	685	139	267	54	269	154	290	253	338	186	289	135	59B
70	159	165	262	44	116	20	57	40	81	43	30	51	81	69	60
26	34	79	54	14	29	11	16	16	18	8	45	37	20	18	61
796	2,479	1,639	2,302	707	1,742	460	784	929	1,153	565	4,147	1,526	1,407	1,114	62
3	30	3	21	2	8	3	15	6	8	7	18	4	8	1	63
38	186	205	306	50	104	32	108	106	110	166	361	59	246	110	64
20	84	57	85	22	58	14	46	28	40	28	76	31	41	23	65
															66
54	285	139	221	41	79	38	177	127	130	188	521	84	120	41	67
10	207	11	30	1	25	5	40	29	38	20	337	36	128	33	68A
5	20	40	49	21	34	9	22	15	29	22	22	14	25	17	68B
10	23	81	104	52	80	13	41	22	58	56	52	27	42	20	68C
23	179	717	231	45	171	44	135	112	142	150	414	110	128	42	68D
47	409	225	481	90	198	64	205	150	222	485	473	132	221	118	68E
241	278	265	821	104	612	149	355	272	291	318	151	346	775	318	69A
14	139	69	134	22	74	24	91	57	76	84	199	56	77	35	69B
37	246	93	227	26	35	12	184	63	78	114	229	26	101	16	69C
(*)	5	1	2	2	1	2	1	1	5	2	5	1	1	(*)	69D
															69E
9	38	97	40	5	6	2	19	6	19	20	29	20	9	25	70A
4	46	36	52	11	43	12	22	29	33	16	22	8	26	50	70B
6	14	11	29	5	7	(*)	7	2	6	4	9	5	7	8	71
7	20	20	65	26	168	12	76	67	58	43	1,066	8	142	52	72
41			34		12		11		11	7					73
															74
															75
															76
															77A
															77B
															78
															79
															80
															81
															82
															83
															84
															85
8,483	24,930	17,787	22,155	7,870	14,902	3,884	8,756	7,659	10,836	8,164	31,625	11,987	11,056	8,767	I
3,421	19,001	14,187	22,269	6,226	11,852	3,309	12,470	8,595	12,400	11,839	24,195	10,422	11,609	6,594	VA
11,904	43,930	31,973	44,424	14,096	26,753	7,194	21,227	16,254	23,236	20,003	55,819	22,409	22,665	15,361	T

Table 2.1.—The Use of Commodities

[Millions of dollars]

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	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
		55	56	57	58	59A	59B	60	61	62	63
1	Livestock and livestock products										
2	Other agricultural products										
3	Forestry and fishery products										
4	Agricultural, forestry, and fishery services	1	2	2	1	4	3	3	(*)	4	1
5+6	Metallic ores mining				89					13	
7	Coal mining	2	3	1	2	63	18	8	3	6	20
8	Crude petroleum and natural gas										
9+10	Nonmetallic minerals mining							1		(*)	
11	New construction										
12	Maintenance and repair construction	107	153	493	111	431	469	495	471	407	91
13	Ordnance and accessories					1	1	38	(*)	(*)	
14	Food and kindred products	2	1	5	1	(*)	2	5	2	77	1
15	Tobacco products										
16	Broad and narrow fabrics, yarn and thread mills	11				117	2	84	11	312	
17	Miscellaneous textile goods and floor coverings					328	112	96	122	394	18
18	Apparel	1	10	12	3	14	3	6	3	32	1
19	Miscellaneous fabricated textile products		(*)	(*)	(*)	3,520	48	163	182	1,444	(*)
20+21	Lumber and wood products	29	27	1	1	4	199	31	471	173	
22+23	Furniture and fixtures		446	11	2	1,678	4	25	60	62	
24	Paper and allied products, except containers	5	101	34	13	99	28	13	9	262	1,197
25	Paperboard containers and boxes	239	137	80	140	57	115	7	7	343	158
26A	Newspapers and periodicals	2	3	4	4	5	3	4	1	11	2
26B	Other printing and publishing	15	102	32	25	43	32	53	9	145	18
27A	Industrial and other chemicals	99	107	789	390	606	216	36	55	298	470
27B	Agricultural fertilizers and chemicals										
28	Plastics and synthetic materials	409	105	169	111	55	365	96	184	574	123
29A	Drugs										
29B	Cleaning and toilet preparations						8			3	
30	Paints and allied products	30	26	1	1	1,615	222	140	144	45	1
31	Petroleum refining and related products	30	24	42	47	236	145	114	47	126	31
32	Rubber and miscellaneous plastics products	372	1,418	2,539	898	8,393	2,158	703	289	1,444	402
33+34	Footwear, leather, and leather products		1	1	(*)	5	1	1	(*)	4	(*)
35	Glass and glass products	641	23	403	1	1,291	85	15	236	194	99
36	Stone and clay products	24	14	53	19	247	366	203	58	117	9
37	Primary iron and steel manufacturing	747	117	130	244	717	4,421	1,349	934	1,291	29
38	Primary nonferrous metals manufacturing	806	420	1,956	1,205	85	3,046	3,539	437	1,357	125
39	Metal containers									20	
40	Heating, plumbing, and fabricated structural metal products		81	187	86	2	1,278	183	853	439	
41	Screw machine products and stampings	558	324	443	213	9,934	2,280	957	181	1,032	72
42	Other fabricated metal products	278	411	1,743	475	1,645	1,384	928	478	1,312	235
43	Engines and turbines					2,371	58		1,057		
44+45	Farm, construction, and mining machinery									110	
46	Materials handling machinery and equipment					13	8			1	
47	Metalworking machinery and equipment	53	38	88	48	1,105	209	1,145	50	178	23
48	Special industry machinery and equipment			126							
49	General industrial machinery and equipment	(*)	38	12	47	68	1,411	164	503	155	19
50	Miscellaneous machinery, except electrical	42	42	108	59	863	2,658	772	71	191	37
51	Computer and office equipment		108	170	21			41		757	10
52	Service industry machinery		5			2,773	176			80	
53	Electrical industrial equipment and apparatus	413	237	155	203	212	90	93	402	1,295	66
54	Household appliances					(*)	(*)			148	
55	Electric lighting and wiring equipment	485	272	78	163	495	28	1	90	206	32
56	Audio, video, and communication equipment	(*)	1,472	36	13	1,347	14	962	13	20	(*)
57	Electronic components and accessories	98	8,193	4,625	1,304	856	381	1,211	7	7,877	1,573
58	Miscellaneous electrical machinery and supplies	16	156	26	1,025	3,740	871	77	129	217	28
59A	Motor vehicles (passenger cars and trucks)					1,548	184			602	
59B	Truck and bus bodies, trailers, and motor vehicles parts	3	2	3	6	40,005	6,259	5	313	16	2
60	Aircraft and parts					51		15,912	40		
61	Other transportation equipment					21	14		626		
62	Scientific and controlling instruments	3	54	195	9	1,234	27	2,217	70	2,295	186
63	Ophthalmic and photographic equipment	6	10	13	9	17	14	18	3	29	269
64	Miscellaneous manufacturing	37	13	11	4	59	11	15	5	46	5
65A	Railroads and related services; passenger ground transportation	31	21	46	36	572	173	39	50	85	37
65B	Motor freight transportation and warehousing	146	138	214	151	2,168	936	220	202	362	115
65C	Water transportation	2	3	10	7	43	26	12	8	16	16
65D	Air transportation	148	220	297	241	685	194	1,182	62	338	101
65E	Pipelines, freight forwarders, and related services	1	(*)	2	1	3	2	3	(*)	2	1
66	Communications, except radio and TV	65	159	187	82	159	310	359	92	432	42
67	Radio and TV broadcasting										
68A	Electric services (utilities)	185	247	789	231	491	731	660	191	758	122
68B	Gas production and distribution (utilities)	54	52	99	51	342	261	144	26	132	40
68C	Water and sanitary services	18	21	34	41	113	59	47	28	98	35
69A	Wholesale trade	1,138	1,970	2,125	1,379	10,545	3,688	1,552	1,328	3,212	720
69B	Retail trade	5	5	7	11	124	43	27	10	30	6
70A	Finance	163	163	450	222	493	159	883	50	452	208
70B	Insurance	27	59	70	45	345	142	113	29	158	50
71A	Owner-occupied dwellings										
71B	Real estate and royalties	105	326	389	144	117	159	459	346	774	87
72A	Hotels and lodging places	87	30	150	134	79	24	766	9	72	38
72B	Personal and repair services (except auto)	18	178	39	20	103	80	46	14	90	9
73A	Computer and data processing services	30	96	86	37	106	92	103	14	100	19
73B	Legal, engineering, accounting, and related services	109	235	317	189	220	212	508	90	803	117
73C	Other business and professional services, except medical	166	449	586	244	543	484	1,016	194	1,030	273
73D	Advertising	268	782	464	602	2,434	1,807	1,929	183	2,115	489
74	Eating and drinking places	66	93	157	118	193	150	148	37	308	59
75	Automotive repair and services	69	50	71	137	482	2,196	101	100	487	72
76	Amusements	2	4	23	24	23	4	21	12	28	12
77A	Health services										
77B	Educational and social services, and membership organizations	8	49	123	16	254	81	122	8	155	111
78	Federal Government enterprises	21	79	34	20	148	172	120	15	175	18
79	State and local government enterprises	6	8	19	10	64	42	17	4	24	4
80	Noncomparable imports	32	233	195	74	291	918	99	16	340	306
81	Scrap, used and secondhand goods	2				108		155			
82	General government industry										
83	Rest of the world adjustment to final uses										
84	Household industry										
85	Inventory valuation adjustment										
I	Total intermediate inputs	8,532	20,363	21,758	11,371	109,111	42,721	42,620	12,687	36,349	8,462
VA	Value added	9,083	20,337	26,895	9,452	25,004	26,270	39,508	11,396	49,114	11,264
T	Total industry output	17,615	40,700	48,654	20,823	134,115	68,991	82,128	24,082	85,463	19,725

*Less than \$500,000.

by Industries, 1987 Benchmark—Continued
at producers' prices]

Miscellaneous manufacturing	Railroads and related services; passenger ground transportation	Motor freight transportation and warehousing	Water transportation	Air transportation	Pipelines, freight forwarders, and related services	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	Commodity number
64	65A	65B	65C	65D	65E	66	67	68A	68B	68C	69A	69B	70A	
2			1											1
20			3											2
3	3	5	3	6	2	4	4	20	2	6	145	82	28	3
3	(*)		9					13,284		5	24	9		4
17									16,417					5+6
189	4,213	438	128	470	441	6,678	285	8,764	650	878	2,816	5,741	1,966	7
65	(*)	(*)	(*)	1	4	1		(*)			15	1	1	8
	9	1	65	279	8	2	10	(*)	(*)	4	69	949	3	9+10
324				4							1			11
43	1	5	63								58	26		12
18	15	7	95	14	(*)	73	(*)	4	(*)	1	63	23		13
126	(*)	13	74	9	116	1	(*)	(*)	(*)		163	48	128	14
724		15			35					142	1,335	56		15
9											5	4		16
289	19	52	7	56	35	80	14	36	5	68	1,746	2,948	832	17
434	7	67	13	1	29	43	1	12			4,237	526	3	18
7	7	25	3	14	8	18	6	6	2	2	92	86	304	19
88	115	268	48	149	154	689	53	122	17	20	3,792	181	3,667	20+21
337	86	80	18	17	8	93	30	423	4	509	70	27	11	22+23
	33		21							2				24
692												39		25
1	1	3		4		52								26A
143	2	17	42	4		109			5		36	29	29	27B
90	2,132	5,794	731	8,583	89	117	9	3,078	338	260	2,759	2,112	418	28A
947	144	1,117	76	19	66	394	1	118	6	253	1,174	421	80	29B
101	1	7	1	2	6	5	2	1	1	(*)	61	22	20	30
28	37	5	(*)	8	15	8	(*)	11	1	35	164	8	43	33+34
144	8	9	8	3	2	1		9	(*)	12	109	18	10	35
548	83	1	(*)	2		1		2	1		32	7	1	36
1,839	7		195			44		110						37
								15			631			38
1											39			39
131	9		2	48		329		98						40
288	267	263	499	55	36	181	1	20	2	312	236	596	14	41
3	44	42	163	24	242	242		625						42
		3									27			43
76	72	16	178	20	1	4	1	81	2	2	262	2		44+45
											98	33	3	46
25	291	76	573	4	116	301		73	5	5	4	9	12	47
124	155	26	157	43	18	7	2	47	5	5	217	71	6	48
5	1	8	1	2	12	58	20	4	47		49	38	48	49
26	1	20	1	2						3	121	87		50
90	148	98	12	10	27	264	22	198	(*)		1	(*)	9	51
		(*)	13	(*)		(*)					1	8	1	52
22	22	48	36	9	1	55	(*)	130	9	24	36	37	41	53
4	1	4	(*)	7	7	2,179	51	1	(*)	(*)	21	33	37	54
397	11	6	90	8	1,683	778			3	1	22	4	211	55
12	55	69	33	25	45	206	46	213	100	18	214	130	368	56
		19												57
10	132	397	1	13	12	14	2	13	5	726	348	238	50	58
				3,336										59A
4	856	5	364	11	14	14	2	8	2					59B
8	2	4	32	30	1	9	22	93	17	398	66	23	8	60
14	10	45	5	14	16	68	191	26	6	5	190	116	1,047	61
1,218	14	31	49	37	24	94	11	22	6	10	387	413	410	62
83	2,322	260	15	65	78	72	34	3,550	10	36	498	724	561	63
494	122	18,968	74	174	96	142	62	408	16	73	967	1,150	5,272	64
23	38	91	2,472	155	31	15	2	415	25	14	110	56	23	65A
77	82	242	69	4,158	579	234	210	336	108	28	4,336	777	2,087	65B
1	720	3,543	1,425	4,821	1,086	2	1	15	290	4	396	33	10	65C
71	47	1,425	113	926	477	33,184	190	191	25	74	5,573	4,574	5,192	65D
							471							65E
293	99	964	570	244	973	480	24	27	165	37	3,277	9,939	1,702	66
64	2	43	4	14	37	22	3	5,812	20,956	498	1,831	1,011	104	67
109	33	42	100	36	130	1,136	33	202	24	610	311	687	293	68A
1,731	788	1,789	565	2,266	131	883	154	1,342	291	360	9,954	1,696	1,246	68B
19	200	3,230	4	67	26	41	4	48	20	58	764	902	135	68C
260	336	489	1,303	2,110	1,026	1,898	293	1,545	445	159	5,778	3,679	48,309	69A
71	189	957	8	371	531	65	4	952	51	1,068	494	532	3,280	69B
														70A
242	301	2,165	794	1,005	936	2,806	1,568	507	140	80	9,905	24,309	9,486	70B
24	69	166	14	38	86	81	33	42	8	38	2,978	599	804	71A
31	36	91	23	421	50	403	346	268	37	142	1,761	1,982	427	71B
14	349	342	270	717	452	1,647	123	909	239	89	399	1,961	12,499	72A
332	172	547	73	351	440	710	401	508	98	137	4,900	14,163	7,237	72B
362	617	1,353	1,073	329	1,058	470	519	519	171	134	20,686	7,477	13,020	73A
1,683	34	238	246	1,741	644	1,176	82	79	20	18	8,482	20,898	3,548	73B
236	179	555	56	2,288	476	503	231	135	36	54	5,786	5,504	3,357	73C
240	589	4,401	34	286	271	523	39	474	218	4	9,026	6,870	1,554	73D
11	4	15	1	43	11	699	9,383	5	1	1	1,033	199	119	74
														75
124	133	56	62	7	115	231	130	346	23	10	658	424	774	76
91	58	147	7	7	58	251	22	325	129	43	871	1,455	7,115	77A
8	62	135	(*)	22	7	34	26	19	8	1	379	427	42	77B
968	180	10	2,880	4,262	61	3,758	35	7	14	1	2,710	134	3,898	78
														79
														80
														81
														82
														83
														84
17,347	16,774	51,373	16,406	41,048	10,599	66,178	15,936	46,665	41,224	7,477	125,804	127,371	142,016	I
15,742	26,684	64,722	7,647	35,205	15,309	94,949	13,460	85,706	26,325	3,786	297,947	293,322	144,596	VA
33,089	43,458	116,095	24,053	76,253	25,908	161,127	29,396	132,371	67,549	11,262	423,751	420,694	286,613	T

Table 2.1.—The Use of Commodities

[Millions of dollars]

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	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
		70B	71A	71B	72A	72B	73A	73B	73C	73D
		Industry number								
1	Livestock and livestock products				2				27	
2	Other agricultural products			19	3					
3	Forestry and fishery products			1	1					
4	Agricultural, forestry, and fishery services	6	2,584	2,002	217	10	4	11	57	1
5+6	Metallic ores mining									
7	Coal mining			1	7	4			4	
8	Crude petroleum and natural gas									
9+10	Nonmetallic minerals mining									
11	New construction									
12	Maintenance and repair construction	517	15,921	21,677	1,483	646	165	313	1,466	89
13	Ordnance and accessories	(*)		(*)	(*)			7	205	
14	Food and kindred products	2		9	104	20	1	9	140	(*)
15	Tobacco products									
16	Broad and narrow fabrics, yarn and thread mills				48	189			1	
17	Miscellaneous textile goods and floor coverings			(*)	8	15	(*)	1		
18	Apparel			1	97	339			77	(*)
19	Miscellaneous fabricated textile products	11		5	531	359	1	1	10	18
20+21	Lumber and wood products			34	5	25	9	31	28	1
22+23	Furniture and fixtures			2	(*)	1	1	3	3	(*)
24	Paper and allied products, except containers	143		452	295	304	365	639	898	52
25	Paperboard containers and boxes	1		22	6	22	11	36	34	9
26A	Newspapers and periodicals	24		16	34	22	17	31	78	3
26B	Other printing and publishing	1,389		1,284	332	689	2,067	1,518	2,955	688
27A	Industrial and other chemicals	5	1	24	5	234	3	14	774	3
27B	Agricultural fertilizers and chemicals		269	111	212				291	
28	Plastics and synthetic materials					34				
29A	Drugs								47	
29B	Cleaning and toilet preparations			36	242	898	9	37	717	1
30	Paints and allied products					1			137	1
31	Petroleum refining and related products	98		389	242	310	121	458	690	46
32	Rubber and miscellaneous plastics products	21	73	540	772	1,107	991	282	1,753	19
33+34	Footwear, leather, and leather products	16		10	9	691	4	37	20	1
35	Glass and glass products	1		9	479		3	34	181	
36	Stone and clay products	1		31	30	246	1	1	60	(*)
37	Primary iron and steel manufacturing			2	1	4	1	4	18	1
38	Primary nonferrous metals manufacturing					29				
39	Metal containers								246	
40	Heating, plumbing, and fabricated structural metal products		100	61						
41	Screw machine products and stampings					61			152	
42	Other fabricated metal products	2		71	26	184	26	106	214	4
43	Engines and turbines								101	
44+45	Farm, construction, and mining machinery		195	4					510	
46	Materials handling machinery and equipment								258	
47	Metalworking machinery and equipment	1		1	2	13	2	7	584	1
48	Special industry machinery and equipment			2	(*)	1	1	3	274	(*)
49	General industrial machinery and equipment			24					724	
50	Miscellaneous machinery, except electrical	1		3	3	53	5	44	262	1
51	Computer and office equipment	10		21	6	464	972	259	354	9
52	Service industry machinery					157			253	
53	Electrical industrial equipment and apparatus	(*)				39	88	1	559	
54	Household appliances	(*)		59	7	658			29	
55	Electric lighting and wiring equipment	6		64	123	27	6	66	180	1
56	Audio, video, and communication equipment	24		22	4	24	11	17	95	1
57	Electronic components and accessories	8				1,608	1,746	15	3,335	
58	Miscellaneous electrical machinery and supplies	170		138	3	28	441	339	636	17
59A	Motor vehicles (passenger cars and trucks)									
59B	Truck and bus bodies, trailers, and motor vehicles parts	42		48	16	31	15	178	113	10
60	Aircraft and parts									
61	Other transportation equipment	2			6				264	
62	Scientific and controlling instruments	5		3	34	26	37	6	136	2
63	Ophthalmic and photographic equipment	254		91	18	600	29	718	1,397	10
64	Miscellaneous manufacturing	141		134	116	1,412	25	378	353	20
65A	Railroads and related services; passenger ground transportation	325	8	445	106	78	62	130	366	28
65B	Motor freight transportation and warehousing	406	12	595	173	303	113	224	683	37
65C	Water transportation	7	3	14	10	21	4	22	126	2
65D	Air transportation	502	1	424	46	187	551	1,673	3,276	43
65E	Pipelines, freight forwarders, and related services	69		115	49	4	3	10	15	1
66	Communications, except radio and TV	2,405		1,539	587	981	1,571	2,204	3,403	210
67	Radio and TV broadcasting									453
68A	Electric services (utilities)	98		308	1,278	1,192	295	467	1,274	43
68B	Gas production and distribution (utilities)	4		60	604	476	39	85	418	10
68C	Water and sanitary services	298		75	372	144	14	169	84	3
69A	Wholesale trade	277	144	493	558	1,517	904	1,199	3,037	70
69B	Retail trade	46	256	229	50	83	41	223	258	18
70A	Finance	5,832	1,619	6,294	1,931	844	543	1,412	2,512	154
70B	Insurance	54,111	9,705	6,322	47	72	36	316	748	19
71A	Owner-occupied dwellings									
71B	Real estate and royalties	4,830	12,218	32,320	1,523	3,767	2,051	8,826	6,374	1,069
72A	Hotels and lodging places	1,047		910	28	84	87	3,128	1,050	191
72B	Personal and repair services (except auto)	192		763	684	1,436	56	557	277	46
73A	Computer and data processing services	1,153		74	18	356	7,058	8,284	6,035	21
73B	Legal, engineering, accounting, and related services	2,823	1,657	2,190	630	2,765	491	15,381	5,285	200
73C	Other business and professional services, except medical	1,963	1,347	7,363	2,690	2,246	1,674	16,011	14,020	437
73D	Advertising	2,025		6,263	658	1,492	533	493	2,320	92
74	Eating and drinking places	2,856		3,338	50	462	473	1,142	2,537	199
75	Automotive repair and services	799		1,381	541	870	464	2,717	2,412	318
76	Amusements	66		72	17	19	11	121	152	123
77A	Health services									
77B	Educational and social services, and membership organizations	63		194	130	898	344	921	1,339	37
78	Federal Government enterprises	688		467	189	305	259	1,357	1,559	63
79	State and local government enterprises	25		112	233	122	20	114	118	23
80	Noncomparable imports	618		56	60	10	179	465	928	24
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	86,428	46,111	99,839	18,787	32,319	25,051	73,250	82,309	4,941
VA	Value added	86,422	279,033	280,436	22,211	33,983	35,770	104,682	138,418	10,942
T	Total industry output	172,850	325,144	380,275	40,997	66,302	60,821	177,931	220,728	15,884

*Less than \$500,000.

Table 2.1.—The Use of Commodities by Industries, 1987 Benchmark—Continued

[Millions of dollars at producers' prices]

Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Exports of goods and services	Imports of goods and services	Federal Government purchases			State and local government purchases			GDP	Total commodity output
				Total	National defense	Non-defense	Total	Education	Other		
				94	95	96	97	98	99		
1	Livestock and livestock products	485	-808	12	2	10	84	30	54	2,144	83,609
2	Other agricultural products	12,747	-2,353	750	.....	750	587	220	368	23,152	82,183
3	Forestry and fishery products	544	-3,747	-1,112	.....	-1,112	-413	6	-419	-864	9,488
4	Agricultural, forestry, and fishery services	122	-16	121	38	84	1,040	284	756	1,914	23,668
5+6	Metallic ores mining	559	-1,349	-141	-142	1	.....	.....	.....	-466	6,802
7	Coal mining	2,663	-65	86	56	29	32	21	11	3,953	25,451
8	Crude petroleum and natural gas	1,494	-28,965	-173	5	-177	.....	.....	.....	-29,318	68,008
9+10	Nonmetallic minerals mining	633	-734	2	-2	4	-19	.....	-19	-90	11,884
11	New construction	15	.....	15,550	7,495	8,055	71,111	10,091	61,020	445,303	445,347
12	Maintenance and repair construction	81	.....	6,258	4,358	1,900	25,728	5,912	19,816	49,367	173,466
13	Ordinance and accessories	2,725	-467	22,745	20,365	2,380	117	1	116	26,873	28,177
14	Food and kindred products	12,111	-18,538	2,025	189	1,836	5,854	3,739	2,114	204,376	329,636
15	Tobacco products	2,591	-879	.....	.....	.....	-11	-1	-879	10	26,381
16	Broad and narrow fabrics, yarn and thread mills	1,407	-3,601	115	105	10	142	58	84	-291	34,832
17	Miscellaneous textile goods and floor coverings	782	-919	30	3	27	51	8	43	7,717	16,266
18	Apparel	1,197	-25,395	567	566	1	853	15	838	49,821	64,599
19	Miscellaneous fabricated textile products	362	-1,772	185	140	45	441	95	347	9,637	19,006
20+21	Lumber and wood products	3,645	-6,399	45	32	13	113	59	55	4,301	72,936
22+23	Furniture and fixtures	684	-5,287	129	39	90	1,775	992	784	32,833	36,700
24	Paper and allied products, except containers	5,922	-9,914	366	124	243	2,240	1,183	1,057	11,432	80,961
25	Paperboard containers and boxes	762	-126	74	42	31	158	32	125	786	25,288
26A	Newspapers and periodicals	555	-226	153	15	138	456	302	154	13,128	15,674
26B	Other printing and publishing	1,062	-1,335	1,097	428	669	4,870	3,403	1,466	17,804	67,126
27A	Industrial and other chemicals	14,630	-10,727	1,893	1,793	100	2,203	567	1,635	10,286	89,852
27B	Agricultural fertilizers and chemicals	542	-990	25	9	15	324	111	213	823	13,365
28	Plastics and synthetic materials	5,364	-2,009	13	13	1	2	1	1	3,872	43,407
29A	Drugs	2,959	-7,590	795	472	324	2,865	86	2,778	24,186	35,862
29B	Cleaning and toilet preparations	983	-1,281	202	160	42	439	119	321	25,920	32,872
30	Paints and allied products	342	-214	6	1	5	294	228	66	818	12,183
31	Petroleum refining and related products	6,128	-13,332	3,193	2,649	545	7,931	3,789	4,142	67,111	137,599
32	Rubber and miscellaneous plastics products	3,233	-9,702	636	480	157	1,348	88	1,260	8,631	86,851
33+34	Footwear, leather, and leather products	666	-9,700	50	47	4	106	(*)	105	5,209	8,787
35	Glass and glass products	777	-1,837	59	22	37	273	66	207	968	16,335
36	Stone and clay products	1,019	-4,513	108	51	57	170	66	104	95	43,340
37	Primary iron and steel manufacturing	1,407	-10,824	151	78	72	57	6	5	-7,982	66,201
38	Primary nonferrous metals manufacturing	3,303	-6,992	644	395	250	58	4	54	-2,014	55,746
39	Metal containers	166	-155	57	57	.....	7	4	3	120	11,739
40	Heating, plumbing, and fabricated structural metal products	869	-961	658	491	168	1	.....	1	4,460	43,686
41	Screw machine products and stampings	2,123	-2,261	138	110	28	277	216	61	1,978	31,826
42	Other fabricated metal products	2,634	-6,573	481	407	75	550	177	373	3,241	47,022
43	Engines and turbines	2,899	-2,102	2,045	1,879	167	265	.....	265	6,078	14,394
44+45	Farm, construction, and mining machinery	6,063	-5,402	321	303	18	1,358	84	1,274	19,829	26,005
46	Materials handling machinery and equipment	540	-1,321	321	312	9	13	4	9	4,627	7,376
47	Metalworking machinery and equipment	2,335	-4,911	220	180	40	236	134	102	11,951	22,051
48	Special industry machinery and equipment	2,696	-4,993	82	76	6	74	69	5	13,285	16,411
49	General industrial machinery and equipment	4,182	-6,947	560	542	18	162	(*)	162	9,183	23,221
50	Miscellaneous machinery, except electrical	1,660	-604	2,657	2,573	84	251	116	135	4,929	19,855
51	Computer and office equipment	13,167	-17,329	4,168	3,493	675	1,982	1,196	786	39,085	54,431
52	Service industry machinery	1,217	-1,504	123	101	21	655	476	179	8,865	21,746
53	Electrical industrial equipment and apparatus	1,847	-3,346	636	467	168	273	140	132	5,557	23,277
54	Household appliances	943	-2,950	42	38	4	235	101	134	12,927	15,670
55	Electric lighting and wiring equipment	1,358	-3,341	62	41	21	472	284	189	1,871	17,421
56	Audio, video, and communication equipment	4,137	-20,190	5,265	4,964	301	703	335	368	30,476	41,037
57	Electronic components and accessories	12,596	-13,704	5,912	5,884	28	174	81	94	6,029	48,203
58	Miscellaneous electrical machinery and supplies	2,404	-4,511	1,671	1,577	95	191	71	120	8,149	20,987
59A	Motor vehicles (passenger cars and trucks)	12,918	-61,157	740	609	131	5,714	1,288	4,426	131,139	133,509
59B	Truck and bus bodies, trailers, and motor vehicles parts	10,874	-16,950	1,093	1,050	43	716	294	422	7,200	68,327
60	Aircraft and parts	22,891	-6,875	34,512	33,306	1,206	20	.....	20	61,838	84,421
61	Other transportation equipment	1,278	-2,937	7,160	6,754	405	515	103	411	21,311	24,074
62	Scientific and controlling instruments	10,311	-9,990	25,249	23,710	1,540	3,249	517	2,732	68,373	85,858
63	Ophthalmic and photographic equipment	2,224	-5,696	1,129	704	425	2,604	1,015	1,589	10,129	18,707
64	Miscellaneous manufacturing	2,831	-15,769	-424	123	-547	1,932	1,184	747	21,805	31,083
65A	Railroads and related services; passenger ground transportation	3,377	-135	810	320	490	2,653	2,256	397	21,164	48,394
65B	Motor freight transportation and warehousing	4,606	.....	5,150	2,729	2,421	1,944	897	1,048	35,056	115,194
65C	Water transportation	7,512	3,264	834	697	137	167	35	133	16,169	24,198
65D	Air transportation	11,216	-5,711	2,837	2,159	678	2,048	956	1,093	42,745	79,060
65E	Pipelines, freight forwarders, and related services	1,958	.....	80	42	38	146	40	106	4,776	23,301
66	Communications, except radio and TV	2,496	.....	3,853	1,954	1,899	5,540	2,519	3,021	78,241	160,164
67	Radio and TV broadcasting .....	.....	.....	.....	.....	.....	.....	.....	.....	1,326	2,250
68A	Electric services (utilities)	134	-986	2,671	1,734	937	11,720	4,541	7,180	76,857	156,453
68B	Gas production and distribution (utilities)	161	-1,763	579	465	114	1,672	685	987	26,192	82,180
68C	Water and sanitary services	37	.....	236	184	53	983	1,018	-35	16,120	28,469
69A	Wholesale trade	26,294	15,533	5,860	5,039	821	9,454	3,940	5,514	212,971	423,751
69B	Retail trade	85	.....	114	92	22	263	-41	304	385,364	422,960
70A	Finance	12,598	-161	1,400	.....	1,400	9,366	.....	9,366	158,991	280,950
70B	Insurance	2,906	-3,078	1,746	36	1,710	827	666	161	84,039	177,621
71A	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	325,144	325,144
71B	Real estate and royalties	10,830	.....	1,243	547	696	6,563	713	5,850	164,515	389,620
72A	Hotels and lodging places	49	.....	947	692	254	836	-1,237	2,073	22,012	40,064
72B	Personal and repair services (except auto)	31	.....	125	65	60	898	301	597	49,085	66,271
73A	Computer and data processing services	928	-104	4,133	2,833	1,300	5,248	1,402	3,845	11,110	64,687
73B	Legal, engineering, accounting, and related services	2,398	-391	8,099	7,561	538	1,656	1,729	-73	50,727	177,982
73C	Other business and professional services, except medical	1,546	-740	20,907	15,944	4,963	11,433	4,136	7,298	45,807	211,758
73D	Advertising	475	-253	85	79	5	597	416	181	1,564	109,406
74	Eating and drinking places	271	.....	1,139	371	768	-3,409	-5,546	2,138	167,639	211,021
75	Automotive repair and services	31	.....	185	94	92	2,223	823	1,400	70,129	131,228
76	Amusements	1,222	-64	1,001	823	189	-1,452	179	-1,641	48,119	78,841
77A	Health services	16	.....	613	-352	965	-32,757	-10	-32,747	330,888	338,393
77B	Educational and social services, and membership organizations	144	-9	7,326	1,127	6,199	-16,252	-15,934	-318	140,184	152,270
78	Federal Government enterprises	169	.....	409	312	97	1,482	128	1,354	8,490	33,469
79	State and local government enterprises	111	.....	80	31	359	171	187	187	14,621	19,045
80	Noncomparable imports .....	.....	-78,696	10,116	8,673	1,443	49	43	6	-39,151	.....
81	Scrap, used and secondhand goods	4,267	-2,068	675	-104	778	2,272	683	1,589	-4,139	2,321
82	General government industry .....	.....	.....	150,627	108,244	42,383	316,158	173,286	142,873	466,785	466,785
83	Rest of the world adjustment to final uses	31,653	.....	-517	-161	-356	.....	.....	.....	.....	.....
84	Household industry .....	.....	.....	.....	.....	.....	.....	.....	.....	7,709	7,709
85	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	-17,817	-17,817
I	Total intermediate inputs .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
VA	Value added .....	.....	.....	.....	.....	.....	.....	.....	.....	4,572,829	.....
T	Total industry output	348,572	-490,442	384,927	292,052	92,875	496,592	218,272	278,320	.....	8,175,016

*Less than \$500,000.

Table 2.2.—Input Components of Total Industry Output, 1987 Benchmark

[Millions of dollars at producers' prices]

Industry number		Value added				Total intermediate inputs	Total industry output	Industry number
		Total	Compensation of employees	Indirect business tax and nontax liability	Other value added			
1	Livestock and livestock products	15,074	3,284	1,091	10,700	72,410	87,484	1
2	Other agricultural products	46,721	5,619	2,536	38,566	40,021	86,742	2
3	Forestry and fishery products	3,708	779	158	2,771	7	7,456	3
4	Agricultural, forestry, and fishery services	9,948	9,941	.....	.....	12,253	22,201	4
5+6	Metallic ores mining	3,476	1,836	501	1,139	3,331	6,807	5+6
7	Coal mining	15,488	8,383	2,033	5,072	9,964	25,452	7
8	Crude petroleum and natural gas	55,484	11,699	3,939	39,847	28,744	84,228	8
9+10	Nonmetallic minerals mining	8,213	4,008	688	3,518	4,751	12,964	9+10
11+12	Construction	291,000	189,998	4,487	96,515	327,813	618,813	11+12
13	Ordinance and accessories	18,928	12,370	235	6,323	12,510	31,438	13
14	Food and kindred products	100,498	43,805	7,225	49,468	225,473	325,972	14
15	Tobacco products	16,795	2,853	4,701	9,242	9,588	26,383	15
16	Broad and narrow fabrics, yarn and thread mills	12,140	8,413	235	3,491	26,104	38,244	16
17	Miscellaneous textile goods and floor coverings	4,354	2,729	102	1,523	11,628	15,982	17
18	Apparel	27,003	17,503	239	9,262	37,181	64,184	18
19	Miscellaneous fabricated textile products	6,915	4,048	83	2,784	10,072	16,987	19
20+21	Lumber and wood products	25,923	16,168	1,251	8,503	46,952	72,875	20+21
22+23	Furniture and fixtures	17,259	11,412	230	5,617	19,518	36,777	22+23
24	Paper and allied products, except containers	34,278	16,521	1,345	16,412	47,704	81,982	24
25	Paperboard containers and boxes	8,806	6,370	205	2,231	16,705	25,511	25
26A	Newspapers and periodicals	29,037	15,391	255	13,392	20,689	49,727	26A
26B	Other printing and publishing	45,145	27,499	957	16,689	42,232	87,378	26B
27A	Industrial and other chemicals	37,277	15,582	1,824	19,871	47,098	84,375	27A
27B	Agricultural fertilizers and chemicals	3,364	1,950	226	1,188	10,148	13,512	27B
28	Plastics and synthetic materials	14,365	6,560	766	7,040	26,308	40,672	28
29A	Drugs	22,172	8,292	152	13,728	13,840	36,012	29A
29B	Cleaning and toilet preparations	17,646	5,308	184	12,155	15,583	33,229	29B
30	Paints and allied products	5,568	2,505	32	3,031	6,504	12,072	30
31	Petroleum refining and related products	24,258	6,857	10,590	6,812	113,613	137,871	31
32	Rubber and miscellaneous plastics products	37,624	23,433	1,672	12,519	47,948	85,572	32
33+34	Footwear, leather, and leather products	3,681	2,362	28	1,292	5,018	8,700	33+34
35	Glass and glass products	8,210	4,875	218	3,117	7,875	16,085	35
36	Stone and clay products	20,563	11,952	803	7,807	23,169	43,732	36
37	Primary iron and steel manufacturing	25,370	17,894	1,183	6,293	42,721	68,091	37
38	Primary nonferrous metals manufacturing	14,213	10,442	590	3,182	42,163	56,376	38
39	Metal containers	3,421	2,019	85	1,318	8,483	11,904	39
40	Heating, plumbing, and fabricated structural metal products	19,001	12,772	492	5,737	24,930	43,930	40
41	Screw machine products and stampings	14,187	11,245	512	2,430	17,787	31,973	41
42	Other fabricated metal products	22,269	14,716	501	7,053	22,155	44,424	42
43	Engines and turbines	6,226	3,973	175	2,077	7,870	14,096	43
44+45	Farm, construction, and mining machinery	11,852	7,478	449	3,925	14,902	26,753	44+45
46	Materials handling machinery and equipment	3,309	2,409	66	835	3,884	7,194	46
47	Metalworking machinery and equipment	12,470	9,843	275	2,353	8,756	21,227	47
48	Special industry machinery and equipment	8,595	6,147	163	2,285	7,659	16,254	48
49	General industrial machinery and equipment	12,400	8,544	262	3,595	10,836	23,236	49
50	Miscellaneous machinery, except electrical	11,839	9,391	250	2,198	8,164	20,003	50
51	Computer and office equipment	24,195	13,585	440	10,170	31,625	55,819	51
52	Service industry machinery	10,422	6,580	151	3,691	11,987	22,409	52
53	Electrical industrial equipment and apparatus	11,609	7,919	243	3,447	11,056	22,665	53
54	Household appliances	6,594	3,660	127	2,807	8,767	15,361	54
55	Electric lighting and wiring equipment	9,083	5,249	158	3,675	8,532	17,615	55
56	Audio, video, and communication equipment	20,337	11,383	358	8,596	20,363	40,700	56
57	Electronic components and accessories	26,895	18,527	852	7,517	21,758	48,654	57
58	Miscellaneous electrical machinery and supplies	9,452	6,579	235	2,639	11,371	20,823	58
59A	Motor vehicles (passenger cars and trucks)	25,004	15,227	2,108	7,669	109,111	134,115	59A
59B	Truck and bus bodies, trailers, and motor vehicles parts	26,270	19,067	1,597	5,607	42,721	68,991	59B
60	Aircraft and parts	39,508	30,002	614	8,892	42,620	82,128	60
61	Other transportation equipment	11,396	8,713	117	2,566	12,687	24,082	61
62	Scientific and controlling instruments	49,114	33,494	955	14,665	36,349	85,463	62
63	Ophthalmic and photographic equipment	11,264	4,276	220	6,768	8,462	19,725	63
64	Miscellaneous manufacturing	15,742	8,637	309	6,796	17,347	33,089	64
65A	Railroads and related services, passenger ground transportation	26,684	18,648	1,581	6,456	16,774	43,458	65A
65B	Motor freight transportation and warehousing	64,722	40,701	3,083	20,938	51,373	116,095	65B
65C	Water transportation	7,647	5,732	687	1,229	16,406	24,053	65C
65D	Air transportation	35,205	23,231	5,749	6,225	41,048	76,253	65D
65E	Pipelines, freight forwarders, and related services	15,309	7,945	642	6,722	10,599	25,908	65E
66	Communications, except radio and TV	94,949	36,761	11,910	46,278	66,178	161,127	66
67	Radio and TV broadcasting	13,460	9,886	600	2,975	15,936	29,396	67
68A	Electric services (utilities)	85,706	19,453	9,242	57,012	46,665	132,371	68A
68B	Gas production and distribution (utilities)	26,325	8,626	3,151	14,548	41,224	67,549	68B
68C	Water and sanitary services	3,786	3,510	584	-309	7,477	11,262	68C
69A	Wholesale trade	297,947	174,697	57,724	65,525	125,804	423,751	69A
69B	Retail trade	293,322	187,889	53,073	52,360	127,371	420,694	69B
70A	Finance	144,596	109,452	8,317	26,827	142,016	286,613	70A
70B	Insurance	86,422	62,328	12,429	11,666	86,428	172,850	70B
71A	Owner-occupied dwellings	279,033	.....	50,971	228,062	46,111	325,144	71A
71B	Real estate and royalties	280,436	27,230	53,227	199,979	99,839	380,275	71B
72A	Hotels and lodging places	22,211	10,663	3,698	7,850	18,787	40,997	72A
72B	Personal and repair services (except auto)	33,983	21,130	1,187	11,666	32,319	66,302	72B
73A	Computer and data processing services	35,770	25,443	655	9,673	25,051	60,821	73A
73B	Legal, engineering, accounting, and related services	104,682	79,014	818	24,850	73,250	177,931	73B
73C	Other business and professional services, except medical	138,418	92,121	3,952	42,345	82,309	220,728	73C
73D	Advertising	10,942	7,404	126	3,412	4,941	15,884	73D
74	Eating and drinking places	108,791	81,909	9,606	17,276	100,603	209,394	74
75	Automotive repair and services	62,395	28,995	4,301	29,099	68,309	130,704	75
76	Amusements	37,552	24,710	2,857	9,986	40,640	78,192	76
77A	Health services	218,801	178,143	1,901	38,757	119,710	338,511	77A
77B	Educational and social services, and membership organizations	72,590	68,100	418	4,072	80,088	152,678	77B
78	Federal Government enterprises	33,760	31,077	.....	2,683	11,636	45,396	78
79	State and local government enterprises	27,750	19,296	26	8,428	41,734	69,484	79
82	General government industry	466,785	466,785	.....	.....	.....	466,785	82
84	Household industry	7,709	7,709	.....	.....	.....	7,709	84
85	Inventory valuation adjustment	-17,817	.....	.....	-17,817	.....	-17,817	85
T	Total	4,572,829	2,698,657	364,986	1,509,186	3,602,186	8,175,016	T

* Less than \$500,000.