

Benchmark Input-Output Accounts of the United States, 1997

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THIS article presents the 1997 benchmark input-output (I-O) accounts, the latest in a series of accounts that provide the most detailed, integrated information available on the structure of the U.S. economy. The I-O accounts—including the detailed once-every-5-year benchmark accounts and the less detailed annual updates—provide an extensive accounting of the production of goods and services by each industry and commodity, which includes the goods and services purchased by each industry, the incomes earned in each industry, and the distribution of sales for each good and service to industries and final users.¹ They also detail each industry's contribution to gross domestic product (GDP) and to its counterpart gross domestic income (GDI).

These accounts are used by industry analysts to assess such issues as the potential size of direct and indirect sales and the potential sources of growth. Analysts and policymakers can also use the accounts to assess the impact across industries and on consumers of increases in petroleum prices, insurance costs, and taxes. State and local government analysts use them through regional extensions of the I-O framework to assess the impact of base-closings or of major development projects. BEA and other statistical agencies use them to benchmark GDP and other key statistics.

The 1997 benchmark I-O accounts show the flows of 483 commodities to 491 industries and to 13 final uses. Final uses represent expenditures by households, government, and business for consumption or investment. The categories of final uses are personal consumption expenditures (PCE), gross private domestic investment, exports, imports, and government consumption expenditures and gross investment. GDP, which excludes intermediate purchases in order to avoid double counting (for example, of the semiconductors that go into computers or the flour that goes into bread) is by definition equal to the sum of all final

uses. The I-O accounts show the contribution made by the primary inputs (mainly labor and capital) to the output of each industry.

Value added is the difference between a firm's sales and its intermediate purchases of materials and services from other firms. It is equal to the contributions of capital and labor to the firm's sales as measured by the incomes that they receive. Because value added includes only the firm's own contribution to output, the sum of value added, and of the sum of the incomes earned in production, equals GDI and also GDP.

In 1997, total sales, or the gross output, of U.S. business was \$14.9 trillion; deducting the \$6.5 trillion in intermediate purchases yields a GDP of \$8.3 trillion. On average, intermediate purchases of materials, energy, and all other commodities accounted for 44 cents of each dollar of sales, and value added accounted for the remaining 56 cents (with 31 cents for compensation, 4 cents for indirect business taxes and nontax liabilities, and 20 cents for other value added).

The I-O accounts are the building blocks for other economic accounts, including BEA's national income and product accounts (NIPA's). The impact of the 1997 I-O accounts on the NIPA estimates of GDP expenditure and income components will be presented in a forthcoming issue of the *SURVEY OF CURRENT BUSINESS*.

The major changes introduced in the 1997 benchmark I-O accounts include the following:

- Incorporated the North American Industry Classification System (NAICS), which provides the accounts with a more relevant system for classifying industries, especially for services, than its predecessor Standard Industrial Classification (SIC) system, which originated in the 1930s. As a result, the 1997 benchmark accounts provide greater detail on service industries—including those in the new sector "Information," which accounted for 4.4 percent of total value added.
- Pulled out certain service activities that had formerly been embedded in the statistical data and included them in industries that provide similar types of services. These activities consist of services provided by the central administrative offices and

1. Benchmark I-O accounts are prepared at 5-year intervals and are based on detailed data from the economic census conducted by the Census Bureau. The eight previous benchmark I-O accounts covered 1958, 1963, 1967, 1972, 1977, 1982, 1987, and 1992. The 1992 I-O accounts were presented in the November and December 1997 issues of the *SURVEY OF CURRENT BUSINESS*.

other types of auxiliaries (such as trucking and legal services) of companies. This new treatment, which is part of the change to NAICS, ensures that the measure of services is independent of changes in company practices for outsourcing to other businesses. In the 1997 benchmark accounts, 3.1 percent of total value added is moved into these industries, mostly from manufacturing and from wholesale and retail trade.

- Presented the 1997 benchmark I-O accounts in a new featured set of “standard” tables that conform closely to the statistical data sources. These tables are more consistent with the GDP-by-industry accounts and the gross state product accounts and with other industry data that are based on information collected using NAICS.
- Adapted the software tool on BEA’s Web site so users can interactively select and customize data from the benchmark I-O accounts. As a result, users can easily select, preview, and download data at different levels of aggregation and using different measures of value.

This article is presented in three parts. The first part summarizes the major changes to the 1997 benchmark accounts that result from the conversion from the SIC system to NAICS. The second part describes other major changes in classification, methodology, and presentation that have been introduced. The third part summarizes the methodology used to compile the accounts. A technical note describing the 1997 I-O tables is followed by several appendix tables that provide information on the classification of industries, value added, and final uses and bridge tables that link the 1997 benchmark I-O accounts to the NIPA’s.

NAICS and Its Effects on the 1997 Benchmark I-O Accounts

Unlike the SIC, NAICS classifies industries based on the economic concept of production: Establishments are grouped according to the similarities of their production processes rather than the similarities of their products.² In using the concept of production, NAICS-based classifications are more in line with the principle underlying the I-O classifications: Industries are classified in the I-O accounts so that each industry has a unique production function.

One of the largest differences introduced by NAICS is that auxiliaries are now treated as establishments, classified by their production processes.³ In the SIC, the services provided by auxiliaries are measured as ex-

penses of the industry that uses the auxiliary service. In NAICS, the services that these auxiliaries provide are recognized as output, and the compensation paid to employees, indirect business tax and nontax liability, and depreciation make up the value added of auxiliaries.⁴ The incorporation of NAICS has enabled the 1997 benchmark I-O accounts to provide a better picture of the composition of the increasingly services-oriented U.S. economy. With this treatment, GDP does not increase; instead, the intermediate purchases and the value added of the auxiliaries are moved from the establishments that use their services to an industry with similar production processes.

A second significant change in NAICS is the additional detail provided for the services sector. NAICS recognizes that the focus of U.S. economic activity has been shifting from goods to services, so that services have been accounting for a greater share of GDP over time. Whereas the 1992 benchmark I-O accounts showed an aggregate sector “Services,” NAICS allows for a more detailed breakdown that includes

- Professional and business services,
- Education and health services, and
- Leisure and hospitality services.

A third important change in NAICS is the introduction of the sector “Information.” This new sector reflects the new and advanced technologies that play increasingly important roles in the U.S. economy. Thus, the effects of these technologies on the economy are shown together rather than being scattered among manufacturing, services, and communications.

As a result of the NAICS changes, nearly \$200 billion of value added was shifted from the goods-producing sectors to the services-providing sectors.⁵ Total economic activity itself has not changed, but BEA’s measure of services in the economy has improved.

Treatment of auxiliaries

In the SIC, auxiliaries are classified as being part of the industry that uses their services.⁶ This treatment is best illustrated with an example. A plant that produces soft drinks uses the services of a central administrative office (CAO) that is located outside of the plant; this CAO handles activities such as paying invoices and providing payroll services for the soft drink plant. Under the SIC treatment, the intermediate purchases of

4. For auxiliaries, output is the sum of intermediate purchases plus value added, which is measured as the sum of compensation, indirect business tax and nontax liability, and depreciation. Intermediate purchases are all the other operating expenses of an establishment.

5. Goods-producing sectors include natural resources and mining, construction, and manufacturing. Services-providing sectors include utilities, trade, transportation and warehousing, information, and all other services.

6. See Executive Office of the President, Office of Management and Budget, *Standard Industrial Classification Manual 1987* (Springfield, VA: National Technical Information Service): 13–15.

2. For details about the differences between the 1987 Standard Industrial Classification System and the 1997 NAICS, see the Census Bureau’s Web site at <www.census.gov>.

3. Auxiliaries are establishments that primarily provide support services, such as payroll services or data-processing services, to other establishments of the same enterprise.

the CAO are included in the intermediate purchases of the soft drink plant, and the compensation, the indirect business tax and nontax liability, and the depreciation expenses of the auxiliary are reflected in the value added of the soft drink plant.

In NAICS, the services the CAO provides are measured as separate economic activities rather than grouped with the economic activities of the soft drink plant, and the services provided by auxiliaries are now explicitly measured and treated as output. Auxiliary value added, intermediate purchases, and output are grouped with similar industry activity, and the auxiliary services are shown as purchases by the industries served. The important change is that the activities of the auxiliaries are grouped in industries with similar production processes.⁷

NAICS recognizes a new industry, "Management of companies and enterprises" (NAICS 5511). Most of the establishments in this new industry are CAO's. In addition, the 1997 Economic Census collected data on

12 types of auxiliaries in services, in transportation and warehousing, and in information.⁸ Most of these other auxiliaries are in "Professional, scientific, and technical services" (NAICS 54) and in "Administrative and support and waste management and remediation services" (NAICS 56).

The Economic Census also provided data for auxiliaries on the SIC-industry-served basis, but these data were only partial.⁹ For comparison, BEA used these data to prepare rough approximations of output, intermediate purchases, and value added on an SIC basis. The approximations used an average of the split between the value added and the intermediate purchases of the three largest auxiliaries to remove the NAICS treatment of auxiliaries. Although rough, these approximations provide a means of gauging the effects of the new treatment at an aggregate level and give an indication of the major shifts that have resulted. The results are discussed below and shown in table A.

7. See Karen J. Horowitz and Stephanie H. McCulla, "Upcoming Changes in the NAICS-Based 1997 Benchmark Input-Output Accounts," SURVEY 81 (December 2001): 71.

8. For details about auxiliary services in the 1997 NAICS, see the Census Bureau's Web site at <www.census.gov>.

9. The 1997 Economic Census is the only one in which auxiliaries are presented on both a NAICS basis and an SIC basis.

Table A. Effects of Treating Auxiliaries as Establishments in the 1997 Benchmark I-O Accounts

[Billions of dollars]

After NAICS								
	Natural resources and mining	Utilities and construction	Manufacturing	Trade	Transportation and warehousing	Information	Services and other ¹	Total
Total intermediate inputs	277	494	2,531	605	273	302	2,036	6,517
All other intermediate	263	492	2,361	505	266	296	1,995	6,177
Auxiliaries	14	2	170	100	7	6	41	340
Total value added	178	464	1,254	968	247	367	4,868	8,346
Compensation of employees	55	296	722	546	165	158	2,714	4,656
Indirect business tax and nontax liability	17	35	45	232	13	34	270	646
Other value added	106	133	487	190	69	175	1,883	3,043
Total industry output	455	958	3,785	1,573	520	669	6,903	14,863
Before NAICS								
	Natural resources and mining	Utilities and construction	Manufacturing	Trade	Transportation and warehousing	Information	Services and other ¹	Total
Total intermediate inputs	267	493	2,411	534	261	296	1,915	6,177
All other intermediate	267	493	2,411	534	261	296	1,915	6,177
Auxiliaries	0	0	0	0	0	0	0	0
Total value added	188	465	1,374	1,039	241	369	4,669	8,346
Compensation of employees	63	297	826	607	159	160	2,544	4,656
Indirect business tax and nontax liability	18	35	48	234	13	34	264	646
Other value added	107	133	500	198	69	175	1,861	3,043
Total industry output	455	958	3,785	1,573	502	665	6,585	14,523
Difference								
	Natural resources and mining	Utilities and construction	Manufacturing	Trade	Transportation and warehousing	Information	Services and other ¹	Total
Total intermediate inputs	10	1	120	71	12	6	120	340
All other intermediate	-4	-1	-50	-29	5	0	79	0
Auxiliaries	14	2	170	100	7	6	41	340
Total value added	-10	-1	-120	-71	6	-2	198	0
Compensation of employees	-8	-1	-104	-61	6	-2	170	0
Indirect business tax and nontax liability	-1	0	-3	-2	0	0	6	0
Other value added	-1	0	-13	-8	0	0	22	0
Total industry output	0	0	0	0	18	4	318	340

1. Includes financial services, professional and business services, education and health services, leisure and hospitality, other services, and government industries and other I-O special industries.

The Input-Output Valuation of Transactions

Transactions in commodities are valued at producers' prices in the input-output (I-O) accounts. Producers' prices exclude wholesale and retail trade margins and transportation costs, but they include excise and sales taxes collected and remitted 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.

In order 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. The flows of commodities for resale to and from wholesale trade and retail trade are not shown. If trade were shown as buying and reselling commodities, industrial and final users would make most of their purchases from a single source—trade.

Wholesale and retail trade margins on commodities are shown as purchases by users and are included in the trade rows of use table 2 (rows 4200 and 4A00). Transportation costs are the freight charges paid to move the commodity from the producer to the intermediate user or the final user. All transportation costs are shown as a purchase by users and are included in the transportation rows of use table 2 (rows 4810 through 4840 and row 4860).

The **wholesale trade** sector comprises establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. (Wholesalers sell merchandise to other businesses and normally operate from a warehouse or office.) The sector consists of two main types of wholesalers: Those that sell goods on their own account, and those that arrange sales and purchases for others for a commission or fee. Wholesale trade output consists of trade margin output and nonmargin output; both exclude the cost of goods purchased for resale. Both the margin and nonmargin outputs are included in the wholesale trade row of use table 2 (row 4200).

The trade margin output occurs when an establishment buys and resells the good. It is included in the purchasers' prices of the goods that are purchased but not in the producers' prices of those goods, and it is measured in two parts. For merchant wholesalers and for agents and brokers selling goods on their own account, the trade margin is calculated as wholesale sales less the cost of goods sold plus taxes collected by the distributor. For manufacturers' sales branches (wholesale trade establishments that primarily market goods manufactured by the same firm), it is calculated as expenses (excluding the cost of the goods) plus taxes collected by the sales branches.

Nonmargin output occurs when a wholesale trade service is purchased separately from the commodity, such as when a wholesaler acts as a broker between buyer and seller. Nonmargin output is assumed to be purchased by the producer of the goods being sold and is thus reflected in the producers' prices of the goods. It is measured as the sum of expenses (excluding the cost of the goods) on goods sold by manufacturers' sales offices, the commissions on goods sold by agents and brokers and by merchant wholesalers acting as commission merchants, the taxes

collected, and the customs duties, which are considered as taxes collected by wholesale trade establishments.

Retail trade has one primary product—distributive services for the sale of goods. Its output consists primarily of retail trade margins, which are measured as retail sales less the cost of goods sold plus the taxes collected by retail trade establishments. All retail trade margin and nonmargin output are included in the retail trade row of use table 2 (row 4A00).

Retail trade margins apply primarily to purchases by persons, but they are also applied to purchases by business and government, such as some purchases of personal computers by business. Retail trade margins are also applied to some intermediate purchases by business, such as office supplies, gasoline, and construction materials.

Imports of goods and services, a component of final uses, are measured by individual commodity at domestic port values. The domestic port value of an imported commodity, which includes customs duties, is considered equivalent to the producers' price of a domestically produced commodity. The imports of transportation and wholesale trade include adjustments to convert the sum of all commodity imports of goods to foreign port value.

Imports of services are valued at producers' prices. No margins or transportation costs are associated with services.

All imports except for "noncomparable imports" are assumed either to be consumed within the U.S. boundaries or to have domestic equivalents. Noncomparable imports consists of goods purchased by U.S. residents abroad and of services imports that have no domestic counterparts.¹ These services include travel by U.S. residents abroad—both foreign travel by U.S. residents, which is included in final demand as a part of personal consumption expenditures, and foreign travel by U.S. business people, which is included as intermediate purchases. Noncomparable imports are distributed directly to industries and final users and are shown separately in use table 2 (row S003).

Exports of goods and services, a component of final uses, are measured by commodity at producers' prices—the same as other domestically produced commodities. Transportation costs and trade margins, which are required to move exports from the producer to the port of exit, are included in the transportation and trade rows of use table 2 (rows 4200, 4810 through 4840, and 4860).

Change in private inventories, a component of final uses, is measured by commodity at the LIFO-reserve-adjusted book value that is reported by industries in the economic census. The inventory valuation adjustment, which removes inventory profits or losses from total gross domestic product in the I-O accounts, is shown as a single entry in use table 2 (row S007, column F030).

1. Most imported goods now have domestic counterparts. Before the 1992 benchmark I-O accounts, noncomparable imports also included domestically consumed imported goods, such as bananas and coffee, that had no significant domestic counterparts.

Changes to intermediate purchases and to value added. The new treatment of auxiliaries raises total intermediate purchases and affects the industry distribution of value added. In the SIC-based classification, the services of auxiliaries are shown as intermediate purchases of goods and services, and the value added of the industries that used auxiliary services was higher than the NAICS treatment because it included compensation paid to the auxiliary's employees, indirect business tax and nontax liabilities paid by the auxiliary, and depreciation of the auxiliary's fixed capital. In the NAICS-based classification, the value-added components of an auxiliary are shown as the value added in the industries where they are classified.

As a result of the new classification, total intermediate purchases were \$6,517 billion, or about 5 percent higher than in the SIC. The \$340 billion increase represents the amount of industry purchases of the new auxiliary services (table A). Total value added in the economy remained the same, but value added across industries changed.

In the goods-producing sectors, value added decreased because the value-added components of auxiliary services were moved, and intermediate purchases increased (chart 1). The largest impact was on manufacturing compensation, which dropped more than \$100 billion. In the services-providing sectors, as a result of the new auxiliary treatment, especially the addition of the industry "management of companies and enterprises," both value added and intermediate purchases were raised. The higher value added in the services-providing sectors was equal to the amount of auxiliary compensation, indirect business tax and nontax liabilities, and depreciation that was moved from the goods-producing industries.

Changes to gross output. As a result of treating auxiliaries as output-producing establishments in the 1997 benchmark I-O accounts, total gross output was \$14,863 billion, or 2.3 percent higher than in the SIC (table A).¹⁰ The \$340 billion increase, the same as the increase in total intermediate purchases, was almost entirely accounted for by three auxiliaries:

- Corporate, subsidiary, and regional managing offices,
- Auxiliary scientific research and development, and
- Auxiliary warehousing and storage.

Other NAICS changes

The 1997 benchmark I-O estimates include several additional classification changes as a result of incorporating NAICS. Establishments are now grouped according to the similarities of their production

10. In the 1992 benchmark I-O accounts, output of auxiliaries was included for export services and Federally funded research and development.

processes rather than the similarities of their products. The largest of these additional changes were the following:

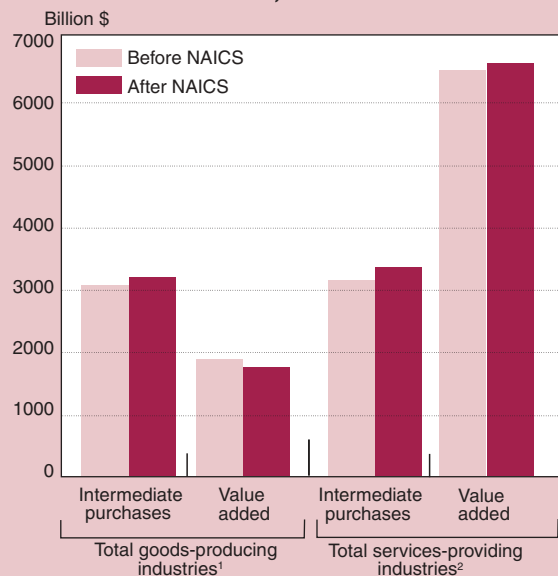
- The new "information" sector was created by combining industries from manufacturing, services, and transportation, communication, and utilities.
- Transportation, communication, and utilities was split into three sectors.
- The new "real estate and rental and leasing" sector was broken out of "finance, insurance, and real estate" and services.
- Services are shown with a breakdown according to their production processes, including "professional, scientific, and technical services," "administrative and waste management services," "educational services," "health care and social assistance," "arts, entertainment, and recreation," and "accommodation and food services."

For a description of these changes that resulted from NAICS and their effects, see table B.

Text continues on page 26.

CHART 1

Effects of Treating Auxiliaries as Establishments, 1997



1. All goods-producing sectors, including manufacturing, construction, natural resources, and mining.
2. All services-providing sectors, including services, trade, utilities, information, and transportation and warehousing.

The Input-Output Classification Systems

The input-output (I-O) accounts use two classification systems, both of which generally use the same I-O codes and titles (see appendixes A and B). 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.

The I-O industry classification system. The I-O system is based on the official U.S. classification system, which for 1997 is the North American Industry Classification System (NAICS). NAICS classifies establishments into industries on the basis of the similarities of their production processes. In the previously used Standard Industrial Classification system, establishments are classified into industries on the basis of the similarities of their products.

The I-O industry classification system for 1997 generally applies to both the standard make and use tables and the supplementary make and use tables and requirements tables. For the supplementary make and use tables and requirements tables, industries are modified by redefining or moving some secondary products and their inputs from the industries in which they are produced to those in which they are primary (see the box "Treatment of Secondary Products" on page 27).

However, the I-O industry classification system includes "special industries" (industries or commodities) and "government industries" that are not considered industries in NAICS. Furthermore, because of data limitations, the I-O industry system includes three industries—agriculture, construction, and real estate—that are defined on an activity basis rather than on an establishment basis.

"Special industries" consists of noncomparable imports; scrap, used and secondhand goods; a rest-of-the-world adjustment to final uses; and an inventory valuation adjustment. I-O special industries are incorporated to maintain consistency with economic concepts underlying the national income and product accounts (NIPA's).

"Government industries" include government enterprises (Federal and State and local) and general government, which generally corresponds to the NAICS classification for Public Administration (NAICS Sector 92).

"Activity-based" industries are used for agriculture, construction, and real estate. Agriculture industries are classified by commodity, such as grain farming products, because the quality of the source data on the production of agriculture commodities is believed to be better than that of the data available by type of establishment or farm.

Construction is classified by type of activity, such as the construction of new highways and streets, rather than by the type of construction contractor, such as heavy construction

contractors who pave asphalt roads. Construction is classified by type of activity because the estimates rely heavily on the value-put-in-place statistics.

The real estate industry consists of all real estate rental receipts and all imputed rents for owner-occupied housing and for buildings and equipment owned and used by nonprofit institutions primarily serving households. Rental receipts are included in one industry because of the lack of data on rents received by individual industries. Imputed rents are included so the I-O accounts will be consistent with the NIPA's.

"Redefinitions" apply only to the industries in the supplementary make and use tables and requirements tables. As a result of these redefinitions, outputs and inputs related to the secondary activities of some industries are shifted to the industries in which they are primary activities. Only the secondary activities of industries for which the related inputs differ significantly from those required for the primary activities are redefined. For example, both the output and related inputs of full-service restaurants in hotels and motels have been moved from the "hotels and motels" industry (in which "lodging services" is the primary activity) to the "food services and drinking places" industry (in which "eating and drinking" is the primary activity) because the input structure of "food and beverages" differs significantly from that of "lodging services." As a result of this shift, the total outputs for the "food services and drinking places" industry and the "hotels and motels" industry in the supplementary make and use tables differ from those in the standard tables (appendix F). (However, total outputs for the I-O *commodities* are the same in the two sets of tables.)

The I-O commodity classification system. In this system, each commodity is assigned the code of the industry in which the commodity is the primary product. This code is then used to group the 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 a few cases, the I-O system reclassifies NAICS-defined commodity groups, and a secondary product is created from a NAICS-defined primary product. The output of the NAICS-defined product is moved (reclassified) to the I-O-defined primary product group; therefore, the output represents the total output of the product, regardless of the classification of the establishments that produce it.

In NAICS, for example, the primary product of the newspaper publishers industry is defined as newspaper sales and newspaper advertising. In the I-O commodity system, the primary product of the newspaper publishers industry is newspaper sales. The advertising component is considered to be a secondary activity, so advertising receipts (output) are moved to the advertising commodity group. The total output for the I-O newspaper publishers *industry* remains unchanged, but the output of the newspaper *commodity* is reduced, and the output of the advertising *commodity* is increased.

Table B. NAICS and NAICS-Based I-O Classification System

NAICS sector	NAICS-based I-O sector	Description of the industry	Major differences in classification or treatment between the NAICS-based I-O sectors and the SIC-based I-O divisions	Output transfer value (Billions of dollars)
Agriculture, forestry, fishing and hunting (NAICS 11)	Agriculture, forestry, fishing and hunting ¹	Establishments engaged in growing crops, raising animals, and harvesting timber, fish and animals from farms, ranches, and natural habitats.	Logging moved from Manufacturing.	\$20 from Manufacturing
Mining (NAICS 21)	Mining	Establishments that extract naturally occurring mineral solids, liquid minerals, and gases.	None.	None
Utilities (NAICS 22)	Utilities	Establishments engaged in the provision of electric power, natural gas, steam supply, water supply, and sewage removal.	Utilities moved from Transportation, communications, and utilities (TCU).	\$288 from TCU
Construction (NAICS 23)	Construction ¹	Establishments engaged in the construction of buildings and other structures, heavy construction except buildings, additions, alterations, reconstruction, installation, and maintenance and repairs.	None.	None
Manufacturing (NAICS 31–33)	Manufacturing	Establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products.	Parts of retail bakeries, custom drapery and tailors moved from Retail trade. Parts of broadwoven fabric finishing mills moved from Wholesale trade. Tire retreading and dental labs moved from Services. Logging moved to Agriculture, and Publishing moved to Information.	\$3 from Retail trade, \$2 from Wholesale trade, \$4 from Services, \$20 to Agriculture, \$118 to Information
Wholesale trade (NAICS 42)	Wholesale trade	Establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise.	Selected establishments with retail trade characteristics, such as auto parts, farm supplies, and lumber yards moved to Retail trade. Parts of broadwoven fabric finishing Mills moved to Manufacturing.	Approximately \$70 to Retail trade, \$2 to Manufacturing
Retail trade (NAICS 44–45)	Retail trade	Establishments engaged in retailing merchandise, generally without transformation, and rendering services incidental to the sale of merchandise.	Selected establishments with retail trade characteristics moved from Wholesale trade. Parts of retail bakeries, custom drapery and tailors moved to Manufacturing.	Approximately \$70 from Wholesale trade, \$3 to Manufacturing
Transportation and warehousing (NAICS 48–49)	Transportation and warehousing, excluding postal service	Establishments providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to transportation.	New sector. Transportation and warehousing moved from Transportation, communications, and utilities (TCU).	\$520 from TCU
Information (NAICS 51)	Information	Establishments engaged in producing and distributing information and cultural products, providing the means to transmit or distribute these products and data, or communications services.	New sector. Includes publishing, communications, and various information-related industries (data processing, software publishing, and online information, etc.) moved from Manufacturing, TCU, and Services.	\$118 from Manufacturing, \$377 from TCU, \$173 from Services
Finance and insurance (NAICS 52)	Finance and insurance	Establishments engaged in financial transactions and in facilitating such transactions.	Holding companies moved to Management of companies and enterprises.	\$1,306 to Real Estate, \$10 to Management of companies and enterprises
Real estate and rental and leasing (NAICS 53)	Real estate and rental and leasing ¹	Establishments engaged in renting, leasing, or allowing the use of tangible or intangible assets, and related services.	Real estate moved from Finance, insurance, and real estate; Rental of equipment moved from Services.	\$1,306 from Finance, \$81 from Services
Professional, scientific, and technical services (NAICS 54)	Professional and technical services	Establishments engaged in professional, scientific, and technical activities for others.	New sector.	\$743
Management of companies and enterprises (NAICS 55)	Management of companies and enterprises	Auxiliaries that perform management services or act as holding companies for other establishments of the same company; other auxiliaries classified with industries performing similar activities rather than with industry served.	New sector. Holding companies and other management auxiliaries moved from the various industries they serve.	\$320 Total, \$10 from Finance
Administrative and support and waste management and remediation services (NAICS 56)	Administrative and waste services	Establishments engaged in support activities for daily operations of other organizations.	New sector. Waste management moved from TCU.	\$348 Total, \$42 from TCU
Educational services (NAICS 61)	Educational services	Establishments that provide instruction and training.	New sector.	\$112
Health care and social assistance (NAICS 62)	Health care and social assistance	Establishments that provide health care and social assistance for individuals.	New sector.	\$816
Arts, entertainment, and recreation (NAICS 71)	Arts, entertainment, and recreation	Establishments that operate facilities or provide services to meet varied cultural, entertainment, and recreational interests.	New sector.	\$127
Accommodation and food services (NAICS 72)	Accommodation and food services	Establishments that provide lodging and/or meals, snacks, and beverages for immediate consumption.	New sector.	\$413
Other services (except public administration) (NAICS 81)	Other services, except public administration	Establishments that provide services not specifically provided for elsewhere in the classification system.	New sector. Household industry moved from Special industries.	\$348 Total, \$12 from Special industries
Public administration (NAICS 92)	Government industries ²	Establishments of federal, state, and local government agencies that administer, oversee, and manage public programs.	None.	None
.....	Special industries ³	Special industries include noncomparable imports, scrap and used goods, rest of the world, and inventory valuation adjustment.	Household industry moved to Other services.	\$12 to Other services

1. The use of data that are classified by activity rather than by industry to derive estimates for the agriculture and construction industries, and the inclusion of all real estate rental receipts in the real estate industry regardless of the industry that receives them, reflect inconsistencies with the production-based orientation of NAICS.

2. The general government industry is defined by BEA as consisting solely of compensation, consumption of fixed

capital, own-account software, and own-account construction.

3. I-O special industries are incorporated to maintain consistency with economic concepts underlying the national income and product accounts.

Other Improvements to the 1997 Benchmark I-O Accounts

Additional changes in classification, methodology, and presentation were introduced in the 1997 benchmark I-O accounts. These changes, many of which are related to investment activities, include the following.

- **Featured I-O tables now have industry definitions that are more consistent with the GDP-by-industry accounts.** This change is part of BEA's effort to further integrate its economic accounts. In the GDP-by-industry accounts, new construction by industries of their own facilities is included in industry output but maintenance and repair construction by industries on their own facilities is not. In the featured I-O tables, these expenditures are treated the same way.
- **Improved treatment of software.** In the 1999 NIPA comprehensive revision, BEA introduced the treatment of software as investment; previously, expenditures on software were treated as intermediate purchases. In the 1997 benchmark I-O accounts, software is treated consistently as investment, and additional improvements are introduced, including the capitalization of software originals used for reproduction, the use of more detailed occupational data in estimating own-account software produced by industries, and a more direct calculation of the total costs of producing own-account software.
- **Interactive software tool.** A new tool is now available on BEA's Web site that enables users to interactively select and format data from the 1997 benchmark I-O accounts.
- **Other major improvements.** New definitions of output have been introduced for computer systems integrators as part of the industry "computer systems design services" and for the industry "natural gas distribution." The presentation of the requirements tables has been expanded to include an industry-by-industry total requirements table for estimating the linkages between industries from changes in final uses.

Changes related to investment

Own-account new construction. Own-account new construction, or "force-account" construction, refers to construction activities performed by businesses, government, or persons for themselves rather than purchased from construction businesses. In the 1997 benchmark I-O accounts, it is treated as being produced by the industries in which the own-account new construction occurs and then "purchased" in final uses.

In the 1997 standard make and use tables, own-account new construction, including output and all in-

puts, is now shown as a secondary product of the industry in which the activity occurs. Previously, own-account construction was reassigned to the new-construction industry and included as part of its primary production. For home-owners, own-account new construction is now shown in the owner-occupied dwellings industry. For government, it is now shown in the general government industry.

The change in treatment does not affect total gross output and total final uses. It facilitates comparisons of the data in the standard make and use tables with other industry data, such as industry series from the GDP-by-industry accounts.

In the supplementary make and use tables, the activities of own-account new construction are still shown as part of the new-construction industry, as they were in the 1992 benchmark I-O accounts. See the box "Treatment of Secondary Products."

Own-account maintenance and repair construction. In the standard and the supplementary make and use tables, own-account maintenance and repair construction is no longer treated as output. This change reduces total gross output, but it does not affect total final uses and total value added, the alternative measures of total economic activity. This change is intended to facilitate comparisons of data from the I-O accounts with other statistical data on industries. Previously, own-account maintenance and repair activities were treated as secondary products of the originating industries and included in the maintenance and repair construction industry.

Software. The capitalization of software has been introduced into the 1997 benchmark I-O accounts. Three types of software—prepackaged software, custom software, and own-account software—are now treated as investment. For previous benchmark I-O accounts estimates, only software that was bundled with, or embedded in, equipment by the producer of that equipment was included in investment.

BEA introduced the capitalization of software into the national income and product accounts during the 1999 comprehensive revision of those accounts.¹¹ In this benchmark, BEA has also made several measurement improvements discussed below.

Own-account software is now treated similarly to own-account new construction. It is shown as a secondary product of the originating industry in the standard make and use tables, and it is shown as part of the primary production of the software industry in the

11. For more information, see Robert P. Parker and Bruce T. Grimm, "Recognition of Business and Government Expenditures for Software as Investment: Methodology and Quantitative Impacts, 1959-98" (paper presented to BEA's Advisory Committee, Washington DC, May 5, 2000) at <www.bea.gov/bea/papers/software.pdf>.

Treatment of Secondary Products

For the purposes of data collection, an establishment or a business unit is assigned to an “industry” according to its output and production process. However, most establishments produce more than one product, so the establishment is categorized by its primary source of revenue or its *primary product*. The other products that the establishment produces are identified as *secondary products*. For example, a hotel may also provide restaurant services, but these services are not part of the hotel industry’s primary product of lodging, so they are treated as a secondary product of the hotel industry.

In BEA’s “standard” make and use tables, all of the products—primary and secondary—that are produced by an industry are assigned to that industry. As a result, the data in these tables are consistent with the industry-based data that are collected and reported by other statistical agencies.

In the “supplementary” make and use tables, some of the secondary products are reassigned to the industries in which these products are primary products. The data in these tables and in the total requirements tables that are derived from them are valuable for performing economic structural analysis, impact analysis, and other types of economic modeling.

In traditional I-O analysis, industries are required to have homogeneous production processes: Each industry produces only one commodity, and each commodity is produced by only one industry. Thus, secondary products present a special problem because they represent heterogeneity in an industry’s output. In order to transform the make and use tables into the required format, assumptions about the technology of producing secondary products are needed. The two most commonly used technology assumptions are the industry-technology assumption and the commodity-technology assumption.

BEA developed a two-step process to reassign the secondary products from the industry in which they were produced to the industries in which these products are primary products.¹ The first step is referred to as the “redefinition process.” In this step, it is assumed (1) that the input structure of a secondary product differs from the input structure of the primary product of the industry in which the secondary product was produced and (2)

that its input structure is similar to that of the primary product of the industry to which it is reassigned.²

As a result of the redefinition process, the total value of secondary products is decreased, and the total value of primary products is increased by the same amount. The following table summarizes the effects of this redefinition process on the detailed 1997 benchmark I-O make and use tables.

[Billions of dollars]

	Total output	Primary product output	Secondary product output
Standard make and use table.....	14,863	13,718	1,145
Supplementary make and use table.....	14,863	14,183	680
Difference	0	465	-465

The amount of the redefined secondary output was \$465 billion, or 3.1 percent of total output and more than two-fifths of total secondary output. For most industries, the output shown in the standard make and use tables will differ from that shown in the supplementary make and use tables. The following industries were affected the most by these redefinitions: \$62 billion of auto repair was moved, mainly from retail trade, to “automotive repair and maintenance, except car washes”; \$48 billion of food services was moved, mainly from hotels, retail trade, and service industries, to “food services and drinking places”; \$46 billion of retail margin, primarily from service industries to “retail trade”; and \$46 billion of own account software, from most industries to “custom computer programming services.”

In the second step, the remaining secondary products are reassigned so that each industry produces only its primary product. In this step, it is assumed that the input structure of each secondary product is similar to that of the primary product that the industry produces.³ This step is performed by the mathematical equations that are used to derive the three total requirements tables.⁴ This reassignment also affects a wide range of industries, including State and local government enterprises, manufacturing, “newspaper, book, and directory publishers,” “radio and television broadcasting,” and finance.

2. This step is based on the commodity-technology assumption, which assumes that each commodity has an input structure that is independent of the industry that produced it.

3. This step is based on the industry-technology assumption, which assumes that the input structure of all the commodities produced by an industry are the same.

4. For information about deriving the total requirements tables and traditional I-O tables, see *Handbook of Input-Output Table, Compilation and Analysis* (New York: United Nations, 1999).

1. See Jiemin Guo, Ann M. Lawson, and Mark A. Planting, “From Make-Use to Symmetric I-O Tables; An Assessment of Alternative Technology Assumptions” (paper presented at the 14th International Conference on Input-Output Techniques, Montreal, Canada, October 10–15, 2002, sponsored by the International Input-Output Association) for the detailed procedures and technology assumptions used for secondary products in the preparation of benchmark I-O tables.

supplementary make and use tables. The measurement of own-account software in the 1997 benchmark I-O accounts has been improved by (1) the capitalization of software originals used for reproduction; (2) the use of more detailed occupational data in estimating own-account software produced by industries; and (3) the introduction of a more direct calculation of the total costs of producing own-account software.¹²

Purchased software estimates have been changed to include improved estimates of intermediate consumption of software and an expanded definition of exports and imports of software. New sources, including information from annual reports filed by software producers with the Securities and Exchange Commission, and professional judgment were used to supplement economic census data on purchased software embedded in, or bundled with, other equipment.

The definition of exports and imports of software was expanded to more accurately reflect international trade in software. Estimates for exports and imports of royalties and license fees for the rights to distribute, use, and reproduce computer software and of "other" private services for computer and information processing services are now reflected in the capitalized software estimates.

Computer systems integrators. Computer systems integrators plan and design computer systems that integrate computer hardware, software, and communication technologies for their customers. In the 1997 benchmark I-O accounts, this industry is treated as providing design, installation, and other services, and the value of all computer hardware and purchased software is now excluded from the gross output of the industry. The hardware and software installed by the computer systems integrators are now shown as being sold directly by the "computer and peripheral equipment manufacturing" and the "software publishing" industries to business and government as investment. Most of the output of systems integrators is also capitalized for the first time, and the remainder goes to other businesses as intermediate purchases.

In the 1992 benchmark accounts, the values of computer hardware and software in integrated systems were recorded as intermediate purchases and included as part of the gross output of systems integrators. Only the portion of their sales representing computer hardware were capitalized as investment.

Private equipment and software categories. BEA has implemented three major changes to the categories

of private equipment and software. First, the category for instruments has been divided into a category "medical equipment and instruments" and a category "nonmedical instruments." Second, the category for trucks, buses, and truck trailers has been divided into "light trucks" and "other trucks, buses, and truck trailers." Third, the category for tractors has been dropped, and its components have been distributed to "agricultural machinery," "construction machinery," and "other nonresidential equipment."

Change in definition for natural gas distribution

A new measure of gross output for natural gas distribution is introduced. In the 1992 benchmark accounts, output for natural gas distribution implicitly included resales in industry's sales. An analysis of the industry indicated that much of the growth in output for the industry that was reported in the 1997 Economic Census was due to resales of natural gas within the industry. In the 1997 benchmark accounts, the gross output measure of natural gas distribution is net of an estimated value for these resales.

Changes in presentation

Three changes in presentation are introduced. First, the software tool available on BEA's Web site will allow users to interactively select and format data that they want to retrieve from the 1997 benchmark I-O accounts. Second, the standard make and use tables are now the featured I-O tables. Third, a new industry-by-industry total requirements table is added to the commodity-by-commodity total requirements table and the industry-by-commodity total requirements table that have been provided in the past. (See also the box "Data Availability" on page 38.)

Web-based tool for customizing tables. In response to requests from users, BEA's Web site now features an interactive software tool that enables users to interactively select and customize data from the I-O accounts. Using this software, users can easily select, preview, and download subsets of data at the detailed, summary, or sector levels and valued in producers' prices or purchasers' prices.¹³ Additional features include a search engine for finding a specified industry or commodity and a tool that can be used to transpose columns and rows of data.

12. See Bruce T. Grimm, Brent R. Moulton, and David B. Wasshausen, "Information Processing Equipment and Software in the National Accounts" (paper presented at the National Bureau of Economic Research, Conference on Research in Income and Wealth, Measuring Capital in the New Economy, Washington DC, April 26–27, 2002).

13. The producer's price is the amount receivable by the producer from the purchaser of a good or service produced as output. It includes sales and excise taxes collected and remitted by the producer, but it excludes wholesale and retail trade margins and transportation charges. The purchaser's price is the sum of the producer's price, transportation costs, and trade margins. The concepts of producer's price and purchaser's price used in the 1997 benchmark I-O accounts are similar to those used in the 1993 *System of National Accounts*.

Presentation of standard make and use tables. The standard make and use tables conform closely to the official classification system used by the statistical agencies that collect and report data. For the 1997 benchmark accounts, these tables are on a NAICS basis; for the 1992 benchmark accounts, they were on a SIC basis. The availability of these tables on a NAICS basis makes it easier for users to compare data from the I-O accounts with other industry-based data series, and it is an important step in moving towards greater consistency between the I-O accounts and the GDP-by-industry and gross state product accounts.

Industry-by-industry total requirements table. For the 1997 benchmark, BEA has prepared an industry-by-industry total requirements table in addition to its other total requirements tables. The new table can be used to analyze the linkages between industries that result from changes in final demand.

Compilation of the 1997 Benchmark I-O Accounts

An important feature of the accounting framework of the U.S. benchmark I-O tables, and of its underlying NAICS-based classification system, is its compatibility with basic accounting records. However, the source data reported by businesses and by other transactors in the economy must be transformed into a consistent, comprehensive set of I-O tables. In addition, because the available accounting records do not provide sufficient information for some parts of the accounts, BEA has to identify other data sources and estimating methods for the estimates.

BEA prepared the 1997 benchmark I-O accounts in seven steps:

(1) Developed a consistent classification framework that could be used for presenting the tables on a NAICS basis and for linking backwards with the aid of concordances to the source data that are still on an SIC basis or that use other classification systems,

(2) Estimated the output for each industry and commodity, which formed the basis for the I-O make table,

(3) Estimated the intermediate and value-added inputs required by each industry to produce its output,

(4) Estimated the domestic supply of each commodity—that is, the total value of goods and services available for consumption as intermediate inputs by industries or as final uses,

(5) Estimated the components of final uses for which more direct information was unavailable, using the commodity-flow method,

(6) Estimated wholesale and retail trade margins, transportation costs, and excise and sales taxes in order to convert all transactions by final and intermediate

users from the prices received by producers to the prices paid by purchasers,

(7) Balanced the tables by resolving the larger discrepancies in the I-O use table with further analysis and judgmental changes and then allocating the smaller discrepancies; any final residual was allocated to the “other value added” component of value added.

Development of a classification framework. The 1997 benchmark I-O tables are based on NAICS, but some of the source data used in their preparation were not available on that basis. Because the statistical agencies and other providers of the source data are converting from the SIC system to NAICS over several years, data from several sources had to be mapped from an SIC basis to a NAICS basis. In addition, commodities—whether produced by domestic industries or imported from other countries, whether transported by truck, rail, air, or water, and whether used as inputs by industries or as final uses—had to be classified consistently. Moreover, the classification system used for certain sets of data, such as the Harmonized System for foreign trade and the codes from the economic census for materials consumed by manufacturing and mining industries, typically reflect that system’s history and original purpose. Because of the massive changes in classification that were made in this benchmark, considerable effort was required to prepare concordances or mappings for the conversion of all of the data to a common basis. In addition, whenever possible, concordances between the codes used for the 1992 benchmark accounts and the new codes used for the 1997 benchmark accounts were prepared. These concordances document the changes and provide a limited guide for comparing the 1997 benchmark tables with the tables of previous benchmarks.

Estimation of industry and commodity outputs. First, BEA estimated output and then prepared the I-O make table, which shows the commodities produced by each industry and all the industries producing each commodity. The outputs of most commodities and industries were based on receipts and shipments data collected in the 1997 Economic Census by the Census Bureau or in the case of agriculture, by the U.S. Department of Agriculture. Table C provides a list of the sectors covered by the economic census and the other principal data sources used by BEA to estimate the outputs for commodities and industries.

The economic census covers most establishments, but it does not directly cover businesses without employees, such as real estate agents and independent “mom and pop” operations that are generally small. BEA prepared the estimates for these businesses using nonemployer data from the Census Bureau; these data are based on administrative records of the Internal

Text continues on page 32.

Table C. Principal Data Sources for Industry or Commodity Outputs, 1997 Benchmark I-O Accounts

Industry or commodity	Source
Natural resources and mining.....	U. S. Department of Agriculture, Forest Service and Economic Research Service National Oceanic and Atmospheric Administration, National Marine Fisheries Service, <i>Fisheries of the United States</i> Census Bureau, Statistics of United States Businesses Census Bureau, 1997 Economic Census, NAICS Sector 21, Mining U.S. Geological Survey, <i>Minerals Yearbook</i> and <i>Mineral Commodity Summaries</i>
Construction.....	Census Bureau, 1997 Economic Census, NAICS Sector 23, Construction Census Bureau, Value of Construction Put In Place Statistics
Manufacturing.....	Census Bureau, 1997 Economic Census, NAICS Sector 31–33, Manufacturing Census Bureau, 1998 Current Industrial Reports
Trade.....	Census Bureau, 1997 Economic Census, NAICS Sector 42, Wholesale Trade Census Bureau, 1997 Economic Census, NAICS Sector 44–45, Retail Trade Census Bureau, 1997 Annual Retail Trade Survey Census Bureau, 1997 Annual Trade Survey
Transportation and utilities	Census Bureau, 1997 Economic Census, NAICS Sector 48–49, Transportation and Warehousing U.S. Department of Transportation, <i>Air Carrier Financial Statistics Quarterly</i> U.S. Department of Transportation, Surface Transportation Board Association of American Railroads, <i>1998 Railroad Facts</i> Census Bureau, 1997 Economic Census, NAICS Sector 22, Utilities U.S. Department of Energy, Energy Information Administration
Information.....	Census Bureau, 1997 Economic Census, NAICS Sector 51, Information Census Bureau, 1997 Service Annual Survey
Financial activities	Census Bureau, 1997 Economic Census, NAICS Sector 52, Finance and Insurance Census Bureau, 1997 Economic Census, NAICS Sector 53, Real Estate and Rental and Leasing Federal Deposit Insurance Corporation, <i>1997 Statistics on Banking</i> Federal Reserve Board, <i>1997 Annual Report</i> National Credit Union Administration, <i>1997 Yearend Statistics for Federally Insured Credit Unions</i> Internal Revenue Service, <i>Statistics of Income, Corporation Source Book, 1997</i> New York Stock Exchange, <i>1998 Annual Report</i> Securities and Exchange Commission, <i>1997 FOCUS Report</i> and <i>1997 Annual Report</i> Health Care Financing Administration 1997 Private Health Insurance Data A. M. Best and Company, <i>Best's 1997 Aggregate and Averages Property/Casualty Insurance</i> Mortgage Insurance Companies of America, <i>2001–2002 Factbook</i> U.S. Department of Labor, Pension Welfare Benefits Administration, <i>1997 Income Statement of Pension Plans with 100 or More Participants</i> American Council of Life Insurers, <i>1997 Life Insurance Fact Book</i> Bureau of Economic Analysis, National Income and Product Accounts
Professional and business services	Census Bureau, 1997 Economic Census, NAICS Sector 54, Professional, Scientific, and Technical Services Census Bureau, 1997 Economic Census, NAICS Sector 55, Management of Companies and Enterprises Census Bureau, 1997 Economic Census, NAICS Sector 56, Administrative and Support Services and Waste Management and Remediation Services Census Bureau, 1997 Service Annual Survey
Education and health services.....	U.S. Department of Education, National Center for Education Statistics, <i>2000 Digest of Education Statistics</i> Census Bureau, 1997 Economic Census, NAICS Sector 61, Educational Services Census Bureau, 1997 Economic Census, NAICS Sector 62, Health Care and Social Assistance Census Bureau, 1997 Service Annual Survey
Leisure and hospitality	Census Bureau, 1997 Economic Census, NAICS Sector 71, Arts, Entertainment, and Recreation Census Bureau, 1997 Economic Census, NAICS Sector 72, Accommodation and Food Services Census Bureau, 1997 Service Annual Survey
Other services	Census Bureau, 1997 Economic Census, NAICS Sector 81, Other Services (except Public Administration) Bureau of Economic Analysis, National Income and Product Accounts Census Bureau, 1997 Service Annual Survey
Government industries	Census Bureau, 1997 Census of Governments Census Bureau, 1997–98 Government Finances Census Bureau, 1996–98 Public Employment Census Bureau, 1997 Monthly Construction Statistics Federal Budget Data and Federal Government Agency Reports Center for Medicare and Medicaid Services Bureau of Economic Analysis, National Income and Product Accounts
Noncomparable imports.....	Bureau of Economic Analysis, Balance of Payments Accounts
Scrap.....	Census Bureau, 1997 Economic Census, NAICS Sector 31–33, Manufacturing
Inventory valuation adjustment ...	Bureau of Economic Analysis, National Income and Product Accounts Census Bureau, 1997 Economic Census

Table D. Principal Data Sources and Methods for Estimating Intermediate Inputs and Value Added, 1997 Benchmark I-O Accounts

Input component	Source data and methods used
Intermediate inputs.....	<p>Natural Resources Inputs to the agriculture, forestry, fishing and hunting industries were estimated from U.S. Department of Agriculture data or 1997 Economic Census data or by extrapolating the 1992 benchmark I-O estimates by the change in industry output from 1992 to 1997. These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p> <p>Mining Inputs to the mining industries were estimated primarily from 1997 Economic Census data on selected materials and supplies, fuels consumed, electricity usage, and communication services purchased. The remaining inputs were estimated by extrapolating the 1992 benchmark I-O estimates by the change in industry output from 1992 to 1997. These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p> <p>Construction Inputs to the construction industries were estimated primarily from 1997 Economic Census data. These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p> <p>Manufacturing Inputs to the manufacturing industries were estimated primarily from 1997 Economic Census data on materials and supplies, fuels consumed, electricity usage, and communication services purchased. In addition, some of the purchased services were estimated from the census surveys conducted in conjunction with the 1997 Economic Census for manufacturing. The remaining inputs were estimated by extrapolating the 1992 benchmark I-O estimates by the change in industry output from 1992 to 1997. These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p> <p>Services, trade, transportation and warehousing, and utilities For census-covered industries, information from the 1997 Business Expenditures Survey (BES) on operating expenses was used, including accounting services; advertising services; contract labor costs; data processing and other computer-related services; depreciation; lease and rental payments; legal services; office supplies; repair and maintenance expenses; tax and license fees; and cost of utilities.¹ These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p> <p>For noncensus-covered industries, inputs were estimated either from trade associations data or by extrapolating the 1992 benchmark I-O estimates by the change in industry output from 1992 to 1997. These estimates were then adjusted during the process of balancing commodities to equal commodity output totals.</p>
Value added: Compensation of employees	<p>For census-covered industries, payroll data from the 1997 Economic Census were used; data were adjusted for misreporting and I-O industry definitions. Benefits data for manufacturing and mining were from the 1997 Economic Census. Benefits data for industries covered by the BES were based on the relationship between the BES benefits and payroll data applied to the 1997 Economic Census payroll data. For the remaining industries, benefits were estimated using indirect techniques.</p> <p>For noncensus-covered industries, tabulations of wages and salaries covered by State unemployment insurance and estimates of benefits from the national income and product accounts were used; data were adjusted for misreporting and I-O industry definitions.</p> <p>All estimates were adjusted to balance to total compensation in the national income and product accounts.</p>
Indirect business tax and nontax liability.....	<p>The estimates by industry were prepared in two parts: For excise and general sales taxes, the values were estimated as part of each industry's output; for other indirect business taxes, such as property taxes, and nontax liabilities, such as fees, estimates were distributed on the basis of a variety of source data, including State government tax collections statistics and the BES. For all other tax and nontax liability, estimates were distributed to industries using indirect techniques.</p> <p>All estimates were adjusted to balance to total indirect business tax and nontax liability in the national income and product accounts.</p>
Other value added.....	<p>For most industries, the residual method (total industry output less total intermediate inputs, compensation of employees, and indirect business tax and nontax liability) was used.</p>

1. These industries include information; professional, scientific and technical services; administrative and support services; vocational educational services; health care and social assistance; arts, entertainment, and recreation; accommodation and food services; other services; retail trade; and wholesale trade.

I-O Input-output

Revenue Service (IRS), primarily from sole proprietorship businesses filing IRS Form 1040, Schedule C. BEA adjusted the IRS data to account for late filers and non-filers and for filers who have misreported receipts.

The following industries are among those not covered by the economic census: Large certificated passenger air transportation and rail transportation in the sector “transportation and warehousing”; veterinary services in “professional and technical services”; landscaping services in “administrative and waste services”; private elementary and secondary schools and private colleges and universities in “educational services”; and religious organizations, labor unions, political organizations, and private households that employ workers for the operation of the household in “other services.” For these industries, BEA used data from other sources—such as the U.S. Department of Agriculture, U.S. Department of Transportation, U.S. Department of Treasury, Office of Management and Budget, other Government agencies, and private organizations—many of which are identified in table C.

The estimates of output for some industries and commodities are based on imputations. Examples include own-account software, the rental value of owner-occupied housing, and financial services provided without direct charges by financial institutions.

Estimation of industry intermediate and value-added inputs. As shown in table D, most of the detailed data available to estimate commodity inputs were also from the 1997 Economic Census. When only aggregate data for expenses were available, BEA combined that information (for example, purchases of fuel by manufacturing industries) with information on purchases of individual commodities (for example, purchases of petroleum products, natural gas, and coal in purchased fuels) to estimate the purchases of specific commodities by an industry (for example, purchases of natural gas by a manufacturing industry).

BEA also estimated intermediate inputs for which no direct information was available. For example, detailed economic census data are available for the materials and supplies used by manufacturing industries, but the data only covered part of their purchased services. The estimates of the remaining inputs were extrapolated from the 1992 benchmark estimates by the change in industry output from 1992 to 1997.

In the I-O accounts, value added consists of three components—compensation of employees, indirect business tax and nontax liability, and “other value added.” The first two components were estimated from a variety of data sources (the principal ones are shown in table D). Total compensation of employees from the NIPA’s was allocated to industries on the basis of economic census data. Total indirect business tax and

nontax liability from the NIPA’s was allocated to industries in two parts. For general sales and excise taxes, the values were incorporated as part of each industry’s output on the basis of information from census annual surveys for sales taxes and from the GDP-by-industry accounts for excise taxes; for other indirect business taxes, such as property taxes, estimates were allocated on the basis of a variety of source data, including State government tax collections and highway statistics. Depreciation, a part of “other value added,” was estimated for auxiliaries and government industries. (“Other value added” for other industries is derived as a residual by subtracting total intermediate inputs, compensation of employees, and indirect business tax and nontax liability from total industry output in the final step of balancing the table.)

Estimation of domestic supply. The domestic supply of each commodity is the total value of goods and services available for consumption as intermediate inputs by industries or as personal consumption expenditures (PCE), private fixed investment, and government consumption and gross investment expenditures. It was calculated as domestic commodity output plus government sales and imports less exports and change in private inventories. Government sales, such as sales of school lunches, were based on data from the NIPA’s. Exports and imports were based on foreign trade statistics from the Census Bureau and on data from BEA’s international transactions accounts. Because domestic supply is measured in producers’ prices, transportation costs and wholesale trade margins were subtracted from exports before the final calculation. BEA estimated the 1997 change in private inventories by commodity on the basis of economic census data and of information on corporate inventories by industry from the IRS.

Estimation of other final uses. The estimates of final uses of the Federal Government and of State and local government were based on the estimates of total consumption and investment expenditures by type of purchase from the NIPA’s. These estimates were then allocated to I-O commodities based on professional judgment and on information from the 1997 Census of Governments, Federal budget data, and government agency reports.

The estimates of many commodities in PCE and in private equipment and software were prepared using the commodity-flow method. In this method, government expenditures for, and intermediate purchases by businesses of, a commodity are subtracted from its domestic supply in order to obtain a residual that reflects purchases by persons for consumption or by businesses for investment. For example, using this method, purchases of cereal for PCE were estimated as a 100-

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percent residual.

The estimates of the other commodities used a variation of the commodity-flow method in which a percentage of domestic supply was allocated to PCE or to private equipment and software expenditures. Many of these percentages were based on class-of-customer data from the 1997 Economic Census or from information developed from alternative sources, such as trade associations, private businesses, and other government agencies. For example, using class-of-customer data from the economic census, purchases of tax return preparation services for PCE were estimated as 91 percent of domestic supply.

The estimates of residential and nonresidential structures in gross private fixed investment were generally based on information from the NIPA's and from the Census Bureau's data on value of construction put in place. Estimates of oil and gas well drilling and new access structures for solid mineral development and of manufactured mobile structures were based on 1997 Economic Census data.¹⁴

Estimation of trade margins, transportation costs, and excise and sales taxes. To estimate the cost of transporting commodities from producers to users, BEA first estimated all transportation services bought and sold in the economy by mode—that is, by rail, truck, water, air, and pipeline. Total transportation receipts for each mode were then separated into receipts from travel by persons, such as household consumers' purchases of airline services for vacation travel, and receipts from the transport of goods, such as mining operators' shipping coal by rail. The receipts for moving goods were allocated to commodities by mode: For rail, the allocation was based on information from the American Association of Railroads; for air, from the U.S. Department of Transportation; and for all other modes, from the Census Bureau's 1997 Commodity Flow Survey. For transportation margins on pipeline transmissions, BEA used data directly from the 1997 Economic Census.

The estimates of wholesale and retail trade margins were based on output data from the 1997 Economic Census, supplemented by information from the 1997 Annual Trade Survey and the 1997 Annual Retail Trade Survey. Margin output was then allocated to commodities, using information on sales for major commodity lines by type of business (for example, sales of kitchen appliances by household appliance stores) also from the economic census.

The estimates of sales and excise taxes were based on

14. Because of NAICS, estimates of oil and gas well drilling and new access structures for solid mineral development are now shown in mining (NAICS 213, Support activities for mining).

information from the Census Bureau's annual trade surveys and from the NIPA's.

Final balancing of the tables. The final step was to resolve any discrepancies that caused inequalities between the domestic supply of a commodity and its disposition to intermediate and final users. These discrepancies occur for many reasons, including misreporting and misclassification of data from sources; improper valuation and timing of production, exports and imports, and other final uses; and inconsistencies and gaps in the source data. In this step, BEA analyzed the sources of the larger discrepancies to determine possible solutions. The remaining smaller discrepancies were then allocated to likely users based on information from the 1992 benchmark I-O accounts. The remaining imbalances in the table were allocated to "other value added" of industries.

Technical Note: The 1997 Benchmark Input-Output Accounts Tables

The 1997 benchmark input-output (I-O) accounts are presented in the standard make and use tables and several supplementary tables.¹⁵ The supplementary tables consist of make and use tables that are based on the standard tables, four requirements tables, and bridge tables.¹⁶

Standard tables

The standard make and use tables are based on the North American Industry Classification System (NAICS). They are constructed before the redefinitions of selected secondary products (see the box "Treatment of Secondary Products" on page 27). These standard tables provide data in a way that is consistent with the GDP-by-industry accounts and the gross state product accounts and with other industry data that are based on information collected on the NAICS basis.

Table 1, the standard make table. The standard make table is a matrix that shows the value in producers' prices of each commodity produced by each industry (see the schematic in the upper panel of chart 2 and with estimates in table E). In the matrix, commodities are presented in the columns, and industries are presented in the rows. The entries in a row represent the dollar value of commodities produced by the industry at the beginning of the row. The entries in a column represent the value of the production by each industry

15. In the 1992 I-O accounts, these make and use tables were referred to as "alternative" tables.

16. In the 1992 I-O accounts, these make and use tables and the requirements tables were referred to as "traditional" tables, and the bridge tables were referred to as "supplementary" tables.

of the commodity at the top of the column.

The diagonal cell in each row (a shaded cell in chart 2) shows the value of production of the commodity for which the industry has been designated the “primary” producer. Any entries in the other cells in the row show the value of production of commodities for which other industries are the primary producers (and for which the given industry is a “secondary” producer).

The row total in the make table is total industry output, and the column total is total commodity output. As indicated by the shading in chart 2, the row totals of the make table equal the column totals of the use table, and the column totals of the make table equal the row totals of the use table.

Table 2, the standard use table. The standard use table is a matrix that shows the commodities consumed, or used, by each industry and final consumer (see the schematic in the lower panel of chart 2 and with estimates in table F). The entries in a row represent the dollar value of the use by each industry of the commodity named at the beginning of the row and of the sales of the commodity to final uses. The industry uses add up to total intermediate use (the far right column of the industries’ portion in chart 2). The final uses sum to GDP (the far right column of the final uses’ portion in chart 2). The entries in a column represent the value of the commodities—that is, of raw materials, semifinished products, and services—used and the value added that is generated in production by the industry at the top of the column. The row total (total commodity output) is the production of the commodity (no matter which industry contributed to that production), and the column total (total industry output) is the production of the industry (no matter what commodity was produced).

Supplementary tables

The supplementary make and use tables are based on the standard make and use tables. The estimates in the supplementary make and use tables are used to calculate four requirements tables—commodity-by-industry direct requirements, commodity-by-commodity total requirements, industry-by-commodity total requirements, and industry-by-industry total requirements—that quantify the direct and indirect effects of changes in final demand on the economy (see the box “Treatment of Secondary Products”). These requirements tables are an important analytical tool because they show the interdependence among the producers and consumers in the economy. Using these tables, analysts can estimate the direct and indirect effects of changes in final uses on industries and commodities. For example, these tables can be used to determine the economic impact of a disaster or to compute the effect on output of a shift in demand from domestic to imported goods.

Three additional supplementary tables serve as bridges between the I-O estimates and estimates in the national income and product accounts (NIPAs).

Tables 3 and 4, the supplementary make and use tables. Except for the treatment of redefinitions of selected secondary products produced by industries, these make and use tables are in the same format as the standard make and use tables.

Table 5, the commodity-by-industry direct requirements table. This table is derived from the use table by relating commodity input for an industry to the industry’s output. The values in this table, referred to as the “direct requirements coefficients,” show the amount of a commodity required by the industry to produce a dollar of the industry’s output.

Table E. The Make of Commodities by Industries Before Redefinitions, 1997

[Millions of dollars at producers’ prices]

	Natural resources and mining	Construction	Manufacturing products	Trade	Transportation and utilities	Information	Financial services ¹	Professional and business services	Education and health services	Leisure and hospitality	Other services	Other ²	Total industry output
Natural resources and mining	442,750	174	10,108	750	.....	.....	.....	261	.....	1,149	.....	.....	455,192
Construction .....	.....	670,210	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	670,210
Manufacturing	727	1,258	3,703,275	39,461	259	717	19	34,989	.....	.....	309	3,669	3,784,683
Trade	556	1,649	15,239	1,411,429	5,050	.....	16,402	8,987	318	12,186	100,982	.....	1,572,798
Transportation and utilities	381	19,745	.....	514	784,540	.....	267	1,514	31	2	256	729	807,978
Information .....	.....	4,997	1,251	5,437	.....	553,169	2,355	98,465	1,163	25	1,704	.....	668,566
Financial activities ¹ .....	.....	47,108	.....	2,140	20	303	2,460,726	7,122	.....	270	831	.....	2,518,520
Professional and business services	410	275	.....	7,044	.....	4,696	119	1,391,803	716	.....	3,405	1,721	1,410,188
Education and health services .....	.....	706	.....	6,036	.....	.....	566	2,805	908,029	8,881	88	.....	927,111
Leisure and hospitality .....	.....	1,421	.....	4,968	.....	.....	1,880	1,938	486	529,460	341	100	540,593
Other services .....	.....	344	.....	4,965	.....	.....	284	623	11	2,449	339,146	.....	347,822
Other ² .....	.....	6,206	55	3,587	75,095	97	13,388	7,010	.....	2,306	1,193	1,050,280	1,159,216
Total commodity output.....	444,824	754,091	3,729,928	1,486,331	864,964	558,982	2,496,006	1,555,515	910,754	556,728	448,255	1,056,499	14,862,876

1. Financial activities include both finance and insurance (NAICS 52) and real estate and rental and leasing (NAICS 53).

2. “Other” includes government industries and other I-O special industries; for more information see “Appendix A. Industries in the 1997 Benchmark Input-Output Accounts.”

CHART 2

The Input-Output Accounts

MAKE TABLE: INDUSTRIES PRODUCING COMMODITIES

	COMMODITIES ¹										TOTAL INDUSTRY OUTPUT	
	Natural resources and mining	Construction	Manufactured products	Trade	Transportation and utilities	Information	Financial services ²	Professional and business services	Education and health services	Leisure and hospitality		Other services	Other^{3}
Natural resources and mining												
Construction												
Manufacturing												
Trade												
Transportation and utilities												
Information												
Financial activities ²												
Professional and business services												
Education and health services												
Leisure and hospitality												
Other services												
Other ³												
TOTAL COMMODITY OUTPUT												

USE TABLE: COMMODITIES USED BY INDUSTRIES AND FINAL USES

	INDUSTRIES ¹												TOTAL COMMODITY OUTPUT									
	Natural resources and mining	Construction	Manufacturing	Trade	Transportation and utilities	Information	Financial activities ²	Professional and business services	Education and health services	Leisure and hospitality	Other services	Other ³		Total intermediate use	Personal consumption expenditures	Private fixed investment	Change in business inventories	Exports of goods and services	Imports of goods and services	Government consumption expenditures and investment	GP	
Natural resources and mining																						
Construction																						
Manufactured products																						
Trade																						
Transportation and utilities																						
Information																						
Financial services ²																						
Professional and business services																						
Education and health services																						
Leisure and hospitality																						
Other services																						
Other ³																						
Nonresponsible imports																						
Total intermediate inputs																						
Compensation of employees																						
Indirect business tax and nontax liability																						
Other value added ⁴																						
TOTAL INDUSTRY OUTPUT																						

TOTAL COMMODITY OUTPUT
 TOTAL INDUSTRY OUTPUT
 PRIMARY PRODUCT OF THE INDUSTRY

1. The 1997 benchmark input-output (I-O) accounts use two classification systems, one for industries and another for commodities, but both generally use the same I-O numbers and titles based on NAICS.
 2. Financial activities include both finance and insurance (NAICS 52) and real estate and rental and leasing (NAICS 53).
 3. "Other" includes government industries and other I-O special industries; for more information see "Appendix A. Industries in the 1997 Benchmark Input-Output Accounts."
 4. "Other value added" consists of the following national income and product accounts components of gross domestic income: Consumption of fixed capital, net interest, proprietors' income, corporate profits, rental income of persons, business transfer payments, and subsidies less current surplus of government enterprises. In the I-O accounts, it is calculated as a residual after subtracting intermediate inputs, compensation of employees, and indirect business tax and nontax liability from industry output.

Table 6, the commodity-by-commodity total requirements table. This table is derived from both the make and use tables. The values in this table, referred to as “commodity-by-commodity total requirements coefficients,” show the production required both directly and indirectly of the commodity at the beginning of each row per dollar of delivery to final use of the commodity at the top of the column.

Table 7, the industry-by-commodity total requirements table. This table is derived from both the make and use tables. The values in this table, referred to as “industry-by-commodity total requirements coefficients,” show the production required directly and in-

directly from the industry at the beginning of the row per dollar of delivery to final use of the commodity at the top of the column.

Table 8, the industry-by-industry total requirements table. This table is also derived from both the make and use tables. The values in this table, referred to as “industry-by-industry total requirements coefficients,” show the production required directly and indirectly from the industry at the beginning of the row per dollar of delivery to final use by the industry at the top of the column.

Bridge tables. The first bridge table (appendix C) covers the I-O commodity composition of NIPA

Table F. The Use of Commodities by Industries Before Redefinitions, 1997

[Millions of dollars]

	Industries											Total intermediate use	
	Natural resources and mining	Construction	Manufacturing	Trade	Transportation and utilities	Information	Financial activities ¹	Professional and business services	Education and health services	Leisure and hospitality	Other services		Other ²
Natural resources and mining	94,784	5,402	262,854	2,730	53,800	9	2,301	3,476	605	7,933	211	4,095	438,202
Construction.....	1,151	832	7,499	5,971	5,787	2,043	22,330	5,481	6,509	3,857	2,619	7,820	71,898
Manufacturing products.....	69,081	178,903	1,362,660	97,446	72,469	52,744	68,936	54,741	87,245	86,248	46,101	24,310	2,200,884
Trade	14,103	58,883	215,781	36,680	18,893	8,352	17,321	14,487	15,084	17,573	9,902	4,383	431,440
Transportation and utilities.....	18,673	17,173	164,491	54,278	89,154	9,292	45,053	26,041	17,983	17,907	8,318	13,188	481,548
Information	1,087	6,052	28,453	22,111	9,061	108,291	18,425	35,858	15,977	7,514	6,864	1,553	261,246
Financial services ¹	49,530	28,573	107,003	112,879	42,852	28,509	408,245	75,598	87,665	40,686	29,483	7,667	1,018,688
Professional and business services.....	22,031	61,055	274,766	228,775	70,240	60,772	161,217	161,874	84,684	33,343	27,215	17,358	1,203,329
Education and health services.....	64	78	1,561	1,139	1,246	738	521	1,116	7,519	418	433	77	14,910
Leisure and hospitality.....	2,178	1,663	18,263	10,969	10,150	8,309	15,259	15,019	13,742	15,261	2,616	800	114,229
Other services	3,121	9,165	46,377	14,890	8,549	8,303	15,201	15,284	7,042	5,228	3,988	1,405	138,552
Other ²	163	1,147	23,675	10,672	2,484	3,775	7,772	9,151	10,446	2,553	3,761	2,020	77,619
Noncomparable imports.....	843	413	17,494	6,144	13,388	10,775	10,408	3,772	92	195	126	1,038	64,686
Total intermediate inputs.....	276,810	369,337	2,530,876	604,683	398,073	301,912	792,989	421,899	354,591	238,715	141,635	85,713	6,517,231
Total value added	178,382	300,873	1,253,807	968,115	409,905	368,654	1,725,530	988,289	572,520	301,878	206,188	1,073,504	3,043,216
Compensation of employees.....	54,815	254,706	722,386	546,034	205,877	158,127	375,297	666,986	470,539	181,041	134,613	885,726	4,656,147
Indirect business tax and nontax liability.....	17,413	6,347	44,919	231,876	41,713	33,742	206,803	18,290	4,866	31,826	7,373	1,055	646,223
Other value added ³	106,154	39,820	486,502	190,206	162,316	174,784	1,143,430	303,014	97,115	89,010	64,202	186,723	3,043,216
Total industry output	455,192	670,210	3,784,683	1,572,798	807,978	668,566	2,518,520	1,410,188	927,111	540,593	347,822	1,159,216	

Table F. The Use of Commodities by Industries Before Redefinitions, 1997—Continued

[Millions of dollars]

	Final uses (GDP)						GDP	Total commodity output
	Personal consumption expenditures	Private fixed investment	Change in private inventories	Exports of goods and services	Imports of goods and services	Government consumption expenditures and gross investment		
Natural resources and mining	36,228	22,536	4,310	32,048	-87,339	-1,161	6,622	444,824
Construction.....	.....	506,254	.....	96	.....	175,843	682,193	754,091
Manufacturing products.....	986,867	554,541	38,449	515,686	-765,454	198,956	1,529,045	3,729,928
Trade	840,362	107,026	5,338	61,686	19,617	20,862	1,054,891	1,486,331
Transportation and utilities.....	272,621	10,418	1,253	61,507	-13,280	50,896	383,415	864,964
Information	207,394	37,268	1,033	20,420	-2,838	34,460	297,736	558,982
Financial services ¹	1,336,539	43,539	.....	64,795	-6,129	38,575	1,477,319	2,496,006
Professional and business services.....	117,120	88,321	.....	41,819	-5,952	110,879	352,186	1,555,515
Education and health services.....	1,005,484	.....	.....	471	-575	-109,536	895,844	910,754
Leisure and hospitality.....	447,255	.....	.....	558	-260	-5,054	442,498	556,728
Other services	294,846	.....	21	136	-1,186	15,886	309,703	448,255
Other ²	-18,392	-50,991	11,762	99,363	-5,836	942,974	978,880	1,056,499
Noncomparable imports.....	45,260	998	.....	.....	-120,514	9,570	-64,686	.....
Total	5,571,584	1,319,909	62,166	898,585	-989,747	1,483,149	8,345,646	14,862,876

1. Financial activities include both finance and insurance (NAICS 52) and real estate and rental leasing (NAICS 53).

2. "Other" includes government industries and other I-O special industries; for more information see Appendix A, Industries in the 1997 Benchmark Input-Output Accounts."

3. "Other value added" consisted of the following national income and product accounts components of

gross domestic income: Consumption of fixed capital, net interest, proprietors' income, corporate profits, rental income of persons, business transfer payments, and subsidies less current surplus of government enterprises; in the I-O accounts, it is calculated as a residual after subtracting intermediate inputs, compensation of employees, and indirect business tax and nontax liability from industry output.

personal consumption expenditures. The second table (appendix D) covers the I-O commodity composition of NIPA private equipment and software expenditures. The third table (appendix E) reconciles the I-O estimates of exports and imports with those in the NIPAs.

The commodity composition tables are necessary because the valuations and definitions used in the I-O accounts differ from those used in the NIPAs. In the I-O accounts, the final use categories are expressed in producers' prices; in the NIPAs, final demand categories are expressed in purchasers' prices. In addition, the definitions of the export and import components 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 require-

ments that result from changes in the level or composition of NIPA final demand, the NIPA final demand categories must be converted to the I-O final use categories; that is, the analysis should be consistent with I-O final use commodities that are valued at producers' prices for the I-O year and include separate entries for transportation costs and trade margins.

Some adjustments are necessary in order to reconcile the I-O estimates of exports and imports of goods and services with those in the NIPAs. In the NIPAs—unlike the I-O accounts—imports include the U.S. merchandise that is returned to the United States from other countries, and exports include the foreign merchandise that is reexported from the United States to other countries. The same adjustments are made for both exports and imports, so total GDP is not affected.

Data Availability

The estimates from the 1997 benchmark input-output (I-O) accounts at the summary level (134 commodities and 131 industries) and at the detailed level (483 commodities and 491 industries), including a discussion of the matrix algebra underlying the derivation of the tables, are available on BEA's Web site. Go to <www.bea.gov>, click on "Industry: GDP by industry and input-output data," and look under "Input-Output data" to access the data interactively or in a published format.

The estimates are also available on the following diskettes:

- The summary estimates for the standard make and use tables and for the supplementary make, use, and requirements tables, product number NDN-0305, one diskette for \$20
- The estimates for the standard make and use tables at the detailed level, product number NDN-0306, two diskettes for \$40
- The estimates for the supplementary make, use, and

direct requirements tables at the detailed level, product number NDN-0307, three diskettes for \$60

- The estimates for the supplementary industry-by-commodity total requirements table at the detailed level, product number NDN-0308, one diskette for \$20
- The estimates for the supplementary commodity-by-commodity total requirements table at the detailed level, product number NDN-0309, one diskette for \$20
- The estimates for the supplementary industry-by-industry total requirements table at the detailed level, product number NDN-0310, one diskette for \$20
- The estimates of the I-O commodity composition of national income and product account personal consumption expenditures and private equipment and software expenditures at the summary and detailed levels, product number NDN-0311, one diskette for \$20

To order, call the BEA Order Desk at 1-800-704-0415 (outside the United States, call 202-606-9666).

Appendixes A–F and tables 1 and 2 follow.

Appendix A. Industries in the 1997 Benchmark Input-Output Accounts

The titles in boldface represent the industries used for the summary version of the 1997 tables. An asterisk following a North American Industry Classification System (NAICS) code indicates that the NAICS industry is included in more than one I-O industry.

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
AGRICULTURE, FORESTRY, FISHING AND HUNTING		MANUFACTURING	
1110 Crop production		3110 Food manufacturing	
1111A0 Oilseed farming.....	11111, 11112	311111 Dog and cat food manufacturing.....	311111
1111B0 Grain farming.....	11113, 11114, 11115, 11116, 11119	311119 Other animal food manufacturing.....	311119
111200 Vegetable and melon farming.....	1112	311211 Flour milling.....	311211
1113A0 Fruit farming.....	11131, 11132, 111331-4, 111336, 111339	311212 Rice milling.....	311212
111335 Tree nut farming.....	111335	311213 Malt manufacturing.....	311213
111400 Greenhouse and nursery production.....	1114	311221 Wet corn milling.....	311221
111910 Tobacco farming.....	11191	311222 Soybean processing.....	311222
111920 Cotton farming.....	11192	311223 Other oilseed processing.....	311223
1119A0 Sugarcane and sugar beet farming.....	11193, 111991	311225 Fats and oils refining and blending.....	311225
1119B0 All other crop farming.....	11194, 111992, 111998	311230 Breakfast cereal manufacturing.....	31123
1120 Animal production		311310 Sugar manufacturing.....	31131
112100 Cattle ranching and farming.....	1121	311320 Confectionery manufacturing from cacao beans.....	31132
112300 Poultry and egg production.....	1123	311330 Confectionery manufacturing from purchased chocolate.....	31133
112A00 Animal production, except cattle and poultry and eggs.....	1122, 1124, 1125, 1129	311340 Nonchocolate confectionery manufacturing.....	31134
1130 Forestry and logging		311410 Frozen food manufacturing.....	31141
113A00 Forest nurseries, forest products, and timber tracts.....	1131, 1132	311420 Fruit and vegetable canning and drying.....	31142
113300 Logging.....	1133	311511 Fluid milk manufacturing.....	311511
1140 Fishing, hunting and trapping		311512 Creamery butter manufacturing.....	311512
114100 Fishing.....	1141	311513 Cheese manufacturing.....	311513
114200 Hunting and trapping.....	1142	311514 Dry, condensed, and evaporated dairy products.....	311514
1150 Agriculture and forestry support activities		311520 Ice cream and frozen dessert manufacturing.....	31152
115000 Agriculture and forestry support activities.....	115	311611 Animal, except poultry, slaughtering.....	311611
MINING		311612 Meat processed from carcasses.....	311612
2110 Oil and gas extraction		311613 Rendering and meat byproduct processing.....	311613
211000 Oil and gas extraction.....	211	311615 Poultry processing.....	311615
2121 Coal mining		311700 Seafood product preparation and packaging.....	3117
212100 Coal mining.....	2121	31181A Bread and bakery product, except frozen, manufacturing.....	311811-2
2122 Metal ores mining		311813 Frozen cakes and other pastries manufacturing.....	311813
212210 Iron ore mining.....	21221	311821 Cookie and cracker manufacturing.....	311821
212230 Copper, nickel, lead, and zinc mining.....	21223	311822 Mixes and dough made from purchased flour.....	311822
2122A0 Gold, silver, and other metal ore mining.....	21222, 21229	311823 Dry pasta manufacturing.....	311823
2123 Nonmetallic mineral mining and quarrying		311830 Tortilla manufacturing.....	31183
212310 Stone mining and quarrying.....	21231	311911 Roasted nuts and peanut butter manufacturing.....	311911
212320 Sand, gravel, clay, and refractory mining.....	21232	311919 Other snack food manufacturing.....	311919
212390 Other nonmetallic mineral mining.....	21239	311920 Coffee and tea manufacturing.....	31192
2130 Support activities for mining		311930 Flavoring syrup and concentrate manufacturing.....	31193
213111 Drilling oil and gas wells.....	213111	311941 Mayonnaise, dressing, and sauce manufacturing.....	311941
213112 Support activities for oil and gas operations.....	213112	311942 Spice and extract manufacturing.....	311942
21311A Support activities for other mining.....	213113-5	311990 All other food manufacturing.....	31199
UTILITIES		3121 Beverage manufacturing	
2211 Power generation and supply		312110 Soft drink and ice manufacturing.....	31211
221100 Power generation and supply.....	2211	312120 Breweries.....	31212
2212 Natural gas distribution		312130 Wineries.....	31213
221200 Natural gas distribution.....	2212	312140 Distilleries.....	31214
2213 Water, sewage and other systems		3122 Tobacco manufacturing	
221300 Water, sewage and other systems.....	2213	312210 Tobacco stemming and redrying.....	31221
CONSTRUCTION		312221 Cigarette manufacturing.....	312221
2301 New residential construction		312229 Other tobacco product manufacturing.....	312229
230110 New residential 1-unit structures, nonfarm.....	23*	3130 Textile mills	
230120 New multifamily housing structures, nonfarm.....	23*	313100 Fiber, yarn, and thread mills.....	3131
230130 New residential additions and alterations, nonfarm.....	23*	313210 Broadwoven fabric mills.....	31321
230140 New farm housing units and additions and alterations.....	23*	313220 Narrow fabric mills and schiffli embroidery.....	31322
2302 New nonresidential construction		313230 Nonwoven fabric mills.....	31323
230210 Manufacturing and industrial buildings.....	23*	313240 Knit fabric mills.....	31324
230220 Commercial and institutional buildings.....	23*	313310 Textile and fabric finishing mills.....	31331
230230 Highway, street, bridge, and tunnel construction.....	23*	313320 Fabric coating mills.....	31332
230240 Water, sewer, and pipeline construction.....	23*	3140 Textile product mills	
230250 Other new construction.....	23*	314110 Carpet and rug mills.....	31411
2303 Maintenance and repair construction		314120 Curtain and linen mills.....	31412
230310 Maintenance and repair of farm and nonfarm residential structures.....	23*	314910 Textile bag and canvas mills.....	31491
230320 Maintenance and repair of nonresidential buildings.....	23*	314992 Tire cord and tire fabric mills.....	314992
230330 Maintenance and repair of highways, streets, bridges, and tunnels.....	23*	31499A Other miscellaneous textile product mills.....	314991, 314999
230340 Other maintenance and repair construction.....	23*	3150 Apparel manufacturing	
		315111 Sheer hosiery mills.....	315111
		315119 Other hosiery and sock mills.....	315119
		315190 Other apparel knitting mills.....	31519
		315200 Cut and sew apparel manufacturing.....	3152
		315900 Accessories and other apparel manufacturing.....	3159
		3160 Leather and allied product manufacturing	
		316100 Leather and hide tanning and finishing.....	3161
		316200 Footwear manufacturing.....	3162
		316900 Other leather product manufacturing.....	3169
		3210 Wood product manufacturing	
		321113 Sawmills.....	321113
		321114 Wood preservation.....	321114
		32121A Veneer and plywood manufacturing.....	321211-2

Appendix A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
32121B Engineered wood member and truss manufacturing.....	321213-4	326192 Resilient floor covering manufacturing	326192
321219 Reconstituted wood product manufacturing	321219	32619A Plastics plumbing fixtures and all other plastics products	326191, 326199
321911 Wood windows and door manufacturing	321911	326210 Tire manufacturing	32621
321912 Cut stock, resawing lumber, and planing	321912	326220 Rubber and plastics hose and belting manufacturing	32622
321918 Other millwork, including flooring.....	321918	326290 Other rubber product manufacturing	32629
321920 Wood container and pallet manufacturing.....	32192		
321991 Manufactured home, mobile home, manufacturing	321991	3270 Nonmetallic mineral product manufacturing	
321992 Prefabricated wood building manufacturing	321992	327111 Vitreous china plumbing fixture manufacturing	327111
321999 Miscellaneous wood product manufacturing	321999	327112 Vitreous china and earthenware articles manufacturing.....	327112
3221 Pulp, paper, and paperboard mills		327113 Porcelain electrical supply manufacturing.....	327113
322110 Pulp mills.....	32211	327121 Brick and structural clay tile manufacturing	327121
3221A0 Paper and paperboard mills	32212, 32213	327122 Ceramic wall and floor tile manufacturing.....	327122
3222 Converted paper product manufacturing		32712A Clay refractory and other structural clay products	327123-4
322210 Paperboard container manufacturing.....	32221	327125 Nonclay refractory manufacturing.....	327125
32222A Coated and laminated paper and packaging materials	322221-2	327213 Glass container manufacturing	327213
32222B Coated and uncoated paper bag manufacturing	322223-4	32721A Glass and glass products, except glass containers.....	327211-2, 327215
322226 Flexible packaging foil manufacturing	322225	327310 Cement manufacturing.....	32731
322226 Surface-coated paperboard manufacturing	322226	327320 Ready-mix concrete manufacturing	32732
322231 Die-cut paper office supplies manufacturing.....	322231	327331 Concrete block and brick manufacturing.....	327331
322232 Envelope manufacturing	322232	327332 Concrete pipe manufacturing	327332
322233 Stationery and related product manufacturing.....	322233	327390 Other concrete product manufacturing	32739
322291 Sanitary paper product manufacturing.....	322291	327410 Lime manufacturing	32741
322299 All other converted paper product manufacturing.....	322299	327420 Gypsum product manufacturing	32742
3230 Printing and related support activities		327910 Abrasive product manufacturing	32791
32311A Commercial printing.....	323110-5, 323119	327991 Cut stone and stone product manufacturing.....	327991
323116 Manifold business forms printing	323116	327992 Ground or treated minerals and earths manufacturing.....	327992
323117 Books printing.....	323117	327993 Mineral wool manufacturing	327993
323118 Blankbook and looseleaf binder manufacturing	323118	327999 Miscellaneous nonmetallic mineral products	327999
323121 Tradebinding and related work.....	323121	331A Iron and steel mills and manufacturing from purchased steel	
323122 Prepress services.....	323122	331111 Iron and steel mills	331111
3240 Petroleum and coal products manufacturing		331112 Ferroalloy and related product manufacturing	331112
324110 Petroleum refineries.....	32411	331210 Iron, steel pipe and tube from purchased steel	33121
324121 Asphalt paving mixture and block manufacturing	324121	331221 Rolled steel shape manufacturing	331221
324122 Asphalt shingle and coating materials manufacturing.....	324122	331222 Steel wire drawing	331222
324191 Petroleum lubricating oil and grease manufacturing.....	324191	331B Nonferrous metal production and processing	
324199 All other petroleum and coal products manufacturing	324199	331311 Alumina refining.....	331311
3251 Basic chemical manufacturing		331312 Primary aluminum production	331312
325110 Petrochemical manufacturing	32511	331314 Secondary smelting and alloying of aluminum	331314
325120 Industrial gas manufacturing	32512	331315 Aluminum sheet, plate, and foil manufacturing.....	331315
325130 Synthetic dye and pigment manufacturing.....	32513	331316 Aluminum extruded product manufacturing	331316
325180 Other basic inorganic chemical manufacturing	32518	331319 Other aluminum rolling and drawing.....	331319
325190 Other basic organic chemical manufacturing	32519	331411 Primary smelting and refining of copper.....	331411
3252 Resin, rubber, and artificial fibers manufacturing		331419 Primary nonferrous metal, except copper and aluminum	331419
325211 Plastics material and resin manufacturing	325211	331421 Copper rolling, drawing, and extruding.....	331421
325212 Synthetic rubber manufacturing.....	325212	331422 Copper wire, except mechanical, drawing	331422
325221 Cellulosic organic fiber manufacturing.....	325221	331423 Secondary processing of copper	331423
325222 Noncellulosic organic fiber manufacturing.....	325222	331491 Nonferrous metal, except copper and aluminum, shaping.....	331491
3253 Agricultural chemical manufacturing		331492 Secondary processing of other nonferrous.....	331492
325311 Nitrogenous fertilizer manufacturing.....	325311	3315 Foundries	
325312 Phosphatic fertilizer manufacturing	325312	331510 Ferrous metal foundries	33151
325314 Fertilizer, mixing only, manufacturing.....	325314	33152A Aluminum foundries	331521, 331524
325320 Pesticide and other agricultural chemical manufacturing.....	32532	33152B Nonferrous foundries, except aluminum.....	331522, 331525, 331528
3254 Pharmaceutical and medicine manufacturing		3321 Forging and stamping	
325400 Pharmaceutical and medicine manufacturing	3254	332111 Iron and steel forging.....	332111
3255 Paint, coating, and adhesive manufacturing		332112 Nonferrous forging	332112
325510 Paint and coating manufacturing	32551	332114 Custom roll forming.....	332114
325520 Adhesive manufacturing	32552	33211A All other forging and stamping	332115-7
3256 Soap, cleaning compound, and toiletry manufacturing		3322 Cutlery and handtool manufacturing	
325611 Soap and other detergent manufacturing.....	325611	332211 Cutlery and flatware, except precious, manufacturing	332211
325612 Polish and other sanitation good manufacturing.....	325612	332212 Hand and edge tool manufacturing	332212
325613 Surface active agent manufacturing.....	325613	332213 Saw blade and handsaw manufacturing.....	332213
325620 Toilet preparation manufacturing	32562	332214 Kitchen utensil, pot, and pan manufacturing.....	332214
3259 Other chemical product and preparation manufacturing		3323 Architectural and structural metals manufacturing	
325910 Printing ink manufacturing.....	32591	332311 Prefabricated metal buildings and components	332311
325920 Explosives manufacturing.....	32592	332312 Fabricated structural metal manufacturing.....	332312
325991 Custom compounding of purchased resins.....	325991	332313 Plate work manufacturing	332313
325992 Photographic film and chemical manufacturing.....	325992	332321 Metal window and door manufacturing.....	332321
325998 Other miscellaneous chemical product manufacturing	325998	332322 Sheet metal work manufacturing	332322
3260 Plastics and rubber products manufacturing		332323 Ornamental and architectural metal work manufacturing.....	332323
326110 Plastics packaging materials, film and sheet.....	32611	3324 Boiler, tank, and shipping container manufacturing	
326120 Plastics pipe, fittings, and profile shapes.....	32612	332410 Power boiler and heat exchanger manufacturing	33241
326130 Laminated plastics plate, sheet, and shapes	32613	332420 Metal tank, heavy gauge, manufacturing.....	33242
3261A0 Foam product manufacturing.....	32614, 32615	332430 Metal can, box, and other container manufacturing.....	33243
326160 Plastics bottle manufacturing.....	32616	332A Ordnance and accessories manufacturing	
		33299A Ammunition manufacturing	332992-3
		332994 Small arms manufacturing.....	332994
		332995 Other ordnance and accessories manufacturing.....	332995

Appendix A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
332B Other fabricated metal product manufacturing		3344 Semiconductor and electronic component manufacturing	
332500 Hardware manufacturing.....	3325	334411 Electron tube manufacturing	334411
332600 Spring and wire product manufacturing.....	3326	334413 Semiconductors and related device manufacturing.....	334413
332710 Machine shops.....	33271	33441A All other electronic component manufacturing.....	334412, 334414-9
332720 Turned product and screw, nut, and bolt manufacturing.....	33272	3345 Electronic instrument manufacturing	
332811 Metal heat treating	332811	334510 Electromedical apparatus manufacturing	334510
332812 Metal coating and nonprecious engraving	332812	334511 Search, detection, and navigation instruments	334511
332813 Electroplating, anodizing, and coloring metal.....	332813	334512 Automatic environmental control manufacturing	334512
332910 Metal valve manufacturing	33291	334513 Industrial process variable instruments.....	334513
332991 Ball and roller bearing manufacturing	332991	334514 Totalizing fluid meters and counting devices.....	334514
332996 Fabricated pipe and pipe fitting manufacturing	332996	334515 Electricity and signal testing instruments.....	334515
332997 Industrial pattern manufacturing.....	332997	334516 Analytical laboratory instrument manufacturing.....	334516
332998 Enameled iron and metal sanitary ware manufacturing.....	332998	334517 Irradiation apparatus manufacturing	334517
332999 Miscellaneous fabricated metal product manufacturing.....	332999	33451A Watch, clock, and other measuring and controlling device manufacturing.....	334518-9
3331 Agriculture, construction, and mining machinery		3346 Magnetic media manufacturing and reproducing	
333111 Farm machinery and equipment manufacturing.....	333111	334611 Software reproducing.....	334611
333112 Lawn and garden equipment manufacturing	333112	334612 Audio and video media reproduction	334612
333120 Construction machinery manufacturing.....	33312	334613 Magnetic and optical recording media manufacturing.....	334613
333131 Mining machinery and equipment manufacturing.....	333131	3351 Electric lighting equipment manufacturing	
333132 Oil and gas field machinery and equipment	333132	335110 Electric lamp bulb and part manufacturing.....	33511
3332 Industrial machinery manufacturing		335120 Lighting fixture manufacturing	33512
333210 Sawmill and woodworking machinery	33321	3352 Household appliance manufacturing	
333220 Plastics and rubber industry machinery.....	33322	335211 Electric housewares and household fan manufacturing	335211
333291 Paper industry machinery manufacturing.....	333291	335212 Household vacuum cleaner manufacturing	335212
333292 Textile machinery manufacturing	333292	335221 Household cooking appliance manufacturing.....	335221
333293 Printing machinery and equipment manufacturing	333293	335222 Household refrigerator and home freezer manufacturing	335222
333294 Food product machinery manufacturing	333294	335224 Household laundry equipment manufacturing.....	335224
333295 Semiconductor machinery manufacturing	333295	335228 Other major household appliance manufacturing.....	335228
333298 All other industrial machinery manufacturing	333298	3353 Electrical equipment manufacturing	
3333 Commercial and service industry machinery		335311 Electric power and specialty transformer manufacturing	335311
33331A Automatic vending, commercial laundry and drycleaning machinery	333311-2	335312 Motor and generator manufacturing	335312
333313 Office machinery manufacturing	333313	335313 Switchgear and switchboard apparatus manufacturing.....	335313
333314 Optical instrument and lens manufacturing	333314	335314 Relay and industrial control manufacturing.....	335314
333315 Photographic and photocopying equipment manufacturing.....	333315	3359 Other electrical equipment and component manufacturing	
333319 Other commercial and service machinery manufacturing	333319	335911 Storage battery manufacturing	335911
3334 HVAC and commercial refrigeration equipment		335912 Primary battery manufacturing	335912
333411 Air purification equipment manufacturing.....	333411	335921 Fiber optic cable manufacturing	335921
333412 Industrial and commercial fan and blower manufacturing	333412	335929 Other communication and energy wire manufacturing.....	335929
333414 Heating equipment, except warm air furnaces	333414	335930 Wiring device manufacturing	33593
333415 AC, refrigeration, and forced air heating.....	333415	335991 Carbon and graphite product manufacturing.....	335991
3335 Metalworking machinery manufacturing		335999 Miscellaneous electrical equipment manufacturing.....	335999
333511 Industrial mold manufacturing.....	333511	3361 Motor vehicle manufacturing	
333512 Metal cutting machine tool manufacturing	333512	336110 Automobile and light truck manufacturing	33611
333513 Metal forming machine tool manufacturing	333513	336120 Heavy duty truck manufacturing	33612
333514 Special tool, die, jig, and fixture manufacturing	333514	336A Motor vehicle body, trailer, and parts manufacturing	
333515 Cutting tool and machine tool accessory manufacturing	333515	336211 Motor vehicle body manufacturing.....	336211
33351A Rolling mill and other metalworking machinery.....	333516, 333518	336212 Truck trailer manufacturing	336212
3336 Turbine and power transmission equipment manufacturing		336213 Motor home manufacturing	336213
333611 Turbine and turbine generator set units manufacturing.....	333611	336214 Travel trailer and camper manufacturing.....	336214
33361A Speed changers and mechanical power transmission equipment.....	333612-3	336300 Motor vehicle parts manufacturing	3363
333618 Other engine equipment manufacturing	333618	3364 Aerospace product and parts manufacturing	
3339 Other general purpose machinery manufacturing		336411 Aircraft manufacturing	336411
333911 Pump and pumping equipment manufacturing.....	333911	336412 Aircraft engine and engine parts manufacturing.....	336412
333912 Air and gas compressor manufacturing	333912	336413 Other aircraft parts and equipment.....	336413
333913 Measuring and dispensing pump manufacturing.....	333913	336414 Guided missile and space vehicle manufacturing.....	336414
333921 Elevator and moving stairway manufacturing	333921	33641A Propulsion units and parts for space vehicles and guided missiles...	336415, 336419
333922 Conveyor and conveying equipment manufacturing	333922	336B Other transportation equipment manufacturing	
333923 Overhead cranes, hoists, and monorail systems.....	333923	336500 Railroad rolling stock manufacturing	3365
333924 Industrial truck, trailer, and stacker manufacturing	333924	336611 Ship building and repairing	336611
333991 Power-driven handtool manufacturing.....	333991	336612 Boat building	336612
333992 Welding and soldering equipment manufacturing.....	333992	336991 Motorcycle, bicycle, and parts manufacturing.....	336991
333993 Packaging machinery manufacturing	333993	336992 Military armored vehicles and tank parts manufacturing.....	336992
333994 Industrial process furnace and oven manufacturing	333994	336999 All other transportation equipment manufacturing.....	336999
333995 Fluid power cylinder and actuator manufacturing	333995	3370 Furniture and related product manufacturing	
333996 Fluid power pump and motor manufacturing	333996	337110 Wood kitchen cabinet and countertop manufacturing	33711
33399A Scales, balances, and miscellaneous general purpose machinery	333997, 333999	337121 Upholstered household furniture manufacturing.....	337121
3341 Computer and peripheral equipment manufacturing		337122 Nonupholstered wood household furniture manufacturing	337122
334111 Electronic computer manufacturing	334111	337124 Metal household furniture manufacturing	337124
334112 Computer storage device manufacturing	334112	337127 Institutional furniture manufacturing.....	337127
334113 Computer terminal manufacturing	334113	33712A Other household and institutional furniture.....	337125, 337129
334119 Other computer peripheral equipment manufacturing	334119	337211 Wood office furniture manufacturing	337211
334A Audio, video, and communications equipment manufacturing		337212 Custom architectural woodwork and millwork	337212
334210 Telephone apparatus manufacturing	33421	337214 Office furniture, except wood, manufacturing	337214
334220 Broadcast and wireless communications equipment	33422		
334290 Other communications equipment manufacturing	33429		
334300 Audio and video equipment manufacturing.....	3343		

Appendix A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
5419 Other professional and technical services		713A00 Other amusement, gambling, and recreation industries	7131, 7132, 71391, 71392, 71393, 71399
541920 Photographic services	54192		
541940 Veterinary services	54194		
5419A0 All other miscellaneous professional and technical services	54191, 54193, 54199		
MANAGEMENT OF COMPANIES AND ENTERPRISES		7210 Accommodation	
5500 Management of companies and enterprises		7211A0 Hotels and motels, including casino hotels	72111, 72112
550000 Management of companies and enterprises	55	721A00 Other accommodations	72119, 7212, 7213
ADMINISTRATIVE AND WASTE SERVICES		7220 Food services and drinking places	
5613 Employment services		722000 Food services and drinking places	722
561300 Employment services	5613		
5615 Travel arrangement and reservation services		OTHER SERVICES, EXCEPT PUBLIC ADMINISTRATION	
561500 Travel arrangement and reservation services	5615	8111 Automotive repair and maintenance	
561A All other administrative and support services		8111A0 Automotive repair and maintenance, except car washes	81111, 81112, 811191, 811198
561100 Office administrative services	5611	811192 Car washes	811192
561200 Facilities support services	5612	811A Electronic, commercial, and household goods repair	
561400 Business support services	5614	811200 Electronic equipment repair and maintenance	8112
561600 Investigation and security services	5616	811300 Commercial machinery repair and maintenance	8113
561700 Services to buildings and dwellings	5617	811400 Household goods repair and maintenance	8114
561900 Other support services	5619	8120 Personal and laundry services	
5620 Waste management and remediation services		812100 Personal care services	8121
562000 Waste management and remediation services	562	812200 Death care services	8122
		812300 Drycleaning and laundry services	8123
		812900 Other personal services	8129
EDUCATIONAL SERVICES		813A Religious, grantmaking and giving, and social advocacy organizations	
6100 Educational services		813100 Religious organizations	8131
611100 Elementary and secondary schools	6111	813A00 Grantmaking and giving and social advocacy organizations	8132, 8133
611A00 Colleges, universities, and junior colleges	6112, 6113	813B Civic, social, professional and similar organizations	
611B00 Other educational services	6114, 6115, 6116, 6117	813B00 Civic, social, professional and similar organizations	8134, 8139
HEALTH CARE AND SOCIAL ASSISTANCE		8140 Private households	
6210 Ambulatory health care services		814000 Private households	814
621A00 Offices of physicians, dentists, and other health practitioners	6211, 6212, 6213		
621600 Home health care services	6216	GOVERNMENT INDUSTRIES	
621B00 Other ambulatory health care services	6214, 6215, 6219	S001 Federal Government enterprises	
6220 Hospitals		491000 Postal service	491
622000 Hospitals	622	S00101 Federal electric utilities	
6230 Nursing and residential care facilities		S00102 Other Federal Government enterprises	
623000 Nursing and residential care facilities	623	S002 State and local government enterprises	
6240 Social assistance		S00201 State and local government passenger transit	
624400 Child day care services	6244	S00202 State and local government electric utilities	
624A00 Social assistance, except child day care services	6241, 6242, 6243	S00203 Other State and local government enterprises	
ARTS, ENTERTAINMENT, AND RECREATION		S005 General government industry	
71A0 Performing arts, spectator sports, museums, zoos, and parks		S00500 General government industry	
711100 Performing arts companies	7111	SPECIAL INDUSTRIES	
711200 Spectator sports	7112	S003 Noncomparable imports	
711A00 Promoters of performing arts and sports and agents for public figures	7113, 7114	S00300 Noncomparable imports	
711500 Independent artists, writers, and performers	7115	S004 Scrap, used and secondhand goods	
712000 Museums, historical sites, zoos, and parks	712	S00401 Scrap	
7130 Amusements, gambling, and recreation		S00402 Used and secondhand goods	
713940 Fitness and recreational sports centers	71394	S006 Rest of the world adjustment to final uses	
713950 Bowling centers	71395	S00600 Rest of the world adjustment to final uses	
		S007 Inventory valuation adjustment	
		S00700 Inventory valuation adjustment	

Appendix B. Classification of Value Added and Final Uses in the 1997 Benchmark Input-Output Accounts

[The titles in boldface represent the value added and final use components used for the summary version of the 1997 tables.]

I-O number and title		I-O number and title	
	VALUE ADDED		
V001	Compensation of employees V00100 Compensation of employees	F06C	Federal Government consumption expenditures, national defense F06C00 Federal Government consumption expenditures, national defense
V002	Indirect business tax and nontax liability V00200 Indirect business tax and nontax liability	F06I	Federal Government gross investment, national defense F06I00 Federal Government gross investment, national defense
V003	Other value added V00300 Other value added	F07C	Federal Government consumption expenditures, nondefense F07C00 Federal Government consumption expenditures, nondefense
	FINAL USES		
F010	Personal consumption expenditures F01000 Personal consumption expenditures	F07I	Federal Government gross investment, nondefense F07I00 Federal Government gross investment, nondefense
F020	Private fixed investment F02000 Private fixed investment	F08C	State and local government consumption expenditures, education F08C00 State and local government consumption expenditures, education
F030	Change in private inventories F03000 Change in private inventories	F08I	State and local government gross investment, education F08I00 State and local government gross investment, education
F040	Exports of goods and services F04000 Exports of goods and services	F09C	State and local consumption expenditures, other F09C00 State and local consumption expenditures, other
F050	Imports of goods and services F05000 Exports of goods and services	F09I	State and local government gross investment, other F09I00 State and local government gross investment, other

**Appendix C. Input-Output Commodity Composition of NIPA Personal Consumption Expenditure Categories, in Producers' and Purchasers' Prices,
1997 Benchmark Input-Output Accounts**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Food purchased for off-premise consumption (n.d.)					Standard clothing issued to military personnel (n.d.)				
Total	296,590	11,654	182,726	490,970	Total	271	2	43	316
1110 Crop products	19,344	3,875	14,490	37,709	3140 Nonapparel textile products	8	(*)	1	9
1120 Animal products	2,582	30	949	3,561	3150 Apparel	217	2	36	255
1140 Fish and other nonfarm animals	2,029	53	1,025	3,106	3160 Leather and allied products	46	(*)	6	52
2123 Nonmetallic minerals	7	7	5	19	3399 Other miscellaneous manufactured products	(*)			(*)
3110 Food products	216,548	6,042	122,778	345,368					
3121 Beverage products	57,034	1,624	43,314	101,972	Cleaning, storage, and repair of clothing and shoes (s.)				
3251 Basic chemicals	192	8	96	296	Total	13,646			13,646
3259 Other chemical products	89	16	69	174	7210 Accommodations	242			242
4A00 Retail trade	2			2	811A Electronic, commercial, and household goods repair	1,208			1,208
S004 Scrap, used and secondhand goods	-1,237			-1,237	8120 Personal and laundry services	12,197			12,197
					Jewelry and watches (d.)				
Purchased meals and beverages (n.d.)					Total	19,255	103	21,227	40,585
Total	294,872			294,872	3345 Electronic instruments	2,214	29	2,565	4,808
4810 Air transportation	98			98	3399 Other miscellaneous manufactured products	17,892	74	18,478	36,443
4820 Rail transportation	52			52	S004 Scrap, used and secondhand goods	-850		184	-666
5120 Motion pictures and sound recordings	2,277			2,277	Other miscellaneous personal, clothing and jewelry services (s.)				
7130 Amusements, gambling, and recreation	198			198	Total	24,757			24,757
71A0 Performing arts, spectator sports, and museums	1,159			1,159	532A Consumer goods and general rentals	889			889
7220 Food and beverage services to customer order	291,088			291,088	811A Electronic, commercial, and household goods repair	1,469			1,469
					8120 Personal and laundry services	22,399			22,399
Food furnished to employees (including military) (n.d.)					Toilet articles and preparations (n.d.)				
Total	7,058	253	924	8,235	Total	27,540	872	22,828	51,240
1110 Crop products	218	48	54	319	3140 Nonapparel textile products	183	6	154	343
1120 Animal products	168	2	1	171	3150 Apparel	19	(*)	16	35
1140 Fish and other nonfarm animals	24	1	3	28	3256 Soaps, cleaning compounds, and toiletries	23,438	609	18,997	43,044
3110 Food products	6,514	202	844	7,560	3260 Plastics and rubber products	35	2	26	62
3121 Beverage products	134	1	22	157	3322 Cutlery and handtools	1,303	42	2,012	3,357
					3352 Household appliances	1,177	51	691	1,919
Food produced and consumed on farms (n.d.)					3359 Other electrical equipment and components	549	60	311	919
Total	529			529	3399 Other miscellaneous manufactured products	836	102	621	1,560
1110 Crop products	146			146	Barber shops, beauty parlors, and health clubs (s.)				
1120 Animal products	383			383	Total	31,246			31,246
					6100 Educational services	16			16
Tobacco products (n.d.)					7130 Amusements, gambling, and recreation	5,376			5,376
Total	32,257	222	21,293	53,772	7210 Accommodations	1,350			1,350
3122 Tobacco products	32,257	222	21,293	53,772	8120 Personal and laundry services	24,504			24,504
					Owner-occupied nonfarm dwellings—space rent (s.)				
Shoes (n.d.)					Total	585,524			585,524
Total	18,333	179	21,748	40,259	S008 Owner-occupied dwellings	585,524			585,524
3160 Leather and allied products	18,333	179	21,681	40,193	Tenant-occupied nonfarm dwellings—rent (s.)				
S004 Scrap, used and secondhand goods	-1		67	67	Total	186,088			186,088
					5310 Real estate	186,088			186,088
Women's and children's clothing and accessories except shoes (n.d.)					Rental value of farm dwellings (s.)				
Total	65,671	813	67,087	133,571	Total	10,090			10,090
3130 Yarn, fabrics, and other textile mill products	1,947	61	1,930	3,938	5310 Real estate	2,753			2,753
3140 Nonapparel textile products	225	8	205	438	S008 Owner-occupied dwellings	7,338			7,338
3150 Apparel	56,692	579	59,062	116,333	Other housing (s.)				
3160 Leather and allied products	3,879	50	2,840	6,768	Total	47,626			47,626
3222 Converted paper products	2,715	76	1,760	4,551	7210 Accommodations	47,626			47,626
3260 Plastics and rubber products	33	2	31	65	Furniture, including mattresses and bedsprings (d.)				
3399 Other miscellaneous manufactured products	242	25	274	541	Total	28,078	235	27,648	55,960
5111 Newspapers, books, and directories	182	13	193	389	3370 Furniture and related products	27,877	234	27,348	55,459
811A Electronic, commercial, and household goods repair	13			13	3391 Medical equipment and supplies	84	1	79	164
S004 Scrap, used and secondhand goods	-255		791	535	S004 Scrap, used and secondhand goods	117		220	337
Men's and boy's clothing and accessories except shoes (n.d.)									
Total	43,778	462	36,996	81,237					
3130 Yarn, fabrics, and other textile mill products	186	6	181	373					
3150 Apparel	42,780	433	35,939	79,152					
3160 Leather and allied products	893	8	538	1,439					
3260 Plastics and rubber products	21	1	16	38					
3399 Other miscellaneous manufactured products	128	14	126	269					
811A Electronic, commercial, and household goods repair	50			50					
S004 Scrap, used and secondhand goods	-280		196	-84					

See footnotes at end of table.

**Appendix C. Input-Output Commodity Composition of NIPA Personal Consumption Expenditure Categories, in Producers' and Purchasers' Prices,
1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Kitchen and other household appliances (d.)					S004 Scrap, used and secondhand goods			37	37
Total	16,198	631	9,485	26,314	Cleaning and polishing preparations, and miscellaneous household supplies and paper products (n.d.)				
331B Primary nonferrous metal products	57	1	29	87	Total	29,945	2,665	21,121	53,730
3332 Industrial machinery	284	(*)	166	450	2123 Nonmetallic minerals	33	39	25	97
3334 HVAC and commercial refrigeration equipment	1,601	47	983	2,631	3130 Yarn, fabrics, and other textile mill products	119	3	56	177
3352 Household appliances	14,201	582	8,197	22,980	3221 Pulp, paper, and paperboard	6,226	888	3,738	10,851
3359 Other electrical equipment and components	15	(*)	10	25	3222 Converted paper products	2,847	297	1,577	4,721
S004 Scrap, used and secondhand goods	40		102	141	3230 Printed products	2		1	3
China, glassware, tableware, and utensils (d.)					3251 Basic chemicals	29	2	14	45
Total	11,841	405	12,992	25,238	3253 Agricultural chemicals	1,296	62	925	2,283
3210 Wood products	279	11	351	641	3255 Paints, coatings, and adhesives	362	25	187	573
3260 Plastics and rubber products	4,995	143	5,165	10,303	3256 Soaps, cleaning compounds, and toiletries	13,219	973	9,915	24,106
3270 Nonmetallic mineral products	2,534	83	2,442	5,058	3259 Other chemical products	230	41	246	517
331A Primary ferrous metal products	424		306	730	3260 Plastics and rubber products	2,011	82	730	2,823
3315 Foundry products	6	5	22	33	3270 Nonmetallic mineral products	265	18	128	411
3321 Forgings and stampings	256	3	259	518	332B Other fabricated metal products	669	114	375	1,159
3322 Cutlery and handtools	1,710	21	1,794	3,526	3351 Electric lighting equipment	982	21	1,223	2,226
3324 Boilers, tanks, and shipping containers	122	4	108	234	3353 Electrical equipment	69	1	73	143
332B Other fabricated metal products	766	130	812	1,708	3359 Other electrical equipment and components	984	29	1,082	2,095
3399 Other miscellaneous manufactured products	730	5	1,522	2,258	3399 Other miscellaneous manufactured products	605	70	826	1,501
4A00 Retail trade	6			6	Stationary and writing supplies (n.d.)				
S004 Scrap, used and secondhand goods	13		211	224	Total	7,961	538	8,308	16,806
Other durable house furnishings (d.)					3222 Converted paper products	757	15	689	1,461
Total	25,549	943	28,807	55,299	3230 Printed products	715	17	747	1,479
3140 Nonapparel textile products	6,413	311	6,522	13,246	3255 Paints, coatings, and adhesives	697	130	863	1,691
3160 Leather and allied products	118	6	106	230	3260 Plastics and rubber products	5	(*)	6	11
3210 Wood products	802	36	908	1,745	3399 Other miscellaneous manufactured products	679	9	892	1,579
3230 Printed products	146		123	269	5111 Newspapers, books, and directories	5,107	367	5,101	10,575
3260 Plastics and rubber products	295	18	318	631	S004 Scrap, used and secondhand goods			10	10
3270 Nonmetallic mineral products	1,940	74	1,931	3,945	Electricity (s.)				
331A Primary ferrous metal products	193		144	337	Total	94,516			94,516
3322 Cutlery and handtools	1,542	17	2,185	3,743	2211 Electric power	94,516			94,516
3323 Architectural and structural metal products	74	(*)	64	138	Gas (s.)				
3324 Boilers, tanks, and shipping containers	1		1	2	Total	36,832			36,832
332B Other fabricated metal products	482	34	448	964	2212 Natural gas distribution	36,832			36,832
3331 Agriculture, construction, and mining machinery	619	9	761	1,389	Water and other sanitary services (s.)				
3332 Industrial machinery	273	2	324	599	Total	40,510			40,510
3333 Commercial and service industry machinery	219	4	530	753	2213 Water and sewage treatment	21,339			21,339
3335 Metalworking machinery	62	3	66	131	5620 Waste management and remediation services	8,732			8,732
3339 Other general purpose machinery	1,170	7	1,495	2,673	S002 State and local government enterprise services	10,439			10,439
334A Audio, video, and communications equipment	1,976	12	1,789	3,776	Fuel oil and coal (n.d.)				
3345 Electronic instruments	605	7	709	1,321	Total	7,553	475	5,316	13,344
3351 Electric lighting equipment	2,177	149	2,353	4,678	2121 Coal	57	26	67	150
3353 Electrical equipment	137	2	142	281	2213 Water and sewage treatment	89			89
3370 Furniture and related products	2,066	51	2,010	4,126	3210 Wood products	184	7	246	436
3399 Other miscellaneous manufactured products	2,649	204	3,275	6,128	3240 Petroleum and coal products	6,885	401	4,687	11,974
4A00 Retail trade	35			35	3251 Basic chemicals	338	41	315	695
S004 Scrap, used and secondhand goods	1,556		2,604	4,160	Telephone and telegraph (s.)				
Semidurable house furnishings (n.d.)					Total	104,842			104,842
Total	16,559	406	14,261	31,225	5133 Telecommunications	104,272			104,272
3130 Yarn, fabrics, and other textile mill products	740	26	606	1,372	7210 Accommodations	569			569
3140 Nonapparel textile products	11,393	141	9,640	21,173	Domestic service (s.)				
3150 Apparel	168	1	153	322	Total	14,788			14,788
3210 Wood products	292	11	323	625	561A All other administrative and support services	2,753			2,753
3230 Printed products	1,571	12	1,102	2,684	8140 Private household services	12,035			12,035
3260 Plastics and rubber products	394	11	335	741					
3270 Nonmetallic mineral products	146	2	126	274					
331A Primary ferrous metal products	88	9	89	186					
332B Other fabricated metal products	178	6	207	391					
3351 Electric lighting equipment	46	4	43	92					
3352 Household appliances	79	4	69	151					
336A Motor vehicle bodies, trailers, and parts	7		5	12					
3399 Other miscellaneous manufactured products	1,457	180	1,529	3,166					

See footnotes at end of table.

**Appendix C. Input-Output Commodity Composition of NIPA Personal Consumption Expenditure Categories, in Producers' and Purchasers' Prices,
1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Other household operation (s.)					Workers' compensation insurance (s.)				
Total	44,335			44,335	Total				9,619
4810 Air transportation	20			20	5240 Insurance carriers and related services....	9,619			9,619
4830 Water transportation	22			22	Brokerage charges and investment counseling (s.)				
4840 Truck transportation	9,044			9,044	Total				59,736
4930 Warehousing and storage.....	452			452	52A0 Monetary oversight and credit				2,064
5240 Insurance carriers and related services....	4,691			4,691	5230 Securities, commodity contracts, investments	57,672			57,672
5310 Real estate.....	1,559			1,559	Bank service charges, trust services, and safe deposit box rental (s.)				
532A Consumer goods and general rentals	4,653			4,653	Total				45,395
5414 Specialized design services	2,506			2,506	52A0 Monetary oversight and credit				44,739
561A All other administrative and support services.....	8,567			8,567	5230 Securities, commodity contracts, investments	656			656
811A Electronic, commercial, and household goods repair.....	6,023			6,023	Services furnished without payment by financial intermediaries except life insurance carriers (s.)				
S001 Federal Government enterprise services....	6,783			6,783	Total				196,885
S004 Scrap, used and secondhand goods.....	16			16	52A0 Monetary oversight and credit				159,365
Drug preparations and sundries (n.d.)					Expense of handling life insurance and pension plans (s.)				
Total	65,740	529	44,997	111,266	Total				93,155
3221 Pulp, paper, and paperboard	278	40	256	574	5240 Insurance carriers and related services....	93,155			93,155
3222 Converted paper products	2,086	58	1,396	3,541	5250 Funds, trusts, and other financial vehicles	30,389			30,389
3240 Petroleum and coal products	19	1	14	34	Legal services (s.)				
3251 Basic chemicals.....	157	9	85	251	Total				53,747
3254 Pharmaceuticals and medicines	60,783	380	41,790	102,953	5411 Legal services	53,747			53,747
3260 Plastics and rubber products	489	29	345	863	Funeral and burial expenses (s.)				
3351 Electric lighting equipment.....	2		1	3	Total				12,296
3352 Household appliances	8	(*)	6	14	3270 Nonmetallic mineral products	714	52	654	13,001
3391 Medical equipment and supplies	1,918	13	1,104	3,035	332B Other fabricated metal products.....	43	45	605	1,364
Ophthalmic products and orthopedic appliances (d.)					Other personal business (s.)				
Total	6,617	43	11,936	18,596	Total				26,469
3345 Electronic instruments	763	5	1,279	2,047	3230 Printed products	39			39
3359 Other electrical equipment and components.....	221	7	349	577	5133 Telecommunications	1,104			1,104
3391 Medical equipment and supplies	5,615	31	10,307	15,953	52A0 Monetary oversight and credit				1,036
S004 Scrap, used and secondhand goods.....	19		1	20	intermediation.....	1,036			1,036
Physicians (s.)					Net purchases of used autos (d.)				
Total	198,208			198,208	Total				26,063
6210 Ambulatory health care services	198,208			198,208	S004 Scrap, used and secondhand goods	26,063			24,195
Dentists (s.)					Other motor vehicles (d.)				
Total	50,931			50,931	Total				80,220
6210 Ambulatory health care services	50,931			50,931	3361 Motor vehicles	63,844	1,551	28,864	110,635
Other professional medical services (s.)					Income loss insurance (s.)				
Total	141,906			141,906	Total				1,172
532A Consumer goods and general rentals	1,510			1,510	5240 Insurance carriers and related services....	1,172			1,172
5414 Specialized design services	17			17	See footnotes at end of table.				
6210 Ambulatory health care services	140,380			140,380					
Nonprofit hospitals (s.)									
Total	223,191			223,191					
6220 Hospital care	223,191			223,191					
Proprietary hospitals (s.)									
Total	40,766			40,766					
6220 Hospital care	40,766			40,766					
Government hospitals (s.)									
Total	73,864			73,864					
6220 Hospital care	73,864			73,864					
Nursing homes (s.)									
Total	78,236			78,236					
6230 Nursing and residential care.....	78,236			78,236					
Medical care and hospitalization insurance (s.)									
Total	48,481			48,481					
5240 Insurance carriers and related services....	48,481			48,481					
Income loss insurance (s.)									
Total	1,172			1,172					
5240 Insurance carriers and related services....	1,172			1,172					

See footnotes at end of table.

**Appendix C. Input-Output Commodity Composition of NIPA Personal Consumption Expenditure Categories, in Producers' and Purchasers' Prices,
1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Tires, tubes, accessories, and other parts (d.)					Magazines, newspapers, and sheet music (n.d.)				
Total	16,665	3,399	21,475	41,539	Total	22,021	1,081	7,666	30,768
3140 Nonapparel textile products.....	13	(*)	14	28	3230 Printed products.....	84	(*)	19	102
3260 Plastics and rubber products.....	6,621	2,940	9,000	18,560	5111 Newspapers, books, and directories.....	21,883	1,081	7,644	30,608
3270 Nonmetallic mineral products.....	24	1	25	50	5120 Motion pictures and sound recordings.....	54			54
331A Primary ferrous metal products.....	21		17	38	S004 Scrap, used and secondhand goods.....			3	3
332B Other fabricated metal products.....	104	7	95	206					
334A Audio, video, and communications equipment.....	1,452	17	1,597	3,066	Nondurable toys and sport supplies (n.d.)				
3344 Semiconductors and electronic components.....	7		8	15	Total	22,484	549	24,967	48,000
3351 Electric lighting equipment.....	157	3	180	340	1110 Crop products.....	462	71	503	1,036
3359 Other electrical equipment and components.....	1,532	167	1,672	3,371	1120 Animal products.....	48	3	47	97
336A Motor vehicle bodies, trailers, and parts..	8,363	261	7,772	16,396	3140 Nonapparel textile products.....	83	4	122	208
3399 Other miscellaneous manufactured products.....	133	2	124	260	3222 Converted paper products.....	195	19	219	434
S004 Scrap, used and secondhand goods.....	-1,763		973	-790	3230 Printed products.....	168	(*)	136	305
					3259 Other chemical products.....	2,075	109	1,760	3,944
Repair, greasing, washing, parking, storage, rental, and leasing (s.)					3260 Plastics and rubber products.....	95	5	86	186
Total	151,926			151,926	332A Ordnance and accessories.....	600	10	480	1,091
48A0 Sightseeing transportation and transportation support.....	829			829	3351 Electric lighting equipment.....	45	1	35	80
5321 Automotive equipment rental and leasing	40,507			40,507	3353 Electrical equipment.....	18	1	14	32
6100 Educational services.....	80			80	3359 Other electrical equipment and components.....	361	5	395	760
71A0 Performing arts, spectator sports, and museums.....	20			20	3399 Other miscellaneous manufactured products.....	18,312	320	21,119	39,752
8111 Automotive repair and maintenance.....	105,396			105,396	811A Electronic, commercial, and household goods repair.....	23			23
8120 Personal and laundry services.....	5,095			5,095	S004 Scrap, used and secondhand goods.....	(*)		52	52
					Wheel goods, sports and photographic equipment, boats, and pleasure aircraft (d.)				
Gasoline and oil (n.d.)					Total	25,054	370	19,202	44,626
Total	51,731	3,680	80,185	135,596	3140 Nonapparel textile products.....	714	14	634	1,362
3240 Petroleum and coal products.....	51,731	3,680	80,185	135,596	3160 Leather and allied products.....	337	17	310	663
					3260 Plastics and rubber products.....	236	95	269	600
Bridge, tunnel, ferry, and road tolls (s.)					331A Primary ferrous metal products.....	13		9	22
Total	4,367			4,367	3322 Cutlery and handtools.....	355	12	615	981
S002 State and local government enterprise services.....	4,367			4,367	332A Ordnance and accessories.....	858	33	696	1,587
					332B Other fabricated metal products.....	53	1	22	77
Motor vehicle insurance (s.)					3333 Commercial and service industry machinery.....	1,776	14	1,340	3,130
Total	35,781			35,781	3336 Turbine and power transmission equipment.....	521	(*)	199	720
5240 Insurance carriers and related services....	35,781			35,781	3345 Electronic instruments.....	27	(*)	13	40
					3359 Other electrical equipment and components.....	12	1	4	18
Mass transit systems (s.)					336A Motor vehicle bodies, trailers, and parts..	373	7	165	545
Total	7,839			7,839	3364 Aerospace products and part.....	695	3	139	837
4820 Rail transportation.....	70			70	336B Other transportation equipment.....	8,891	101	5,647	14,638
4850 Transit and ground passenger transportation.....	7,769			7,769	3399 Other miscellaneous manufactured products.....	7,066	73	8,163	15,302
					811A Electronic, commercial, and household goods repair.....	3,147			3,147
Taxicab (s.)					S004 Scrap, used and secondhand goods.....	-22		978	956
Total	3,258			3,258	Video and audio goods, including musical instruments (d.)				
4850 Transit and ground passenger transportation.....	3,258			3,258	Total	32,677	304	25,497	58,478
					3160 Leather and allied products.....	99	1	93	192
Railway (s.)					334A Audio, video, and communications equipment.....	19,180	223	11,216	30,619
Total	420			420	3344 Semiconductors and electronic components.....	278		160	437
4820 Rail transportation.....	420			420	3346 Magnetic media products.....	415	5	219	640
					3359 Other electrical equipment and components.....	1,126	28	639	1,793
Bus (s.)					3399 Other miscellaneous manufactured products.....	1,306	27	1,571	2,904
Total	2,223			2,223	5120 Motion pictures and sound recordings.....	9,697	19	11,501	21,217
4850 Transit and ground passenger transportation.....	2,223			2,223	S004 Scrap, used and secondhand goods.....	577		99	676
					Computers, peripherals, and software (d.)				
Airline (s.)					Total	22,000	190	11,280	33,470
Total	29,836			29,836	3341 Computer and peripheral equipment.....	16,207	187	9,289	25,682
4810 Air transportation.....	29,836			29,836	3344 Semiconductors and electronic components.....	148		60	208
					5112 Software.....	5,591	3	1,913	7,507
Other purchased intercity transportation (s.)					S004 Scrap, used and secondhand goods.....	54		18	72
Total	7,049			7,049	Radio and television repair (s.)				
4830 Water transportation.....	227			227	Total	2,850			2,850
4850 Transit and ground passenger transportation.....	1,160			1,160	532A Consumer goods and general rentals.....	304			304
5615 Travel arrangement and reservation services.....	5,662			5,662	811A Electronic, commercial, and household goods repair.....	2,545			2,545
Books and maps (d.)									
Total	13,508	394	13,031	26,933					
3230 Printed products.....	14		12	27					
5111 Newspapers, books, and directories.....	12,348	394	12,232	24,973					
S004 Scrap, used and secondhand goods.....	1,146		787	1,933					

See footnotes at end of table.

**Appendix C. Input-Output Commodity Composition of NIPA Personal Consumption Expenditure Categories, in Producers' and Purchasers' Prices,
1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Flowers, seeds, and potted plants (n.d.)					6100 Educational services	3,645			3,645
Total	7,113	1,048	7,423	15,585	7130 Amusements, gambling, and recreation ..	10,430			10,430
1110 Crop products	6,796	1,048	7,423	15,268	71A0 Performing arts, spectator sports, and museums.....	1,409			1,409
561A All other administrative and support services.....	317			317	7210 Accommodations	3,635			3,635
Motion picture theaters (s.)					811A Electronic, commercial, and household goods repair	28			28
Total	6,608			6,608	8120 Personal and laundry services	8,378			8,378
4810 Air transportation	13			13	813B Civic, social, professional and similar organizations	123			123
5120 Motion pictures and sound recordings.....	6,371			6,371	S002 State and local government enterprise services	14,247			14,247
6100 Educational services.....	225			225	S004 Scrap, used and secondhand goods	202	266		468
Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics) (s.)					Higher education (s.)				
Total	9,173			9,173	Total	69,880			69,880
5615 Travel arrangement and reservation services.....	811			811	6100 Educational services	69,880			69,880
6100 Educational services.....	444			444	Nursery, elementary, and secondary schools (s.)				
71A0 Performing arts, spectator sports, and museums.....	7,918			7,918	Total	31,488			31,488
Spectator sports (s.)					6100 Educational services	22,871			22,871
Total	10,108			10,108	6240 Social assistance.....	8,617			8,617
5615 Travel arrangement and reservation services.....	488			488	Other private education and research (s.)				
6100 Educational services.....	3,550			3,550	Total	30,432			30,432
7130 Amusements, gambling, and recreation ...	4			4	5417 Scientific research and development services	8,649			8,649
71A0 Performing arts, spectator sports, and museums	6,066			6,066	6100 Educational services	20,200			20,200
Clubs and fraternal organizations (s.)					813A Religious, grantmaking, and social advocacy.....	1,584			1,584
Total	16,285			16,285	Religious and welfare activities (s.)				
7130 Amusements, gambling, and recreation ...	8,614			8,614	Total	132,279			132,279
813B Civic, social, professional and similar organizations	7,671			7,671	5141 Information services	2,000			2,000
Commercial participant amusements (s.)					6230 Nursing and residential care.....	14,341			14,341
Total	59,422			59,422	6240 Social assistance.....	55,939			55,939
4830 Water transportation	329			329	71A0 Performing arts, spectator sports, and museums.....	4,204			4,204
4850 Transit and ground passenger transportation	2,397			2,397	813A Religious, grantmaking, and social advocacy.....	52,253			52,253
48A0 Sightseeing transportation and transportation support	2,293			2,293	813B Civic, social, professional and similar organizations	3,543			3,543
5240 Insurance carriers and related services	40			40	Foreign travel by U.S. residents (s.)				
5324 Machinery and equipment rental and leasing	21			21	Total	64,694			64,694
532A Consumer goods and general rentals	910			910	4810 Air transportation	19,381			19,381
6100 Educational services.....	102			102	4830 Water transportation	4,266			4,266
7130 Amusements, gambling, and recreation ...	53,331			53,331	S003 Noncomparable imports.....	41,047			41,047
Pari-mutuel net receipts (s.)					Expenditures abroad by U.S. residents (n.d.)				
Total	4,018			4,018	Total	4,087			4,087
7130 Amusements, gambling, and recreation ...	1,499			1,499	S003 Noncomparable imports.....	4,087			4,087
71A0 Performing arts, spectator sports, and museums.....	2,518			2,518	Less: Expenditures in the United States by nonresidents (s.)				
Other recreational expenditures (s.)					Total	-88,883			-88,883
Total	105,754	76	775	106,605	S006 Rest of the world adjustment to final uses	-88,883			-88,883
1120 Animal products	1,293	76	508	1,877	Less: Personal remittances in-kind to nonresidents (n.d.)				
1140 Fish and other nonfarm animals	2,179			2,179	Total	-1,129			-1,129
1150 Agriculture and forestry support services.....	459			459	S006 Rest of the world adjustment to final uses	-1,129			-1,129
5131 Radio and television broadcasting.....	2,254			2,254	Total personal consumption expenditures.....	4,695,709	35,558	840,319	5,571,584
5132 Cable networks and program distribution	30,131			30,131	Total durable commodities (d.)	389,083	10,003	271,003	670,088
5141 Information services	4,124			4,124	Total nondurable commodities (n.d.)	1,020,963	25,427	567,888	1,614,276
5324 Machinery and equipment rental and leasing	71			71	Total services (s.).....	3,285,663	128	1,428	3,287,219
532A Consumer goods and general rentals	8,423			8,423					
5419 Other professional and technical services	14,725			14,725					

* Less than +/- \$500,000.

NOTE. Consumer durable goods are designated (d.), nondurable goods (n.d.), and services (s.).

**Appendix D. Input-Output Commodity Composition of NIPA Private Equipment and Software Expenditure Categories,
in Producers' and Purchasers' Prices, 1997 Benchmark Input-Output Accounts**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Computers and peripheral equipment					3336 Turbine and power transmission equipment	3,423	34	79	3,535
Total	63,281	722	17,847	81,850	5413 Architectural and engineering services	219			219
3341 Computer and peripheral equipment	59,374	722	17,514	77,611	Metalworking machinery				
5415 Computer systems design and related services	3,987			3,987	Total	26,991	485	2,286	29,762
S004 Scrap, used and secondhand goods	-80		333	253	3335 Metalworking machinery	25,347	485	2,123	27,955
Communication equipment					5413 Architectural and engineering services	1,589			1,589
Total	72,908	413	6,787	80,107	S004 Scrap, used and secondhand goods	55		164	219
3341 Computer and peripheral equipment	59	3	7	70	Special industrial machinery, n.e.c.				
334A Audio, video, and communications equipment	52,196	277	5,472	57,945	Total	28,915	439	3,596	32,950
3345 Electronic instruments	10,750	128	1,281	12,159	3260 Plastics and rubber products	205	10	20	235
3359 Other electrical equipment and components	245	4	26	275	3322 Cutlery and handtools	45	(*)	13	58
336A Aerospace products and parts	81			81	3332 Industrial machinery	26,361	420	3,325	30,106
5133 Telecommunications	5,532			5,532	3333 Commercial and service industry machinery	480	9	146	635
5413 Architectural and engineering services	4,092			4,092	5413 Architectural and engineering services	1,818			1,818
S004 Scrap, used and secondhand goods	-47			-47	S004 Scrap, used and secondhand goods	6		92	98
Software					General industrial, including materials handling, equipment				
Total	96,245	19	1,725	97,988	Total	35,329	697	8,363	44,389
5112 Software	31,736	19	1,725	33,479	3331 Agriculture, construction, and mining machinery	46	2	8	56
5415 Computer systems design and related services	63,511			63,511	3334 HVAC and commercial refrigeration equipment	1,363	42	151	1,556
S003 Noncomparable imports	998			998	3339 Other general purpose machinery	31,655	652	7,047	39,355
Photocopy and related equipment					5413 Architectural and engineering services	2,332			2,332
Total	9,411	63	3,231	12,705	S004 Scrap, used and secondhand goods	-67		1,158	1,091
3333 Commercial and service industry machinery	8,707	63	3,231	12,001	Electrical transmission, distribution, and industrial apparatus				
5413 Architectural and engineering services	639			639	Total	17,399	283	1,676	19,358
S004 Scrap, used and secondhand goods	64			64	3345 Electronic instruments	6,859	48	86	6,994
Nonmedical instruments					3353 Electrical equipment	7,161	203	1,064	8,428
Total	14,772	86	1,753	16,610	3359 Other electrical equipment and components	2,345	32	525	2,902
3345 Electronic instruments	12,157	54	1,573	13,785	5413 Architectural and engineering services	1,035			1,035
3391 Medical equipment and supplies	1,692	31	179	1,902	Light trucks				
5413 Architectural and engineering services	868			868	Total	51,509	1,354	9,026	61,889
S004 Scrap, used and secondhand goods	55			55	3361 Motor vehicles	61,586	1,354	6,651	69,591
Office and accounting equipment					S004 Scrap, used and secondhand goods	-10,077		2,375	-7,702
Total	4,713	61	1,015	5,789	Other trucks, buses, and truck trailers				
3333 Commercial and service industry machinery	2,202	38	651	2,891	Total	21,095	375	2,572	24,042
3341 Computer and peripheral equipment	2,019	22	364	2,405	3361 Motor vehicles	13,836	285	1,646	15,767
5413 Architectural and engineering services	425			425	336A Motor vehicle bodies, trailers, and parts	7,292	91	842	8,224
S004 Scrap, used and secondhand goods	68			68	S004 Scrap, used and secondhand goods	-33		84	51
Medical equipment and instruments					Autos				
Total	21,985	145	4,404	26,534	Total	34,997	1,462	8,044	44,503
3345 Electronic instruments	8,553	64	1,484	10,101	3361 Motor vehicles	66,539	1,462	7,148	75,149
3391 Medical equipment and supplies	12,033	80	2,920	15,033	S004 Scrap, used and secondhand goods	-31,542		896	-30,646
5413 Architectural and engineering services	1,418			1,418	Aircraft				
S004 Scrap, used and secondhand goods	-19			-19	Total	14,054	66	1,292	15,412
Fabricated metal products					3345 Electronic instruments	529	6	63	598
Total	9,935	165	502	10,602	336A Motor vehicle bodies, trailers, and parts	363	3	6	372
2122 Metal ores	39	7	(*)	46	3364 Aerospace products and parts	13,837	57	185	14,079
3251 Basic chemicals	2,040			2,040	S004 Scrap, used and secondhand goods	-675		1,039	364
3322 Cutlery and handtools	244	3	66	313	Ships and boats				
3323 Architectural and structural metal products	464	3	28	495	Total	2,491	6	213	2,711
3324 Boilers, tanks, and shipping containers	4,061	46	76	4,184	336B Other transportation equipment	2,468	6	155	2,629
332B Other fabricated metal products	2,506	106	331	2,943	S004 Scrap, used and secondhand goods	24		58	82
3334 HVAC and commercial refrigeration equipment	8	(*)	1	10	Railroad equipment				
3370 Furniture and related products	10	1	(*)	11	Total	5,641	81	99	5,821
5413 Architectural and engineering services	562			562	336B Other transportation equipment	5,291	81	99	5,471
Engines and turbines					5413 Architectural and engineering services	308			308
Total	3,641	34	79	3,754	S004 Scrap, used and secondhand goods	42			42

* Less than \$500,000.

**Appendix D. Input-Output Commodity Composition of NIPA Private Equipment and Software Expenditure Categories,
in Producers' and Purchasers' Prices, 1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA description and I-O descriptions	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
Mining and oilfield machinery					Furniture and fixtures				
Total.....	2,545	152	932	3,630	Total.....	23,304	333	6,515	30,153
2130 Mining support services.....	110			110	3370 Furniture and related products.....	21,802	333	6,325	28,460
3331 Agriculture, construction, and mining machinery.....	2,948	147	634	3,729	3399 Other miscellaneous manufactured products.....			3	15
3339 Other general purpose machinery.....	263	5	47	315	5413 Architectural and engineering services.....	1,564			1,564
5413 Architectural and engineering services.....	246			246	S004 Scrap, used and secondhand goods.....	-74		188	114
S004 Scrap, used and secondhand goods.....	-1,021		252	-770	Other nonresidential equipment				
Agricultural machinery					Total.....	19,438	1,162	8,436	29,037
Total.....	12,071	436	3,796	16,303	3130 Yarn, fabrics, and other textile mill products.....	1		1	2
3331 Agriculture, construction, and mining machinery.....	11,707	436	2,723	14,866	3140 Nonapparel textile products.....	2,061	105	1,233	3,399
5413 Architectural and engineering services.....	539			539	3210 Wood products.....	(*)			(*)
S004 Scrap, used and secondhand goods.....	-175		1,072	897	3260 Plastics and rubber products.....	36	2	24	61
Construction machinery					3322 Cutlery and handtools.....	14	(*)	18	32
Total.....	15,855	792	2,990	19,637	3331 Agriculture, construction, and mining machinery.....	5,502	106	5,309	10,918
3331 Agriculture, construction, and mining machinery.....	13,509	714	2,260	16,483	336A Motor vehicle bodies, trailers, and parts.....	620	13	185	818
3339 Other general purpose machinery.....	1,664	79	173	1,915	336B Other transportation equipment.....	1,654	64	563	2,281
5413 Architectural and engineering services.....	877			877	3399 Other miscellaneous manufactured products.....	8,231	873	1,096	10,200
S004 Scrap, used and secondhand goods.....	-195		558	362	5413 Architectural and engineering services.....	1,374			1,374
Electrical equipment, n.e.c.					S004 Scrap, used and secondhand goods.....	-56		8	-48
Total.....	3,060	92	499	3,652	Less: sale of equipment scrap, excluding autos				
3346 Magnetic media products.....	100	1	3	104	Total.....	-4,774			-4,774
3351 Electric lighting equipment.....	468	17	72	556	S004 Scrap, used and secondhand goods.....	-4,774			-4,774
3352 Household appliances.....	592	17	81	690	Residential equipment				
3359 Other electrical equipment and components.....	1,724	57	343	2,124	Total.....	4,056	166	1,993	6,216
5413 Architectural and engineering services.....	192			192	3140 Nonapparel textile products.....	843	43	505	1,391
S004 Scrap, used and secondhand goods.....	-14			-14	3260 Plastics and rubber products.....	25	1	134	159
Service industry machinery					334A Audio, video, and communications equipment.....	138	2	59	199
Total.....	12,072	257	2,628	14,957	3352 Household appliances.....	2,794	118	1,212	4,124
3333 Commercial and service industry machinery.....	5,954	116	1,695	7,766	3370 Furniture and related products.....	256	2	84	343
3334 HVAC and commercial refrigeration equipment.....	4,393	61	756	5,210	Total equipment and software.....	622,939	10,346	102,298	735,583
3339 Other general purpose machinery.....	959	80	177	1,215	Total nonresidential equipment and software.....	618,883	10,180	100,305	729,367
5413 Architectural and engineering services.....	727			727	Total residential equipment.....	4,056	166	1,993	6,216
S004 Scrap, used and secondhand goods.....	39			39					

* Less than \$500,000.

Appendix E. Relationship of Exports and Imports in the Input-Output Accounts to the National Income and Product Accounts, 1997

[Millions of dollars]

	Total	Goods	Services
Total exports, NIPAs.....	966,430	688,937	277,493
Less:			
U.S. merchandise returned.....	20,469	20,469	
Reexports.....	44,036	44,036	
Other transactions.....	276		276
Territorial adjustment differences ¹	1,105		1,105
Statistical differences, I-O ²	1,960	1,336	624
Plus:			
Exports identified in Census documents ³		10,494	-10,494
Equals: Exports, I-O.....	898,585	633,590	264,995
Total imports, NIPAs.....	1,055,757	885,058	170,699
Less:			
U.S. merchandise returned.....	20,469	20,469	
Reexports.....	44,036	44,036	
Other transactions.....	276		276
Territorial adjustment differences ¹	1,104		1,104
Statistical differences, I-O ²	125	-119	244
Plus:			
Imports identified in Census documents ³		451	-451
Equals: Imports, I-O.....	989,747	821,123	168,624

1. The NIPA and I-O accounts make a territorial adjustment to U.S. ITA exports and imports of services, based on Puerto Rico balance-of-payments accounts data. Differences between the NIPA and I-O territorial adjustments is a result of NIPA netting to parts of data. NIPA and I-O net exports for adjustment are identical.

2. Consists of statistical revisions in the ITA's that had not yet been incorporated in the NIPAs at the time of the release of the 1997 benchmark I-O accounts in late 2002.

3. Exports and imports of goods in the I-O accounts include Census identified military merchandise. The NIPAs include military merchandise in exports and imports of services, consistent with the U.S. ITA's inclusion of these exports in transfers under military agency contracts and in direct defense expenditures.

NIPA National income and product accounts
I-O Input-output accounts
ITA International transactions accounts

**Appendix F. Intermediate Inputs, Value Added, and Industry Output Before and After Redefinitions,
1997 Benchmark Input-Output Accounts**

[Millions of dollars]

Industry code	Industry description	Before redefinitions ¹			After redefinitions ²			Difference		
		Intermediate inputs	Value added	Industry output	Intermediate inputs	Value added	Industry output	Intermediate inputs	Value added	Industry output
		(1)	(2)	(3)	(4)	(5)	(6)	(7)=(1)-(4)	(8)=(2)-(5)	(9)=(3)-(6)
1110	Crop production.....	69,146	65,788	134,934	69,146	65,765	134,911	(*)	23	23
1120	Animal production.....	89,415	15,692	105,107	89,415	15,658	105,073	0	34	34
1130	Forestry and logging.....	13,799	14,317	28,115	13,799	13,854	27,652	0	463	463
1140	Fishing, hunting and trapping.....	2,705	3,343	6,048	2,706	3,343	6,048	(*)	(*)	0
1150	Agriculture and forestry support activities.....	5,826	6,510	12,335	5,789	6,807	12,596	37	-298	-261
2110	Oil and gas extraction.....	54,838	36,736	91,575	54,747	36,586	91,333	91	151	242
2121	Coal mining.....	12,546	10,862	23,408	12,544	10,772	23,316	2	90	92
2122	Metal ores mining.....	6,369	4,922	11,291	6,367	4,860	11,227	2	62	64
2123	Nonmetallic mineral mining and quarrying.....	7,800	9,382	17,181	7,798	9,363	17,161	2	19	20
2130	Support activities for mining.....	14,368	10,831	25,198	14,365	10,589	24,954	3	241	244
2211	Power generation and supply.....	85,670	139,855	225,526	79,964	132,997	212,961	5,706	6,859	12,565
2212	Natural gas distribution.....	37,277	19,332	56,609	35,867	17,547	53,413	1,410	1,785	3,196
2213	Water, sewage and other systems.....	2,137	3,986	6,123	2,067	3,837	5,904	70	149	220
2301	New residential construction.....	136,837	94,163	231,000	165,540	96,242	261,781	-28,703	-2,079	-30,782
2302	New nonresidential construction.....	177,862	160,283	338,145	190,895	178,775	369,670	-13,033	-18,492	-31,524
2303	Maintenance and repair construction.....	54,638	46,427	101,065	73,795	48,845	122,640	-19,157	-2,418	-21,575
3110	Food manufacturing.....	309,485	101,037	410,522	317,165	100,969	418,134	-7,680	68	-7,612
3121	Beverage manufacturing.....	40,657	26,358	67,015	40,653	25,381	66,034	5	977	981
3122	Tobacco manufacturing.....	18,383	23,229	41,612	18,686	23,003	41,689	-304	226	-78
3130	Textile mills.....	43,325	15,016	58,341	43,315	14,913	58,228	10	103	114
3140	Textile product mills.....	20,747	10,281	31,028	20,740	10,152	30,892	7	129	136
3150	Apparel manufacturing.....	42,870	23,970	66,840	43,073	23,097	66,170	-203	873	670
3160	Leather and allied product manufacturing.....	6,936	3,395	10,331	6,935	3,041	9,977	1	353	354
3210	Wood product manufacturing.....	62,909	25,756	88,665	62,902	25,118	88,019	8	638	646
3221	Pulp, paper, and paperboard mills.....	46,759	24,672	71,431	46,746	24,506	71,252	13	166	179
3222	Converted paper product manufacturing.....	53,522	23,751	77,273	53,511	23,158	76,669	11	593	604
3230	Printing and related support activities.....	54,956	42,720	97,676	54,874	41,394	96,269	81	1,326	1,407
3240	Petroleum and coal products manufacturing.....	154,598	19,796	174,393	154,534	19,184	173,718	64	612	676
3251	Basic chemical manufacturing.....	83,007	30,912	113,919	82,984	30,099	113,083	23	813	836
3252	Resin, rubber, and artificial fibers manufacturing.....	47,528	16,669	64,197	47,517	16,542	64,060	11	127	138
3253	Agricultural chemical manufacturing.....	16,089	7,920	24,009	16,087	7,640	23,727	2	280	282
3254	Pharmaceutical and medicine manufacturing.....	52,218	37,526	89,743	52,131	32,742	84,873	87	4,784	4,871
3255	Paint, coating, and adhesive manufacturing.....	17,194	8,565	25,759	17,191	7,926	25,117	2	639	642
3256	Soap, cleaning compound, and toiletry manufacturing.....	29,785	23,215	53,001	29,769	20,631	50,400	16	2,584	2,600
3259	Other chemical product and preparation manufacturing.....	24,198	13,718	37,916	24,189	13,316	37,505	8	402	411
3260	Plastics and rubber products manufacturing.....	97,063	60,535	157,597	97,012	59,097	156,109	51	1,438	1,488
3270	Nonmetallic mineral product manufacturing.....	46,130	39,768	85,898	46,123	38,894	85,017	7	875	882
331A	Iron and steel mills and forming steel products.....	57,563	19,766	77,329	57,476	19,500	76,975	87	267	354
331B	Nonferrous metal production and processing.....	51,486	10,796	62,282	51,479	10,587	62,065	8	150	217
3315	Foundries.....	17,088	11,680	28,768	17,084	11,531	28,615	4	210	154
3321	Forging and stamping.....	13,707	10,385	24,092	13,703	10,216	23,919	3	169	172
3322	Cutlery and handtool manufacturing.....	5,327	5,741	11,068	5,325	5,408	10,733	2	333	335
3323	Architectural and structural metals manufacturing.....	28,648	23,290	51,938	28,637	22,734	51,371	11	557	567
3324	Boiler, tank, and shipping container manufacturing.....	15,312	7,271	22,583	15,310	7,136	22,446	2	134	136
332A	Ordinance and accessories manufacturing.....	2,625	2,987	5,612	2,620	2,958	5,578	5	30	35
332B	Other fabricated metal product manufacturing.....	61,869	61,954	123,823	61,833	60,159	121,993	36	1,794	1,830
3331	Agriculture, construction, and mining machinery.....	34,991	17,246	52,237	34,975	16,512	51,488	16	733	749
3332	Industrial machinery manufacturing.....	21,199	13,935	35,133	21,183	12,940	34,123	16	994	1,011
3333	Commercial and service industry machinery.....	16,268	8,443	24,711	16,272	8,149	24,421	-4	294	290
3334	HVAC and commercial refrigeration equipment.....	19,641	10,053	29,694	19,630	9,787	29,417	11	266	277
3335	Metalworking machinery manufacturing.....	14,978	14,865	29,843	14,944	14,403	29,347	35	462	497
3336	Turbine and power transmission equipment manufacturing.....	18,090	11,234	29,323	18,081	10,960	29,040	9	274	283
3339	Other general purpose machinery manufacturing.....	34,749	24,818	59,568	34,732	24,012	58,744	17	806	824
3341	Computer and peripheral equipment manufacturing.....	83,329	18,490	101,819	82,965	15,862	98,826	364	2,629	2,993
334A	Audio, video, and communications equipment manufacturing.....	56,283	33,833	90,116	56,334	32,205	88,538	-51	1,629	1,578
3344	Semiconductor and electronic component manufacturing.....	70,102	67,178	137,280	69,887	66,064	135,951	215	1,114	1,329
3345	Electronic instrument manufacturing.....	47,734	39,821	87,554	47,606	38,709	86,315	128	1,112	1,239
3346	Magnetic media manufacturing and reproducing.....	5,574	4,097	9,671	5,568	4,015	9,583	6	81	88
3351	Electric lighting equipment manufacturing.....	7,575	4,709	12,284	7,572	4,541	12,113	2	168	170
3352	Household appliance manufacturing.....	14,531	6,101	20,632	14,522	5,834	20,355	9	268	277
3353	Electrical equipment manufacturing.....	21,684	13,364	35,048	21,659	12,875	34,534	26	489	514
3359	Other electrical equipment and component manufacturing.....	25,365	15,787	41,152	25,354	15,430	40,784	10	357	368
3361	Motor vehicle manufacturing.....	185,864	34,540	220,404	185,817	34,388	220,205	46	152	199
336A	Motor vehicle body, trailer, and parts manufacturing.....	142,021	55,196	197,216	142,040	53,752	195,792	-19	1,444	1,425
3364	Aerospace product and parts manufacturing.....	76,012	41,324	117,336	75,773	40,412	116,185	238	913	1,151
336B	Other transportation equipment manufacturing.....	21,351	11,791	33,142	21,346	11,498	32,843	6	293	299
3370	Furniture and related product manufacturing.....	36,140	27,431	63,571	36,126	26,588	62,714	14	842	857
3391	Medical equipment and supplies manufacturing.....	21,086	23,018	44,104	21,047	21,542	42,588	39	1,477	1,516
3399	Other miscellaneous manufacturing.....	34,331	23,856	58,187	36,499	22,714	59,212	-2,168	1,143	-1,025

**Appendix F. Intermediate Inputs, Value Added, and Industry Output Before and After Redefinitions,
1997 Benchmark Input-Output Accounts—Continued**

[Millions of dollars]

Industry code	Industry description	Before redefinitions ¹			After redefinitions ²			Difference		
		Intermediate inputs	Value added	Industry output	Intermediate inputs	Value added	Industry output	Intermediate inputs	Value added	Industry output
		(1)	(2)	(3)	(4)	(5)	(6)	(7)=(1)-(4)	(8)=(2)-(5)	(9)=(3)-(6)
4200	Wholesale trade	274,236	490,506	764,742	248,964	503,890	752,854	25,272	-13,385	11,888
4A00	Retail trade	330,447	477,609	808,056	286,829	442,995	729,824	43,617	34,615	78,232
4810	Air transportation	75,697	43,929	119,626	75,651	43,794	119,445	46	136	181
4820	Rail transportation	19,015	23,247	42,262	16,935	21,032	37,967	2,079	2,215	4,295
4830	Water transportation	18,507	6,083	24,589	18,430	5,967	24,397	77	116	193
4840	Truck transportation	87,749	81,335	169,084	87,978	81,418	169,397	-229	-84	-313
4850	Transit and ground passenger transportation	8,729	15,984	24,713	8,721	15,905	24,626	8	79	87
4860	Pipeline transportation	18,979	8,527	27,507	18,866	8,418	27,284	113	109	222
48A0	Sightseeing transportation and transportation support	21,585	21,169	42,754	22,707	21,631	44,338	-1,122	-462	-1,584
4920	Couriers and messengers	14,298	27,677	41,975	14,251	27,535	41,786	47	142	189
4930	Warehousing and storage	8,431	18,780	27,211	9,264	19,959	29,223	-834	-1,179	-2,012
5111	Newspaper, book, and directory publishers	48,861	68,221	117,082	48,698	64,845	113,543	163	3,376	3,539
5112	Software publishers	22,356	43,831	66,187	20,496	40,881	61,377	1,860	2,950	4,810
5120	Motion picture and sound recording industries	35,662	25,695	61,357	35,632	25,540	61,172	30	156	186
5131	Radio and television broadcasting	27,473	13,896	41,369	27,465	13,807	41,272	8	89	97
5132	Cable networks and program distribution	24,224	22,316	46,540	23,957	21,217	45,175	267	1,099	1,365
5133	Telecommunications	126,507	162,305	288,812	122,658	154,946	277,605	3,849	7,359	11,208
5141	Information services	4,728	7,082	11,810	4,717	6,987	11,704	11	95	106
5142	Data processing services	12,102	23,307	35,409	12,253	23,559	35,812	-151	-252	-403
52A0	Monetary authorities and credit intermediation	139,868	341,653	481,521	136,279	332,025	468,304	3,589	9,629	13,217
5230	Securities, commodity contracts, investments	88,784	110,673	199,457	88,258	109,816	198,075	526	856	1,383
5240	Insurance carriers and related activities	170,862	172,599	343,461	169,507	170,509	340,015	1,355	2,090	3,446
5250	Funds, trusts, and other financial vehicles	59,688	4,646	64,333	59,676	4,625	64,300	12	21	33
5310	Real estate	186,726	424,413	611,139	184,853	422,619	607,472	1,873	1,794	3,667
S008	Owner-occupied dwellings	119,210	516,726	635,937	76,132	516,730	592,862	43,079	-4	43,075
5321	Automotive equipment rental and leasing	9,679	21,041	30,719	12,702	29,460	42,162	-3,024	-8,419	-11,443
532A	Consumer goods and general rental centers	6,485	12,670	19,154	7,844	17,623	25,466	-1,359	-4,953	-6,312
5324	Machinery and equipment rental and leasing	8,042	22,733	30,775	10,013	31,072	41,085	-1,971	-8,338	-10,310
5330	Lessors of nonfinancial intangible assets	3,646	98,377	102,023	3,642	98,366	102,007	4	11	15
5411	Legal services	42,257	109,839	152,096	42,235	109,805	152,041	21	34	55
5412	Accounting and bookkeeping services	19,342	52,744	72,086	19,158	52,275	71,433	184	469	653
5413	Architectural and engineering services	38,805	92,615	131,420	38,598	92,538	131,136	207	77	284
5414	Specialized design services	6,281	11,570	17,851	6,266	11,473	17,739	15	97	112
5415	Computer systems design and related services	33,317	68,100	101,417	49,398	89,866	139,264	-16,082	-21,766	-37,847
5416	Management and technical consulting services	24,788	61,390	86,178	24,484	60,579	85,063	304	811	1,115
5417	Scientific research and development services	22,076	38,123	60,198	22,612	40,728	63,340	-537	-2,605	-3,142
5418	Advertising and related services	20,692	37,237	57,929	20,626	37,087	57,713	66	150	216
5419	Other professional and technical services	19,195	44,242	63,437	19,267	41,436	60,703	-71	2,806	2,734
5500	Management of companies and enterprises	94,229	225,539	319,768	93,394	222,103	315,497	835	3,436	4,271
5613	Employment services	8,839	81,510	90,349	8,159	80,494	88,653	680	1,016	1,696
5615	Travel arrangement and reservation services	11,609	13,581	25,190	11,592	13,505	25,097	17	77	93
561A	All other administrative and support services	60,675	129,637	190,312	60,801	129,122	189,923	-126	515	389
5620	Waste management and remediation services	19,795	22,163	41,959	19,756	21,934	41,690	39	229	269
6100	Educational services	48,730	62,779	111,509	42,642	59,050	101,692	6,088	3,729	9,817
6210	Ambulatory health care services	118,169	262,939	381,108	119,296	260,774	380,070	-1,127	2,165	1,038
6220	Hospitals	123,287	152,101	275,388	120,228	147,107	267,335	3,059	4,994	8,053
6230	Nursing and residential care facilities	34,437	57,784	92,222	34,954	58,628	93,582	-516	-844	-1,360
6240	Social assistance	29,967	36,918	66,885	29,884	36,398	66,282	84	519	603
71A0	Performing arts, spectator sports, and museums	25,277	30,141	55,418	25,076	28,842	53,918	201	1,298	1,500
7130	Amusements, gambling, and recreation	26,405	45,417	71,822	25,617	53,871	79,488	789	-8,454	-7,666
7210	Accommodation	36,890	76,694	113,584	26,055	52,900	78,955	10,835	23,794	34,629
7220	Food services and drinking places	150,142	149,627	299,769	176,478	167,856	344,334	-26,336	-18,229	-44,565
8111	Automotive repair and maintenance	41,895	43,023	84,918	68,637	77,014	145,651	-26,742	-33,991	-60,732
811A	Electronic, commercial, and household goods repair	19,542	35,966	55,508	35,372	59,216	94,589	-15,830	-23,250	-39,080
8120	Personal and laundry services	36,261	55,554	91,814	37,297	57,966	95,262	-1,036	-2,412	-3,448
813A	Religious, grantmaking, and social advocacy organizations	18,431	36,421	54,852	18,305	36,071	54,376	126	349	476
813B	Civic, social, professional and similar organizations	25,506	23,189	48,695	24,014	21,067	45,081	1,491	2,123	3,614
8140	Private households .....	.....	12,035	12,035	.....	12,035	12,035	.....	0	0
S001	Federal Government enterprises	15,313	59,309	74,622	15,313	59,309	74,622	0	0	0
S002	State and local government enterprises	64,005	60,351	124,356	64,005	60,351	124,356	(*)	(*)	0
S005	General government industry	6,394	944,633	951,027	3	937,809	937,812	6,392	6,824	13,216
S007	Inventory valuation adjustment .....	.....	9,211	9,211	.....	9,211	9,211	.....	0	0
Total	.....	6,517,231	8,345,646	14,862,876	6,517,231	8,345,646	14,862,876	0	0	0

* Less than \$500,000

1. The industries are based on the standard I-O tables, which are before redefinitions of secondary products. See box "Treatment of Secondary Products" on page 27.

2. The industries are based on the supplementary I-O tables, which are after redefinitions of secondary products. See box "Treatment of Secondary Products" on page 27.

Industries Before Redefinitions, 1997

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Crop products	Animal products	Forestry and logging products	Fish and other nonfarm animals	Agriculture and forestry support services	Oil and gas	Coal	Metal ores	Non-metallic minerals	Mining support services
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	1110	1120	1130	1140	1150	2110	2121	2122	2123	2130
4200	Wholesale trade					556					
4A00	Retail trade										
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation										
4850	Transit and ground passenger transportation										
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support										
4920	Couriers and messengers										
4930	Warehousing and storage										
5111	Newspaper, book, and directory publishers										
5112	Software publishers										
5120	Motion picture and sound recording industries										
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications										
5141	Information services										
5142	Data processing services										
52A0	Monetary authorities and credit intermediation										
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate										
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services										
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services										
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										
5620	Waste management and remediation services						410				
6100	Educational services										
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums										
7130	Amusements, gambling, and recreation										
7210	Accommodation										
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services										
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises										
S002	State and local government enterprises										
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	132,679	103,729	27,642	6,050	14,967	84,179	23,292	11,229	15,837	25,220

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Electric power	Natural gas distribution	Water and sewage treatment	New residential construction	New non-residential construction	Maintenance and repair construction	Food products	Beverage products	Tobacco products	Yarn, fabrics, and other textile mill products
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	2211	2212	2213	2301	2302	2303	3110	3121	3122	3130
1110	Crop production.....					23					
1120	Animal production.....					34		19			
1130	Forestry and logging.....					8					
1140	Fishing, hunting and trapping.....										
1150	Agriculture and forestry support activities.....							293			
2110	Oil and gas extraction.....					13					
2121	Coal mining.....					35					
2122	Metal ores mining.....					55					
2123	Nonmetallic mineral mining and quarrying.....					5					
2130	Support activities for mining.....										
2211	Power generation and supply.....	192,675	18,354	1,932		11,890					
2212	Natural gas distribution.....		50,244	11		3,121					
2213	Water, sewage and other systems.....			5,175		215					
2301	New residential construction.....				231,000						
2302	New nonresidential construction.....					338,145					
2303	Maintenance and repair construction.....						101,065				
3110	Food manufacturing.....					53		403,978	793		
3121	Beverage manufacturing.....					12		755	65,279		
3122	Tobacco manufacturing.....					1				41,275	
3130	Textile mills.....					14					53,117
3140	Textile product mills.....					8					634
3150	Apparel manufacturing.....					1					185
3160	Leather and allied product manufacturing.....										32
3210	Wood product manufacturing.....					31					
3221	Pulp, paper, and paperboard mills.....	259				1					61
3222	Converted paper product manufacturing.....					2					6
3230	Printing and related support activities.....					55					7
3240	Petroleum and coal products manufacturing.....					265					107
3251	Basic chemical manufacturing.....					45		7	112		
3252	Resin, rubber, and artificial fibers manufacturing.....					24					
3253	Agricultural chemical manufacturing.....					9		25			
3254	Pharmaceutical and medicine manufacturing.....										
3255	Paint, coating, and adhesive manufacturing.....					3					
3256	Soap, cleaning compound, and toiletry manufacturing.....					5					
3259	Other chemical product and preparation manufacturing.....					8		80			
3260	Plastics and rubber products manufacturing.....					40					82
3270	Nonmetallic mineral product manufacturing.....					16		1			56
331A	Iron and steel mills and forming steel products.....					167					
331B	Nonferrous metal production and processing.....					10					
3315	Foundries.....					6					
3321	Forging and stamping.....					17					
3322	Cutlery and handtool manufacturing.....					4					
3323	Architectural and structural metals manufacturing.....					41					
3324	Boiler, tank, and shipping container manufacturing.....					5					
332A	Ordinance and accessories manufacturing.....					5					
332B	Other fabricated metal product manufacturing.....					24					4
3331	Agriculture, construction, and mining machinery.....					6					
3332	Industrial machinery manufacturing.....					2					
3333	Commercial and service industry machinery.....					4					
3334	HVAC and commercial refrigeration equipment.....					3					
3335	Metalworking machinery manufacturing.....					2					
3336	Turbine and power transmission equipment manufacturing.....					2					
3339	Other general purpose machinery manufacturing.....					7					
3341	Computer and peripheral equipment manufacturing.....					5					
334A	Audio, video, and communications equipment manufacturing.....					13					
3344	Semiconductor and electronic component manufacturing.....					17					
3345	Electronic instrument manufacturing.....					20					
3346	Magnetic media manufacturing and reproducing.....					5					
3351	Electric lighting equipment manufacturing.....					12					
3352	Household appliance manufacturing.....					11					
3353	Electrical equipment manufacturing.....					35					
3359	Other electrical equipment and component manufacturing.....					27					
3361	Motor vehicle manufacturing.....					45					
336A	Motor vehicle body, trailer, and parts manufacturing.....					54					
3364	Aerospace product and parts manufacturing.....					31					8
336B	Other transportation equipment manufacturing.....					39					
3370	Furniture and related product manufacturing.....					20					
3391	Medical equipment and supplies manufacturing.....					6					48
3399	Other miscellaneous manufacturing.....					24					

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Electric power	Natural gas distribution	Water and sewage treatment	New residential construction	New non-residential construction	Maintenance and repair construction	Food products	Beverage products	Tobacco products	Yarn, fabrics, and other textile mill products
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	2211	2212	2213	2301	2302	2303	3110	3121	3122	3130
4200	Wholesale trade					196		5,414		414	
4A00	Retail trade					1,453		5,808			
4810	Air transportation					68					
4820	Rail transportation					600	3,443				
4830	Water transportation										
4840	Truck transportation										
4850	Transit and ground passenger transportation										
4860	Pipeline transportation		2,777			408					
48A0	Sightseeing transportation and transportation support										
4920	Couriers and messengers										
4930	Warehousing and storage										
5111	Newspaper, book, and directory publishers					11					
5112	Software publishers										
5120	Motion picture and sound recording industries					51					
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications					4,935					
5141	Information services										
5142	Data processing services										
52A0	Monetary authorities and credit intermediation					234					
5230	Securities, commodity contracts, investments					91					
5240	Insurance carriers and related activities					12					
5250	Funds, trusts, and other financial vehicles										
5310	Real estate				3,148	522					
S008	Owner-occupied dwellings				26,505		16,570				
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers					5					
532A	Machinery and equipment rental and leasing					21					
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services					14					
5413	Architectural and engineering services					7					
5414	Specialized design services										
5415	Computer systems design and related services										
5416	Management and technical consulting services					3					
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services					50					
5620	Waste management and remediation services					201					
6100	Educational services				42	207					
6210	Ambulatory health care services										
6220	Hospitals					259					
6230	Nursing and residential care facilities					198					
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums					502					
7130	Amusements, gambling, and recreation					18					
7210	Accommodation					865					
7220	Food services and drinking places					35					
8111	Automotive repair and maintenance					67					
811A	Electronic, commercial, and household goods repair					3					
8120	Personal and laundry services					25					
813A	Religious, grantmaking, and social advocacy organizations					249					
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises	8,308									
S002	State and local government enterprises	22,174	4,118	27,590							
S005	General government industry				1,087	3,557	1,562				
S007	Inventory valuation adjustment										
	Total commodity output	223,416	75,493	34,708	261,781	369,670	122,640	416,380	66,184	41,689	54,347

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Nonapparel textile products	Apparel	Leather and allied products	Wood products	Pulp, paper, and paperboard	Converted paper products	Printed products	Petroleum and coal products	Basic chemicals	Resins, rubber, and artificial fibers
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	3140	3150	3160	3210	3221	3222	3230	3240	3251	3252
1110	Crop production.....										
1120	Animal production.....										
1130	Forestry and logging.....				45						
1140	Fishing, hunting and trapping.....										
1150	Agriculture and forestry support activities.....										
2110	Oil and gas extraction.....								7,679	67	
2121	Coal mining.....										
2122	Metal ores mining.....										
2123	Nonmetallic mineral mining and quarrying.....								109	1,693	
2130	Support activities for mining.....										
2211	Power generation and supply.....										
2212	Natural gas distribution.....										
2213	Water, sewage and other systems.....										
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....										
3110	Food manufacturing.....	8		240						1,288	
3121	Beverage manufacturing.....										
3122	Tobacco manufacturing.....										
3130	Textile mills.....	1,677	45			81	56		14		3,120
3140	Textile product mills.....	29,045	556	1			4	156			250
3150	Apparel manufacturing.....	1,073	64,256	84				84			
3160	Leather and allied product manufacturing.....	5	29	9,887							
3210	Wood product manufacturing.....				87,366						
3221	Pulp, paper, and paperboard mills.....				150	68,733	1,845			202	
3222	Converted paper product manufacturing.....				124	2,050	71,704	231			
3230	Printing and related support activities.....	34	587	30			161	68,389			
3240	Petroleum and coal products manufacturing.....					20			162,085	10,563	
3251	Basic chemical manufacturing.....								3,327	100,913	5,995
3252	Resin, rubber, and artificial fibers manufacturing.....									6,194	57,001
3253	Agricultural chemical manufacturing.....						29			792	
3254	Pharmaceutical and medicine manufacturing.....									168	85
3255	Paint, coating, and adhesive manufacturing.....									40	402
3256	Soap, cleaning compound, and toiletry manufacturing.....								209	381	76
3259	Other chemical product and preparation manufacturing.....					5			69	810	330
3260	Plastics and rubber products manufacturing.....	128			99		630	7			507
3270	Nonmetallic mineral product manufacturing.....					93	221		74		
331A	Iron and steel mills and forming steel products.....										
331B	Nonferrous metal production and processing.....						130			604	
3315	Foundries.....										
3321	Forging and stamping.....										
3322	Cutlery and handtool manufacturing.....				2						
3323	Architectural and structural metals manufacturing.....				41						
3324	Boiler, tank, and shipping container manufacturing.....										
332A	Ordnance and accessories manufacturing.....										
332B	Other fabricated metal product manufacturing.....							63			
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery manufacturing.....						37				
3333	Commercial and service industry machinery.....						53				
3334	HVAC and commercial refrigeration equipment.....										
3335	Metalworking machinery manufacturing.....										
3336	Turbine and power transmission equipment manufacturing.....										
3339	Other general purpose machinery manufacturing.....										
3341	Computer and peripheral equipment manufacturing.....										
334A	Audio, video, and communications equipment manufacturing.....										
3344	Semiconductor and electronic component manufacturing.....										
3345	Electronic instrument manufacturing.....										
3346	Magnetic media manufacturing and reproducing.....										
3351	Electric lighting equipment manufacturing.....			17							
3352	Household appliance manufacturing.....	161									
3353	Electrical equipment manufacturing.....										
3359	Other electrical equipment and component manufacturing.....								53		
3361	Motor vehicle manufacturing.....										
336A	Motor vehicle body, trailer, and parts manufacturing.....	11									
3364	Aerospace product and parts manufacturing.....										
336B	Other transportation equipment manufacturing.....										
3370	Furniture and related product manufacturing.....	24			223						
3391	Medical equipment and supplies manufacturing.....						487				
3399	Other miscellaneous manufacturing.....				286		33	112	3		

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Nonapparel textile products	Apparel	Leather and allied products	Wood products	Pulp, paper, and paper-board	Converted paper products	Printed products	Petroleum and coal products	Basic chemicals	Resins, rubber, and artificial fibers
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	3140	3150	3160	3210	3221	3222	3230	3240	3251	3252
4200	Wholesale trade										
4A00	Retail trade		360					62			
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation										
4850	Transit and ground passenger transportation										
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support										
4920	Couriers and messengers										
4930	Warehousing and storage										
5111	Newspaper, book, and directory publishers							1,251			
5112	Software publishers										
5120	Motion picture and sound recording industries										
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications										
5141	Information services										
5142	Data processing services										
52A0	Monetary authorities and credit intermediation										
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate										
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services										
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services										
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										
5620	Waste management and remediation services										
6100	Educational services										
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums										
7130	Amusements, gambling, and recreation										
7210	Accommodation										
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services										
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises										
S002	State and local government enterprises										
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	32,166	65,833	10,259	88,336	70,982	75,390	70,355	173,622	123,715	67,765

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Agricultural chemicals	Pharmaceuticals and medicines	Paints, coatings, and adhesives	Soaps, cleaning compounds, and toiletries	Other chemical products	Plastics and rubber products	Non-metallic mineral products	Primary ferrous metal products	Primary nonferrous metal products	Foundry products
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	3253	3254	3255	3256	3259	3260	3270	331A	331B	3315
1110	Crop production.....										
1120	Animal production.....										
1130	Forestry and logging.....										
1140	Fishing, hunting and trapping.....										
1150	Agriculture and forestry support activities.....										
2110	Oil and gas extraction.....										
2121	Coal mining.....										
2122	Metal ores mining.....										
2123	Nonmetallic mineral mining and quarrying.....							193			
2130	Support activities for mining.....										
2211	Power generation and supply.....										
2212	Natural gas distribution.....										
2213	Water, sewage and other systems.....										
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....										
3110	Food manufacturing.....		270			34	8				
3121	Beverage manufacturing.....										
3122	Tobacco manufacturing.....										
3130	Textile mills.....						118				
3140	Textile product mills.....						63				
3150	Apparel manufacturing.....						27				
3160	Leather and allied product manufacturing.....						21				
3210	Wood product manufacturing.....						304				
3221	Pulp, paper, and paperboard mills.....										
3222	Converted paper product manufacturing.....			126	187	152	1,012				
3230	Printing and related support activities.....						13				
3240	Petroleum and coal products manufacturing.....			21	52	134		87	451		
3251	Basic chemical manufacturing.....	1,168	75	80	911	491		4			
3252	Resin, rubber, and artificial fibers manufacturing.....			352	92	15	395				
3253	Agricultural chemical manufacturing.....	22,822	26		30			3			
3254	Pharmaceutical and medicine manufacturing.....	55	83,967		548						
3255	Paint, coating, and adhesive manufacturing.....			24,528	8	119	3	17			
3256	Soap, cleaning compound, and toiletry manufacturing.....	379	175	75	48,761	253	15	76			
3259	Other chemical product and preparation manufacturing.....	12		235	262	34,898	169	16			
3260	Plastics and rubber products manufacturing.....			157	4	145	151,870	23			
3270	Nonmetallic mineral product manufacturing.....			170	53	47	234	83,300		12	1
331A	Iron and steel mills and forming steel products.....				1		3		75,748	152	3
331B	Nonferrous metal production and processing.....							1	8	60,014	
3315	Foundries.....									3	27,985
3321	Forging and stamping.....						28				
3322	Cutlery and handtool manufacturing.....					59		4			
3323	Architectural and structural metals manufacturing.....						288	33		56	
3324	Boiler, tank, and shipping container manufacturing.....						112				
332A	Ordinance and accessories manufacturing.....										
332B	Other fabricated metal product manufacturing.....						205		4,022	106	74
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery manufacturing.....						3				
3333	Commercial and service industry machinery.....				17	344	53				
3334	HVAC and commercial refrigeration equipment.....										
3335	Metalworking machinery manufacturing.....						56	132			2
3336	Turbine and power transmission equipment manufacturing.....										
3339	Other general purpose machinery manufacturing.....			2							72
3341	Computer and peripheral equipment manufacturing.....							5			
334A	Audio, video, and communications equipment manufacturing.....										
3344	Semiconductor and electronic component manufacturing.....										
3345	Electronic instrument manufacturing.....		252								
3346	Magnetic media manufacturing and reproducing.....										
3351	Electric lighting equipment manufacturing.....						22				
3352	Household appliance manufacturing.....						1				
3353	Electrical equipment manufacturing.....										
3359	Other electrical equipment and component manufacturing.....					15	68	217	182	897	
3361	Motor vehicle manufacturing.....										
336A	Motor vehicle body, trailer, and parts manufacturing.....						12				
3364	Aerospace product and parts manufacturing.....										
336B	Other transportation equipment manufacturing.....										
3370	Furniture and related product manufacturing.....					3	84	119			
3391	Medical equipment and supplies manufacturing.....		243				49				
3399	Other miscellaneous manufacturing.....					15	330	203			

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Agricultural chemicals	Pharmaceuticals and medicines	Paints, coatings, and adhesives	Soaps, cleaning compounds, and toiletries	Other chemical products	Plastics and rubber products	Non-metallic mineral products	Primary ferrous metal products	Primary nonferrous metal products	Foundry products
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	3253	3254	3255	3256	3259	3260	3270	331A	331B	3315
4200	Wholesale trade										
4A00	Retail trade										
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation										
4850	Transit and ground passenger transportation										
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support										
4920	Couriers and messengers										
4930	Warehousing and storage										
5111	Newspaper, book, and directory publishers										
5112	Software publishers										
5120	Motion picture and sound recording industries										
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications										
5141	Information services										
5142	Data processing services										
52A0	Monetary authorities and credit intermediation										
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate										
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services										
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services										
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										
5620	Waste management and remediation services										
6100	Educational services										
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums										
7130	Amusements, gambling, and recreation										
7210	Accommodation										
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services										
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises										
S002	State and local government enterprises							55			
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	24,436	85,008	25,746	50,926	36,724	155,566	84,489	80,411	61,240	28,137

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Forgings and stampings	Cutlery and handtools	Architectural and structural metal products	Boilers, tanks, and shipping containers	Ordnance and accessories	Other fabricated metal products	Agriculture, construction, and mining machinery	Industrial machinery	Commercial and service industry machinery	HVAC and commercial refrigeration equipment	Metalworking machinery
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3321	3322	3323	3324	332A	332B	3331	3332	3333	3334	3335
1110	Crop production.....											
1120	Animal production.....											
1130	Forestry and logging.....											
1140	Fishing, hunting and trapping.....											
1150	Agriculture and forestry support activities.....											
2110	Oil and gas extraction.....											
2121	Coal mining.....											
2122	Metal ores mining.....											
2123	Nonmetallic mineral mining and quarrying.....											
2130	Support activities for mining.....						11					
2211	Power generation and supply.....											
2212	Natural gas distribution.....											
2213	Water, sewage and other systems.....											
2301	New residential construction.....											
2302	New nonresidential construction.....											
2303	Maintenance and repair construction.....											
3110	Food manufacturing.....											
3121	Beverage manufacturing.....											
3122	Tobacco manufacturing.....											
3130	Textile mills.....											
3140	Textile product mills.....											
3150	Apparel manufacturing.....											
3160	Leather and allied product manufacturing.....											
3210	Wood product manufacturing.....			129			15					
3221	Pulp, paper, and paperboard mills.....											
3222	Converted paper product manufacturing.....						15					
3230	Printing and related support activities.....						84					
3240	Petroleum and coal products manufacturing.....											
3251	Basic chemical manufacturing.....											
3252	Resin, rubber, and artificial fibers manufacturing.....											11
3253	Agricultural chemical manufacturing.....											
3254	Pharmaceutical and medicine manufacturing.....											
3255	Paint, coating, and adhesive manufacturing.....											
3256	Soap, cleaning compound, and toiletry manufacturing.....											
3259	Other chemical product and preparation manufacturing.....								280			3
3260	Plastics and rubber products manufacturing.....	57		200			242	21	76			784
3270	Nonmetallic mineral product manufacturing.....			49			36		27			7
331A	Iron and steel mills and forming steel products.....	295					159					
331B	Nonferrous metal production and processing.....	1					537					
3315	Foundries.....	4					238					305
3321	Forging and stamping.....	22,582	59	121			250	6	3		7	317
3322	Cutlery and handtool manufacturing.....	5	10,331	13			73	41		52		133
3323	Architectural and structural metals manufacturing.....	313		49,045	446		846	41		12	36	5
3324	Boiler, tank, and shipping container manufacturing.....	38		331	21,174		301	97			27	
332A	Ordnance and accessories manufacturing.....					5,539		11				
332B	Other fabricated metal product manufacturing.....	259	57	685	403	207	113,509	70	41	27		368
3331	Agriculture, construction, and mining machinery.....			105	14	9	167	49,168		61		
3332	Industrial machinery manufacturing.....		32	1			143	10	33,215	97	2	215
3333	Commercial and service industry machinery.....			6		9	15		84	22,281	12	13
3334	HVAC and commercial refrigeration equipment.....			43	54		6	1		20	28,794	14
3335	Metalworking machinery manufacturing.....	77	64	10			398		70			28,265
3336	Turbine and power transmission equipment manufacturing.....		136				180	102			9	
3339	Other general purpose machinery manufacturing.....		88	44	35		920	433	356	198	96	239
3341	Computer and peripheral equipment manufacturing.....									78		
334A	Audio, video, and communications equipment manufacturing.....									1		
3344	Semiconductor and electronic component manufacturing.....		2						36	19		
3345	Electronic instrument manufacturing.....						160			264		
3346	Magnetic media manufacturing and reproducing.....											
3351	Electric lighting equipment manufacturing.....						1					
3352	Household appliance manufacturing.....		75							190	119	
3353	Electrical equipment manufacturing.....			5			35				270	
3359	Other electrical equipment and component manufacturing.....	33					66					6
3361	Motor vehicle manufacturing.....											
336A	Motor vehicle body, trailer, and parts manufacturing.....	784	17	4			107	6			583	688
3364	Aerospace product and parts manufacturing.....					116	87					5
336B	Other transportation equipment manufacturing.....	11		29			47	47				
3370	Furniture and related product manufacturing.....	2		15			16					
3391	Medical equipment and supplies manufacturing.....						2			26		
3399	Other miscellaneous manufacturing.....	11	15	2			113					

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Forgings and stampings	Cutlery and handtools	Architectural and structural metal products	Boilers, tanks, and shipping containers	Ordnance and accessories	Other fabricated metal products	Agriculture, construction, and mining machinery	Industrial machinery	Commercial and service industry machinery	HVAC and commercial refrigeration equipment	Metal-working machinery
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3321	3322	3323	3324	332A	332B	3331	3332	3333	3334	3335
4200	Wholesale trade						8			222		8
4A00	Retail trade											
4810	Air transportation											
4820	Rail transportation											
4830	Water transportation											
4840	Truck transportation											
4850	Transit and ground passenger transportation											
4860	Pipeline transportation											
48A0	Sightseeing transportation and transportation support											
4920	Couriers and messengers											
4930	Warehousing and storage											
5111	Newspaper, book, and directory publishers											
5112	Software publishers											
5120	Motion picture and sound recording industries											
5131	Radio and television broadcasting											
5132	Cable networks and program distribution											
5133	Telecommunications											
5141	Information services											
5142	Data processing services											
52A0	Monetary authorities and credit intermediation											
5230	Securities, commodity contracts, investments											
5240	Insurance carriers and related activities											
5250	Funds, trusts, and other financial vehicles											
5310	Real estate											
S008	Owner-occupied dwellings											
5321	Automotive equipment rental and leasing											
532A	Consumer goods and general rental centers											
532A	Machinery and equipment rental and leasing											
5330	Lessors of nonfinancial intangible assets											
5411	Legal services											
5412	Accounting and bookkeeping services											
5413	Architectural and engineering services											
5414	Specialized design services											
5415	Computer systems design and related services											
5416	Management and technical consulting services											
5417	Scientific research and development services											
5418	Advertising and related services											
5419	Other professional and technical services											
5500	Management of companies and enterprises											
5613	Employment services											
5615	Travel arrangement and reservation services											
561A	All other administrative and support services											
5620	Waste management and remediation services											
6100	Educational services											
6210	Ambulatory health care services											
6220	Hospitals											
6230	Nursing and residential care facilities											
6240	Social assistance											
71A0	Performing arts, spectator sports, and museums											
7130	Amusements, gambling, and recreation											
7210	Accommodation											
7220	Food services and drinking places											
8111	Automotive repair and maintenance											
811A	Electronic, commercial, and household goods repair											
8120	Personal and laundry services											
813A	Religious, grantmaking, and social advocacy organizations											
813B	Civic, social, professional and similar organizations											
8140	Private households											
S001	Federal Government enterprises											
S002	State and local government enterprises											
S005	General government industry											
S007	Inventory valuation adjustment											
	Total commodity output	24,472	10,876	50,837	22,126	5,880	118,788	50,054	33,908	23,828	29,955	31,386

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Turbine and power transmission equipment	Other general purpose machinery	Computer and peripheral equipment	Audio, video, and communications equipment	Semi-conductors and electronic components	Electronic instruments	Magnetic media products	Electric lighting equipment	Household appliances	Electrical equipment	Other electrical equipment and components
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3336	3339	3341	334A	3344	3345	3346	3351	3352	3353	3359
1110	Crop production.....											
1120	Animal production.....											
1130	Forestry and logging.....											
1140	Fishing, hunting and trapping.....											
1150	Agriculture and forestry support activities.....											
2110	Oil and gas extraction.....											
2121	Coal mining.....											
2122	Metal ores mining.....											
2123	Nonmetallic mineral mining and quarrying.....											
2130	Support activities for mining.....											
2211	Power generation and supply.....											
2212	Natural gas distribution.....											
2213	Water, sewage and other systems.....											
2301	New residential construction.....											
2302	New nonresidential construction.....											
2303	Maintenance and repair construction.....											
3110	Food manufacturing.....											
3121	Beverage manufacturing.....											
3122	Tobacco manufacturing.....											
3130	Textile mills.....											
3140	Textile product mills.....											
3150	Apparel manufacturing.....											
3160	Leather and allied product manufacturing.....											
3210	Wood product manufacturing.....											
3221	Pulp, paper, and paperboard mills.....											
3222	Converted paper product manufacturing.....							677				
3230	Printing and related support activities.....											
3240	Petroleum and coal products manufacturing.....											4
3251	Basic chemical manufacturing.....											
3252	Resin, rubber, and artificial fibers manufacturing.....											
3253	Agricultural chemical manufacturing.....											
3254	Pharmaceutical and medicine manufacturing.....						34					
3255	Paint, coating, and adhesive manufacturing.....											
3256	Soap, cleaning compound, and toiletry manufacturing.....											
3259	Other chemical product and preparation manufacturing.....							324				
3260	Plastics and rubber products manufacturing.....		27				6		3			
3270	Nonmetallic mineral product manufacturing.....						2		22			6
331A	Iron and steel mills and forming steel products.....		89									227
331B	Nonferrous metal production and processing.....		8									353
3315	Foundries.....											2
3321	Forging and stamping.....		26									
3322	Cutlery and handtool manufacturing.....								3			
3323	Architectural and structural metals manufacturing.....		41							2		7
3324	Boiler, tank, and shipping container manufacturing.....		8									
332A	Ordinance and accessories manufacturing.....		2				24					
332B	Other fabricated metal product manufacturing.....	259	749				226					4
3331	Agriculture, construction, and mining machinery.....	271	942	1							311	
3332	Industrial machinery manufacturing.....	1	175		5	2	98					
3333	Commercial and service industry machinery.....		7	546		139	148	190			13	3
3334	HVAC and commercial refrigeration equipment.....		292							85	35	
3335	Metalworking machinery manufacturing.....		143								2	
3336	Turbine and power transmission equipment manufacturing.....	27,436	85								494	
3339	Other general purpose machinery manufacturing.....	626	55,107	1		44	25				21	83
3341	Computer and peripheral equipment manufacturing.....			90,814	856	5,029	1,120	465				
334A	Audio, video, and communications equipment manufacturing.....			37	86,107	901	935			250		54
3344	Semiconductor and electronic component manufacturing.....			1,381	877	133,090	163				57	307
3345	Electronic instrument manufacturing.....			211	1,228	731	81,281		92		207	307
3346	Magnetic media manufacturing and reproducing.....			145				9,438				
3351	Electric lighting equipment manufacturing.....				18				11,997			55
3352	Household appliance manufacturing.....								60	19,546	196	
3353	Electrical equipment manufacturing.....					59	191				33,241	355
3359	Other electrical equipment and component manufacturing.....		1		378	633	10		129		405	37,672
3361	Motor vehicle manufacturing.....											
336A	Motor vehicle body, trailer, and parts manufacturing.....	272	255		597		455		41		93	525
3364	Aerospace product and parts manufacturing.....	1,016	163		292		293					28
336B	Other transportation equipment manufacturing.....	302	21								228	
3370	Furniture and related product manufacturing.....		13			36						
3391	Medical equipment and supplies manufacturing.....						354					
3399	Other miscellaneous manufacturing.....						49					

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Turbine and power transmission equipment	Other general purpose machinery	Computer and peripheral equipment	Audio, video, and communications equipment	Semi-conductors and electronic components	Electronic instruments	Magnetic media products	Electric lighting equipment	Household appliances	Electrical equipment	Other electrical equipment and components
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3336	3339	3341	334A	3344	3345	3346	3351	3352	3353	3359
4200	Wholesale trade				196		11					
4A00	Retail trade											
4810	Air transportation											
4820	Rail transportation											
4830	Water transportation											
4840	Truck transportation											
4850	Transit and ground passenger transportation											
4860	Pipeline transportation											
48A0	Sightseeing transportation and transportation support											
4920	Couriers and messengers											
4930	Warehousing and storage											
5111	Newspaper, book, and directory publishers											
5112	Software publishers											
5120	Motion picture and sound recording industries											
5131	Radio and television broadcasting											
5132	Cable networks and program distribution											
5133	Telecommunications											
5141	Information services											
5142	Data processing services											
52A0	Monetary authorities and credit intermediation											
5230	Securities, commodity contracts, investments											
5240	Insurance carriers and related activities											
5250	Funds, trusts, and other financial vehicles											
5310	Real estate											
S008	Owner-occupied dwellings											
5321	Automotive equipment rental and leasing											
532A	Consumer goods and general rental centers											
532A	Machinery and equipment rental and leasing											
5330	Lessors of nonfinancial intangible assets											
5411	Legal services											
5412	Accounting and bookkeeping services											
5413	Architectural and engineering services											
5414	Specialized design services											
5415	Computer systems design and related services											
5416	Management and technical consulting services											
5417	Scientific research and development services											
5418	Advertising and related services											
5419	Other professional and technical services											
5500	Management of companies and enterprises											
5613	Employment services											
5615	Travel arrangement and reservation services											
561A	All other administrative and support services											
5620	Waste management and remediation services											
6100	Educational services											
6210	Ambulatory health care services											
6220	Hospitals											
6230	Nursing and residential care facilities											
6240	Social assistance											
71A0	Performing arts, spectator sports, and museums											
7130	Amusements, gambling, and recreation											
7210	Accommodation											
7220	Food services and drinking places											
8111	Automotive repair and maintenance											
811A	Electronic, commercial, and household goods repair											
8120	Personal and laundry services											
813A	Religious, grantmaking, and social advocacy organizations											
813B	Civic, social, professional and similar organizations											
8140	Private households											
S001	Federal Government enterprises											
S002	State and local government enterprises											
S005	General government industry											
S007	Inventory valuation adjustment											
	Total commodity output	30,183	58,154	93,136	90,554	140,664	85,425	11,094	12,347	19,883	35,303	39,992

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Motor vehicles	Motor vehicle bodies, trailers, and parts	Aerospace products and parts	Other transportation equipment	Furniture and related products	Medical equipment and supplies	Other miscellaneous manufactured products	Wholesale trade	Retail trade	Air transportation	Rail transportation
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3361	336A	3364	336B	3370	3391	3399	4200	4A00	4810	4820
1110	Crop production.....											
1120	Animal production.....											
1130	Forestry and logging.....								455			
1140	Fishing, hunting and trapping.....											
1150	Agriculture and forestry support activities.....											
2110	Oil and gas extraction.....								4			
2121	Coal mining.....								50			
2122	Metal ores mining.....											
2123	Nonmetallic mineral mining and quarrying.....								8			
2130	Support activities for mining.....								233			
2211	Power generation and supply.....									40		
2212	Natural gas distribution.....									22		
2213	Water, sewage and other systems.....											
2301	New residential construction.....											
2302	New nonresidential construction.....											
2303	Maintenance and repair construction.....											
3110	Food manufacturing.....								3,699			
3121	Beverage manufacturing.....								952			
3122	Tobacco manufacturing.....								155			
3130	Textile mills.....								62			
3140	Textile product mills.....		29			6		55	103			
3150	Apparel manufacturing.....						92		956			
3160	Leather and allied product manufacturing.....							3	348			
3210	Wood product manufacturing.....					150		5	584			
3221	Pulp, paper, and paperboard mills.....								142			
3222	Converted paper product manufacturing.....					1	47	3	553			
3230	Printing and related support activities.....							54	1,187			
3240	Petroleum and coal products manufacturing.....								370			
3251	Basic chemical manufacturing.....								717			
3252	Resin, rubber, and artificial fibers manufacturing.....								79			
3253	Agricultural chemical manufacturing.....								264			
3254	Pharmaceutical and medicine manufacturing.....						16		4,660			
3255	Paint, coating, and adhesive manufacturing.....								629			
3256	Soap, cleaning compound, and toiletry manufacturing.....								2,546			
3259	Other chemical product and preparation manufacturing.....		12						372			
3260	Plastics and rubber products manufacturing.....					228	36	661	1,297			
3270	Nonmetallic mineral product manufacturing.....						48	11	826			
331A	Iron and steel mills and forming steel products.....					23			63			
331B	Nonferrous metal production and processing.....								174			
3315	Foundries.....								128			
3321	Forging and stamping.....		335			2			141			
3322	Cutlery and handtool manufacturing.....								323			
3323	Architectural and structural metals manufacturing.....		6	1		16			488			
3324	Boiler, tank, and shipping container manufacturing.....							11	123			
332A	Ordinance and accessories manufacturing.....								12			
332B	Other fabricated metal product manufacturing.....		12	191		19	2	40	1,693			
3331	Agriculture, construction, and mining machinery.....		137			255			691			
3332	Industrial machinery manufacturing.....							1	951			
3333	Commercial and service industry machinery.....			237		24	2		411			
3334	HVAC and commercial refrigeration equipment.....		2			26			239			
3335	Metalworking machinery manufacturing.....		97				2		399			
3336	Turbine and power transmission equipment manufacturing.....		501	74	5				250			
3339	Other general purpose machinery manufacturing.....			88		70	4	4	745			
3341	Computer and peripheral equipment manufacturing.....							48	2,098			
334A	Audio, video, and communications equipment manufacturing.....								1,475			
3344	Semiconductor and electronic component manufacturing.....		6						766			
3345	Electronic instrument manufacturing.....			1,011			560		896			
3346	Magnetic media manufacturing and reproducing.....								62			
3351	Electric lighting equipment manufacturing.....		3						148			
3352	Household appliance manufacturing.....					3			232			
3353	Electrical equipment manufacturing.....		378						416			
3359	Other electrical equipment and component manufacturing.....							15	300			
3361	Motor vehicle manufacturing.....	217,427	2,699		79				33			
336A	Motor vehicle body, trailer, and parts manufacturing.....	2,640	187,398	348	137	24			1,256			
3364	Aerospace product and parts manufacturing.....			114,002	170		1		529			
336B	Other transportation equipment manufacturing.....	72	123		31,833			122	238			
3370	Furniture and related product manufacturing.....		8			61,973	6	187	786			
3391	Medical equipment and supplies manufacturing.....						41,315	11	1,404			
3399	Other miscellaneous manufacturing.....					18	64	52,319	1,490			

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Motor vehicles	Motor vehicle bodies, trailers, and parts	Aerospace products and parts	Other transportation equipment	Furniture and related products	Medical equipment and supplies	Other miscellaneous manufactured products	Wholesale trade	Retail trade	Air transportation	Rail transportation
	For the distribution of commodities produced by an industry, read the row for that industry											
	Commodity number	3361	336A	3364	336B	3370	3391	3399	4200	4A00	4810	4820
4200	Wholesale trade		116	4		5	5	1,735	707,265			
4A00	Retail trade							871		704,164		
4810	Air transportation										119,445	
4820	Rail transportation											37,967
4830	Water transportation											
4840	Truck transportation								146	14		
4850	Transit and ground passenger transportation									10		
4860	Pipeline transportation											
48A0	Sightseeing transportation and transportation support								267	6	4,367	899
4920	Couriers and messengers								1			
4930	Warehousing and storage								8			
5111	Newspaper, book, and directory publishers								3,115			
5112	Software publishers									362		
5120	Motion picture and sound recording industries									53		
5131	Radio and television broadcasting									28		
5132	Cable networks and program distribution									67		
5133	Telecommunications								1,494	50		
5141	Information services									63		
5142	Data processing services									205		
52A0	Monetary authorities and credit intermediation									945		
5230	Securities, commodity contracts, investments											
5240	Insurance carriers and related activities											
5250	Funds, trusts, and other financial vehicles											
5310	Real estate											
S008	Owner-occupied dwellings											
5321	Automotive equipment rental and leasing									162		
532A	Consumer goods and general rental centers									571		
5324	Machinery and equipment rental and leasing									462		
5330	Lessors of nonfinancial intangible assets											
5411	Legal services											
5412	Accounting and bookkeeping services									45		
5413	Architectural and engineering services								242	34		
5414	Specialized design services									103		
5415	Computer systems design and related services									1,510		
5416	Management and technical consulting services									282		
5417	Scientific research and development services									441		
5418	Advertising and related services									97		
5419	Other professional and technical services									3,067		
5500	Management of companies and enterprises											
5613	Employment services									54		
5615	Travel arrangement and reservation services									49		
561A	All other administrative and support services								113	971		
5620	Waste management and remediation services								36			
6100	Educational services									1,100		
6210	Ambulatory health care services									4,291		
6220	Hospitals									138		
6230	Nursing and residential care facilities									30		
6240	Social assistance									477		
71A0	Performing arts, spectator sports, and museums									708		
7130	Amusements, gambling, and recreation									1,436		
7210	Accommodation									1,206		
7220	Food services and drinking places									1,618		
8111	Automotive repair and maintenance									1,251		
811A	Electronic, commercial, and household goods repair									1,980		
8120	Personal and laundry services									513		
813A	Religious, grantmaking, and social advocacy organizations									154		
813B	Civic, social, professional and similar organizations								4	1,063		
8140	Private households											
S001	Federal Government enterprises									1,535		
S002	State and local government enterprises									2,052		
S005	General government industry											83
S007	Inventory valuation adjustment											
	Total commodity output	220,139	191,862	115,956	32,479	62,588	42,200	56,156	752,902	733,429	123,812	38,949

Industries Before Redefinitions, 1997—Continued
 at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation	Sightseeing transportation and transportation support	Courier and messenger services	Warehousing and storage	News-papers, books, and directories	Software	Motion pictures and sound recordings
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	4830	4840	4850	4860	48A0	4920	4930	5111	5112	5120
4200	Wholesale trade				8	801		23			
4A00	Retail trade		2,843			1,252		123			
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation	24,211				330					
4840	Truck transportation		166,067				122	2,246			
4850	Transit and ground passenger transportation			24,498		83	44				
4860	Pipeline transportation				24,275						
48A0	Sightseeing transportation and transportation support	379	2,132	53		34,185		72			
4920	Couriers and messengers		84			44	41,702	20			
4930	Warehousing and storage		317				19	26,811			
5111	Newspaper, book, and directory publishers								63,647		
5112	Software publishers									56,799	
5120	Motion picture and sound recording industries										61,133
5131	Radio and television broadcasting										3,603
5132	Cable networks and program distribution										
5133	Telecommunications										
5141	Information services										
5142	Data processing services									61	
52A0	Monetary authorities and credit intermediation									396	
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate										
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing			20							
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services										
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services									797	
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										
5620	Waste management and remediation services										
6100	Educational services										
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums										
7130	Amusements, gambling, and recreation										
7210	Accommodation										
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services										
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises										97
S002	State and local government enterprises	38		7,505		5,279					
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	24,628	171,443	32,076	27,284	41,974	41,887	29,295	64,310	58,053	64,833

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Radio and television broadcasting	Cable networks and program distribution	Telecommunications	Information services	Data processing services	Monetary oversight and credit intermediation	Securities, commodity contracts, investments	Insurance carriers and related services	Funds, trusts, and other financial vehicles	Real estate
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	5131	5132	5133	5141	5142	52A0	5230	5240	5250	5310
4200	Wholesale trade										
4A00	Retail trade						1,986		151		49
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation										
4850	Transit and ground passenger transportation										
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support										
4920	Couriers and messengers										
4930	Warehousing and storage										
5111	Newspaper, book, and directory publishers										
5112	Software publishers				124	168					
5120	Motion picture and sound recording industries										
5131	Radio and television broadcasting	8,218	16	27	15						
5132	Cable networks and program distribution	90	39,065	1,088	20						
5133	Telecommunications		97	270,641	2,160						
5141	Information services				11,519	22					
5142	Data processing services				64	34,198					
52A0	Monetary authorities and credit intermediation						414,229	9,076	1,246		
5230	Securities, commodity contracts, investments					303	1,784	193,984	2,307		
5240	Insurance carriers and related activities							321	338,802		37
5250	Funds, trusts, and other financial vehicles									64,300	
5310	Real estate								48		607,105
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets							4			11
5411	Legal services										
5412	Accounting and bookkeeping services					3,065					
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services					834					
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										
5620	Waste management and remediation services										
6100	Educational services										
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums										
7130	Amusements, gambling, and recreation										
7210	Accommodation										1,823
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services										
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations										
8140	Private households										
S001	Federal Government enterprises								1,031		839
S002	State and local government enterprises						77		16		11,425
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	8,308	39,178	271,756	13,929	38,617	418,076	203,385	343,601	64,300	621,289

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Owner-occupied dwellings	Automotive equipment rental and leasing	Consumer goods and general rentals	Machinery and equipment rental and leasing	Rights to nonfinancial intangible assets	Legal services	Accounting and bookkeeping services	Architectural and engineering services	Specialized design services	Computer systems design and related services
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	S008	5321	532A	5324	5330	5411	5412	5413	5414	5415
4200	Wholesale trade		407	1,570	6,673						5,022
4A00	Retail trade		999	3,708	859					37	1,145
4810	Air transportation										113
4820	Rail transportation				238						13
4830	Water transportation				22						27
4840	Truck transportation										147
4850	Transit and ground passenger transportation										28
4860	Pipeline transportation										46
48A0	Sightseeing transportation and transportation support				7						104
4920	Couriers and messengers										115
4930	Warehousing and storage										19
5111	Newspaper, book, and directory publishers										413
5112	Software publishers										7,611
5120	Motion picture and sound recording industries										82
5131	Radio and television broadcasting				44						23
5132	Cable networks and program distribution				1,235						30
5133	Telecommunications			1,076							2,033
5141	Information services										130
5142	Data processing services										473
52A0	Monetary authorities and credit intermediation		52,060	431	1,674						1,626
5230	Securities, commodity contracts, investments										989
5240	Insurance carriers and related activities						704				3,585
5250	Funds, trusts, and other financial vehicles										33
5310	Real estate										46
S008	Owner-occupied dwellings	592,862									
5321	Automotive equipment rental and leasing		30,345	98							94
532A	Consumer goods and general rental centers		41	17,291	1,166						14
5324	Machinery and equipment rental and leasing		30	157	29,325						15
5330	Lessors of nonfinancial intangible assets					101,992					15
5411	Legal services						152,041				55
5412	Accounting and bookkeeping services							63,257			684
5413	Architectural and engineering services								129,064	734	1,168
5414	Specialized design services								101	17,527	46
5415	Computer systems design and related services				119				1,044		92,942
5416	Management and technical consulting services							363		57	1,400
5417	Scientific research and development services								37		719
5418	Advertising and related services									758	327
5419	Other professional and technical services										229
5500	Management of companies and enterprises										
5613	Employment services										1,642
5615	Travel arrangement and reservation services										44
561A	All other administrative and support services							197	158		1,338
5620	Waste management and remediation services										32
6100	Educational services										1,673
6210	Ambulatory health care services			79	444						217
6220	Hospitals			4	5						859
6230	Nursing and residential care facilities			6	28						25
6240	Social assistance										31
71A0	Performing arts, spectator sports, and museums										31
7130	Amusements, gambling, and recreation			57							17
7210	Accommodation										31
7220	Food services and drinking places										63
8111	Automotive repair and maintenance										4
811A	Electronic, commercial, and household goods repair			42	236						30
8120	Personal and laundry services			5	1			3			39
813A	Religious, grantmaking, and social advocacy organizations										56
813B	Civic, social, professional and similar organizations										115
8140	Private households										
S001	Federal Government enterprises										
S002	State and local government enterprises										
S005	General government industry										7,010
S007	Inventory valuation adjustment										
	Total commodity output	592,862	83,882	24,524	42,095	101,992	152,745	63,820	130,461	19,056	141,388

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Management and technical consulting services	Scientific research and development services	Advertising and related services	Other professional and technical services	Management of companies and enterprises	Employment services	Travel arrangement and reservation services	All other administrative and support services	Waste management and remediation services	Educational services
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	5416	5417	5418	5419	5500	5613	5615	561A	5620	6100
1110	Crop production.....										
1120	Animal production										
1130	Forestry and logging.....										
1140	Fishing, hunting and trapping										
1150	Agriculture and forestry support activities										
2110	Oil and gas extraction										
2121	Coal mining										
2122	Metal ores mining										
2123	Nonmetallic mineral mining and quarrying										
2130	Support activities for mining										
2211	Power generation and supply										
2212	Natural gas distribution										
2213	Water, sewage and other systems										
2301	New residential construction										
2302	New nonresidential construction										
2303	Maintenance and repair construction										
3110	Food manufacturing.....										
3121	Beverage manufacturing										
3122	Tobacco manufacturing										
3130	Textile mills.....										
3140	Textile product mills.....										
3150	Apparel manufacturing										
3160	Leather and allied product manufacturing										
3210	Wood product manufacturing.....										
3221	Pulp, paper, and paperboard mills										
3222	Converted paper product manufacturing										
3230	Printing and related support activities				25,599	177			351		
3240	Petroleum and coal products manufacturing										
3251	Basic chemical manufacturing										
3252	Resin, rubber, and artificial fibers manufacturing										
3253	Agricultural chemical manufacturing										
3254	Pharmaceutical and medicine manufacturing										
3255	Paint, coating, and adhesive manufacturing										
3256	Soap, cleaning compound, and toiletry manufacturing										
3259	Other chemical product and preparation manufacturing										
3260	Plastics and rubber products manufacturing										
3270	Nonmetallic mineral product manufacturing.....										
331A	Iron and steel mills and forming steel products.....										
331B	Nonferrous metal production and processing.....										
3315	Foundries.....										
3321	Forging and stamping.....										
3322	Cutlery and handtool manufacturing.....										
3323	Architectural and structural metals manufacturing										
3324	Boiler, tank, and shipping container manufacturing										
332A	Ordinance and accessories manufacturing										
332B	Other fabricated metal product manufacturing										
3331	Agriculture, construction, and mining machinery										
3332	Industrial machinery manufacturing										
3333	Commercial and service industry machinery										
3334	HVAC and commercial refrigeration equipment										
3335	Metalworking machinery manufacturing.....										
3336	Turbine and power transmission equipment manufacturing										
3339	Other general purpose machinery manufacturing										
3341	Computer and peripheral equipment manufacturing.....										
334A	Audio, video, and communications equipment manufacturing										
3344	Semiconductor and electronic component manufacturing										
3345	Electronic instrument manufacturing.....										
3346	Magnetic media manufacturing and reproducing										
3351	Electric lighting equipment manufacturing										
3352	Household appliance manufacturing.....										
3353	Electrical equipment manufacturing										
3359	Other electrical equipment and component manufacturing										
3361	Motor vehicle manufacturing										
336A	Motor vehicle body, trailer, and parts manufacturing										
3364	Aerospace product and parts manufacturing										
336B	Other transportation equipment manufacturing										
3370	Furniture and related product manufacturing										
3391	Medical equipment and supplies manufacturing.....										
3399	Other miscellaneous manufacturing				3,020						

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Management and technical consulting services	Scientific research and development services	Advertising and related services	Other professional and technical services	Management of companies and enterprises	Employment services	Travel arrangement and reservation services	All other administrative and support services	Waste management and remediation services	Educational services
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	5416	5417	5418	5419	5500	5613	5615	561A	5620	6100
4200	Wholesale trade			178					182		7
4A00	Retail trade				562				1,862		120
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation	115								16	
4850	Transit and ground passenger transportation			29							
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support	234		1							26
4920	Couriers and messengers	2									
4930	Warehousing and storage	35									
5111	Newspaper, book, and directory publishers			48,645							
5112	Software publishers										1,092
5120	Motion picture and sound recording industries				14						
5131	Radio and television broadcasting			29,393							
5132	Cable networks and program distribution			4,911							
5133	Telecommunications			4,707							
5141	Information services										3
5142	Data processing services										68
52A0	Monetary authorities and credit intermediation										
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate										
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										
532A	Machinery and equipment rental and leasing										
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services	4,682		3					336		
5413	Architectural and engineering services		171								
5414	Specialized design services				74						
5415	Computer systems design and related services		68								716
5416	Management and technical consulting services	83,841		23					210		
5417	Scientific research and development services	380	58,620		1						
5418	Advertising and related services			56,624	123						
5419	Other professional and technical services				60,141						
5500	Management of companies and enterprises		4,271			315,497					
5613	Employment services						88,653				
5615	Travel arrangement and reservation services							25,097			
561A	All other administrative and support services	533		8					186,926		
5620	Waste management and remediation services	96								39,463	
6100	Educational services										101,038
6210	Ambulatory health care services										
6220	Hospitals										
6230	Nursing and residential care facilities										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums			1,724							
7130	Amusements, gambling, and recreation			71							403
7210	Accommodation										
7220	Food services and drinking places										
8111	Automotive repair and maintenance										
811A	Electronic, commercial, and household goods repair										
8120	Personal and laundry services								23		11
813A	Religious, grantmaking, and social advocacy organizations										
813B	Civic, social, professional and similar organizations			354							
8140	Private households										
S001	Federal Government enterprises										
S002	State and local government enterprises										
S005	General government industry										
S007	Inventory valuation adjustment										
	Total commodity output	89,918	63,130	175,305	61,078	315,497	88,653	25,097	189,890	39,479	103,484

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Ambulatory health care services	Hospital care	Nursing and residential care	Social assistance	Performing arts, spectator sports, and museums	Amusements, gambling, and recreation	Accommodations	Food and beverage services to customer order	Automotive repair and maintenance	Electronic, commercial, and household goods repair
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	6210	6220	6230	6240	71A0	7130	7210	7220	8111	811A
1110	Crop production.....						699				
1120	Animal production						451				
1130	Forestry and logging.....						(*)				
1140	Fishing, hunting and trapping										
1150	Agriculture and forestry support activities										
2110	Oil and gas extraction										
2121	Coal mining										
2122	Metal ores mining										
2123	Nonmetallic mineral mining and quarrying										
2130	Support activities for mining										
2211	Power generation and supply										
2212	Natural gas distribution										
2213	Water, sewage and other systems										
2301	New residential construction										
2302	New nonresidential construction										
2303	Maintenance and repair construction										
3110	Food manufacturing.....										
3121	Beverage manufacturing										
3122	Tobacco manufacturing										
3130	Textile mills.....										
3140	Textile product mills.....										
3150	Apparel manufacturing										
3160	Leather and allied product manufacturing										
3210	Wood product manufacturing.....										
3221	Pulp, paper, and paperboard mills										
3222	Converted paper product manufacturing										
3230	Printing and related support activities										
3240	Petroleum and coal products manufacturing										
3251	Basic chemical manufacturing										
3252	Resin, rubber, and artificial fibers manufacturing										
3253	Agricultural chemical manufacturing										
3254	Pharmaceutical and medicine manufacturing										
3255	Paint, coating, and adhesive manufacturing										
3256	Soap, cleaning compound, and toiletry manufacturing										
3259	Other chemical product and preparation manufacturing										
3260	Plastics and rubber products manufacturing										
3270	Nonmetallic mineral product manufacturing.....										
331A	Iron and steel mills and forming steel products.....										
331B	Nonferrous metal production and processing.....										
3315	Foundries.....										
3321	Forging and stamping.....										
3322	Cutlery and handtool manufacturing.....										
3323	Architectural and structural metals manufacturing										
3324	Boiler, tank, and shipping container manufacturing										
332A	Ordinance and accessories manufacturing										
332B	Other fabricated metal product manufacturing										
3331	Agriculture, construction, and mining machinery										
3332	Industrial machinery manufacturing										
3333	Commercial and service industry machinery										
3334	HVAC and commercial refrigeration equipment										
3335	Metalworking machinery manufacturing.....										
3336	Turbine and power transmission equipment manufacturing										
3339	Other general purpose machinery manufacturing										
3341	Computer and peripheral equipment manufacturing.....										295
334A	Audio, video, and communications equipment manufacturing										11
3344	Semiconductor and electronic component manufacturing										3
3345	Electronic instrument manufacturing.....										
3346	Magnetic media manufacturing and reproducing										
3351	Electric lighting equipment manufacturing										
3352	Household appliance manufacturing.....										
3353	Electrical equipment manufacturing										
3359	Other electrical equipment and component manufacturing										
3361	Motor vehicle manufacturing										
336A	Motor vehicle body, trailer, and parts manufacturing										
3364	Aerospace product and parts manufacturing										
336B	Other transportation equipment manufacturing										
3370	Furniture and related product manufacturing										
3391	Medical equipment and supplies manufacturing.....										
3399	Other miscellaneous manufacturing										

* Less than \$500,000.

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Ambulatory health care services	Hospital care	Nursing and residential care	Social assistance	Performing arts, spectator sports, and museums	Amusements, gambling, and recreation	Accommodations	Food and beverage services to customer order	Automotive repair and maintenance	Electronic, commercial, and household goods repair
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	6210	6220	6230	6240	71A0	7130	7210	7220	8111	811A
4200	Wholesale trade									4,646	29,070
4A00	Retail trade	191					394		11,792	57,470	5,615
4810	Air transportation										
4820	Rail transportation										
4830	Water transportation										
4840	Truck transportation									211	
4850	Transit and ground passenger transportation	1								20	
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support	4					2			16	
4920	Couriers and messengers									7	
4930	Warehousing and storage									2	
5111	Newspaper, book, and directory publishers										
5112	Software publishers										31
5120	Motion picture and sound recording industries						25				
5131	Radio and television broadcasting										2
5132	Cable networks and program distribution										33
5133	Telecommunications										1,620
5141	Information services										12
5142	Data processing services										6
52A0	Monetary authorities and credit intermediation										
5230	Securities, commodity contracts, investments										
5240	Insurance carriers and related activities										
5250	Funds, trusts, and other financial vehicles										
5310	Real estate							270			
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing										
532A	Consumer goods and general rental centers										66
532A	Machinery and equipment rental and leasing										765
5330	Lessors of nonfinancial intangible assets										
5411	Legal services										
5412	Accounting and bookkeeping services										
5413	Architectural and engineering services										
5414	Specialized design services										
5415	Computer systems design and related services										3,387
5416	Management and technical consulting services										
5417	Scientific research and development services										
5418	Advertising and related services										
5419	Other professional and technical services										
5500	Management of companies and enterprises										
5613	Employment services										
5615	Travel arrangement and reservation services										
561A	All other administrative and support services										18
5620	Waste management and remediation services										
6100	Educational services					406		3,393	3,562		
6210	Ambulatory health care services	376,077									
6220	Hospitals	3,985	267,078	1,891					1,169		
6230	Nursing and residential care facilities	75		91,685					174		
6240	Social assistance			7	66,192				177		
71A0	Performing arts, spectator sports, and museums					51,720	506		226		
7130	Amusements, gambling, and recreation				83	68	60,457	305	8,565		341
7210	Accommodation						17,186	73,074	19,398		
7220	Food services and drinking places						871	360	296,722		
8111	Automotive repair and maintenance									83,180	417
811A	Electronic, commercial, and household goods repair									99	53,119
8120	Personal and laundry services										136
813A	Religious, grantmaking, and social advocacy organizations								17		
813B	Civic, social, professional and similar organizations								2,432		
8140	Private households										
S001	Federal Government enterprises								1,883		
S002	State and local government enterprises										
S005	General government industry						423				
S007	Inventory valuation adjustment										
	Total commodity output	380,333	267,078	93,584	66,275	52,194	81,014	77,402	346,117	145,651	94,947

Table 1. The Make of Commodities by
[Millions of dollars]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Personal and laundry services	Religious, grantmaking, and social advocacy	Civic, social, professional and similar organizations	Private household services	Federal Government enterprise services	State and local government enterprise services	Scrap, used and second-hand goods	General government services	Inventory valuation adjustment	Total industry output
	For the distribution of commodities produced by an industry, read the row for that industry											Commodity number
		8120	813A	813B	8140	S001	S002	S004	S005	S007	
1110	Crop production.....										134,934
1120	Animal production										105,107
1130	Forestry and logging.....										28,115
1140	Fishing, hunting and trapping										6,048
1150	Agriculture and forestry support activities										12,335
2110	Oil and gas extraction										91,575
2121	Coal mining										23,408
2122	Metal ores mining										11,291
2123	Nonmetallic mineral mining and quarrying										17,181
2130	Support activities for mining										25,198
2211	Power generation and supply										225,526
2212	Natural gas distribution										56,609
2213	Water, sewage and other systems						729				6,123
2301	New residential construction										231,000
2302	New nonresidential construction										338,145
2303	Maintenance and repair construction										101,065
3110	Food manufacturing.....										410,522
3121	Beverage manufacturing										67,015
3122	Tobacco manufacturing										41,612
3130	Textile mills.....										58,341
3140	Textile product mills.....							93			31,028
3150	Apparel manufacturing							9			66,840
3160	Leather and allied product manufacturing										10,331
3210	Wood product manufacturing.....							50			88,665
3221	Pulp, paper, and paperboard mills							2			71,431
3222	Converted paper product manufacturing							334			77,273
3230	Printing and related support activities							57			97,676
3240	Petroleum and coal products manufacturing										174,393
3251	Basic chemical manufacturing										113,919
3252	Resin, rubber, and artificial fibers manufacturing										64,197
3253	Agricultural chemical manufacturing										24,009
3254	Pharmaceutical and medicine manufacturing										89,743
3255	Paint, coating, and adhesive manufacturing										25,759
3256	Soap, cleaning compound, and toiletry manufacturing										53,001
3259	Other chemical product and preparation manufacturing										37,916
3260	Plastics and rubber products manufacturing							116			157,597
3270	Nonmetallic mineral product manufacturing.....							13			85,898
331A	Iron and steel mills and forming steel products.....							275			77,329
331B	Nonferrous metal production and processing.....							409			62,282
3315	Foundries.....							78			28,768
3321	Forging and stamping.....							183			24,092
3322	Cutlery and handtool manufacturing.....							17			11,068
3323	Architectural and structural metals manufacturing							136			51,938
3324	Boiler, tank, and shipping container manufacturing							347			22,583
332A	Ordnance and accessories manufacturing							2			5,612
332B	Other fabricated metal product manufacturing							382			123,823
3331	Agriculture, construction, and mining machinery							29			52,237
3332	Industrial machinery manufacturing.....							86			35,133
3333	Commercial and service industry machinery							3			24,711
3334	HVAC and commercial refrigeration equipment							45			29,694
3335	Metalworking machinery manufacturing.....							21			29,843
3336	Turbine and power transmission equipment manufacturing							18			29,323
3339	Other general purpose machinery manufacturing							187			59,568
3341	Computer and peripheral equipment manufacturing.....							17			101,819
334A	Audio, video, and communications equipment manufacturing							2			90,116
3344	Semiconductor and electronic component manufacturing							8			137,280
3345	Electronic instrument manufacturing.....										87,554
3346	Magnetic media manufacturing and reproducing										9,671
3351	Electric lighting equipment manufacturing										12,284
3352	Household appliance manufacturing.....							4			20,632
3353	Electrical equipment manufacturing										35,048
3359	Other electrical equipment and component manufacturing							4			41,152
3361	Motor vehicle manufacturing.....										220,404
336A	Motor vehicle body, trailer, and parts manufacturing.....							679			197,216
3364	Aerospace product and parts manufacturing										117,336
336B	Other transportation equipment manufacturing							8			33,142
3370	Furniture and related product manufacturing										63,571
3391	Medical equipment and supplies manufacturing.....							42			44,104
3399	Other miscellaneous manufacturing							13			58,187

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity	Personal and laundry services	Religious, grantmaking, and social advocacy	Civic, social, professional and similar organizations	Private household services	Federal Government enterprise services	State and local government enterprise services	Scrap, used and second-hand goods	General government services	Inventory valuation adjustment	Total industry output
	For the distribution of commodities produced by an industry, read the row for that industry										
	Commodity number	8120	813A	813B	8140	S001	S002	S004	S005	S007	
4200	Wholesale trade										764,742
4A00	Retail trade	4,181									808,056
4810	Air transportation										119,626
4820	Rail transportation										42,262
4830	Water transportation										24,589
4840	Truck transportation										169,084
4850	Transit and ground passenger transportation										24,713
4860	Pipeline transportation										27,507
48A0	Sightseeing transportation and transportation support										42,754
4920	Couriers and messengers										41,975
4930	Warehousing and storage										27,211
5111	Newspaper, book, and directory publishers										117,082
5112	Software publishers										66,187
5120	Motion picture and sound recording industries										61,357
5131	Radio and television broadcasting										41,369
5132	Cable networks and program distribution										46,540
5133	Telecommunications										288,812
5141	Information services										11,810
5142	Data processing services										35,409
52A0	Monetary authorities and credit intermediation										481,521
5230	Securities, commodity contracts, investments										199,457
5240	Insurance carriers and related activities										343,461
5250	Funds, trusts, and other financial vehicles										64,333
5310	Real estate										611,139
S008	Owner-occupied dwellings										635,937
5321	Automotive equipment rental and leasing										30,719
532A	Consumer goods and general rental centers										19,154
532A	Machinery and equipment rental and leasing										30,775
5330	Lessors of nonfinancial intangible assets										102,023
5411	Legal services										152,096
5412	Accounting and bookkeeping services										72,086
5413	Architectural and engineering services										131,420
5414	Specialized design services										17,851
5415	Computer systems design and related services										101,417
5416	Management and technical consulting services										86,178
5417	Scientific research and development services										60,198
5418	Advertising and related services										57,929
5419	Other professional and technical services										63,437
5500	Management of companies and enterprises										319,768
5613	Employment services										90,349
5615	Travel arrangement and reservation services										25,190
561A	All other administrative and support services										190,312
5620	Waste management and remediation services							1,721			41,959
6100	Educational services	88									111,509
6210	Ambulatory health care services										381,108
6220	Hospitals										275,388
6230	Nursing and residential care facilities										92,222
6240	Social assistance										66,885
71A0	Performing arts, spectator sports, and museums										55,418
7130	Amusements, gambling, and recreation										71,822
7210	Accommodation										113,584
7220	Food services and drinking places							100			299,769
8111	Automotive repair and maintenance										84,918
811A	Electronic, commercial, and household goods repair										55,508
8120	Personal and laundry services	91,058									91,815
813A	Religious, grantmaking, and social advocacy organizations		54,376								54,852
813B	Civic, social, professional and similar organizations			44,727							48,695
8140	Private households				12,035						12,035
S001	Federal Government enterprises	2				60,927					74,622
S002	State and local government enterprises	1,191					42,330				124,356
S005	General government industry								937,812		951,027
S007	Inventory valuation adjustment									9,211	9,211
	Total commodity output	96,520	54,376	44,727	12,035	60,927	43,059	5,490	937,812	9,211	14,862,876

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Crop production	Animal production	Forestry and logging	Fishing, hunting and trapping	Agriculture and forestry support activities	Oil and gas extraction	Coal mining	Metal ores mining	Non- metallic mineral mining and quarrying	Support activities for mining
	For the composition of inputs to an industry read the column for that industry											Industry number
		1110	1120	1130	1140	1150	2110	2121	2122	2123	2130
1110	Crop products.....	7,241	26,094			663	(*)				
1120	Animal products.....		16,806	35		1,155					
1130	Forestry and logging products.....	5		7,899		25		14			
1140	Fish and other nonfarm animals.....				322						
1150	Agriculture and forestry support services.....	8,978	1,932	2,988	796						
2110	Oil and gas.....			3			11,556	5	65	136	11
2121	Coal.....		57	1				1,948	4	40	
2122	Metal ores.....								992		
2123	Nonmetallic minerals.....	303	7			1		1,062	20	912	18
2130	Mining support services.....						1,726	448	124	179	215
2211	Electric power.....	1,273	1,771	19	4	46	1,633	431	731	670	105
2212	Natural gas distribution.....	210		111	1	1	19	1		25	48
2213	Water and sewage treatment.....	909	209	3	3		73	3		8	20
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	443	299	7	350	24	3	(*)	(*)	(*)	26
3110	Food products.....	27	18,393	95	14	48					
3121	Beverage products.....		34		56						
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	87	6			20		19			
3140	Nonapparel textile products.....	156	94		45	362					
3150	Apparel.....						1	2			
3160	Leather and allied products.....	1	41				1				
3210	Wood products.....	547	95	29			2	41	28	2	20
3221	Pulp, paper, and paperboard.....		(*)	2	5	1	45	13	9	14	17
3222	Converted paper products.....	386	173	2	2	4	81	17	8	12	20
3230	Printed products.....	36	35	2	1	(*)	2	(*)		3	2
3240	Petroleum and coal products.....	3,588	1,685	192	317	56	800	562	332	554	853
3251	Basic chemicals.....	961					1,159	13	133	120	270
3252	Resins, rubber, and artificial fibers.....										
3253	Agricultural chemicals.....	12,439	671	5	3	1,278					2
3254	Pharmaceuticals and medicines.....		279				1				
3255	Paints, coatings, and adhesives.....	2	4	218		2					5
3256	Soaps, cleaning compounds, and toiletries.....		61		7		1				69
3259	Other chemical products.....	63	156	33	(*)	2	528	298	200	194	238
3260	Plastics and rubber products.....	720	299	42	8	16	449	335	197	154	115
3270	Nonmetallic mineral products.....	274	93	1		6	331	85	84	13	414
331A	Primary ferrous metal products.....	663	40				1,175	229	130	74	485
331B	Primary nonferrous metal products.....						1	12			
3315	Foundry products.....								121		
3321	Forgings and stampings.....		30			3	2	2	68	2	
3322	Cutlery and handtools.....	215	192	2		2	3	2	1	(*)	
3323	Architectural and structural metal products.....	104	85				107	60	24	77	280
3324	Boilers, tanks, and shipping containers.....		(*)			8					
332A	Ordnance and accessories.....										
332B	Other fabricated metal products.....	99	74	10	1	14	1,337	302	81	134	335
3331	Agriculture, construction, and mining machinery.....	750	592	14	7	9	730	866	527	494	447
3332	Industrial machinery.....										
3333	Commercial and service industry machinery.....			(*)			(*)		(*)		
3334	HVAC and commercial refrigeration equipment.....				1		51	16		2	
3335	Metalworking machinery.....		(*)	21		1	11	3	7	3	5
3336	Turbine and power transmission equipment.....						32	28	3	19	1
3339	Other general purpose machinery.....	688	550	24		(*)	254	174	129	181	229
3341	Computer and peripheral equipment.....						1				
334A	Audio, video, and communications equipment.....										
3344	Semiconductors and electronic components.....						2	1			
3345	Electronic instruments.....	(*)	1	1		2		1	2		101
3346	Magnetic media products.....						2	1	(*)	(*)	(*)
3351	Electric lighting equipment.....	2	5		1	1	1	11		1	22
3352	Household appliances.....										
3353	Electrical equipment.....	20	19		2		18	14	5	17	1
3359	Other electrical equipment and components.....	286	219	2	1	3	6	11	1		29
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	338	261	67	14	14	398	108	49	114	127
336A	Aerospace products and parts.....										
336B	Other transportation equipment.....			2				11			
3370	Furniture and related products.....						(*)	(*)		(*)	
3391	Medical equipment and supplies.....										1
3399	Other miscellaneous manufactured products.....	32	29	8	1	1	84	6	2	9	8

Industries Before Redefinitions, 1997

at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Crop production	Animal production	Forestry and logging	Fishing, hunting and trapping	Agriculture and forestry support activities	Oil and gas extraction	Coal mining	Metal ores mining	Non- metallic mineral mining and quarrying	Support activities for mining
	For the composition of inputs to an industry read the column for that industry											Industry number
		1110	1120	1130	1140	1150	2110	2121	2122	2123	2130
4200	Wholesale trade	5,405	4,069	501	197	466	1,176	598	300	336	555
4A00	Retail trade	83	74	51	5	14	68	50	18	86	52
4810	Air transportation	116	95	4	4	122	41	24	12	13	36
4820	Rail transportation	400	779	5	26	25	68	750	22	48	41
4830	Water transportation	76	45	2	39	3	39	98	8	18	47
4840	Truck transportation	1,165	1,510	34	27	89	318	309	214	384	257
4850	Transit and ground passenger transportation	6	5				1	21	5	8	11
4860	Pipeline transportation	26	12	1	1	(*)	515	6	32	66	11
48A0	Sightseeing transportation and transportation support				138	2	2	4	2	1	4
4920	Courier and messenger services					(*)	109	24	11	17	20
4930	Warehousing and storage	776	679	10		(*)	184	27	19	91	187
5111	Newspapers, books, and directories	21	23	1		1	1	1		30	2
5112	Software										
5120	Motion pictures and sound recordings										(*)
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications	302	268	36		(*)	82	15	8	24	102
5141	Information services	22	19	3			6	1	(*)	1	6
5142	Data processing services			3		1	46	6	2	14	42
52A0	Monetary oversight and credit intermediation	1,541	1,037	268	47	115	967	245	109	164	275
5230	Securities, commodity contracts, investments	20	18	12	12	24	242	212	98	142	206
5240	Insurance carriers and related services	1,752	596	60	35	44	92	29	22	43	44
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	12,678	5,628	93	3	4	293	263	29	131	201
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	297	110	40	3	8	51	33	12	35	36
532A	Consumer goods and general rentals				1	(*)	(*)	3	4	2	30
532A	Machinery and equipment rental and leasing	374	137	112	40	40	537	304	68	202	257
5330	Rights to nonfinancial intangible assets						18,242	344	59	115	242
5411	Legal services	133	154	18	13	132	693	148	17	18	314
5412	Accounting and bookkeeping services	252	243	35	1	41	53	6	4	25	64
5413	Architectural and engineering services		(*)	1	3	751	432	161	138	112	371
5414	Specialized design services			(*)			54	2	1	1	2
5415	Computer systems design and related services			1		2	603	8	91	3	32
5416	Management and technical consulting services		(*)	2	8	1	246	56	28	37	97
5417	Scientific research and development services			14		8	1,096	42	29	134	272
5418	Advertising and related services	155	193	6	5	1	63	12	7	61	131
5419	Other professional and technical services	20	773	13	8	7	617	6	2	3	9
5500	Management of companies and enterprises			169		10	4,494	776	565	837	4,429
5613	Employment services					(*)	84	17	8	14	138
5615	Travel arrangement and reservation services				5	(*)	(*)	1			
561A	All other administrative and support services	(*)	2	10	11	4	168	44	29	47	238
5620	Waste management and remediation services	224	339	7	4		27	10	7	6	14
6100	Educational services						7	53	1	1	3
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	16	12	20		(*)	1	626	3	169	516
7130	Amusements, gambling, and recreation	9	9	(*)	94	121	1	(*)	35	73	109
7210	Accommodations	56	40	1	(*)	1	13	3	1	29	16
7220	Food and beverage services to customer order	32	30	(*)		(*)	8	(*)	46	47	43
8111	Automotive repair and maintenance	231	177	113		(*)	12	2	2	2	14
811A	Electronic, commercial, and household goods repair	831	650	297	2	1	58	19	2	17	76
8120	Personal and laundry services		3			16	1	1			(*)
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	208	235	1		(*)	88	19	9	14	19
8140	Private household services										
S001	Federal Government enterprise services	46	42	9	3	6	1	1	10	9	19
S002	State and local government enterprise services			5	4		1	3	3		1
S003	Noncomparable imports	26	23	4	9		317	14	202	6	242
S004	Scrap, used and secondhand goods		(*)			1					
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	69,146	89,415	13,799	2,705	5,826	54,838	12,546	6,369	7,800	14,368
	Total value added	65,788	15,692	14,317	3,343	6,510	36,736	10,862	4,922	9,382	10,831
V001	Compensation of employees	12,617	5,840	3,181	512	5,984	6,835	5,415	2,635	4,474	7,323
V002	Indirect business tax and nontax liability	2,571	1,832	825	352	273	6,899	2,322	530	482	1,328
V003	Other value added	50,601	8,020	10,311	2,479	253	23,002	3,126	1,758	4,426	2,179
	Total industry output	134,934	105,107	28,115	6,048	12,335	91,575	23,408	11,291	17,181	25,198

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Power generation and supply	Natural gas distribution	Water, sewage and other systems	New residential construc- tion	New non- residential construc- tion	Mainte- nance and repair construc- tion	Food manufac- turing	Beverage manufac- turing	Tobacco manufac- turing	Textile mills
	For the composition of inputs to an industry read the column for that industry											Industry number
		2211	2212	2213	2301	2302	2303	3110	3121	3122	3130
1110	Crop products.....	23	6		591	319	212	40,104	1,246	2,872	3,295
1120	Animal products.....							77,957			336
1130	Forestry and logging products.....							60	11		3
1140	Fish and other nonfarm animals.....							2,606			
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	14,930	21,544					14	1	1	5
2121	Coal.....	15,098						96	13	12	23
2122	Metal ores.....										
2123	Nonmetallic minerals.....				1,649	1,734	898				
2130	Mining support services.....										
2211	Electric power.....	58	52	97	722	1,131	336	2,784	296	78	1,186
2212	Natural gas distribution.....	8	43	65	177	316	98	2,039	172	173	459
2213	Water and sewage treatment.....	149	16		109	114	80	8	16	(*)	2
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	3,531	69	578	245	456	131	645	64	13	172
3110	Food products.....							66,089	8,614		4
3121	Beverage products.....							212	1,403		
3122	Tobacco products.....									3,922	
3130	Yarn, fabrics, and other textile mill products.....	3	1		54	44	24	3	3		12,205
3140	Nonapparel textile products.....	2			546	309	166	122	21	3	177
3150	Apparel.....	2	(*)					1	1		139
3160	Leather and allied products.....	3	2		1	1	1	9	(*)	(*)	(*)
3210	Wood products.....	523	54	3	12,006	7,793	4,045	273	153	2	63
3221	Pulp, paper, and paperboard.....	164	7	7	111	201	79	687	54	190	119
3222	Converted paper products.....	220	29	8	1,239	514	226	11,498	1,459	509	269
3230	Printed products.....	97	31	4	28	35	16	985	446	233	462
3240	Petroleum and coal products.....	2,630	574	56	2,793	7,435	3,288	465	49	52	83
3251	Basic chemicals.....	179	4	19	59	132	33	1,183	45	10	1,147
3252	Resins, rubber, and artificial fibers.....							193		404	9,782
3253	Agricultural chemicals.....				395	446	143	1	(*)		
3254	Pharmaceuticals and medicines.....							1,214			
3255	Paints, coatings, and adhesives.....	122	5	1	2,272	1,462	950	23	3	2	134
3256	Soaps, cleaning compounds, and toiletries.....	4	1		25	37	20	389	35	54	97
3259	Other chemical products.....	138	9	39	184	307	134	843	72	16	88
3260	Plastics and rubber products.....	793	117	71	6,301	6,669	2,675	7,578	2,416	103	230
3270	Nonmetallic mineral products.....	1,233	105	42	13,977	12,581	2,723	1,169	2,499	1	365
331A	Primary ferrous metal products.....	352	91	8	1,167	1,386	674	14	(*)	2	1
331B	Primary nonferrous metal products.....	400	9		163	279	105	1			(*)
3315	Foundry products.....	16	36		423	161	43				
3321	Forgings and stampings.....	141	24	1	125	541	255	276	20		3
3322	Cutlery and handtools.....	27	11	(*)	427	16	24	17	55	1	1
3323	Architectural and structural metal products.....	521	105	2	5,649	13,601	2,808	35	3		9
3324	Boilers, tanks, and shipping containers.....	1	(*)	8	443	1,189	161	2,973	5,898	(*)	(*)
332A	Ordnance and accessories.....										
332B	Other fabricated metal products.....	1,384	60	34	4,884	6,846	1,780	946	282	176	263
3331	Agriculture, construction, and mining machinery.....	9	1		326	66	79				
3332	Industrial machinery.....						(*)	34			456
3333	Commercial and service industry machinery.....	3			347	1,422	1	1	(*)		(*)
3334	HVAC and commercial refrigeration equipment.....	43	101		3,077	3,239	1,571	96	12	6	3
3335	Metalworking machinery.....	19	4	1			(*)	29	11	8	15
3336	Turbine and power transmission equipment.....	262	44				(*)				
3339	Other general purpose machinery.....	94	2	(*)	560	3,087	183	97	221	(*)	5
3341	Computer and peripheral equipment.....	1	1					4	4	4	3
334A	Audio, video, and communications equipment.....				269	1,575	175	18	17		6
3344	Semiconductors and electronic components.....	2	1		133			1	513	75	565
3345	Electronic instruments.....	75	13	78	278	772	174	13	3	3	1
3346	Magnetic media products.....	16	6	(*)	8	11	4	9	7	1	8
3351	Electric lighting equipment.....	126	33	17	1,093	4,000	638	35	5	6	2
3352	Household appliances.....		8		947	273	190				
3353	Electrical equipment.....	1,008	32		623	761	330	523	73	16	63
3359	Other electrical equipment and components.....	1,521	90	7	3,050	2,842	1,183	20	5	1	4
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	92	28	12	1,095	1,497	574	138	42	1	5
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....	3	(*)		24	28	14				
3370	Furniture and related products.....	74	12	1	3,994	1,291	538	13	1	(*)	4
3391	Medical equipment and supplies.....					249		15			
3399	Other miscellaneous manufactured products.....	20	12	2	305	310	78	149	9	10	5

Industries Before Redefinitions, 1997—Continued
 at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Power generation and supply	Natural gas distribution	Water, sewage and other systems	New residential construction	New non-residential construction	Maintenance and repair construction	Food manufacturing	Beverage manufacturing	Tobacco manufacturing	Textile mills
	For the composition of inputs to an industry read the column for that industry										
	Industry number	2211	2212	2213	2301	2302	2303	3110	3121	3122	3130
4200	Wholesale trade	2,025	207	95	8,468	9,306	3,047	23,775	4,442	937	2,777
4A00	Retail trade	104	25	22	19,889	11,913	6,260	1,106	225	63	97
4810	Air transportation	251	71	6	429	732	213	1,595	272	91	186
4820	Rail transportation	5,852	10	2	539	502	200	2,241	173	24	204
4830	Water transportation	602	6	1	165	215	95	168	27	6	30
4840	Truck transportation	932	50	18	3,427	4,038	1,469	7,552	1,043	224	1,197
4850	Transit and ground passenger transportation	27	9	(*)	30	41	16	111	18	11	17
4860	Pipeline transportation	6,679	9,752	1	9	39	12	1			(*)
48A0	Sightseeing transportation and transportation support	74	10		72	513	142	362	14	23	139
4920	Courier and messenger services	643	18	13	517	505	132	476	69	42	70
4930	Warehousing and storage	7	1		2	29	8	1,415	96	34	125
5111	Newspapers, books, and directories	13	1	1	1	1	(*)	13	5	(*)	4
5112	Software										
5120	Motion pictures and sound recordings	2			32	54	17	179	62	83	9
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications	259	68	65	1,792	2,692	779	758	95	28	94
5141	Information services	69	5	2	101	190	54	67	6	2	51
5142	Data processing services	313	10		120	130	90	697	104	38	82
52A0	Monetary oversight and credit intermediation	2,517	532	56	2,841	3,766	1,238	4,316	646	393	595
5230	Securities, commodity contracts, investments	490	78	9	1,024	1,000	307	637	128	73	60
5240	Insurance carriers and related services	428	212	24	1,034	2,980	641	2,093	140	49	72
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	1,682	168	37	1,413	2,500	732	966	181	27	243
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	106	35	6	126	756	240	736	100	17	98
532A	Consumer goods and general rentals	2	1		66	48	31	162	25	3	22
5324	Machinery and equipment rental and leasing	301	81	4	1,311	4,860	1,421	449	68	11	66
5330	Rights to nonfinancial intangible assets	152	75	17	108	81	47	2,435	1,568	1,079	135
5411	Legal services	3,246	243	77	1,462	768	110	309	85	377	52
5412	Accounting and bookkeeping services	305	207	177	830	909	612	312	32	4	84
5413	Architectural and engineering services	1,458	353	17	8,267	27,404	3,975	615	105	80	88
5414	Specialized design services	61	16	1	339	51	16	63	20	7	8
5415	Computer systems design and related services	565	47	1	204	247	131	129	20	219	20
5416	Management and technical consulting services	861	187	61	968	976	356	776	118	69	113
5417	Scientific research and development services	181	45	5	26	11	3	1,294	185	52	260
5418	Advertising and related services	1,764	21	2	370	389	286	3,319	921	238	48
5419	Other professional and technical services	930	180	12	108	118	41	2,193	386	222	368
5500	Management of companies and enterprises	264	62	21	531	858	310	15,083	1,694	4,088	1,974
5613	Employment services	910	234	17	1,647	2,257	604	480	76	47	67
5615	Travel arrangement and reservation services	8	(*)		1		1	9	1	2	1
561A	All other administrative and support services	1,371	240	22	1,916	2,294	663	901	139	82	144
5620	Waste management and remediation services	94	22	2	354	397	246	556	70	158	68
6100	Educational services	654	90	1	36	33	8	32	5	3	4
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	40	13	1	46	83	150	202	28	17	27
7130	Amusements, gambling, and recreation	23	7	1	29	46	14	115	16	10	16
7210	Accommodations	127	27	3	164	296	95	648	90	54	89
7220	Food and beverage services to customer order	1,668	65	5	240	380	121	953	146	88	167
8111	Automotive repair and maintenance	145	54	2	434	1,232	374	753	62	50	184
811A	Electronic, commercial, and household goods repair	352	88	134	1,300	3,542	1,099	2,124	169	143	533
8120	Personal and laundry services	167	2	1				96	73		136
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	205	54	5	565	498	121	357	48	29	48
8140	Private household services										
S001	Federal Government enterprise services	569	180	30	237	296	127	155	153	56	44
S002	State and local government enterprise services	14	8		171	181	126	380	159	40	63
S003	Noncomparable imports	41	20		184	229		620	78	34	46
S004	Scrap, used and secondhand goods	(*)			4	3	2				24
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	85,670	37,277	2,137	136,837	177,862	54,638	309,485	40,657	18,383	43,325
	Total value added	139,855	19,332	3,986	94,163	160,283	46,427	101,037	26,358	23,229	15,016
V001	Compensation of employees	32,830	6,962	1,426	70,845	144,100	39,761	49,552	6,661	2,204	12,405
V002	Indirect business tax and nontax liability	23,107	5,420	209	1,989	3,215	1,143	2,936	7,660	5,991	395
V003	Other value added	83,919	6,950	2,351	21,329	12,968	5,523	48,549	12,038	15,034	2,217
	Total industry output	225,526	56,609	6,123	231,000	338,145	101,065	410,522	67,015	41,612	58,341

* Less than \$500,000.

Table 2. The Use of Commodities by
 [Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	Textile product mills	Apparel manufac- turing	Leather and allied product manufac- turing	Wood product manufac- turing	Pulp, paper, and paper- board mills	Converted paper product manufac- turing	Printing and related support activities	Petroleum and coal products manufac- turing	Basic chemical manufac- turing	Resin, rubber, and artificial fibers manufac- turing
		3140	3150	3160	3210	3221	3222	3230	3240	3251	3252
1110	Crop products.....	24	2						(*)	708	
1120	Animal products.....	34	5								
1130	Forestry and logging products.....		33	12	14,619	4,423	17	11	2	67	2
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	1	2	1	7	16	1	4	91,368	1,317	884
2121	Coal.....	2	2		2	234	25		7	52	16
2122	Metal ores.....								32	1,073	
2123	Nonmetallic minerals.....					278			704	229	
2130	Mining support services.....										
2211	Electric power.....	222	435	56	990	1,967	604	788	1,687	3,080	944
2212	Natural gas distribution.....	125	165	26	295	1,932	209	277	2,175	1,691	663
2213	Water and sewage treatment.....	(*)	(*)	(*)	3	19	1	1	11	84	7
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	45	80	13	121	224	172	180	163	542	210
3110	Food products.....	30		986	18	876	76	52	162	1	28
3121	Beverage products.....										
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	8,002	18,810	437	2	253	855	497			13
3140	Nonapparel textile products.....	633	375	2	312	82	91	(*)	1	2	2
3150	Apparel.....	242	6,202		1	5	62	557			2
3160	Leather and allied products.....	563	352	2,107	11	1	(*)	564	3	1	1
3210	Wood products.....	49	13	63	21,424	3,320	79	31	34	164	41
3221	Pulp, paper, and paperboard.....	37	89	10	49	5,475	25,188	14,427	211	67	105
3222	Converted paper products.....	68	130	80	290	926	2,134	3,270	278	479	442
3230	Printed products.....	9	497	1	10	11	160	5,422	8	12	27
3240	Petroleum and coal products.....	15	54	5	174	705	255	161	16,832	5,019	471
3251	Basic chemicals.....	198	21	117	198	4,306	315	92	3,256	26,393	22,546
3252	Resins, rubber, and artificial fibers.....	3,908	446	80	539	446	555	37		82	3,177
3253	Agricultural chemicals.....					5				554	40
3254	Pharmaceuticals and medicines.....										
3255	Paints, coatings, and adhesives.....	21	1	34	478	72	1,193	281	3	64	24
3256	Soaps, cleaning compounds, and toiletries.....	16	30	124	2	220	32		548	309	90
3259	Other chemical products.....	103	58	10	104	579	748	3,260	301	912	357
3260	Plastics and rubber products.....	220	77	363	807	759	2,056	655	362	1,248	476
3270	Nonmetallic mineral products.....	4	5	2	1,014	150	11	13	773	218	40
331A	Primary ferrous metal products.....	8	3		55	4	146	157	19	250	3
331B	Primary nonferrous metal products.....		(*)		15	1	197	4	1	25	1
3315	Foundry products.....				3		1		(*)		
3321	Forgings and stampings.....	1	56	3	98	4	179	4	8	10	4
3322	Cutlery and handtools.....	1	10	(*)	12	37	55	2	3	6	8
3323	Architectural and structural metal products.....	1	5		697	21	21	10	16	105	18
3324	Boilers, tanks, and shipping containers.....					51	1	(*)	150	436	4
332A	Ordinance and accessories.....										
332B	Other fabricated metal products.....	158	290	106	1,315	697	635	498	874	1,719	522
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery.....					378		1,025		609	
3333	Commercial and service industry machinery.....	(*)			1	1	1	60	1	1	1
3334	HVAC and commercial refrigeration equipment.....	(*)	57		128	7	7	3	4	247	130
3335	Metalworking machinery.....	10	2	1	31	34	45	72	20	40	27
3336	Turbine and power transmission equipment.....										
3339	Other general purpose machinery.....	1	1	1	9	5	4	77	10	19	68
3341	Computer and peripheral equipment.....		(*)			(*)		69	(*)		
334A	Audio, video, and communications equipment.....	(*)	(*)		(*)	1	1	5	1	4	2
3344	Semiconductors and electronic components.....	325	654	86	863	737	805	906	356	1,045	680
3345	Electronic instruments.....	(*)	1		1	112	12	184	19	629	4
3346	Magnetic media products.....	(*)	1	(*)	(*)	1	1	6	1	2	1
3351	Electric lighting equipment.....	(*)	1		18	4	5	2	7	7	3
3352	Household appliances.....				392	(*)		(*)	(*)	1	(*)
3353	Electrical equipment.....	36	186	7	282	154	96	80	298	312	211
3359	Other electrical equipment and components.....	1	2		57	7	9	5	5	105	6
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	3	17		414	19	11	31	14	13	1
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....				1						
3370	Furniture and related products.....	1	2		286	6	4	4	7	13	5
3391	Medical equipment and supplies.....				3				1	10	
3399	Other miscellaneous manufactured products.....	4	689	13	44	10	8	39	8	333	118

Industries Before Redefinitions, 1997—Continued

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 Industry number	Textile product mills	Apparel manufac- turing	Leather and allied product manufac- turing	Wood product manufac- turing	Pulp, paper, and paper- board mills	Converted paper product manufac- turing	Printing and related support activities	Petroleum and coal products manufac- turing	Basic chemical manufac- turing	Resin, rubber, and artificial fibers manufac- turing
		3140	3150	3160	3210	3221	3222	3230	3240	3251	3252
4200	Wholesale trade	1,487	3,254	643	5,705	4,173	4,103	5,260	8,740	6,111	3,036
4A00	Retail trade	22	22	8	118	116	155	72	86	211	121
4810	Air transportation	101	269	42	260	220	305	479	445	343	196
4820	Rail transportation	76	23	8	505	441	462	472	398	527	342
4830	Water transportation	162	1	2	76	128	19	18	360	186	32
4840	Truck transportation	591	580	158	2,648	1,908	2,052	2,213	1,019	1,435	1,097
4850	Transit and ground passenger transportation	7	20	2	21	23	21	29	55	35	20
4860	Pipeline transportation .....	.....	(*)	.....	1	6	2	1	5,750	271	181
48A0	Sightseeing transportation and transportation support	20	5	1	35	25	16	35	169	21	43
4920	Courier and messenger services	24	77	12	103	83	90	113	213	127	77
4930	Warehousing and storage	48	347	9	119	70	99	295	354	725	374
5111	Newspapers, books, and directories	1	.....	.....	20	16	39	230	6	21	2
5112	Software .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5120	Motion pictures and sound recordings	3	19	2	3	4	7	7	16	13	19
5131	Radio and television broadcasting .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5132	Cable networks and program distribution .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5133	Telecommunications	75	115	22	179	101	169	452	137	202	72
5141	Information services	5	7	1	12	6	10	30	8	13	4
5142	Data processing services	57	126	20	145	121	134	186	99	272	124
52A0	Monetary oversight and credit intermediation	308	727	101	916	772	812	1,043	1,901	1,197	681
5230	Securities, commodity contracts, investments	49	80	18	142	56	143	124	388	144	139
5240	Insurance carriers and related services	37	73	16	118	103	94	124	140	143	69
5250	Funds, trusts, and other financial vehicles .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5310	Real estate	186	446	46	235	165	424	1,053	212	230	65
S008	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5321	Automotive equipment rental and leasing	72	133	20	121	121	159	450	130	296	100
532A	Consumer goods and general rentals	15	33	4	25	31	38	116	30	76	24
5324	Machinery and equipment rental and leasing	48	91	14	80	81	106	308	94	215	68
5330	Rights to nonfinancial intangible assets	32	179	32	136	33	36	100	1,147	2,129	104
5411	Legal services	35	67	23	115	69	63	216	670	670	395
5412	Accounting and bookkeeping services	36	83	16	98	25	57	275	95	225	104
5413	Architectural and engineering services	47	129	22	156	95	158	160	720	2,319	578
5414	Specialized design services	4	11	3	13	10	10	21	21	15	8
5415	Computer systems design and related services	12	35	7	27	41	30	186	245	65	42
5416	Management and technical consulting services	45	125	19	173	146	146	191	798	688	125
5417	Scientific research and development services	94	303	16	222	122	186	652	747	1,685	872
5418	Advertising and related services	127	218	151	169	39	135	558	76	241	55
5419	Other professional and technical services	194	404	64	545	430	477	599	1,083	716	402
5500	Management of companies and enterprises	858	2,235	458	1,172	2,082	3,871	2,716	3,640	6,864	3,533
5613	Employment services	34	76	11	101	82	88	116	207	146	83
5615	Travel arrangement and reservation services .....	.....	2	.....	(*)	(*)	1	1	(*)	1	2
561A	All other administrative and support services	61	1,766	26	218	168	174	288	344	273	147
5620	Waste management and remediation services	35	45	15	130	271	120	176	239	431	183
6100	Educational services	2	5	1	6	46	6	30	98	8	79
6210	Ambulatory health care services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6220	Hospital care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6230	Nursing and residential care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6240	Social assistance .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71A0	Performing arts, spectator sports, and museums	14	32	4	42	34	37	47	84	54	32
7130	Amusements, gambling, and recreation	8	18	2	25	19	21	27	48	31	18
7210	Accommodations	47	101	15	137	109	118	149	266	173	98
7220	Food and beverage services to customer order	87	214	26	257	189	191	253	429	293	168
8111	Automotive repair and maintenance	50	36	11	280	540	198	218	412	472	190
811A	Electronic, commercial, and household goods repair	144	114	32	804	1,483	566	645	1,198	1,478	579
8120	Personal and laundry services	21	19	2	4	7	.....	.....	2	7	3
813A	Religious, grantmaking, and social advocacy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
813B	Civic, social, professional and similar organizations	25	54	8	72	59	63	79	143	92	53
8140	Private household services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S001	Federal Government enterprise services	38	54	16	58	49	43	136	55	74	19
S002	State and local government enterprise services	74	211	34	133	188	94	103	62	111	69
S003	Noncomparable imports	32	29	28	32	28	65	84	279	631	282
S004	Scrap, used and secondhand goods	74	.....	.....	.....	2,053	25	.....	.....	.....	.....
S005	General government services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S006	Rest of the world adjustment to final uses .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S007	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total intermediate inputs	20,747	42,870	6,936	62,909	46,759	53,522	54,956	154,598	83,007	47,528
	Total value added	10,281	23,970	3,395	25,756	24,672	23,751	42,720	19,796	30,912	16,669
V001	Compensation of employees	6,201	15,372	2,248	17,837	12,340	15,677	30,745	7,151	13,264	6,986
V002	Indirect business tax and nontax liability	162	278	54	1,229	574	774	848	1,794	1,868	1,020
V003	Other value added	3,919	8,320	1,092	6,689	11,758	7,299	11,128	10,851	15,780	8,663
	Total industry output	31,028	66,840	10,331	88,665	71,431	77,273	97,676	174,393	113,919	64,197

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Agricultural chemical manufacturing	Pharmaceutical and medicine manufacturing	Paint, coating, and adhesive manufacturing	Soap, cleaning compound, and toiletary manufacturing	Other chemical product and preparation manufacturing	Plastics and rubber products manufacturing	Non-metallic mineral product manufacturing	Iron and steel mills and forming steel products	Nonferrous metal production and processing	Foundries
	For the composition of inputs to an industry read the column for that industry											Industry number
		3253	3254	3255	3256	3259	3260	3270	331A	331B	3315
1110	Crop products.....		340			158					
1120	Animal products.....				1						
1130	Forestry and logging products.....	22	1	18		2	1,186	1		8	
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	847	43	11	25	40	18	21	8	8	2
2121	Coal.....	7	4	1	2	3	4	239	1,803	73	33
2122	Metal ores.....	26		35		2		73	2,162	3,050	248
2123	Nonmetallic minerals.....	838	1	186		82	1	4,735	317	5	188
2130	Mining support services.....										
2211	Electric power.....	284	432	134	193	285	2,421	1,612	1,800	1,721	685
2212	Natural gas distribution.....	258	148	36	86	115	363	1,618	927	433	197
2213	Water and sewage treatment.....	4	2	(*)	1	1	1	2	200	2	1
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	84	188	35	71	86	314	256	195	166	78
3110	Food products.....	375	270	341	743	261	63	22	1		
3121	Beverage products.....										
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....		6	2	10	6	1,626	206	1	5	1
3140	Nonapparel textile products.....	(*)	1	(*)	5	2	1,594	13	1	(*)	(*)
3150	Apparel.....						9				
3160	Leather and allied products.....	(*)	1	(*)	(*)	(*)	1	(*)	1	(*)	(*)
3210	Wood products.....	15	37	6	13	22	207	373	55	138	68
3221	Pulp, paper, and paperboard.....	15	24	16	74	747	1,112	897	42	31	16
3222	Converted paper products.....	180	1,031	258	1,536	529	2,343	1,037	75	61	155
3230	Printed products.....	100	616	21	254	2	43	11	11	4	1
3240	Petroleum and coal products.....	178	75	278	622	603	572	237	696	169	80
3251	Basic chemicals.....	2,891	1,738	4,207	3,897	4,307	6,947	1,845	698	223	84
3252	Resins, rubber, and artificial fibers.....			2,933		2,304	27,002	145		37	
3253	Agricultural chemicals.....	2,661		4		198				2	
3254	Pharmaceuticals and medicines.....		15,849							3	
3255	Paints, coatings, and adhesives.....	2	4	322	106	508	238	513	5	3	2
3256	Soaps, cleaning compounds, and toiletries.....	66	2	8	3,182	126	134	65		(*)	
3259	Other chemical products.....	24	439	121	438	2,584	1,759	323	166	129	27
3260	Plastics and rubber products.....	129	1,790	439	3,110	476	9,647	889	112	99	62
3270	Nonmetallic mineral products.....	16	389	350	214	160	1,176	8,705	1,336	458	460
331A	Primary ferrous metal products.....	1	2	(*)	3	4	939	562	15,795	199	840
331B	Primary nonferrous metal products.....	(*)	1	1		2	88	102	2,018	24,906	3,399
3315	Foundry products.....					19	30		254		190
3321	Forgings and stampings.....	1	80	86	122	30	130	68	174	5	163
3322	Cutlery and handtools.....	(*)	1	(*)	1	3	68	39	12	8	6
3323	Architectural and structural metal products.....	6	19	2	4	5	24	181	101	14	3
3324	Boilers, tanks, and shipping containers.....	70	55	664	441	98		2	6	5	2
332A	Ordnance and accessories.....										
332B	Other fabricated metal products.....	162	28	151	348	412	1,817	712	1,135	864	1,126
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery.....			50		44	734			55	126
3333	Commercial and service industry machinery.....				(*)	6	8	1	4	1	2
3334	HVAC and commercial refrigeration equipment.....	2	5	2	10	133	115	5	208	2	6
3335	Metalworking machinery.....	1	(*)	2	7	27	284	109	233	360	378
3336	Turbine and power transmission equipment.....					1	15	4	161	85	129
3339	Other general purpose machinery.....	(*)	12	100	87	32	82	17	85	12	11
3341	Computer and peripheral equipment.....		1			15	99		(*)		
334A	Audio, video, and communications equipment.....	1	1	(*)	(*)	16	2	1	1	1	(*)
3344	Semiconductors and electronic components.....	250	43	273	382	387	1,885	821	817	648	320
3345	Electronic instruments.....	5	21	3	23	47	121	20	9	3	(*)
3346	Magnetic media products.....	1	2	(*)	1	2	41	1	2	1	1
3351	Electric lighting equipment.....	1	3	1	7	2	14	4	68	2	1
3352	Household appliances.....		(*)				(*)		(*)		
3353	Electrical equipment.....	24	56	36	34	101	759	71	248	85	8
3359	Other electrical equipment and components.....	2	6	1	2	6	36	80	895	541	20
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	4	27	3	2	2	12	74	18	8	2
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....										
3370	Furniture and related products.....	2	5	1	3	3	13	5	13	4	4
3391	Medical equipment and supplies.....				34	50	54		53		
3399	Other miscellaneous manufactured products.....	2	10	1	10	98	32	135	9	14	4

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Agricultural chemical manufacturing	Pharmaceutical and medicine manufacturing	Paint, coating, and adhesive manufacturing	Soap, cleaning compound, and toiletary manufacturing	Other chemical product and preparation manufacturing	Plastics and rubber products manufacturing	Non- metallic mineral product manufacturing	Iron and steel mills and forming steel products	Nonferrous metal production and processing	Foundries
	For the composition of inputs to an industry read the column for that industry											Industry number
		3253	3254	3255	3256	3259	3260	3270	331A	331B	3315
4200	Wholesale trade	1,160	4,121	1,157	2,730	2,548	6,992	2,638	6,568	4,256	1,439
4A00	Retail trade	47	74	31	250	67	364	211	44	16	5
4810	Air transportation	62	262	75	173	119	535	226	277	244	100
4820	Rail transportation	166	39	134	95	165	737	574	1,403	468	137
4830	Water transportation	22	5	56	39	50	86	420	209	164	28
4840	Truck transportation	1,186	355	756	573	802	4,436	4,180	2,388	1,700	677
4850	Transit and ground passenger transportation	6	29	7	15	10	48	21	22	13	8
4860	Pipeline transportation	352	1	2	6	6	4	1	4	1	(*)
48A0	Sightseeing transportation and transportation support	14	1	6	17	10	45	83	64	25	16
4920	Courier and messenger services	25	98	11	61	43	184	99	91	71	33
4930	Warehousing and storage	113	688	145	299	145	247	170	82	67	51
5111	Newspapers, books, and directories	(*)	(*)	(*)	1	1	14	3	118	(*)	(*)
5112	Software										
5120	Motion pictures and sound recordings	7	141	10	83	2	17				
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications	23	202	68	108	89	390	217	97	77	54
5141	Information services	1	13	4	7	6	34	14	6	5	3
5142	Data processing services	60	315	75	119	75	208	153	154	101	52
52A0	Monetary oversight and credit intermediation	239	887	253	523	373	1,648	880	831	615	300
5230	Securities, commodity contracts, investments	52	65	38	99	64	243	174	180	172	76
5240	Insurance carriers and related services	31	13	22	37	39	178	139	111	78	40
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	42	164	94	173	119	981	377	71	74	78
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	39	74	70	117	71	349	242	137	59	50
532A	Consumer goods and general rentals	8	19	18	29	17	88	57	34	14	10
532A	Machinery and equipment rental and leasing	26	49	49	80	47	237	163	107	39	33
5330	Rights to nonfinancial intangible assets	80	3,405	7	915	59	265	153	119	50	93
5411	Legal services	148	376	165	290	111	299	126	90	77	56
5412	Accounting and bookkeeping services	32	234	56	105	72	219	130	34	32	39
5413	Architectural and engineering services	122	195	145	198	197	618	193	145	116	55
5414	Specialized design services	3	33	2	20	5	26	13	10	7	4
5415	Computer systems design and related services	6	70	12	23	125	87	32	64	23	13
5416	Management and technical consulting services	43	158	26	99	70	314	169	149	122	58
5417	Scientific research and development services	258	1,616	334	691	334	494	345	144	117	104
5418	Advertising and related services	35	1,769	128	1,029	64	450	223	29	42	47
5419	Other professional and technical services	150	858	158	319	237	972	523	480	383	345
5500	Management of companies and enterprises	1,036	6,623	1,352	2,798	1,571	4,805	3,040	1,332	1,100	1,270
5613	Employment services	30	116	29	66	47	181	97	89	71	32
5615	Travel arrangement and reservation services	(*)	(*)	1	3	(*)	2	(*)	(*)	(*)	(*)
561A	All other administrative and support services	64	174	35	121	86	387	217	175	139	74
5620	Waste management and remediation services	82	179	145	78	100	303	195	312	140	128
6100	Educational services	2	273	1	28	3	43	6	6	5	2
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	11	43	13	26	18	75	40	37	33	13
7130	Amusements, gambling, and recreation	7	25	7	15	10	43	23	21	17	8
7210	Accommodations	37	137	40	81	58	241	132	118	94	44
7220	Food and beverage services to customer order	58	220	63	132	100	424	227	201	164	92
8111	Automotive repair and maintenance	82	87	27	65	114	437	431	505	236	131
811A	Electronic, commercial, and household goods repair	245	319	91	213	338	1,259	1,236	1,429	673	376
8120	Personal and laundry services		32			(*)	4	9	14	9	7
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	20	70	21	41	31	128	70	63	50	23
8140	Private household services										
S001	Federal Government enterprise services	5	3	10	52	16	88	54	61	21	23
S002	State and local government enterprise services	51	38	3	19	52	134	203	74	120	31
S003	Noncomparable imports	246	3,747	107	622	307	363	246	79	103	2
S004	Scrap, used and secondhand goods					56	155	102	5,854	4,636	1,698
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	16,089	52,218	17,194	29,785	24,198	97,063	46,130	57,563	51,486	17,088
	Total value added	7,920	37,526	8,565	23,215	13,718	60,535	39,768	19,766	10,796	11,680
V001	Compensation of employees	1,910	12,597	3,681	5,767	6,292	37,920	20,933	13,920	8,513	9,742
V002	Indirect business tax and nontax liability	389	1,663	426	727	429	1,273	973	679	571	256
V003	Other value added	5,621	23,267	4,458	16,721	6,997	21,342	17,863	5,167	1,712	1,682
	Total industry output	24,009	89,743	25,759	53,001	37,916	157,597	85,898	77,329	62,282	28,768

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	Forging and stamping	Cutlery and handtool manufac- turing	Architec- tural and structural metals manufac- turing	Boiler, tank, and shipping container manufac- turing	Ordnance and acces- sories manufac- turing	Other fabricated metal product manufac- turing	Agri- culture, construc- tion, and mining machinery	Industrial machinery manufac- turing	Commer- cial and service industry machinery	HVAC and commer- cial refrig- eration equipment
		3321	3322	3323	3324	332A	332B	3331	3332	3333	3334
1110	Crop products.....										
1120	Animal products.....										
1130	Forestry and logging products.....										
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	2	(*)	1	1	(*)	5	1	1	(*)	1
2121	Coal.....	(*)	(*)	1	(*)		2	1	1	(*)	1
2122	Metal ores.....						53	8			
2123	Nonmetallic minerals.....		3				27		1		3
2130	Mining support services.....										
2211	Electric power.....	261	98	296	222	52	1,314	214	175	123	146
2212	Natural gas distribution.....	129	28	123	78	19	495	89	46	29	46
2213	Water and sewage treatment.....	(*)	(*)	(*)	(*)		1	(*)		1	(*)
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	65	28	98	54	3	345	103	67	43	102
3110	Food products.....										
3121	Beverage products.....										
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	(*)	1				32		11	26	85
3140	Nonapparel textile products.....	(*)		(*)	(*)		49	(*)		(*)	13
3150	Apparel.....					6	3		3	(*)	1
3160	Leather and allied products.....	(*)		(*)	(*)		1	(*)	(*)	(*)	(*)
3210	Wood products.....	24	55	21	9	61	129	41	60	9	80
3221	Pulp, paper, and paperboard.....	43	16	26	11	4	279	25	131	32	43
3222	Converted paper products.....	143	185	158	104	39	521	51	62	396	258
3230	Printed products.....	1	(*)	30	71	(*)	10	5	4	3	1
3240	Petroleum and coal products.....	43	26	54	27	7	246	229	17	65	21
3251	Basic chemicals.....	35	13	43	60	34	525	149	534	59	109
3252	Resins, rubber, and artificial fibers.....	58	66			80	287		3	317	56
3253	Agricultural chemicals.....										
3254	Pharmaceuticals and medicines.....										
3255	Paints, coatings, and adhesives.....	98	12	621	350	1	720	238	103	74	206
3256	Soaps, cleaning compounds, and toiletries.....	2	(*)	(*)	5		10			3	6
3259	Other chemical products.....	157	20	449	151	177	773	28	30	164	30
3260	Plastics and rubber products.....	74	285	127	28	36	1,027	3,081	545	966	385
3270	Nonmetallic mineral products.....	91	44	293	58	15	434	131	261	344	175
331A	Primary ferrous metal products.....	3,769	820	6,741	2,918	81	10,059	3,682	1,139	519	1,470
331B	Primary nonferrous metal products.....	1,363	179	3,526	4,374	95	3,354	133	429	198	1,174
3315	Foundry products.....	93	161	259	96	53	3,214	1,678	663	247	632
3321	Forgings and stampings.....	423	174	442	349	62	1,531	1,153	419	322	420
3322	Cutlery and handtools.....	7	63	14	10	13	183	49	90	32	8
3323	Architectural and structural metal products.....	566	10	3,763	200		478	1,252	74	201	342
3324	Boilers, tanks, and shipping containers.....	3	(*)	11	1,239		2	119	231	21	105
332A	Ordnance and accessories.....					148					
332B	Other fabricated metal products.....	1,050	443	1,731	548	297	9,225	2,966	3,535	1,516	1,084
3331	Agriculture, construction, and mining machinery.....		1					617			
3332	Industrial machinery.....								1,342	7	
3333	Commercial and service industry machinery.....	2	1	1	1	1	19	5	8	259	4
3334	HVAC and commercial refrigeration equipment.....	1	(*)	7	16		8	111	142	84	2,577
3335	Metalworking machinery.....	219	24	228	69	14	1,284	247	259	56	117
3336	Turbine and power transmission equipment.....	7	18	3	5		61	3,185	235	63	50
3339	Other general purpose machinery.....	7	33	188	84	1	255	1,096	764	173	28
3341	Computer and peripheral equipment.....						(*)		71	287	
334A	Audio, video, and communications equipment.....	(*)	(*)	1	(*)	86	2	1	(*)	32	1
3344	Semiconductors and electronic components.....	248	112	528	235	52	1,305	766	961	1,967	437
3345	Electronic instruments.....	3	(*)	1	(*)	30	131	1	(*)	53	571
3346	Magnetic media products.....	(*)	(*)	1	1	(*)	17	2	71	14	1
3351	Electric lighting equipment.....	1	(*)	1	1		5	1	1	3	1
3352	Household appliances.....										(*)
3353	Electrical equipment.....	25	10	51	12	3	540	613	1,208	601	1,894
3359	Other electrical equipment and components.....	10	48	20	53		319	306	190	483	302
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	466	16	8	2		10	1,305	3	2	2
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....		4					12			
3370	Furniture and related products.....	4	2	6	2	2	21	5	4	3	3
3391	Medical equipment and supplies.....			1	1		3				1
3399	Other miscellaneous manufactured products.....	6	8	12	1		193	57	124	86	66

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Forging and stamping	Cutlery and handtool manufac- turing	Architect- ural and structural metals manufac- turing	Boiler, tank, and shipping container manufac- turing	Ordnance and acces- sories manufac- turing	Other fabricated metal product manufac- turing	Agri- culture, construc- tion, and mining machinery	Industrial machinery manufac- turing	Commer- cial and service industry machinery	HVAC and commer- cial refrig- eration equipment
	For the composition of inputs to an industry read the column for that industry											Industry number
		3321	3322	3323	3324	332A	332B	3331	3332	3333	3334
4200	Wholesale trade	1,277	741	2,422	1,380	205	4,617	3,351	1,994	1,776	2,221
4A00	Retail trade	22	27	24	14	3	111	18	12	27	35
4810	Air transportation	74	32	157	69	16	388	221	141	98	125
4820	Rail transportation	67	20	120	50	8	164	79	38	23	34
4830	Water transportation	5	23	10	5	1	19	6	1	3	3
4840	Truck transportation	348	150	745	319	126	943	856	219	189	250
4850	Transit and ground passenger transportation	6	2	12	6	1	34	15	8	5	9
4860	Pipeline transportation	(*)		(*)	(*)		1	1			
48A0	Sightseeing transportation and transportation support	13	9	18	6		82	10	11	3	17
4920	Courier and messenger services	29	13	60	26	5	144	59	39	28	32
4930	Warehousing and storage	31	16	71	26	8	226	100	78	66	56
5111	Newspapers, books, and directories	1	(*)	3	2	(*)	10	5	2	3	2
5112	Software										
5120	Motion pictures and sound recordings	6	4	4			13	7	5	5	3
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications	75	42	161	45	7	398	849	155	91	201
5141	Information services	5	3	11	3	(*)	27	58	11	6	14
5142	Data processing services	45	22	97	38	11	214	99	77	58	78
52A0	Monetary oversight and credit intermediation	249	111	525	217	56	1,280	526	352	244	318
5230	Securities, commodity contracts, investments	73	21	97	46	17	328	159	98	49	66
5240	Insurance carriers and related services	32	14	47	12	7	143	40	37	24	34
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	168	46	422	72	19	1,066	87	261	142	186
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	60	23	166	32	6	502	69	98	47	52
532A	Consumer goods and general rentals	15	5	37	7	1	127	14	22	10	13
5324	Machinery and equipment rental and leasing	41	16	112	21	4	342	45	66	31	35
5330	Rights to nonfinancial intangible assets	22	30	71	5	19	172	17	48	1,098	30
5411	Legal services	51	41	109	30	41	396	124	129	85	167
5412	Accounting and bookkeeping services	50	20	91	20	4	287	52	70	52	145
5413	Architectural and engineering services	40	33	131	56	19	268	254	77	62	59
5414	Specialized design services	4	3	8	3	1	23	9	6	5	7
5415	Computer systems design and related services	12	11	24	9	180	197	53	195	100	42
5416	Management and technical consulting services	47	21	97	42	9	243	96	66	47	54
5417	Scientific research and development services	56	30	131	44	16	454	203	169	139	115
5418	Advertising and related services	59	149	165	27	65	410	207	173	171	270
5419	Other professional and technical services	149	69	317	140	34	781	323	215	156	185
5500	Management of companies and enterprises	515	288	1,236	378	161	4,519	1,909	1,630	973	1,068
5613	Employment services	28	13	58	26	6	143	62	38	33	34
5615	Travel arrangement and reservation services			(*)	1		(*)	(*)		(*)	(*)
561A	All other administrative and support services	59	25	117	50	14	322	112	85	65	67
5620	Waste management and remediation services	36	16	59	35	7	299	50	35	23	89
6100	Educational services	2	1	7	15	(*)	9	4	3	2	27
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	11	7	25	11	3	58	25	16	11	14
7130	Amusements, gambling, and recreation	7	3	14	6	2	33	14	9	7	8
7210	Accommodations	37	17	79	35	8	187	79	52	38	45
7220	Food and beverage services to customer order	73	33	117	61	15	357	146	112	68	87
8111	Automotive repair and maintenance	57	23	72	83	3	314	77	26	18	45
811A	Electronic, commercial, and household goods repair	164	67	208	237	7	910	227	82	58	133
8120	Personal and laundry services					7	42		35	1	2
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	20	9	47	18	5	100	42	28	20	24
8140	Private household services										
S001	Federal Government enterprise services	11	6	25	7		103	55	42	12	7
S002	State and local government enterprise services	25	22	89	8	14	244	64	47	59	30
S003	Noncomparable imports	34	50	40	125	12	271	358	73	155	46
S004	Scrap, used and secondhand goods	1		109			43				
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	13,707	5,327	28,648	15,312	2,625	61,869	34,991	21,199	16,268	19,641
	Total value added	10,385	5,741	23,290	7,271	2,987	61,954	17,246	13,935	8,443	10,053
V001	Compensation of employees	6,834	3,230	14,219	4,675	1,900	39,879	10,166	9,373	5,869	6,727
V002	Indirect business tax and nontax liability	153	74	339	145	165	857	365	234	165	236
V003	Other value added	3,399	2,437	8,733	2,451	922	21,217	6,715	4,328	2,409	3,090
	Total industry output	24,092	11,068	51,938	22,583	5,612	123,823	52,237	35,133	24,711	29,694

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Metal- working machinery manufac- turing	Turbine and power transmis- sion equip- ment manufac- turing	Other general purpose machinery manufac- turing	Computer and peripheral equipment manufac- turing	Audio, video, and communi- cations equipment manufac- turing	Semi- conductor and elec- tronic com- ponent manufac- turing	Electronic instrument manufac- turing	Magnetic media manufac- turing and reproduc- ing	Electric lighting equipment manufac- turing	Household appliance manufac- turing
	For the composition of inputs to an industry read the column for that industry											Industry number
		3335	3336	3339	3341	334A	3344	3345	3346	3351	3352
1110	Crop products.....										
1120	Animal products.....										
1130	Forestry and logging products.....										
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	1	1	1	1	1	2	1	(*)	(*)	1
2121	Coal.....	1	1	1						(*)	1
2122	Metal ores.....	12			5	32					
2123	Nonmetallic minerals.....	30				44	1				29
2130	Mining support services.....										
2211	Electric power.....	234	166	318	220	264	945	435	89	75	104
2212	Natural gas distribution.....	55	48	92	55	40	179	75	15	24	29
2213	Water and sewage treatment.....	(*)	1		1		1	(*)		(*)	
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	129	57	118	149	149	215	180	26	22	20
3110	Food products.....										
3121	Beverage products.....										
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....		1	119		2	1	28	7		3
3140	Nonapparel textile products.....	(*)	(*)	64	(*)	2	1	(*)			
3150	Apparel.....	3	8	1			1	2			
3160	Leather and allied products.....	(*)	(*)	(*)	1	1	1	1			
3210	Wood products.....	50	76	36	29	30	38	106	4	2	19
3221	Pulp, paper, and paperboard.....	16	16	131	210	100	70	48	127	22	25
3222	Converted paper products.....	30	50	289	197	378	317	227	116	334	442
3230	Printed products.....	2	3	8	12	21	15	16	1	1	6
3240	Petroleum and coal products.....	19	15	39	25	25	40	29	6	29	30
3251	Basic chemicals.....	18	11	24	32	48	2,771	80	3	68	127
3252	Resins, rubber, and artificial fibers.....			109		41	237	271	240	43	456
3253	Agricultural chemicals.....										
3254	Pharmaceuticals and medicines.....										
3255	Paints, coatings, and adhesives.....	85	1	187	3	3	4	111	6	38	157
3256	Soaps, cleaning compounds, and toiletries.....				4	15	7	21	1	16	8
3259	Other chemical products.....	37	18	111	125	243	892	345	91	7	38
3260	Plastics and rubber products.....	266	343	1,000	1,001	1,257	1,236	923	813	305	1,596
3270	Nonmetallic mineral products.....	304	107	129	26	38	878	167	5	309	206
331A	Primary ferrous metal products.....	1,394	1,204	3,487	92	213	521	654	173	295	1,177
331B	Primary nonferrous metal products.....	448	96	819	159	416	1,997	307	300	459	402
3315	Foundry products.....	621	2,457	2,161	10	54	19	118	10	242	415
3321	Forgings and stampings.....	198	1,497	735	496	928	1,297	1,017	(*)	285	699
3322	Cutlery and handtools.....	39	6	74	5	5	16	59	1	1	2
3323	Architectural and structural metal products.....	125	261	625	946	567	424	575	1	41	186
3324	Boilers, tanks, and shipping containers.....	24	197	127	18	41	65	3		1	
332A	Ordnance and accessories.....										
332B	Other fabricated metal products.....	997	1,098	3,054	543	818	1,598	1,601	149	354	393
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery.....						1,398				
3333	Commercial and service industry machinery.....	8	3	13	20	2	60	3	(*)	(*)	
3334	HVAC and commercial refrigeration equipment.....	3	1	141	4	5	6	3	1	2	440
3335	Metalworking machinery.....	1,526	109	361	39	59	187	92	9	15	32
3336	Turbine and power transmission equipment.....	88	1,824	1,094	1			50			15
3339	Other general purpose machinery.....	191	293	2,397	3	3	11	26	1	1	2
3341	Computer and peripheral equipment.....	(*)	21		19,576	399	327	2,747	1		
334A	Audio, video, and communications equipment.....	1	7	6	436	6,829	1,453	784	2		10
3344	Semiconductors and electronic components.....	390	400	978	21,163	18,650	21,217	11,436	246	128	385
3345	Electronic instruments.....	1	1	82	27	120	592	2,377	1		698
3346	Magnetic media products.....	1	1	63	245	55	6	34	489	(*)	(*)
3351	Electric lighting equipment.....	1	1	1	2	3	3	2	(*)	346	1
3352	Household appliances.....						(*)				79
3353	Electrical equipment.....	671	645	2,585	525	102	65	1,149	15	620	868
3359	Other electrical equipment and components.....	167	168	536	566	1,695	779	1,228	11	335	340
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	5	1,722	85	18	125	198	39	1		
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....										
3370	Furniture and related products.....	6	2	3	4	497	39	68	1	(*)	
3391	Medical equipment and supplies.....	1									
3399	Other miscellaneous manufactured products.....	50	113	217	94	23	48	422	14	27	47

Industries Before Redefinitions, 1997—Continued

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	Metal- working machinery manufac- turing	Turbine and power transmis- sion equip- ment manufac- turing	Other general purpose machinery manufac- turing	Computer and peripheral equipment manufac- turing	Audio, video, and communi- cations equipment manufac- turing	Semi- conductor and elec- tronic com- ponent manufac- turing	Electronic instrument manufac- turing	Magnetic media manufac- turing and reproduc- ing	Electric lighting equipment manufac- turing	Household appliance manufac- turing
		Industry number	3335	3336	3339	3341	334A	3344	3345	3346	3351	3352
4200	Wholesale trade	1,089	1,328	3,857	14,056	4,893	6,654	4,273	267	978	1,390
4A00	Retail trade	3	13	62	48	87	40	83	10	73	60
4810	Air transportation	99	138	231	609	406	551	353	36	47	83
4820	Rail transportation	37	34	68	8	17	62	30	10	10	32
4830	Water transportation	4	1	4	1	6	11	3	1	3	7
4840	Truck transportation	227	408	526	106	280	387	266	90	131	265
4850	Transit and ground passenger transportation	6	8	11	32	27	43	24	2	3	4
4860	Pipeline transportation										
48A0	Sightseeing transportation and transportation support	17	23	18	24	64	44	22	17	1	5
4920	Courier and messenger services	36	36	68	20	24	159	138	60	6	32
4930	Warehousing and storage	90	57	120	169	325	515	326	35	62	86
5111	Newspapers, books, and directories	8	(*)		16	9	17	7	1		
5112	Software				7,121						
5120	Motion pictures and sound recordings			4	26	9	40	27	(*)	7	12
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										
5133	Telecommunications	207	77	230	330	430	618	441	20	35	50
5141	Information services	14	5	16	22	29	41	30	1	2	4
5142	Data processing services	74	67	122	214	202	398	296	23	35	50
52A0	Monetary oversight and credit intermediation	298	307	594	1,041	947	1,478	905	95	123	207
5230	Securities, commodity contracts, investments	91	67	152	292	235	406	251	23	33	61
5240	Insurance carriers and related services	36	31	70	68	75	135	92	6	13	25
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	282	58	288	483	513	616	585	57	62	128
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	127	46	119	77	132	269	135	15	22	88
532A	Consumer goods and general rentals	31	10	25	18	33	69	31	3	5	22
532A	Machinery and equipment rental and leasing	87	30	79	49	89	183	90	10	14	61
5330	Rights to nonfinancial intangible assets	84	42	142	1,392	3,051	1,073	88	5	17	60
5411	Legal services	84	36	189	522	259	1,103	361	20	30	22
5412	Accounting and bookkeeping services	134	29	99	64	189	270	167	17	32	23
5413	Architectural and engineering services	48	70	142	465	780	1,299	831	86	83	182
5414	Specialized design services	5	4	39	8	11	32	101	1	100	114
5415	Computer systems design and related services	151	26	109	126	487	1,189	472	41	6	7
5416	Management and technical consulting services	59	60	116	75	75	290	126	13	14	29
5417	Scientific research and development services	202	115	250	337	1,078	1,674	839	77	142	191
5418	Advertising and related services	110	56	365	453	526	953	542	33	72	182
5419	Other professional and technical services	184	180	371	691	513	863	548	61	78	128
5500	Management of companies and enterprises	2,071	1,045	2,425	3,050	3,023	4,807	4,117	337	615	811
5613	Employment services	34	35	66	107	97	176	101	11	13	24
5615	Travel arrangement and reservation services		2		1	2	1	(*)			
561A	All other administrative and support services	78	72	149	801	141	421	1,778	698	21	264
5620	Waste management and remediation services	59	30	104	659	115	180	75	12	13	15
6100	Educational services	2	3	4	30	2	10	33	9	(*)	1
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	14	14	28	48	43	66	42	5	5	9
7130	Amusements, gambling, and recreation	8	8	16	27	24	37	24	3	3	5
7210	Accommodations	45	45	91	151	135	208	132	15	18	31
7220	Food and beverage services to customer order	109	86	182	220	234	360	253	25	36	62
8111	Automotive repair and maintenance	53	53	69	33	49	288	69	32	13	22
811A	Electronic, commercial, and household goods repair	158	156	207	106	171	867	225	94	42	68
8120	Personal and laundry services		1	6	69		73				5
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	24	24	48	81	72	112	71	8	10	17
8140	Private household services										
S001	Federal Government enterprise services	22	15	45	28	107	59	114	8	7	45
S002	State and local government enterprise services	73	48	190	55	24	87	145	14	33	29
S003	Noncomparable imports	53	38	214	1,819	1,903	692	213	197	60	28
S004	Scrap, used and secondhand goods	4	8								
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	14,978	18,090	34,749	83,329	56,283	70,102	47,734	5,574	7,575	14,531
	Total value added	14,865	11,234	24,818	18,490	33,833	67,178	39,821	4,097	4,709	6,101
V001	Compensation of employees	11,958	6,017	16,438	13,506	17,976	27,398	28,735	2,310	2,772	3,909
V002	Indirect business tax and nontax liability	240	142	490	857	665	1,028	628	57	93	157
V003	Other value added	2,668	5,074	7,890	4,127	15,193	38,752	10,458	1,730	1,845	2,036
	Total industry output	29,843	29,323	59,568	101,819	90,116	137,280	87,554	9,671	12,284	20,632

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Electrical equipment manufacturing	Other electrical equipment and component manufacturing	Motor vehicle manufacturing	Motor vehicle body, trailer, and parts manufacturing	Aerospace product and parts manufacturing	Other transportation equipment manufacturing	Furniture and related product manufacturing	Medical equipment and supplies manufacturing	Other miscellaneous manufacturing	Wholesale trade
	For the composition of inputs to an industry read the column for that industry											Industry number
		3353	3359	3361	336A	3364	336B	3370	3391	3399	4200
1110	Crop products.....									34	440
1120	Animal products.....									(*)	1,899
1130	Forestry and logging products.....		16		2			25		78	2
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	1	1	5	10	3	2	5	1	2	
2121	Coal.....	1	1	4	7	2	1	2			1
2122	Metal ores.....	17	29		471	11			20	28	8
2123	Nonmetallic minerals.....				4					47	4
2130	Mining support services.....										
2211	Electric power.....	192	426	389	1,309	561	170	453	261	383	4,599
2212	Natural gas distribution.....	39	73	204	368	114	62	146	39	130	1,427
2213	Water and sewage treatment.....	(*)	1	1	1	3	(*)	1	(*)		301
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	75	84	48	306	278	65	130	100	321	2,163
3110	Food products.....					5		43	125	99	3,027
3121	Beverage products.....					26			18		68
3122	Tobacco products.....										3
3130	Yarn, fabrics, and other textile mill products.....	7	24	650	2,342	125	6	3,090	1,363	922	253
3140	Nonapparel textile products.....	1		1,013	337	389	120	608	2	88	419
3150	Apparel.....			118	194	17	6	4	9	32	645
3160	Leather and allied products.....	(*)	(*)	2	1,353	2	(*)	(*)	(*)	212	39
3210	Wood products.....	30	274	9	743	77	127	6,500	54	1,024	2,750
3221	Pulp, paper, and paperboard.....	71	188	65	157	54	17	55	175	412	395
3222	Converted paper products.....	114	223	137	1,018	106	28	1,125	481	1,488	3,280
3230	Printed products.....	3	4	5	51	24	19	166	16	88	5,308
3240	Petroleum and coal products.....	95	191	59	302	283	121	72	29	63	2,116
3251	Basic chemicals.....	11	732	65	330	235	26	23	179	441	510
3252	Resins, rubber, and artificial fibers.....	182	1,471	1	1,696	(*)	133	138	601	1,822	529
3253	Agricultural chemicals.....					3					160
3254	Pharmaceuticals and medicines.....								148		71
3255	Paints, coatings, and adhesives.....	629	63	1,944	969	493	554	633	49	394	216
3256	Soaps, cleaning compounds, and toiletries.....	11		1	104		286	23	19	124	447
3259	Other chemical products.....	34	371	75	378	415	16	35	42	156	515
3260	Plastics and rubber products.....	683	721	5,496	7,064	1,334	728	3,721	1,408	2,390	6,173
3270	Nonmetallic mineral products.....	252	900	2,467	952	282	302	290	141	419	708
331A	Primary ferrous metal products.....	1,774	879	120	14,872	518	1,846	1,628	247	905	189
331B	Primary nonferrous metal products.....	1,405	4,197	25	4,494	1,366	604	567	465	1,734	1,052
3315	Foundry products.....	353	207	16	10,181	740	429	17	145	301	42
3321	Forgings and stampings.....	776	484	5	2,644	1,240	351	337	104	384	201
3322	Cutlery and handtools.....	4	8	2	87	127	8	5	4	129	400
3323	Architectural and structural metal products.....	293	96	3	2,578	469	587	249	52	123	373
3324	Boilers, tanks, and shipping containers.....		8	(*)	152	3	7		13	(*)	546
332A	Ordnance and accessories.....										5
332B	Other fabricated metal products.....	661	508	6,102	9,670	6,841	2,111	1,728	673	1,507	1,476
3331	Agriculture, construction, and mining machinery.....						35				101
3332	Industrial machinery.....										87
3333	Commercial and service industry machinery.....	1	2		37	10	1	(*)	30	4	870
3334	HVAC and commercial refrigeration equipment.....	3	1	695	696	7	114	4	4	10	316
3335	Metalworking machinery.....	68	75	151	733	193	34	29	47	224	254
3336	Turbine and power transmission equipment.....	390	48	6,640	200	226	2,039	24	5	(*)	500
3339	Other general purpose machinery.....	3	6	763	1,076	723	173	3	4	7	606
3341	Computer and peripheral equipment.....	37	77	709	7	89		2	17	73	219
334A	Audio, video, and communications equipment.....	1	32	2,508	65	998	48	1	37	11	287
3344	Semiconductors and electronic components.....	1,676	1,626	3,085	7,404	3,844	464	615	1,032	738	9,413
3345	Electronic instruments.....	37	5	1,819	186	5,599	55	3	241	4	345
3346	Magnetic media products.....	31	1	19	21	46	3	5	47	18	936
3351	Electric lighting equipment.....	2	2	827	111	4	105	5	4	5	72
3352	Household appliances.....				255					(*)	106
3353	Electrical equipment.....	2,590	119	23	482	85	642	53	43	130	640
3359	Other electrical equipment and components.....	563	1,838	407	793	931	57	3	36	109	277
3361	Motor vehicles.....			68	1,005						
336A	Motor vehicle bodies, trailers, and parts.....	32	4	102,140	19,799	55	587	36	6	5	1,910
3364	Aerospace products and parts.....					26,169					227
336B	Other transportation equipment.....				57		1,462				45
3370	Furniture and related products.....	2	6	1	47	55	7	720	56	94	105
3391	Medical equipment and supplies.....			1	7	2	8	1	2,576	1	34
3399	Other miscellaneous manufactured products.....	110	3	75	459	277	33	14	121	3,032	1,267

Industries Before Redefinitions, 1997—Continued

at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Electrical equipment manufacturing	Other electrical equipment and component manufacturing	Motor vehicle manufacturing	Motor vehicle body, trailer, and parts manufacturing	Aerospace product and parts manufacturing	Other transportation equipment manufacturing	Furniture and related product manufacturing	Medical equipment and supplies manufacturing	Other miscellaneous manufacturing	Wholesale trade
	For the composition of inputs to an industry read the column for that industry											Industry number
		3353	3359	3361	336A	336A	336B	3370	3391	3399	4200
4200	Wholesale trade	2,908	2,876	11,202	12,036	3,850	1,462	3,739	2,054	3,819	21,165
4A00	Retail trade	45	19	8	198	22	10	195	86	134	3,439
4810	Air transportation	157	143	1,392	875	973	130	214	140	204	3,191
4820	Rail transportation	41	101	501	535	77	61	136	34	124	238
4830	Water transportation	10	25	11	72	8	5	23	42	19	71
4840	Truck transportation	266	552	2,963	2,596	722	423	1,074	259	847	1,333
4850	Transit and ground passenger transportation	10	11	50	58	37	8	13	12	14	428
4860	Pipeline transportation		(*)	(*)	2	3	1	(*)			23
48A0	Sightseeing transportation and transportation support	25	19	6	13	28	12	20	17	23	638
4920	Courier and messenger services	29	44	197	223	137	38	74	50	62	9,372
4930	Warehousing and storage	176	150	504	853	567	172	73	170	67	1,943
5111	Newspapers, books, and directories	2	4	4	16	8	1	5	14	15	349
5112	Software										
5120	Motion pictures and sound recordings	4	6	14	66	5		36	18	39	36
5131	Radio and television broadcasting										
5132	Cable networks and program distribution										35
5133	Telecommunications	118	106	118	1,531	312	68	185	214	383	8,001
5141	Information services	8	7	7	104	21	5	12	14	26	521
5142	Data processing services	96	102	155	549	363	122	128	116	124	2,053
52A0	Monetary oversight and credit intermediation	341	407	2,316	1,995	1,240	332	635	466	575	12,656
5230	Securities, commodity contracts, investments	91	119	676	497	361	89	144	112	152	1,656
5240	Insurance carriers and related services	24	40	174	179	104	49	93	53	89	776
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	118	141	113	453	334	130	531	266	523	19,124
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	52	59	61	276	146	59	184	77	166	2,460
532A	Consumer goods and general rentals	11	12	14	70	36	12	43	16	39	616
532A	Machinery and equipment rental and leasing	34	39	37	187	97	39	125	49	113	1,922
5330	Rights to nonfinancial intangible assets	21	52	2,521	972	38	317	78	135	98	1,607
5411	Legal services	53	65	19	299	552	53	85	470	193	3,649
5412	Accounting and bookkeeping services	77	78	106	417	221	76	79	149	213	3,424
5413	Architectural and engineering services	326	389	936	1,681	1,119	295	134	119	141	936
5414	Specialized design services	5	6	1,652	69	289	5	316	153	146	1,362
5415	Computer systems design and related services	18	19	124	203	333	44	38	36	44	2,501
5416	Management and technical consulting services	51	81	329	357	239	64	128	86	105	9,481
5417	Scientific research and development services	404	333	1,078	1,953	1,449	397	133	382	121	1,501
5418	Advertising and related services	140	116	231	368	154	143	557	434	990	17,649
5419	Other professional and technical services	220	260	1,377	1,077	719	207	391	269	378	779
5500	Management of companies and enterprises	1,726	1,603	2,967	6,666	3,925	1,216	1,761	2,194	1,633	27,667
5613	Employment services	42	51	252	231	147	42	72	53	66	7,412
5615	Travel arrangement and reservation services		1	(*)	1	1		1	2	1	17
561A	All other administrative and support services	66	107	403	529	307	77	232	138	167	18,002
5620	Waste management and remediation services	36	66	117	302	129	78	113	41	132	414
6100	Educational services	2	3	462	100	125	2	4	3	4	684
6210	Ambulatory health care services										
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance										
71A0	Performing arts, spectator sports, and museums	17	19	77	89	55	16	30	20	27	620
7130	Amusements, gambling, and recreation	10	11	43	51	32	9	17	12	16	333
7210	Accommodations	53	63	243	282	176	51	96	65	91	1,824
7220	Food and beverage services to customer order	100	121	381	542	320	91	186	134	200	2,488
8111	Automotive repair and maintenance	56	79	11,373	323	92	42	84	58	95	1,381
811A	Electronic, commercial, and household goods repair	176	239	232	998	317	136	243	221	275	4,919
8120	Personal and laundry services	6	3	21	20	48	25	40	14	18	947
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	28	33	214	151	95	27	52	35	49	604
8140	Private household services										
S001	Federal Government enterprise services	28	31	13	263	83	15	83	67	110	4,355
S002	State and local government enterprise services	22	75	87	151	29	79	144	89	150	387
S003	Noncomparable imports	178	274	1,125	1,068	115	19	24	142	74	5,872
S004	Scrap, used and secondhand goods		182		895			(*)		490	4
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	21,684	25,365	185,864	142,021	76,012	21,351	36,140	21,086	34,331	274,236
	Total value added	13,364	15,787	34,540	55,196	41,324	11,791	27,431	23,018	23,856	490,506
V001	Compensation of employees	8,825	8,803	18,303	45,545	31,620	8,943	18,443	12,822	15,277	265,546
V002	Indirect business tax and nontax liability	264	326	1,125	1,056	576	152	372	318	674	139,988
V003	Other value added	4,275	6,658	15,111	8,595	9,129	2,696	8,616	9,878	7,906	84,972
	Total industry output	35,048	41,152	220,404	197,216	117,336	33,142	63,571	44,104	58,187	764,742

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Retail trade	Air transportation	Rail transportation	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation	Sight-seeing transportation and transportation support	Couriers and messengers	Warehousing and storage
	For the composition of inputs to an industry read the column for that industry										
	Industry number	4A00	4810	4820	4830	4840	4850	4860	48A0	4920	4930
1110	Crop products.....	309			1			(*)	1		
1120	Animal products.....	44							5		
1130	Forestry and logging products.....	2									
1140	Fish and other nonfarm animals.....	15			4						
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....	(*)						2,009			
2121	Coal.....	2			4				1		
2122	Metal ores.....	3									
2123	Nonmetallic minerals.....	1		172							
2130	Mining support services.....				3						
2211	Electric power.....	11,592	395	49	26	290	44	283	337	17	798
2212	Natural gas distribution.....	1,511	25	4	9	129		292	30	2	200
2213	Water and sewage treatment.....	557	23	11	10	38	19	1	27	9	30
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	3,808	51	11	10	297		810	191	46	193
3110	Food products.....	5,655	80		64				23	563	
3121	Beverage products.....	505	280		15				6	71	
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	292	2	(*)	2	(*)			2		
3140	Nonapparel textile products.....	241	9		66	9		6	50	1	
3150	Apparel.....	66	6	4	25	2	13		13	1	
3160	Leather and allied products.....	79	1	1	(*)	2		2	1	(*)	145
3210	Wood products.....	1,357	3	820		21		9	47	3	54
3221	Pulp, paper, and paperboard.....	740	61	21	10	70	6	13	30	19	23
3222	Converted paper products.....	3,739	40	42	18	223	23	80	195	51	133
3230	Printed products.....	1,573	722	55	7	214	35	58	169	37	45
3240	Petroleum and coal products.....	3,315	10,088	905	356	6,665	714	3,301	701	1,833	440
3251	Basic chemicals.....	153	39	22	8	85	8	9	18	6	1
3252	Resins, rubber, and artificial fibers.....	25									
3253	Agricultural chemicals.....	24									
3254	Pharmaceuticals and medicines.....	(*)									
3255	Paints, coatings, and adhesives.....	567	90			126	(*)	2	5	66	6
3256	Soaps, cleaning compounds, and toiletries.....	434	4			3		1	2	2	
3259	Other chemical products.....	339	(*)	20	21	118	18	20	75	3	27
3260	Plastics and rubber products.....	6,004	54	113	57	2,015	372	16	94	322	79
3270	Nonmetallic mineral products.....	805	2	223	6	17	8	12	5	2	4
331A	Primary ferrous metal products.....	379	7	279		1		55	22	(*)	4
331B	Primary nonferrous metal products.....	366		1				1	3		
3315	Foundry products.....	6		444				2	83		
3321	Forgings and stampings.....	100		42	6	(*)		3	4		1
3322	Cutlery and handtools.....	623	71	23	14	66	12	57	46	56	41
3323	Architectural and structural metal products.....	503		80				482			
3324	Boilers, tanks, and shipping containers.....	46	5				3			(*)	(*)
332A	Ordnance and accessories.....	7							7		
332B	Other fabricated metal products.....	1,331	1,424	104	226	1,195	313	193	297	77	64
3331	Agriculture, construction, and mining machinery.....	25									
3332	Industrial machinery.....	42									
3333	Commercial and service industry machinery.....	100	1	(*)	(*)	2			45	(*)	(*)
3334	HVAC and commercial refrigeration equipment.....	149		3	61	8		694	11	4	11
3335	Metalworking machinery.....	84	32	93	60	17	1		58	2	
3336	Turbine and power transmission equipment.....	504		2	101	146	44	3	38	(*)	(*)
3339	Other general purpose machinery.....	151	10	529	23	14	(*)	29	87	1	(*)
3341	Computer and peripheral equipment.....	41	(*)			1		1	1	(*)	6
334A	Audio, video, and communications equipment.....	159	2	606		3		1	10	17	1
3344	Semiconductors and electronic components.....	2,413	208		(*)	4	10	(*)	20	1	
3345	Electronic instruments.....	217	12	(*)	(*)	21	(*)	2	3	3	(*)
3346	Magnetic media products.....	270	37	8	33	5	11	28	3	3	7
3351	Electric lighting equipment.....	107	3	7	2	2		2	1	1	1
3352	Household appliances.....	201						1	(*)		
3353	Electrical equipment.....	163	3	48	1	232	81	20	51	32	9
3359	Other electrical equipment and components.....	415	27	245	7	21	43	8	26	5	
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	10,977	4	592	4	4,636	703	46	409	234	130
336A	Aerospace products and parts.....	52	4,038						519	424	
336B	Other transportation equipment.....	276		1,110	863	6	5		201	1	
3370	Furniture and related products.....	129		28	1	(*)		2	(*)		
3391	Medical equipment and supplies.....	12									
3399	Other miscellaneous manufactured products.....	1,160	55	6	12	33	13	23	34	8	16

Industries Before Redefinitions, 1997—Continued
 at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Retail trade	Air transportation	Rail transportation	Water transportation	Truck transportation	Transit and ground passenger transportation	Pipeline transportation	Sight-seeing transportation and transportation support	Couriers and messengers	Warehousing and storage
	For the composition of inputs to an industry read the column for that industry										
	Industry number	4A00	4810	4820	4830	4840	4850	4860	48A0	4920	4930
4200	Wholesale trade	6,216	2,046	990	457	7,187	876	669	521	759	214
4A00	Retail trade	5,859	86	20	45	1,881	169	136	173	139	49
4810	Air transportation	2,685	241	58	37	623	34	15	143	100	19
4820	Rail transportation	254	164	117	13	1,467	18	17	104	75	11
4830	Water transportation	84	124	21	6	276	12	12	13	33	5
4840	Truck transportation	2,131	263	194	40	20,824	269	69	92	378	105
4850	Transit and ground passenger transportation	664	34	5	14	31	923	1	6	5	1
4860	Pipeline transportation	29	114	8	6	110	9	632	8	22	4
48A0	Sightseeing transportation and transportation support	201	8,756	3,069	5,583	5,842	50	2	2,919	859	12
4920	Courier and messenger services	6,362	333	79	65	456	42	91	459	112	176
4930	Warehousing and storage	4,642	25	2	58	2,559	20	1	3	1,031	5
5111	Newspapers, books, and directories	304	44	4	71	53	1	15	76	12	24
5112	Software										
5120	Motion pictures and sound recordings	50	21	1	12				16	13	
5131	Radio and television broadcasting										
5132	Cable networks and program distribution	17									
5133	Telecommunications	6,880	2,015	57	23	1,923	91	168	1,346	571	221
5141	Information services	571	149	4	2	134	8	11	73	39	16
5142	Data processing services	3,294	242	1	13	70	58	39	576	7	33
52A0	Monetary oversight and credit intermediation	15,887	2,211	415	262	1,729	225	282	453	408	105
5230	Securities, commodity contracts, investments	1,445	258	90	53	313	35	60	94	91	24
5240	Insurance carriers and related services	1,434	375	17	1,626	4,065	778	525	134	445	144
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	46,676	1,945	198	473	2,218	188	502	1,404	399	2,264
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	1,987	3	75	11	2,514	209	43	210	1,022	172
532A	Consumer goods and general rentals	483	(*)	22	(*)	143	5		75	14	29
532A	Machinery and equipment rental and leasing	1,452	396	3,166	219	584	34	46	480	107	120
5330	Rights to nonfinancial intangible assets	2,697	170	226	60	400	173	4	2	230	70
5411	Legal services	2,305	1,592	45	148	492	127	189	1,528	213	159
5412	Accounting and bookkeeping services	3,963	238	380	328	612	405	115	747	94	156
5413	Architectural and engineering services	581	650	224	371	53	5	580	641	4	12
5414	Specialized design services	1,194	52	9	22	48	6	9	46	15	16
5415	Computer systems design and related services	1,333	1,375	881	6	1,079	99	991	744	33	32
5416	Management and technical consulting services	6,709	420	479	103	1,276	161	2,243	686	153	205
5417	Scientific research and development services	254	34	23	94	213	35	4	127	3	5
5418	Advertising and related services	33,983	1,498	175	1,097	1,021	77	26	1,056	259	308
5419	Other professional and technical services	553	121	50	60	100	9	187	52	23	12
5500	Management of companies and enterprises	61,398	874	12	931	3,693	473	23	80	2	8
5613	Employment services	6,284	583	190	13	77	10	810	55	24	25
5615	Travel arrangement and reservation services	30	12,265	193	650	1	172	1	26	1,153	1
561A	All other administrative and support services	14,448	1,209	278	155	851	108	650	517	192	670
5620	Waste management and remediation services	945	34	13	7	561	40	8	103	217	30
6100	Educational services	453	24	63	72	34	3	11	166	8	12
6210	Ambulatory health care services	1				99			1	10	(*)
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance	1									
71A0	Performing arts, spectator sports, and museums	518	22	7	12	33	3	2	14	8	3
7130	Amusements, gambling, and recreation	278	13	4	3	19	2	1	7	5	1
7210	Accommodations	1,538	71	47	15	103	11	8	31	26	9
7220	Food and beverage services to customer order	3,370	6,514	38	139	181	16	9	128	616	51
8111	Automotive repair and maintenance	1,506	(*)	50	1	3,278	171	165	110	256	89
811A	Electronic, commercial, and household goods repair	3,879	549	109	221	736	8	369	466	59	242
8120	Personal and laundry services	1,093	9	3		37	17	(*)	23	(*)	2
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	562	95	31	20	113	12	21	37	34	11
8140	Private household services										
S001	Federal Government enterprise services	4,925	149	23	7	214	13	621	434	39	1
S002	State and local government enterprise services	774	21	6		4	20	(*)	36	60	29
S003	Noncomparable imports	272	9,360	123	2,749	681		21	344		49
S004	Scrap, used and secondhand goods	227				5				2	
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	330,447	75,697	19,015	18,507	87,749	8,729	18,979	21,585	14,298	8,431
	Total value added	477,609	43,929	23,247	6,083	81,335	15,984	8,527	21,169	27,677	18,780
V001	Compensation of employees	280,488	35,566	15,784	3,340	48,011	9,865	3,841	15,514	18,613	14,125
V002	Indirect business tax and nontax liability	91,888	5,834	662	633	1,464	1,075	1,163	1,145	139	861
V003	Other value added	105,234	2,529	6,801	2,110	31,860	5,043	3,524	4,510	8,925	3,794
	Total industry output	808,056	119,626	42,262	24,589	169,084	24,713	27,507	42,754	41,975	27,211

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	News- paper, book, and directory publishers	Software publishers	Motion picture and sound recording industries	Radio and television broadcast- ing	Cable net- works and program distribution	Telecom- muni- cations	Informa- tion services	Data processing services	Monetary authorities and credit intermedia- tion	Securities, commod- ity con- tracts, invest- ments
		5111	5112	5120	5131	5132	5133	5141	5142	52A0	5230
1110	Crop products.....		(*)				8		(*)	1	
1120	Animal products.....										
1130	Forestry and logging products.....										
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....										
2121	Coal.....									1	
2122	Metal ores.....										
2123	Nonmetallic minerals.....						1				
2130	Mining support services.....										
2211	Electric power.....	358	123	303	190	203	897	42	128	1,154	1,641
2212	Natural gas distribution.....	68	4	44	7	10	294	3	9	135	74
2213	Water and sewage treatment.....	17	5	24	14	38	257	2	7	257	74
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	163	109	183	133	59	1,239	17	141	2,552	641
3110	Food products.....	31		221							
3121	Beverage products.....			79							
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	8		45		(*)	5				
3140	Nonapparel textile products.....	1	1	38	1	(*)	7		1	266	65
3150	Apparel.....			34		15	104				
3160	Leather and allied products.....	2	3	1	1	1	4	1	2	41	7
3210	Wood products.....	57	28	74	33	18	643	5	35	13	4
3221	Pulp, paper, and paperboard.....	5,409	31	31	20	27	124	5	14	267	110
3222	Converted paper products.....	307	93	83	43	72	404	20	49	431	279
3230	Printed products.....	10,638	766	128	9	139	2,255	93	247	1,709	348
3240	Petroleum and coal products.....	134	12	17	11	12	301	6	11	239	76
3251	Basic chemicals.....	39	19	19	13	15	89	28	4	24	19
3252	Resins, rubber, and artificial fibers.....			(*)			(*)				
3253	Agricultural chemicals.....										
3254	Pharmaceuticals and medicines.....										
3255	Paints, coatings, and adhesives.....	88	4	23	4	23	95	1	4	14	3
3256	Soaps, cleaning compounds, and toiletries.....	(*)	4	7		5	18	(*)	2	10	1
3259	Other chemical products.....	784	53	54	55	41	246	8	13	290	147
3260	Plastics and rubber products.....	161	38	164	23	99	1,208	7	23	160	57
3270	Nonmetallic mineral products.....	17	16	18	14	9	594	12	16	57	19
331A	Primary ferrous metal products.....	58	1	2	3	10	171	1	1	32	30
331B	Primary nonferrous metal products.....	1	1	1	1	12	352		1		
3315	Foundry products.....						1				
3321	Forgings and stampings.....	3	2	4	3	43	402	1	3	1	
3322	Cutlery and handtools.....	41	4	1	(*)	7	50	1	3	53	5
3323	Architectural and structural metal products.....	28	12	18	15	6	320	1	15	5	4
3324	Boilers, tanks, and shipping containers.....	3				(*)	2	(*)		3	1
332A	Ordinance and accessories.....										
332B	Other fabricated metal products.....	609	291	146	94	234	1,984	3	14	39	24
3331	Agriculture, construction, and mining machinery.....						3				(*)
3332	Industrial machinery.....		1						1		
3333	Commercial and service industry machinery.....	(*)					27			101	39
3334	HVAC and commercial refrigeration equipment.....	4	3	5	4	2	33	(*)	4	21	7
3335	Metalworking machinery.....	17	2	7	1	3	4	1	1	7	2
3336	Turbine and power transmission equipment.....	26				3	11			5	1
3339	Other general purpose machinery.....	2	1	1	(*)	(*)	14	(*)	1	4	3
3341	Computer and peripheral equipment.....	56	631	15	1	104	26	656	1,430	1,452	30
334A	Audio, video, and communications equipment.....	3	5	2	1	161	3,121	(*)	3	9	3
3344	Semiconductors and electronic components.....	18	1,707	96	309	364	3,881	1	449	94	41
3345	Electronic instruments.....	58	32	5	3	2	32	3	15	16	6
3346	Magnetic media products.....	33	483	2,311	88	95	335	321	184	262	126
3351	Electric lighting equipment.....	2	2	4	2	4	108	(*)	2	20	4
3352	Household appliances.....	(*)	(*)	(*)	(*)		14		(*)	1	(*)
3353	Electrical equipment.....	4	9	6	15	56	623	(*)	5	21	5
3359	Other electrical equipment and components.....	5	6	6	5	16	1,917	13	6	30	11
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	66	12	29	3	5	63	7	5	599	57
3364	Aerospace products and parts.....										
336B	Other transportation equipment.....						1				6
3370	Furniture and related products.....	6	5	5	4	2	70	1	5	3	(*)
3391	Medical equipment and supplies.....		2				(*)		1	(*)	
3399	Other miscellaneous manufactured products.....	40	20	14	4	21	98	33	19	380	109

Industries Before Redefinitions, 1997—Continued

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 Industry number	News- paper, book, and directory publishers	Software publishers	Motion picture and sound recording industries	Radio and television broadcast- ing	Cable net- works and program distribution	Telecom- muni- cations	Informa- tion services	Data processing services	Monetary authorities and credit intermedia- tion	Securities, commod- ity con- tracts, invest- ments
		5111	5112	5120	5131	5132	5133	5141	5142	52A0	5230
4200	Wholesale trade	2,694	1,387	757	83	153	2,076	113	332	941	234
4A00	Retail trade	180	88	87	15	9	276	28	76	369	223
4810	Air transportation	207	366	209	108	118	354	146	123	2,636	1,630
4820	Rail transportation	170	5	9	2	3	31	2	3	53	13
4830	Water transportation	4	(*)	1	1	1	6	.....	85	4	2
4840	Truck transportation	844	24	86	16	25	319	22	13	173	59
4850	Transit and ground passenger transportation	12	44	19	13	14	775	18	22	728	173
4860	Pipeline transportation	1	(*)	.....	.....	.....	1	.....	.....	3	1
48A0	Sightseeing transportation and transportation support	108	64	28	2	4	18	3	30	11	70
4920	Courier and messenger services	247	137	156	91	101	610	54	70	3,204	2,113
4930	Warehousing and storage	212	13	2	8	9	46	2	13	1,215	397
5111	Newspapers, books, and directories	5,562	50	23	19	16	188	167	19	514	150
5112	Software .....	.....	1,864	.....	.....	.....	.....	.....	.....	.....	.....
5120	Motion pictures and sound recordings	76	7	18,344	8,554	4,080	41	4	3	10	13
5131	Radio and television broadcasting .....	.....	.....	.....	5,931	47	1	.....	.....	.....	.....
5132	Cable networks and program distribution .....	.....	.....	2	1	7,829	.....	3	.....	.....	.....
5133	Telecommunications	718	1,088	388	1,803	1,880	44,904	344	1,089	2,013	976
5141	Information services	1,306	74	26	223	26	98	23	75	106	77
5142	Data processing services	202	114	55	70	81	466	36	373	1,033	1,692
52A0	Monetary oversight and credit intermediation	1,228	685	628	434	487	2,870	133	319	26,312	3,407
5230	Securities, commodity contracts, investments	253	138	125	89	103	247	65	68	16,459	32,933
5240	Insurance carriers and related services	152	44	79	151	180	437	48	23	300	3
5250	Funds, trusts, and other financial vehicles .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	209
5310	Real estate	1,114	1,465	1,660	378	370	2,709	223	613	13,170	5,876
S008	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5321	Automotive equipment rental and leasing	150	134	80	43	121	203	86	349	3,160	3,894
532A	Consumer goods and general rentals	39	38	31	63	103	342	19	97	46	2
5324	Machinery and equipment rental and leasing	103	100	221	189	457	2,334	51	263	1,038	773
5330	Rights to nonfinancial intangible assets	2,764	207	107	854	500	872	5	62	304	168
5411	Legal services	612	461	267	100	7	1,148	36	112	5,475	6,321
5412	Accounting and bookkeeping services	323	148	206	115	150	4,070	38	54	8,284	3,609
5413	Architectural and engineering services	109	179	41	50	57	7,515	18	63	327	268
5414	Specialized design services	74	42	62	28	27	1,718	28	16	239	307
5415	Computer systems design and related services	748	319	82	105	107	635	44	427	996	1,247
5416	Management and technical consulting services	362	206	186	127	143	936	72	100	4,194	2,264
5417	Scientific research and development services	316	22	7	42	42	258	6	20	652	139
5418	Advertising and related services	1,817	2,013	3,627	1,399	1,236	5,871	579	680	3,934	2,081
5419	Other professional and technical services	1,223	214	495	664	370	1,928	57	13	2,381	413
5500	Management of companies and enterprises	2,363	215	477	230	162	930	70	212	4,161	1,037
5613	Employment services	69	1,767	496	14	52	774	190	959	2,311	367
5615	Travel arrangement and reservation services	1	1	1	1	1	2	(*)	1	82	10
561A	All other administrative and support services	693	2,053	480	104	127	1,761	268	720	6,261	2,239
5620	Waste management and remediation services	39	13	23	66	9	49	3	11	417	48
6100	Educational services	17	179	9	193	37	125	4	175	185	122
6210	Ambulatory health care services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6220	Hospital care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6230	Nursing and residential care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6240	Social assistance .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71A0	Performing arts, spectator sports, and museums	161	64	849	3,325	1,381	51	25	34	820	241
7130	Amusements, gambling, and recreation	12	36	18	11	12	28	15	19	114	42
7210	Accommodations	72	202	96	62	67	159	80	85	1,784	809
7220	Food and beverage services to customer order	131	338	217	99	108	258	132	165	4,306	1,010
8111	Automotive repair and maintenance	85	39	59	11	97	477	18	132	631	103
811A	Electronic, commercial, and household goods repair	252	111	168	200	1,007	4,620	31	239	988	162
8120	Personal and laundry services	29	2	5	1	23	80	17	1	78	25
813A	Religious, grantmaking, and social advocacy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
813B	Civic, social, professional and similar organizations	94	50	50	34	36	288	21	26	1,547	217
8140	Private household services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S001	Federal Government enterprise services	1,106	320	220	52	174	919	66	375	3,170	1,275
S002	State and local government enterprise services	264	12	26	49	3	174	2	11	228	81
S003	Noncomparable imports	175	682	109	129	140	9,058	20	463	1,728	5,186
S004	Scrap, used and secondhand goods .....	.....	.....	.....	.....	.....	(*)	.....	.....	(*)	(*)
S005	General government services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S006	Rest of the world adjustment to final uses .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S007	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total intermediate inputs	48,861	22,356	35,662	27,473	24,224	126,507	4,728	12,102	139,868	88,784
	Total value added	68,221	43,831	25,695	13,896	22,316	162,305	7,082	23,307	341,653	110,673
V001	Compensation of employees	30,236	21,369	11,182	11,449	7,487	58,520	4,078	13,807	118,817	84,304
V002	Indirect business tax and nontax liability	1,024	748	1,561	281	1,463	28,065	210	389	11,996	4,904
V003	Other value added	36,961	21,715	12,952	2,167	13,365	75,720	2,794	9,111	210,840	21,465
	Total industry output	117,082	66,187	61,357	41,369	46,540	288,812	11,810	35,409	481,521	199,457

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Insurance carriers and related activities	Funds, trusts, and other financial vehicles	Real estate	Owner-occupied dwellings	Automotive equipment rental and leasing	Consumer goods and general rental centers	Machinery and equipment rental and leasing	Lessors of nonfinancial intangible assets	Legal services	Accounting and book-keeping services
	For the composition of inputs to an industry read the column for that industry											Industry number
		5240	5250	5310	S008	5321	532A	5324	5330	5411	5412
1110	Crop products.....			108	579					(*)	4
1120	Animal products.....										
1130	Forestry and logging products.....										
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....			501							
2110	Oil and gas.....										
2121	Coal.....			13							
2122	Metal ores.....										
2123	Nonmetallic minerals.....			115	984			(*)			
2130	Mining support services.....										
2211	Electric power.....	55	114	14,747		90	195	103		306	154
2212	Natural gas distribution.....	1		2,748		13	21	39		45	25
2213	Water and sewage treatment.....	42	(*)	1,288		7	13	15		26	13
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	175	120	10,577	7,970	115	98	82		326	141
3110	Food products.....										
3121	Beverage products.....										
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....			5	46	7	(*)	2		3	2
3140	Nonapparel textile products.....	4	(*)	86	466	1	(*)	(*)		1	(*)
3150	Apparel.....					28	138	(*)			21
3160	Leather and allied products.....	5	1	20		1	1	2		10	11
3210	Wood products.....	3	6	1,146	9,927	24	16	17		70	29
3221	Pulp, paper, and paperboard.....	15	9	336	71	13	8	13	41	231	91
3222	Converted paper products.....	100	49	603	415	36	26	38	77	316	156
3230	Printed products.....	1,250	88	407		10	12	15	(*)	331	702
3240	Petroleum and coal products.....	19	10	488	1,555	399	12	16		29	17
3251	Basic chemicals.....	26	3	263	167	4	2	4	14	21	10
3252	Resins, rubber, and artificial fibers.....							(*)			
3253	Agricultural chemicals.....			123	652						
3254	Pharmaceuticals and medicines.....										
3255	Paints, coatings, and adhesives.....	14	6	284	1,648	5	3	3		12	5
3256	Soaps, cleaning compounds, and toiletries.....	1	2	427	5	5	3	6		27	2
3259	Other chemical products.....	60	33	280	69	25	23	24		206	23
3260	Plastics and rubber products.....	121	18	656	2,731	179	18	24	21	138	71
3270	Nonmetallic mineral products.....	2	2	1,057	8,406	119	7	8		29	11
331A	Primary ferrous metal products.....	14	1	123	853	1	1	1		3	1
331B	Primary nonferrous metal products.....			16	130	1	(*)	2		2	(*)
3315	Foundry products.....			16	348			(*)			
3321	Forgings and stampings.....			47	54	2	1	2		6	2
3322	Cutlery and handtools.....	5	1	66	414	60	3	4		8	4
3323	Architectural and structural metal products.....			496	3,417	11	5	5		31	10
3324	Boilers, tanks, and shipping containers.....	(*)	(*)	40	113					1	(*)
332A	Ordnance and accessories.....							1			
332B	Other fabricated metal products.....	37	4	576	2,979	19	155	20		31	13
3331	Agriculture, construction, and mining machinery.....				204		1	3			
3332	Industrial machinery.....			9				(*)		6	
3333	Commercial and service industry machinery.....			36	(*)			8			17
3334	HVAC and commercial refrigeration equipment.....		1	241	2,135	3	3	14		9	5
3335	Metalworking machinery.....	(*)		1		2	29	65			(*)
3336	Turbine and power transmission equipment.....					4		2			
3339	Other general purpose machinery.....	1		50	222	(*)	23	52		3	2
3341	Computer and peripheral equipment.....	83	10	98		2	1	6		54	92
334A	Audio, video, and communications equipment.....	1	(*)	34	81	2	2	8		6	20
3344	Semiconductors and electronic components.....	23	(*)	1		1	140	60		1	42
3345	Electronic instruments.....	23	1	90	98	4	6	8		11	7
3346	Magnetic media products.....	51	16	70		3	178	5		54	290
3351	Electric lighting equipment.....	1	1	45	394	2	1	1		4	3
3352	Household appliances.....			112	800	(*)		12		(*)	
3353	Electrical equipment.....	1	3	41	1,840	2	2	2		8	7
3359	Other electrical equipment and components.....	10	5	245	2,043	24	3	6		14	234
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	19		93		517	43	44		(*)	1
336B	Aerospace products and parts.....										
336B	Other transportation equipment.....	1		23				4			
3370	Furniture and related products.....	(*)	(*)	338	3,634	3	2	2		18	3
3391	Medical equipment and supplies.....	(*)		6							
3399	Other miscellaneous manufactured products.....	59	7	153	109	25	25	21		84	135

Industries Before Redefinitions, 1997—Continued
 at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Insurance carriers and related activities	Funds, trusts, and other financial vehicles	Real estate	Owner- occupied dwellings	Automotive equipment rental and leasing	Consumer goods and general rental centers	Machinery and equip- ment rental and leasing	Lessors of nonfinan- cial intangi- ble assets	Legal services	Accounting and book- keeping services
	For the composition of inputs to an industry read the column for that industry											Industry number
		5240	5250	5310	S008	5321	532A	5324	5330	5411	5412
4200	Wholesale trade	174	37	1,171	5,041	333	90	75	14	387	232
4A00	Retail trade	93	*	2,417	5,008	944	72	85	.....	382	148
4810	Air transportation	1,058	135	811	92	223	125	304	(*)	1,049	646
4820	Rail transportation	16	4	63	321	18	2	20	1	18	10
4830	Water transportation	1	1	22	100	11	(*)	(*)	.....	(*)	(*)
4840	Truck transportation	47	24	424	1,995	114	15	10	5	99	65
4850	Transit and ground passenger transportation	252	24	919	.....	130	16	39	.....	312	78
4860	Pipeline transportation .....	(*)	.....	2	(*)	9	.....	.....	.....	(*)	(*)
48A0	Sightseeing transportation and transportation support	89	5	18	.....	6	24	24	.....	3	37
4920	Courier and messenger services	607	144	876	.....	64	154	103	215	764	255
4930	Warehousing and storage	14	9	16	.....	11	6	6	2	1	75
5111	Newspapers, books, and directories	25	15	97	.....	54	12	13	.....	837	155
5112	Software .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5120	Motion pictures and sound recordings	3	16	33	.....	18	136	5	.....	7	66
5131	Radio and television broadcasting .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5132	Cable networks and program distribution .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5133	Telecommunications	4,095	51	4,073	.....	258	217	319	(*)	2,199	919
5141	Information services	101	2	363	.....	17	14	21	.....	155	61
5142	Data processing services	1,501	142	89	.....	89	12	50	1	538	266
52A0	Monetary oversight and credit intermediation	4,431	2,047	8,277	8,509	624	319	520	825	1,592	921
5230	Securities, commodity contracts, investments	4,755	43,781	1,006	.....	62	37	102	26	361	334
5240	Insurance carriers and related services	121,353	1,017	6,875	14,771	67	35	545	.....	130	197
5250	Funds, trusts, and other financial vehicles	2,535	.....	.....	.....	.....	.....	.....	.....	.....	.....
5310	Real estate	8,728	699	49,399	10,141	563	1,321	680	1	9,198	2,877
S008	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5321	Automotive equipment rental and leasing	1,327	67	1,065	.....	334	115	262	.....	315	168
532A	Consumer goods and general rentals	3	1	18	21	88	29	68	.....	95	44
5324	Machinery and equipment rental and leasing	799	100	32	.....	114	69	366	.....	109	64
5330	Rights to nonfinancial intangible assets	87	20	168	.....	113	826	50	.....	87	486
5411	Legal services	1,531	513	4,592	4,743	59	73	157	(*)	5,028	533
5412	Accounting and bookkeeping services	404	378	822	.....	42	78	159	1	867	336
5413	Architectural and engineering services	204	77	6,731	834	12	12	25	6	20	42
5414	Specialized design services	100	38	1,938	1	15	30	39	21	79	196
5415	Computer systems design and related services	1,627	89	753	.....	109	15	67	34	281	329
5416	Management and technical consulting services	726	1,267	4,659	779	209	202	163	287	3,166	1,293
5417	Scientific research and development services	41	14	49	.....	17	13	11	8	10	52
5418	Advertising and related services	3,194	137	3,256	.....	581	288	778	.....	1,382	585
5419	Other professional and technical services	280	76	975	.....	23	67	157	13	100	551
5500	Management of companies and enterprises	2,843	5,967	762	.....	309	370	115	68	95	812
5613	Employment services	325	19	8,399	.....	207	107	272	29	1,190	778
5615	Travel arrangement and reservation services	23	1	15	.....	566	1	1	.....	1	17
561A	All other administrative and support services	1,802	671	22,332	4,860	204	232	287	206	3,940	833
5620	Waste management and remediation services	146	8	5,220	165	8	14	10	.....	24	52
6100	Educational services	53	27	94	.....	4	11	7	16	25	19
6210	Ambulatory health care services .....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
6220	Hospital care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6230	Nursing and residential care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6240	Social assistance .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71A0	Performing arts, spectator sports, and museums	148	57	438	.....	42	44	59	.....	172	118
7130	Amusements, gambling, and recreation	16	17	32	.....	2	14	33	.....	100	67
7210	Accommodations	363	108	1,436	.....	119	60	186	(*)	1,769	373
7220	Food and beverage services to customer order	448	187	1,739	.....	143	131	313	.....	630	646
8111	Automotive repair and maintenance	395	3	430	.....	177	52	122	.....	128	105
811A	Electronic, commercial, and household goods repair	185	113	1,508	344	503	145	342	.....	182	174
8120	Personal and laundry services	27	.....	49	.....	24	5	5	.....	37	163
813A	Religious, grantmaking, and social advocacy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
813B	Civic, social, professional and similar organizations	93	53	777	5,930	32	19	50	70	137	58
8140	Private household services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S001	Federal Government enterprise services	549	353	1,722	.....	74	90	131	.....	1,682	715
S002	State and local government enterprise services	35	6	340	.....	161	13	10	.....	97	16
S003	Noncomparable imports	991	659	85	.....	11	.....	104	1,644	.....	5
S004	Scrap, used and secondhand goods	1	.....	.....	.....	1	-466	(*)	.....	.....	.....
S005	General government services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S006	Rest of the world adjustment to final uses .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S007	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total intermediate inputs	170,862	59,688	186,726	119,210	9,679	6,485	8,042	3,646	42,257	19,342
	Total value added	172,599	4,646	424,413	516,726	21,041	12,670	22,733	98,377	109,839	52,744
V001	Compensation of employees	111,000	2,945	42,110	.....	4,724	4,757	5,421	1,219	62,077	33,216
V002	Indirect business tax and nontax liability	13,121	989	75,412	87,359	2,004	935	1,237	8,846	841	435
V003	Other value added	48,477	712	306,891	429,367	14,313	6,978	16,075	88,312	46,921	19,093
	Total industry output	343,461	64,333	611,139	635,937	30,719	19,154	30,775	102,023	152,096	72,086

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Architectural and engineering services	Specialized design services	Computer systems design and related services	Management and technical consulting services	Scientific research and development services	Advertising and related services	Other professional and technical services	Management of companies and enterprises	Employment services	Travel arrangement and reservation services
	For the composition of inputs to an industry read the column for that industry											Industry number
		5413	5414	5415	5416	5417	5418	5419	5500	5613	5615
1110	Crop products.....	9		1	2		4				
1120	Animal products.....					39			2		
1130	Forestry and logging products.....					3					
1140	Fish and other nonfarm animals.....										
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....										
2121	Coal.....										
2122	Metal ores.....					32					
2123	Nonmetallic minerals.....			1					(*)		
2130	Mining support services.....										
2211	Electric power.....	451	66	257	157	506	174	264	3,682	21	434
2212	Natural gas distribution.....	90	21	24	30	118	20	58	780	4	176
2213	Water and sewage treatment.....	35	12	11	15	55	10	39	428	2	101
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	323	44	167	156	425	141	184	3,038	20	100
3110	Food products.....		(*)			29	327	258	1		
3121	Beverage products.....						31				
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	(*)	(*)			9		16			
3140	Nonapparel textile products.....	1	(*)	(*)	22	2	56	(*)	13		(*)
3150	Apparel.....		1	1	3	3	1	(*)	(*)		2
3160	Leather and allied products.....	8	1	5	4	2	3	3		2	4
3210	Wood products.....	75	9	37	31	89	28	41	635	2	21
3221	Pulp, paper, and paperboard.....	147	8	82	243	35	31	73	32	38	13
3222	Converted paper products.....	224	43	150	97	256	114	221	132	85	73
3230	Printed products.....	666	73	304	982	1,000	1,309	388	2,716	26	810
3240	Petroleum and coal products.....	33	7	20	47	42	27	23	182	13	112
3251	Basic chemicals.....	23	64	15	332	802	18	95	231	12	3
3252	Resins, rubber, and artificial fibers.....			1			7				
3253	Agricultural chemicals.....					1	35	11			
3254	Pharmaceuticals and medicines.....							1,441			
3255	Paints, coatings, and adhesives.....	10	2	7	76	10	4	5	55	1	3
3256	Soaps, cleaning compounds, and toiletries.....		1	4	65	177	16	4	190	1	2
3259	Other chemical products.....	85	345	44	150	58	45	353	127	13	10
3260	Plastics and rubber products.....	175	140	92	127	340	110	162	1,174	24	13
3270	Nonmetallic mineral products.....	44	35	16	210	1,545	20	56	618	1	15
331A	Primary ferrous metal products.....	3	(*)	2	1	4	2	1	22	4	1
331B	Primary nonferrous metal products.....	1	1	14	(*)	2	1	1	11		(*)
3315	Foundry products.....			1		34					
3321	Forgings and stampings.....	6	1	10	3	8	2	3	53	(*)	2
3322	Cutlery and handtools.....	8	1	12	8	18	5	17	23	1	2
3323	Architectural and structural metal products.....	28	2	15	10	40	12	15	266	(*)	9
3324	Boilers, tanks, and shipping containers.....	1			(*)	(*)	9	24	2		
332A	Ordnance and accessories.....										2
332B	Other fabricated metal products.....	120	11	49	66	412	20	169	947	4	10
3331	Agriculture, construction, and mining machinery.....										
3332	Industrial machinery.....		49	2	6						
3333	Commercial and service industry machinery.....	1	1	58		2	1	1	8		7
3334	HVAC and commercial refrigeration equipment.....	7	3	4	9	11	5	5	66	(*)	3
3335	Metalworking machinery.....	15	2	3	5	32	3	1	16	(*)	
3336	Turbine and power transmission equipment.....	(*)		4			(*)	(*)			
3339	Other general purpose machinery.....	7	(*)	1	2	130	8	1	15	(*)	1
3341	Computer and peripheral equipment.....	152	4	2,563	218	108	120	13	149	7	(*)
334A	Audio, video, and communications equipment.....	6	(*)	45	29	178	5	4	18	(*)	4
3344	Semiconductors and electronic components.....	79	(*)	2,659	8	239	127	46	169	10	(*)
3345	Electronic instruments.....	474	8	44	15	114	5	15	62	3	2
3346	Magnetic media products.....	121	4	171	65	12	113	31	306	5	14
3351	Electric lighting equipment.....	8	1	2	10	6	3	3	78	1	1
3352	Household appliances.....	(*)				1	(*)		3		(*)
3353	Electrical equipment.....	4	1	22	147	11	7	5	28	2	1
3359	Other electrical equipment and components.....	11	1	24	74	45	5	11	105	(*)	3
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	2	34	19	68	76	86	34	384	13	24
336A	Aerospace products and parts.....					696					
336B	Other transportation equipment.....										
3370	Furniture and related products.....	8	2	6	10	17	5	8	73	(*)	2
3391	Medical equipment and supplies.....		2	3				218		(*)	
3399	Other miscellaneous manufactured products.....	145	124	31	83	28	149	46	72	11	22

Industries Before Redefinitions, 1997—Continued
 at producers' prices]

Commodity number	For the distribution of output of a commodity read the row for that commodity	Architectural and engineering services	Specialized design services	Computer systems design and related services	Management and technical consulting services	Scientific research and development services	Advertising and related services	Other professional and technical services	Management of companies and enterprises	Employment services	Travel arrangement and reservation services
	For the composition of inputs to an industry read the column for that industry											Industry number
		5413	5414	5415	5416	5417	5418	5419	5500	5613	5615
4200	Wholesale trade	251	160	798	460	629	293	576	872	38	106
4A00	Retail trade	230	37	143	293	153	212	170	5	25	93
4810	Air transportation	960	84	611	689	238	320	263	50	269	138
4820	Rail transportation	15	2	9	22	15	17	8	32	6	4
4830	Water transportation	(*)	(*)	105	5	3	5	20	5	(*)	(*)
4840	Truck transportation	62	33	37	172	120	57	60	246	29	30
4850	Transit and ground passenger transportation	135	16	70	243	21	40	32	.....	67	23
4860	Pipeline transportation .....	(*)	.....	(*)	.....	(*)	.....	.....	1	(*)	(*)
48A0	Sightseeing transportation and transportation support	(*)	(*)	58	16	5	13	15	1	(*)	1
4920	Courier and messenger services	458	70	260	411	97	123	233	31	108	51
4930	Warehousing and storage	67	35	36	15	13	24	9	3	173	143
5111	Newspapers, books, and directories	110	11	68	835	458	32	326	231	10	26
5112	Software .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5120	Motion pictures and sound recordings	38	2	10	26	3	2,178	132	.....	1	5
5131	Radio and television broadcasting .....	.....	.....	.....	.....	.....	68	6	.....	.....	.....
5132	Cable networks and program distribution .....	.....	.....	.....	.....	.....	3	1	.....	.....	.....
5133	Telecommunications	1,291	275	2,161	1,100	526	555	1,060	7,316	232	434
5141	Information services	115	18	140	74	37	37	71	481	13	28
5142	Data processing services	461	62	941	105	211	120	70	3,468	161	411
52A0	Monetary oversight and credit intermediation	1,419	204	1,045	1,058	373	607	625	(*)	867	252
5230	Securities, commodity contracts, investments	282	26	209	231	151	112	143	1	34	16
5240	Insurance carriers and related services	126	44	72	181	71	75	440	3	20	37
5250	Funds, trusts, and other financial vehicles .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5310	Real estate	3,466	478	1,850	2,648	2,262	1,626	1,609	12,885	314	1,143
S008	Owner-occupied dwellings .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5321	Automotive equipment rental and leasing	348	68	505	157	236	170	208	2,476	35	170
532A	Consumer goods and general rentals	88	24	130	42	56	43	51	597	5	50
5324	Machinery and equipment rental and leasing	266	37	246	64	178	58	188	2,223	9	57
5330	Rights to nonfinancial intangible assets	101	210	1,294	204	61	49	576	1	485	3
5411	Legal services	615	60	301	517	951	373	260	8,535	50	786
5412	Accounting and bookkeeping services	499	91	293	444	185	310	806	2,686	100	131
5413	Architectural and engineering services	5,446	186	529	664	435	28	103	6	34	97
5414	Specialized design services	666	485	41	122	18	1,503	145	225	23	22
5415	Computer systems design and related services	604	423	999	145	225	152	103	2,318	50	264
5416	Management and technical consulting services	4,450	364	826	1,335	528	581	1,104	1	218	158
5417	Scientific research and development services	228	9	131	32	75	29	25	.....	75	16
5418	Advertising and related services	460	193	1,018	542	359	1,747	1,044	26,622	264	1,262
5419	Other professional and technical services	685	62	67	115	631	910	289	.....	12	17
5500	Management of companies and enterprises	720	90	633	277	186	305	170	.....	2,969	1,171
5613	Employment services	2,992	298	3,610	1,920	1,364	969	1,020	.....	329	496
5615	Travel arrangement and reservation services	2	(*)	3	27	2	2	4	(*)	1	1
561A	All other administrative and support services	3,459	366	2,703	2,498	1,345	756	917	14	423	490
5620	Waste management and remediation services	23	10	19	21	44	11	45	437	2	91
6100	Educational services	171	3	538	13	5	8	14	.....	16	3
6210	Ambulatory health care services .....	.....	12	1	.....	.....	.....	107	.....	.....	.....
6220	Hospital care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6230	Nursing and residential care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6240	Social assistance .....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
71A0	Performing arts, spectator sports, and museums	177	21	111	117	39	1,508	49	.....	92	26
7130	Amusements, gambling, and recreation	102	15	62	56	22	34	27	.....	52	15
7210	Accommodations	556	67	346	304	122	189	159	.....	189	83
7220	Food and beverage services to customer order	703	157	526	1,565	183	307	260	2	408	133
8111	Automotive repair and maintenance	116	23	221	77	119	60	94	1,229	8	56
811A	Electronic, commercial, and household goods repair	255	70	633	154	339	154	269	3,480	44	176
8120	Personal and laundry services	94	94	3	57	5	186	268	.....	6	3
813A	Religious, grantmaking, and social advocacy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
813B	Civic, social, professional and similar organizations	107	13	115	76	194	42	46	.....	51	21
8140	Private household services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S001	Federal Government enterprise services	1,111	118	519	510	342	316	519	386	106	442
S002	State and local government enterprise services	26	10	19	48	69	18	42	455	3	92
S003	Noncomparable imports	643	21	1,253	520	578	136	48	.....	83	334
S004	Scrap, used and secondhand goods .....	.....	.....	.....	.....	.....	(*)	(*)	.....	.....	.....
S005	General government services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S006	Rest of the world adjustment to final uses .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S007	Inventory valuation adjustment .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total intermediate inputs	38,805	6,281	33,317	24,788	22,076	20,692	19,195	94,229	8,839	11,609
	Total value added	92,615	11,570	68,100	61,390	38,123	37,237	44,242	225,539	81,510	13,581
V001	Compensation of employees	57,326	5,273	50,271	31,724	33,702	19,912	10,653	195,884	70,879	9,522
V002	Indirect business tax and nontax liability	832	309	1,546	501	443	617	1,354	5,910	402	404
V003	Other value added	34,457	5,988	16,283	29,164	3,977	16,708	32,235	23,745	10,229	3,655
	Total industry output	131,420	17,851	101,417	86,178	60,198	57,929	63,437	319,768	90,349	25,190

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	All other administra- tive and support services	Waste manage- ment and remedia- tion services	Educational services	Ambula- tory health care services	Hospitals	Nursing and resi- dential care facilities	Social assistance	Perform- ing arts, spectator sports, and museums	Amuse- ments, gambling, and recreation	Accom- modation
		561A	5620	6100	6210	6220	6230	6240	71A0	7130	7210
1110	Crop products.....	3,371		35	2	141	111	87	11	171	174
1120	Animal products.....	(*)		24		58	20	2	36	80	31
1130	Forestry and logging products.....	8		2					2		
1140	Fish and other nonfarm animals.....			40		68	9	2	2	68	166
1150	Agriculture and forestry support services.....										
2110	Oil and gas.....										
2121	Coal.....					(*)				(*)	(*)
2122	Metal ores.....										
2123	Nonmetallic minerals.....							4			
2130	Mining support services.....										
2211	Electric power.....	516	671	710	1,157	1,951	1,172	580	310	1,219	1,903
2212	Natural gas distribution.....	156	427	288	256	512	331	101	40	146	388
2213	Water and sewage treatment.....	90	193	80	155	345	192	92	44	159	282
2301	New residential construction.....										
2302	New nonresidential construction.....										
2303	Maintenance and repair construction.....	395	23	3,003	1,058	1,242	609	598	226	729	1,215
3110	Food products.....	2		792	12	3,893	2,800	3,075	111	1,872	3,228
3121	Beverage products.....			74		120	38	9	73	783	874
3122	Tobacco products.....										
3130	Yarn, fabrics, and other textile mill products.....	9		2	16	67	16	12	97	33	31
3140	Nonapparel textile products.....	21	(*)	29	9	608	163	90	52	94	520
3150	Apparel.....	72		9	26	338	30	5	16	2	3
3160	Leather and allied products.....	21	2	14	22	19	4	19	70	9	3
3210	Wood products.....	86	363	254	293	271	128	310	119	182	313
3221	Pulp, paper, and paperboard.....	283	18	258	314	218	89	134	34	59	165
3222	Converted paper products.....	896	49	321	1,027	1,660	887	649	117	143	218
3230	Printed products.....	1,728	30	645	858	1,808	386	1,329	163	141	141
3240	Petroleum and coal products.....	1,262	1,609	120	427	257	88	622	29	134	166
3251	Basic chemicals.....	493	391	225	3,716	5,122	183	19	22	17	32
3252	Resins, rubber, and artificial fibers.....					119	13			1	
3253	Agricultural chemicals.....	542		36		33	4		1	107	58
3254	Pharmaceuticals and medicines.....			37	4,113	7,176	643	23	13		
3255	Paints, coatings, and adhesives.....	113	5	182	35	80	22	91	37	66	62
3256	Soaps, cleaning compounds, and toiletries.....	419	(*)	59	192	389	149	53	7	25	131
3259	Other chemical products.....	269	8	233	805	483	149	61	44	171	106
3260	Plastics and rubber products.....	949	122	745	3,926	4,811	1,512	955	147	212	549
3270	Nonmetallic mineral products.....	94	1	498	921	735	261	65	116	111	251
331A	Primary ferrous metal products.....	5		77	8	19	6	34	4	5	16
331B	Primary nonferrous metal products.....	1	1	1	13	15	3	2	1	150	23
3315	Foundry products.....	1		2		7	(*)			9	(*)
3321	Forgings and stampings.....	7		3	174	138	26	24	7	13	28
3322	Cutlery and handtools.....	63	8	52	22	91	20	165	21	72	190
3323	Architectural and structural metal products.....	22		414	94	130	67	55	36	61	142
3324	Boilers, tanks, and shipping containers.....	(*)	(*)	2	2	5	1	(*)	1		3
332A	Ordinance and accessories.....	10								15	
332B	Other fabricated metal products.....	217	22	213	352	239	53	126	121	109	109
3331	Agriculture, construction, and mining machinery.....	28		1					6	3	
3332	Industrial machinery.....	3		1	3	(*)			(*)	2	5
3333	Commercial and service industry machinery.....	190	18	10	12	4	(*)		3	1	
3334	HVAC and commercial refrigeration equipment.....	33	(*)	68	48	114	27	17	10	20	50
3335	Metalworking machinery.....	30	2	15		11	2		1	27	5
3336	Turbine and power transmission equipment.....	16	4	3	1	1	(*)	2		2	
3339	Other general purpose machinery.....	27	1	4	7	18	2	1	4	16	9
3341	Computer and peripheral equipment.....	179		29	107	873	5		31	9	11
334A	Audio, video, and communications equipment.....	17	(*)	17	13	18	14	28	4	13	21
3344	Semiconductors and electronic components.....	901		189	1	174	58		50	2	
3345	Electronic instruments.....	69	103	52	1,217	706	19	22	3	7	12
3346	Magnetic media products.....	54	9	165	129	120	19	24	18	25	27
3351	Electric lighting equipment.....	50	1	118	63	128	57	11	31	109	132
3352	Household appliances.....	4		6	1	4	2	7	1	15	6
3353	Electrical equipment.....	92	8	54	36	104	28	9	2	13	27
3359	Other electrical equipment and components.....	49	2	59	70	52	23	34	35	25	52
3361	Motor vehicles.....										
336A	Motor vehicle bodies, trailers, and parts.....	591	608	115	225	334	45	314	64	98	111
336A	Aerospace products and parts.....										
336B	Other transportation equipment.....	2	(*)	6	23			14		19	
3370	Furniture and related products.....	10	(*)	7	43	35	16	18	14	19	40
3391	Medical equipment and supplies.....	1		43	7,216	4,181	486	111	2	23	16
3399	Other miscellaneous manufactured products.....	383	26	294	236	355	110	596	259	353	226

Industries Before Redefinitions, 1997—Continued

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 Industry number	All other administra- tive and support services	Waste manage- ment and remedia- tion services	Educational services	Ambula- tory health care services	Hospitals	Nursing and resi- dential care facilities	Social assistance	Perform- ing arts, spectator sports, and museums	Amuse- ments, gambling, and recreation	Accom- modation
		561A	5620	6100	6210	6220	6230	6240	71A0	7130	7210
4200	Wholesale trade	2,439	903	1,204	3,943	4,688	1,234	1,686	256	968	1,461
4A00	Retail trade	4,280	173	95	893	979	180	182	148	207	390
4810	Air transportation	1,513	220	513	1,408	1,090	250	258	133	127	231
4820	Rail transportation	65	54	27	74	114	27	39	4	18	37
4830	Water transportation	35	30	6	23	31	7	13	20	4	7
4840	Truck transportation	457	482	285	512	737	260	332	69	185	316
4850	Transit and ground passenger transportation	247	30	230	336	602	336	27	78	42	381
4860	Pipeline transportation	12	20	(*)	4	2		7		1	1
48A0	Sightseeing transportation and transportation support	29	112	24	86		1	11	13	49	21
4920	Courier and messenger services	558	89	195	873	640	210	132	123	235	268
4930	Warehousing and storage	144	13	26	108	137	17	54	23	71	139
5111	Newspapers, books, and directories	255	4	1,041	1,107	616	75	843	97	110	172
5112	Software										
5120	Motion pictures and sound recordings	43		1,301	22	10	374	567	760	61	148
5131	Radio and television broadcasting										
5132	Cable networks and program distribution			75	38	313	101	57	2	39	117
5133	Telecommunications	2,450	385	987	3,961	1,095	491	669	340	425	814
5141	Information services	198	34	68	301	78	32	72	26	29	56
5142	Data processing services	631	106	286	626	653	58	61	145	185	332
52A0	Monetary oversight and credit intermediation	2,107	408	591	3,996	1,127	719	499	861	1,265	1,386
5230	Securities, commodity contracts, investments	330	51	781	1,082	4,894	383	363	157	195	284
5240	Insurance carriers and related services	438	208	213	1,569	1,146	139	202	118	134	166
5250	Funds, trusts, and other financial vehicles										
5310	Real estate	3,843	124	15,828	14,915	20,718	5,777	4,777	1,852	4,184	2,895
S008	Owner-occupied dwellings										
5321	Automotive equipment rental and leasing	835	178	268	495	837	150	142	121	245	182
532A	Consumer goods and general rentals	185	6	256	135	90	42	21	32	66	50
5324	Machinery and equipment rental and leasing	376	11	251	1,130	1,072	127	48	137	180	140
5330	Rights to nonfinancial intangible assets	504	246	244	1,641	472	366	160	1,010	439	1,722
5411	Legal services	1,478	162	361	5,647	4,338	637	181	321	275	419
5412	Accounting and bookkeeping services	678	123	294	2,616	415	412	390	302	271	421
5413	Architectural and engineering services	472	42	329	259	424	95	94	78	486	348
5414	Specialized design services	121	22	131	217	188	41	23	47	99	58
5415	Computer systems design and related services	335	44	162	980	694	101	51	38	51	81
5416	Management and technical consulting services	2,158	123	633	1,703	3,752	283	466	235	413	504
5417	Scientific research and development services	242	35	138	180	740	72	81	42	108	210
5418	Advertising and related services	2,229	286	1,751	2,414	822	257	375	1,494	1,927	2,076
5419	Other professional and technical services	246	38	257	363	523	72	117	378	114	231
5500	Management of companies and enterprises	2,448	66	440	4,755	5,466	351	1,459	404	1,321	2,300
5613	Employment services	3,885	96	1,172	6,654	4,719	2,045	802	667	408	434
5615	Travel arrangement and reservation services	13	1	4	8	5	2	1	57	35	1,475
561A	All other administrative and support services	4,665	288	2,695	7,795	6,747	2,020	1,873	1,556	792	746
5620	Waste management and remediation services	92	5,127	157	342	650	347	99	34	167	379
6100	Educational services	146	6	972	62	660	21	85	283	17	20
6210	Ambulatory health care services	20	2	51	5,445	186	36		54	2	
6220	Hospital care										
6230	Nursing and residential care										
6240	Social assistance	3		(*)						(*)	(*)
71A0	Performing arts, spectator sports, and museums	196	43	282	171	139	76	179	9,080	641	508
7130	Amusements, gambling, and recreation	106	24	52	143	75	25	22	14	41	20
7210	Accommodations	471	132	286	635	416	136	91	78	64	113
7220	Food and beverage services to customer order	1,152	237	893	2,721	3,181	3,597	623	198	164	315
8111	Automotive repair and maintenance	272	957	161	357	495	72	77	75	172	126
811A	Electronic, commercial, and household goods repair	680	3,033	581	916	1,371	205	179	110	494	378
8120	Personal and laundry services	179	4	254	274	661	283	162	205	368	796
813A	Religious, grantmaking, and social advocacy										
813B	Civic, social, professional and similar organizations	186	34	323	313	221	83	54	70	33	62
8140	Private household services										
S001	Federal Government enterprise services	1,113	203	694	4,277	3,599	521	585	224	369	460
S002	State and local government enterprise services	139	31	64	177	263	195	69	31	111	313
S003	Noncomparable imports	130	21	70	13	3	3	3	14	30	111
S004	Scrap, used and secondhand goods	5	1	1		1	(*)	1			
S005	General government services										
S006	Rest of the world adjustment to final uses										
S007	Inventory valuation adjustment										
	Total intermediate inputs	60,675	19,795	48,730	118,169	123,287	34,437	29,967	25,277	26,405	36,890
	Total value added	129,637	22,163	62,779	262,939	152,101	57,784	36,918	30,141	45,417	76,694
V001	Compensation of employees	75,484	11,061	56,173	185,870	147,762	50,003	30,731	18,475	23,076	39,224
V002	Indirect business tax and nontax liability	2,852	1,844	507	2,204	978	709	468	2,346	4,043	8,111
V003	Other value added	51,301	9,258	6,099	74,865	3,361	7,072	5,719	9,320	18,297	29,360
	Total industry output	190,312	41,959	111,509	381,108	275,388	92,222	66,885	55,418	71,822	113,584

* Less than \$500,000.

Table 2. The Use of Commodities by
[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	Food services and drinking places	Auto-motive repair and maintenance	Electronic, commercial, and household goods repair	Personal and laundry services	Religious, grant-making, and social advocacy organizations	Civic, social, professional and similar organizations	Private households	Federal Government enterprises	State and local government enterprises	General government industry	Inventory valuation adjustment	Total intermediate use
		Industry number	7220	8111	811A	8120	813A	813B	8140	S001	S002	S005	S007
1110	Crop products.....	2,803	(*)			6	42		11	10	11		92,385
1120	Animal products.....	1,404			82		4						100,060
1130	Forestry and logging products.....				45								28,627
1140	Fish and other nonfarm animals.....	2,973						26	12				6,313
1150	Agriculture and forestry support services.....												15,194
2110	Oil and gas.....								6	2,689			147,649
2121	Coal.....	11					(*)			1,214			21,072
2122	Metal ores.....												8,421
2123	Nonmetallic minerals.....		(*)	5	1					113	30		15,786
2130	Mining support services.....												2,695
2211	Electric power.....	4,634	640	293	1,173	279	517		12	3,405	45		110,084
2212	Natural gas distribution.....	1,173	294	83	430	73	136		34	214	6		32,149
2213	Water and sewage treatment.....	300	78	21	137	75	58		154	1,444	4		9,802
2301	New residential construction.....												
2302	New nonresidential construction.....												
2303	Maintenance and repair construction.....	1,686	285	128	626	1,104	475		907	6,886	27		71,898
3110	Food products.....	52,619			99	15	600		306				177,561
3121	Beverage products.....	7,665				7	272		26				12,744
3122	Tobacco products.....												3,925
3130	Yarn, fabrics, and other textile mill products.....	28	26	90	73		(*)			11	1		53,259
3140	Nonapparel textile products.....	163	17	31	383	5	24			122	17		11,990
3150	Apparel.....	11	6	40	125	31	4			46			9,522
3160	Leather and allied products.....	5	3	30	6	3	62		40	(*)			5,984
3210	Wood products.....	374	64	45	141	25	100			756	287		83,833
3221	Pulp, paper, and paperboard.....	1,190	44	24	154	31	36		114	56	22		65,118
3222	Converted paper products.....	1,111	96	72	259	106	178		207	110	43		61,961
3230	Printed products.....	382	32	42	288	690	4,879		819	298	83		60,607
3240	Petroleum and coal products.....	428	195	32	278	56	100		685	3,744	121		100,418
3251	Basic chemicals.....	283	31	165	106	7	11		21	812	5		111,427
3252	Resins, rubber, and artificial fibers.....			2									61,070
3253	Agricultural chemicals.....	2			37	6	1			155			20,832
3254	Pharmaceuticals and medicines.....				(*)					3			31,008
3255	Paints, coatings, and adhesives.....	45	322	84	16	5	13		1	317	54		22,856
3256	Soaps, cleaning compounds, and toiletries.....	49	102	7	1,328	7	12			40	(*)		11,261
3259	Other chemical products.....	25	73	43	378	22	91		131	869	17		30,187
3260	Plastics and rubber products.....	3,594	2,173	463	268	59	97		18	1,158	140		137,373
3270	Nonmetallic mineral products.....	722	432	124	392	23	55		(*)	1,789	261		83,121
331A	Primary ferrous metal products.....	14	3	68	111	1	6			187	41		91,563
331B	Primary nonferrous metal products.....	10	2	99	3		2				4		69,112
3315	Foundry products.....	3	(*)	28			(*)				4		27,919
3321	Forgings and stampings.....	33	6	74	14	2	9		27	1	7		23,099
3322	Cutlery and handtools.....	139	278	105	69	6	14		5	53	9		5,935
3323	Architectural and structural metal products.....	165	31	16	52	11	47			1,302	195		48,877
3324	Boilers, tanks, and shipping containers.....	1	(*)		1	(*)	(*)			2	16		15,889
332A	Ordnance and accessories.....			52	(*)								247
332B	Other fabricated metal products.....	158	808	712	110	14	35		272	1,805	110		116,778
3331	Agriculture, construction, and mining machinery.....			556	1					123	4		6,625
3332	Industrial machinery.....	78		385	153		3						7,094
3333	Commercial and service industry machinery.....		16	679	275				30	21	15		4,958
3334	HVAC and commercial refrigeration equipment.....	60	11	135	14	4	17			888	79		19,829
3335	Metalworking machinery.....	1	21	142	18		2		(*)	7	1		9,425
3336	Turbine and power transmission equipment.....	2	618	354	4	1			56	107			19,617
3339	Other general purpose machinery.....	92	104	636	7	2	2		(*)	431	31		18,813
3341	Computer and peripheral equipment.....	(*)	8	198	14		(*)		(*)		20		34,475
334A	Audio, video, and communications equipment.....	25	7	174	4	1	12			183	16		20,849
3344	Semiconductors and electronic components.....	(*)	1,051	2,015	164		1		(*)	125	51		143,074
3345	Electronic instruments.....	25	117	165	69	3	28		1	510	21		20,275
3346	Magnetic media products.....	34	12	9	22	12	30		6	41	3		9,171
3351	Electric lighting equipment.....	75	10	2	8	2	12		(*)	322	27		9,649
3352	Household appliances.....	2	(*)	721	111	1	1			70	15		4,366
3353	Electrical equipment.....	32	99	276	10	2	6			903	14		28,844
3359	Other electrical equipment and components.....	61	337	147	24	4	16		25	253	74		30,649
3361	Motor vehicles.....												1,073
336A	Motor vehicle bodies, trailers, and parts.....	248	12,929	169	161	50	29		958	370	38		171,713
3364	Aerospace products and parts.....									19			32,142
336B	Other transportation equipment.....	8	94	283	2				14	146	1		4,772
3370	Furniture and related products.....	41	8	9	27	2	14		66	321	61		13,206
3391	Medical equipment and supplies.....	1	15	24			7			41	1		15,519
3399	Other miscellaneous manufactured products.....	735	451	241	1,586	146	136		2	51	8		19,274

Industries Before Redefinitions, 1997—Continued
 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	Food services and drinking places	Auto-motive repair and maintenance	Electronic, commercial, and household goods repair	Personal and laundry services	Religious, grantmaking, and social advocacy organizations	Civic, social, professional and similar organizations	Private households	Federal Government enterprises	State and local government enterprises	General government industry	Inventory valuation adjustment	Total intermediate use
		Industry number	7220	8111	811A	8120	813A	813B	8140	S001	S002	S005	S007
4200	Wholesale trade	12,231	2,467	1,335	1,157	200	729	.....	175	3,929	186	.....	350,305
4A00	Retail trade.....	1,912	2,975	233	347	174	285	.....	3	90	.....	.....	81,135
4810	Air transportation.....	1,009	493	200	315	76	120	.....	1,378	179	189	.....	47,957
4820	Rail transportation	440	129	19	18	5	17	.....	205	602	9	.....	26,878
4830	Water transportation	31	15	2	6	2	2	.....	25	128	3	.....	5,511
4840	Truck transportation.....	2,474	468	194	395	41	114	.....	1,752	861	74	.....	112,471
4850	Transit and ground passenger transportation	106	45	19	60	273	68	.....	15	38	13	.....	10,507
4860	Pipeline transportation	4	1	.....	3	1	1	.....	3	1,266	(*)	.....	26,071
48A0	Sightseeing transportation and transportation support.....	179	11	41	44	1	2	.....	67	302	.....	.....	32,297
4920	Courier and messenger services.....	450	161	85	203	87	149	.....	223	366	81	.....	40,647
4930	Warehousing and storage.....	18	56	20	41	9	24	.....	.....	88	(*)	.....	27,176
5111	Newspapers, books, and directories	124	34	12	1,447	232	377	.....	92	10	16	.....	18,386
5112	Software.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,985
5120	Motion pictures and sound recordings	1,399	14	5	73	42	157	.....	10	(*)	.....	.....	40,093
5131	Radio and television broadcasting .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,054
5132	Cable networks and program distribution	283	.....	.....	.....	.....	5	.....	.....	1	.....	.....	8,931
5133	Telecommunications	1,252	706	696	1,041	309	662	.....	248	511	219	.....	138,647
5141	Information services	77	47	47	71	54	47	.....	25	48	15	.....	7,930
5142	Data processing services	525	209	115	177	76	211	.....	41	201	116	.....	32,221
52A0	Monetary oversight and credit intermediation.....	5,293	894	534	980	154	290	.....	513	1,035	8	.....	183,161
5230	Securities, commodity contracts, investments	477	105	70	139	354	276	.....	62	413	17	.....	128,741
5240	Insurance carriers and related services.....	403	129	89	208	71	79	.....	177	235	90	.....	177,348
5250	Funds, trusts, and other financial vehicles .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,744
5310	Real estate	13,078	2,712	1,258	6,706	7,380	4,881	.....	699	3,185	368	.....	370,696
S008	Owner-occupied dwellings.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5321	Automotive equipment rental and leasing	320	157	156	265	82	109	.....	42	448	49	.....	38,848
532A	Consumer goods and general rentals.....	81	44	41	71	18	26	.....	1	17	8	.....	6,646
5324	Machinery and equipment rental and leasing.....	214	119	108	193	58	83	.....	26	119	102	.....	38,230
5330	Rights to nonfinancial intangible assets.....	3,001	97	61	442	12	34	.....	50	2	2	.....	72,274
5411	Legal services	467	170	128	407	348	531	.....	102	563	74	.....	89,285
5412	Accounting and bookkeeping services	1,006	379	192	564	336	362	.....	101	570	73	.....	54,986
5413	Architectural and engineering services	277	17	16	65	75	61	.....	45	6,137	682	.....	98,999
5414	Specialized design services.....	143	30	17	61	10	23	.....	14	20	6	.....	16,300
5415	Computer systems design and related services.....	153	61	57	67	103	110	.....	165	617	37	.....	34,040
5416	Management and technical consulting services.....	1,021	242	127	423	511	518	.....	352	1,070	124	.....	79,119
5417	Scientific research and development services.....	24	84	34	117	50	104	.....	43	21	2	.....	32,459
5418	Advertising and related services	6,210	1,003	522	1,710	394	1,331	.....	114	533	11	.....	171,254
5419	Other professional and technical services.....	128	156	57	785	225	126	.....	29	314	.....	.....	45,132
5500	Management of companies and enterprises.....	20	1,590	354	1,339	219	258	.....	.....	88	140	.....	293,080
5613	Employment services.....	575	585	657	771	711	523	.....	388	273	643	.....	83,172
5615	Travel arrangement and reservation services	9	1	1	8	3	3	.....	(*)	(*)	1	.....	16,952
561A	All other administrative and support services	1,043	570	613	1,213	1,843	2,501	.....	585	2,429	486	.....	161,206
5620	Waste management and remediation services	469	185	32	392	46	91	.....	433	64	8	.....	27,346
6100	Educational services	42	12	5	34	90	241	.....	16	57	5	.....	8,824
6210	Ambulatory health care services .....	.....	.....	.....	.....	22	28	.....	.....	.....	.....	.....	6,079
6220	Hospital care.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6230	Nursing and residential care .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6240	Social assistance.....	.....	.....	.....	.....	.....	(*)	.....	.....	.....	.....	.....	8
71A0	Performing arts, spectator sports, and museums.....	1,860	67	31	662	32	23	.....	15	35	33	.....	28,946
7130	Amusements, gambling, and recreation.....	188	38	17	30	15	11	.....	6	14	19	.....	4,072
7210	Accommodations	416	212	96	147	83	68	.....	61	80	132	.....	23,754
7220	Food and beverage services to customer order	1,561	238	171	435	55	183	.....	171	164	71	.....	57,458
8111	Automotive repair and maintenance.....	436	88	72	139	22	76	.....	162	54	43	.....	37,893
811A	Electronic, commercial, and household goods repair.....	1,223	256	227	399	46	174	.....	48	592	99	.....	71,096
8120	Personal and laundry services	553	572	81	1,179	29	68	.....	255	14	1	.....	10,420
813A	Religious, grantmaking, and social advocacy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
813B	Civic, social, professional and similar organizations	127	116	77	194	47	128	.....	58	34	46	.....	19,142
8140	Private household services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S001	Federal Government enterprise services	610	318	243	587	501	920	.....	99	367	48	.....	48,157
S002	State and local government enterprise services.....	434	103	38	175	12	84	.....	217	1,279	10	.....	12,477
S003	Noncomparable imports	40	7	24	95	.....	.....	.....	1,038	.....	.....	.....	64,686
S004	Scrap, used and secondhand goods	2	758	19	2	.....	.....	.....	.....	.....	.....	.....	16,985
S005	General government services.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S006	Rest of the world adjustment to final uses .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S007	Inventory valuation adjustment.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total intermediate inputs.....	150,142	41,895	19,542	36,261	18,431	25,506	.....	15,313	64,005	6,394	.....	6,517,231
	Total value added	149,627	43,023	35,966	55,554	36,421	23,189	12,035	59,309	60,351	944,633	9,211	.....
V001	Compensation of employees.....	100,267	21,536	17,342	24,446	36,391	22,863	12,035	53,569	39,054	793,103	.....	4,656,147
V002	Indirect business tax and nontax liability	17,327	3,369	1,308	2,341	30	326	.....	.....	1,055	.....	.....	646,223
V003	Other value added	32,033	18,118	17,317	28,767	.....	.....	.....	5,740	20,243	151,530	9,211	3,043,276
	Total industry output	299,769	84,918	55,508	91,815	54,852	48,695	12,035	74,622	124,356	951,027	9,211	.....

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	Personal consumption expenditures F010	Private fixed investment F020	Change in private inventories F030	Exports of goods and services F040	Imports of goods and services F050	Federal Government consumption and gross investment				
							Total	National defense: Consumption expenditures	National defense: Gross investment	Non-defense: Consumption expenditures	Non-defense: Gross investment
							F06C	F06I	F07C	F07I	
1110	Crop products.....	26,967		3,983	20,535	-12,118	-416			-416	
1120	Animal products.....	4,474		-192	1,936	-2,596	1	1			
1130	Forestry and logging products.....			124	1,812	-1,788	-548	-2		-546	
1140	Fish and other nonfarm animals.....	4,232		83	2,131	-6,613					
1150	Agriculture and forestry support services.....	459			23	-9					
2110	Oil and gas.....			-19	1,418	-64,465	-403			-403	
2121	Coal.....	57		96	2,288	-305	33			33	
2122	Metal ores.....		39	11	1,146	1,891	-279	-280		1	
2123	Nonmetallic minerals.....	40		195	760	-1,336	(*)	-6		6	
2130	Mining support services.....		22,497	28							
2211	Electric power.....	94,516			301	-1,043	3,037	1,493		1,543	
2212	Natural gas distribution.....	36,832		3	218		775	354		421	
2213	Water and sewage treatment.....	21,428			58		708	335		373	
2301	New residential construction.....		254,733				2,024		2,024		
2302	New nonresidential construction.....		224,188				13,898		3,698		10,200
2303	Maintenance and repair construction.....		27,333		96		5,618	3,335			
3110	Food products.....	223,062		1,378	24,028	-21,515	233	167		65	
3121	Beverage products.....	57,168		955	1,406	-6,338	9	9			
3122	Tobacco products.....	32,257		1,037	5,818	-1,282					
3130	Yarn, fabrics, and other textile mill products.....	2,991	1	48	4,808	-7,239	71	45		27	
3140	Nonapparel textile products.....	19,032	2,905	657	2,098	-5,289	221	115		83	23
3150	Apparel.....	99,875		2,620	7,378	-55,575	459	455		5	
3160	Leather and allied products.....	23,704		365	1,936	-21,945	30	25		5	
3210	Wood products.....	1,556	9,842	1,125	4,681	-13,589	24	11		13	1
3221	Pulp, paper, and paperboard.....	6,503		565	9,280	-12,372	82	3		80	
3222	Converted paper products.....	8,600		826	4,053	-3,145	759	60		699	
3230	Printed products.....	2,739		631	1,287	-1,115	1,597	304		1,293	
3240	Petroleum and coal products.....	58,635		744	8,790	-12,293	2,299	1,915		385	
3251	Basic chemicals.....	717	2,040	718	22,562	-20,097	2,124	668		1,457	
3252	Resins, rubber, and artificial fibers.....			619	13,293	-7,222	4	3		1	
3253	Agricultural chemicals.....	1,296		506	4,250	-3,174	27	3		25	
3254	Pharmaceuticals and medicines.....	60,783		3,551	10,048	-27,314	760	607		153	
3255	Paints, coatings, and adhesives.....	1,059		192	1,595	-698	9			9	
3256	Soaps, cleaning compounds, and toiletries.....	36,657		840	4,130	-3,011	104	44		60	
3259	Other chemical products.....	2,394		404	4,551	-4,389	599	183		416	
3260	Plastics and rubber products.....	15,229	266	1,747	11,692	-14,769	807	533		228	46
3270	Nonmetallic mineral products.....	5,623		597	5,021	-11,077	274	19		255	
331A	Primary ferrous metal products.....	739		1,564	4,843	-18,452	13	11		2	
331B	Primary nonferrous metal products.....	57		589	8,010	-16,728	185	102		83	
3315	Foundry products.....	6		309	489	-618	16	8		8	
3321	Forgings and stampings.....	256		357	637	-100	141	81		60	
3322	Cutlery and handtools.....	4,910	302	263	1,145	-3,206	390	335	22	27	6
3323	Architectural and structural metal products.....	74	464	513	1,109	-746	227	68		115	43
3324	Boilers, tanks, and shipping containers.....	123	4,061	205	2,090	-813	273	39		167	35
332A	Ordnance and accessories.....	1,459		31	1,115	-460	3,317	1,906	1,394	17	
332B	Other fabricated metal products.....	2,296	2,506	1,249	8,941	-14,917	1,009	434	165	214	195
3331	Agriculture, construction, and mining machinery.....	619	33,712	2,253	14,669	-9,748	416	12	394		10
3332	Industrial machinery.....	557	26,361	541	11,312	-12,248	43	1	34		8
3333	Commercial and service industry machinery.....	1,995	17,343	260	5,337	-10,382	1,321	18	1,246	4	53
3334	HVAC and commercial refrigeration equipment.....	1,601	5,764	15	5,479	-3,682	131	55		76	
3335	Metalworking machinery.....	62	25,347	356	4,243	-8,623	69	6	35	2	1
3336	Turbine and power transmission equipment.....	521	3,423	17	12,160	-6,409	549	62	278	2	207
3339	Other general purpose machinery.....	1,170	34,540	831	15,409	-13,842	365	71	210	24	59
3341	Computer and peripheral equipment.....	16,207	61,452	2,372	21,361	-50,335	3,265	193	1,020	616	1,436
334A	Audio, video, and communications equipment.....	22,607	52,334	473	23,017	-35,294	4,716	1,461	1,712	201	1,342
3344	Semiconductors and electronic components.....	433		1,846	53,039	-59,858	1,830	1,489		339	3
3345	Electronic instruments.....	3,609	38,848	55	20,010	-15,112	16,401	5,381	8,699	995	1,326
3346	Magnetic media products.....	415	100	418	2,969	-2,261	217	53		165	
3351	Electric lighting equipment.....	3,408	468	81	1,301	-3,752	122	2		121	
3352	Household appliances.....	15,464	3,386	74	2,921	-6,698	19	1	13		5
3353	Electrical equipment.....	224	7,161	201	5,855	-8,606	709	167	219	190	133
3359	Other electrical equipment and components.....	4,800	4,314	493	8,604	-9,694	544	105	230	120	88
3361	Motor vehicles.....	129,191	141,961	3,867	22,850	-87,831	1,391		721		670
336A	Motor vehicle bodies, trailers, and parts.....	14,650	8,275	-1,663	34,136	-40,334	1,662	1,093	108	119	342
336A	Aerospace products and parts.....	695	13,918	-1,671	48,844	-15,851	37,845	25,151	8,578	1,087	3,029
336B	Other transportation equipment.....	9,243	9,413	392	4,601	-4,679	8,036	2,526	5,361	47	101
3370	Furniture and related products.....	29,943	22,068	482	2,364	-9,531	124		15		108
3391	Medical equipment and supplies.....	7,617	13,724	385	7,040	-6,482	1,030	486	113	287	143
3399	Other miscellaneous manufactured products.....	52,037	8,243	1,167	7,085	-34,714	101	12	56	26	8

Industries Before Redefinitions, 1997—Continued
 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 Industry number	Personal consumption expenditures F010	Private fixed investment F020	Change in private inventories F030	Exports of goods and services F040	Imports of goods and services F050	Federal Government consumption and gross investment				
							Total	National defense: Consumption expenditures F06C	National defense: Gross investment F06I	Non-defense: Consumption expenditures F07C	Non-defense: Gross investment F07I
4200	Wholesale trade	222,467	72,837	5,338	61,685	19,617	5,673	1,944	2,138	741	850
4A00	Retail trade	617,895	34,189		1		8	1		6	
4810	Air transportation	53,765	2,854	144	28,614	-14,957	3,524	2,171	151	1,142	60
4820	Rail transportation	4,584	1,579	168	4,710	-194	409	255	12	128	13
4830	Water transportation	5,941	19	22	6,588	4,899	1,265	1,193		71	
4840	Truck transportation	34,462	5,967	917	13,827	-1,985	2,549	2,143	127	243	36
4850	Transit and ground passenger transportation	16,807					25	22		3	
4860	Pipeline transportation	713		-1	342		25	21		4	
48A0	Sightseeing transportation and transportation support	3,122			6,386		53			53	
4920	Courier and messenger services										
4930	Warehousing and storage	452			464		653	120		533	
5111	Newspapers, books, and directories	39,520		843	2,729	-1,907	208	47		161	
5112	Software	5,591	31,736	279	6,606	-478	2,390		1,330		1,060
5120	Motion pictures and sound recordings	18,398		-89	6,077	-434	611	557		53	
5131	Radio and television broadcasting	2,254									
5132	Cable networks and program distribution	30,131					4			4	
5133	Telecommunications	105,376	5,532		4,719		5,701	2,128		3,573	
5141	Information services	6,123			21	-4	215	176		39	
5142	Data processing services				268	-17	3,358	2,904		454	
52A0	Monetary oversight and credit intermediation	207,204			19,151	-305	1,513			1,513	
5230	Securities, commodity contracts, investments	58,328			8,524		1			1	
5240	Insurance carriers and related services	162,551			3,096	-5,619	5,361	9		5,352	
5250	Funds, trusts, and other financial vehicles	67,909					-103			-103	
5310	Real estate	190,399	43,539		702		3,541	398		3,143	
S008	Owner-occupied dwellings	592,862									
5321	Automotive equipment rental and leasing	40,507			1,548	-145	495	296		199	
532A	Consumer goods and general rentals	16,689			23						
5324	Machinery and equipment rental and leasing	91			2,016	-44	140	40		100	
5330	Rights to nonfinancial intangible assets				29,735	-16					
5411	Legal services	53,747			2,901	-607	837	531		306	
5412	Accounting and bookkeeping services	4,962			420	-306	634	631		3	
5413	Architectural and engineering services		20,823		6,073	-859	3,183	2,693		490	
5414	Specialized design services	2,523			5	-9	28	23		5	
5415	Computer systems design and related services		67,498		4,406	-764	27,656	4,518	8,076	3,686	11,377
5416	Management and technical consulting services	1,045			1,759	-1,634	2,542	2,442		99	
5417	Scientific research and development services	8,649			940	-422	17,311	10,778		6,533	
5418	Advertising and related services	714			1,310	-1,325	486	454		32	
5419	Other professional and technical services	14,725			28	-3	620	199		421	
5500	Management of companies and enterprises				22,417						
5613	Employment services	784			85	-17	1,204	1,171		33	
5615	Travel arrangement and reservation services	6,961			1,059						
561A	All other administrative and support services	14,279			412	-7	6,122	5,711		412	
5620	Waste management and remediation services	8,732			6		712	346		366	
6100	Educational services	121,012			447	-565	8,620	258		8,362	
6210	Ambulatory health care services	389,518			1		195			195	
6220	Hospital care	337,821			23	-10	228			228	
6230	Nursing and residential care	92,577					204			204	
6240	Social assistance	64,556					19			19	
71A0	Performing arts, spectator sports, and museums	23,293			150	-260	312	311		1	
7130	Amusements, gambling, and recreation	79,451					210	207		3	
7210	Accommodations	53,423					1,289	750		539	
7220	Food and beverage services to customer order	291,088			408		440	255		185	
8111	Automotive repair and maintenance	105,396			8		46	14		32	
811A	Electronic, commercial, and household goods repair	14,507		(*)	22	-1,186	2,837	2,549		288	
8120	Personal and laundry services	83,981		21			96	91		5	
813A	Religious, grantmaking, and social advocacy	53,837									
813B	Civic, social, professional and similar organizations	25,091			105						
8140	Private household services	12,035									
S001	Federal Government enterprise services	7,046			261		1,013	1,132		-119	
S002	State and local government enterprise services	29,053					431	197		234	
S003	Noncomparable imports	45,260	998			-120,514	9,570	7,245		2,325	
S004	Scrap, used and secondhand goods	35,521	-50,991	2,551	7,853	-5,796	135	686	-57	108	-603
S005	General government services						293,006	195,128		97,878	
S006	Rest of the world adjustment to final uses	-90,012			91,249	-40	-1,197			-1,197	
S007	Inventory valuation adjustment			9,211							
	Total	5,571,584	1,319,909	62,166	898,585	-989,747	537,816	304,470	48,156	152,776	32,415

* Less than \$500,000.

Table 2. The Use of Commodities by
[Millions of dollars]

Commodity number	For the distribution of output of a commodity read the row for that commodity For the composition of inputs to an industry read the column for that industry Industry number	State and local government consumption and gross investment				GDP	Total commodity output	
		Total	Education: Consumption expenditures	Education: Gross investment	Other: Consumption expenditures			Other: Gross investment
			F08C	F08I	F09C			F09I
1110	Crop products.....	1,345	490		855		40,295	132,679
1120	Animal products.....	45	83		-38		3,669	103,729
1130	Forestry and logging products.....	-586			-586		-986	27,642
1140	Fish and other nonfarm animals.....	-97	16		-113		-264	6,050
1150	Agriculture and forestry support services.....	-700			-700		-227	14,967
2110	Oil and gas.....						-63,470	84,179
2121	Coal.....	51	30		22		2,220	23,292
2122	Metal ores.....						2,809	11,229
2123	Nonmetallic minerals.....	392			392		51	15,837
2130	Mining support services.....						22,525	25,220
2211	Electric power.....	16,520	6,172		10,349		113,332	223,416
2212	Natural gas distribution.....	5,517	2,825		2,693		43,345	75,493
2213	Water and sewage treatment.....	2,712	994		1,718		24,906	34,708
2301	New residential construction.....	5,024		648		4,376	261,781	261,781
2302	New nonresidential construction.....	131,584		32,885		98,699	369,670	369,670
2303	Maintenance and repair construction.....	17,695	2,721		14,974		50,742	122,640
3110	Food products.....	11,633	6,900		4,732		238,819	416,380
3121	Beverage products.....	241	164		77		53,440	66,184
3122	Tobacco products.....	-66	-4		-62		37,764	41,689
3130	Yarn, fabrics, and other textile mill products.....	407	86		321		1,088	54,347
3140	Nonapparel textile products.....	554	91	14	437	12	20,176	32,166
3150	Apparel.....	1,554	-15		1,569		56,311	65,833
3160	Leather and allied products.....	185	2		183		4,275	10,259
3210	Wood products.....	865	427		438		4,503	88,336
3221	Pulp, paper, and paperboard.....	1,805	1,111		694		5,863	70,982
3222	Converted paper products.....	2,336	730		1,606		13,429	75,390
3230	Printed products.....	4,610	2,357		2,253		9,749	70,355
3240	Petroleum and coal products.....	15,027	6,158		8,869		73,204	173,622
3251	Basic chemicals.....	4,224	894		3,330		12,288	123,715
3252	Resins, rubber, and artificial fibers.....	2	1		1		6,696	67,765
3253	Agricultural chemicals.....	700	194		506		3,604	24,436
3254	Pharmaceuticals and medicines.....	6,173	151		6,022		54,000	85,008
3255	Paints, coatings, and adhesives.....	733	447		285		2,890	25,746
3256	Soaps, cleaning compounds, and toiletries.....	945	251		694		39,665	50,926
3259	Other chemical products.....	2,979	891		2,088		6,537	36,724
3260	Plastics and rubber products.....	3,222	402		2,820		18,193	155,566
3270	Nonmetallic mineral products.....	931	266		665		1,367	84,489
331A	Primary ferrous metal products.....	142	38		103		-11,151	80,411
331B	Primary nonferrous metal products.....	15	6		9		-7,872	61,240
3315	Foundry products.....	15			15		218	28,137
3321	Forgings and stampings.....	83	17		65		1,374	24,472
3322	Cutlery and handtools.....	1,137	369	43	712	13	4,941	10,876
3323	Architectural and structural metal products.....	321	139		182		1,960	50,837
3324	Boilers, tanks, and shipping containers.....	297	6	128	12	153	6,237	22,126
332A	Ordnance and accessories.....	171			171		5,633	5,880
332B	Other fabricated metal products.....	926	100	234	247	344	2,010	118,788
3331	Agriculture, construction, and mining machinery.....	1,506	104	18	18	1,367	43,428	50,054
3332	Industrial machinery.....	249	46	190		13	26,814	33,908
3333	Commercial and service industry machinery.....	2,996	323	1,322	128	1,224	18,870	23,828
3334	HVAC and commercial refrigeration equipment.....	818	222	161	407	28	10,126	29,955
3335	Metalworking machinery.....	506	88	83	57	279	21,960	31,386
3336	Turbine and power transmission equipment.....	306		24	174	109	10,566	30,183
3339	Other general purpose machinery.....	868	87	117	78	586	39,341	58,154
3341	Computer and peripheral equipment.....	4,339	269	1,866	515	1,689	58,661	93,136
334A	Audio, video, and communications equipment.....	1,852	114	638	246	853	69,705	90,554
3344	Semiconductors and electronic components.....	300	107		193		-2,411	140,664
3345	Electronic instruments.....	1,338	24	536	131	649	65,150	85,425
3346	Magnetic media products.....	65	54		11		1,923	11,094
3351	Electric lighting equipment.....	1,071	480	13	565	14	2,698	12,347
3352	Household appliances.....	351	1	259	14	78	15,517	19,883
3353	Electrical equipment.....	916	84	295	42	496	6,459	35,303
3359	Other electrical equipment and components.....	282	71	55	127	29	9,344	39,992
3361	Motor vehicles.....	7,638		1,809		5,829	219,066	220,139
336A	Motor vehicle bodies, trailers, and parts.....	3,423	1,369		2,054		20,149	191,862
3364	Aerospace products and parts.....	33				33	83,814	115,956
336B	Other transportation equipment.....	702		100	17	585	27,707	32,479
3370	Furniture and related products.....	3,933		2,518	3	1,412	49,382	62,588
3391	Medical equipment and supplies.....	3,368	5	278	2,070	1,015	26,682	42,200
3399	Other miscellaneous manufactured products.....	2,964	773	1,032	1,038	121	36,883	56,156

Industries Before Redefinitions, 1997—Continued
 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 Industry number	State and local government consumption and gross investment				GDP	Total commodity output	
		Total	Education: Consumption expenditures	Education: Gross investment	Other: Consumption expenditures			Other: Gross investment
			F08C	F08I	F09C			F09I
4200	Wholesale trade	14,980	4,067	1,911	6,811	2,191	402,597	752,902
4A00	Retail trade	202	194		8		652,294	733,429
4810	Air transportation	1,912	662	48	1,135	66	75,855	123,812
4820	Rail transportation	817	261	29	470	57	12,072	38,949
4830	Water transportation	382	77	(*)	305	(*)	19,116	24,628
4840	Truck transportation	3,235	1,182	118	1,726	209	58,972	171,443
4850	Transit and ground passenger transportation	4,737	4,249		488		21,569	32,076
4860	Pipeline transportation	135	56		79		1,213	27,284
48A0	Sightseeing transportation and transportation support	118	27		91		9,677	41,974
4920	Courier and messenger services	1,241	410		830		1,241	41,887
4930	Warehousing and storage	550	219		331		2,119	29,295
5111	Newspapers, books, and directories	4,530	4,007		523		45,924	64,310
5112	Software	2,944		485		2,459	49,068	58,053
5120	Motion pictures and sound recordings	177	51		125		24,740	64,833
5131	Radio and television broadcasting						2,254	8,308
5132	Cable networks and program distribution	112	106		7		30,247	39,178
5133	Telecommunications	11,780	5,135		6,645		133,108	271,756
5141	Information services	-357	72		-429		5,999	13,929
5142	Data processing services	2,786	105		2,681		6,396	38,617
52A0	Monetary oversight and credit intermediation	7,353			7,353		234,915	418,076
5230	Securities, commodity contracts, investments	7,791			7,791		74,644	203,385
5240	Insurance carriers and related services	863	495		368		166,253	343,601
5250	Funds, trusts, and other financial vehicles	-6,250			-6,250		61,556	64,300
5310	Real estate	12,414	1,143		11,270		250,594	621,289
S008	Owner-occupied dwellings						592,862	592,862
5321	Automotive equipment rental and leasing	2,629	605		2,024		45,034	83,882
532A	Consumer goods and general rentals	1,166	358		808		17,878	24,524
5324	Machinery and equipment rental and leasing	1,661	278		1,384		3,865	42,095
5330	Rights to nonfinancial intangible assets						29,719	101,992
5411	Legal services	6,583	1,478		5,105		63,460	152,745
5412	Accounting and bookkeeping services	3,123	756		2,367		8,833	63,820
5413	Architectural and engineering services	2,244	2,201		43		31,462	130,461
5414	Specialized design services	209	56		153		2,756	19,056
5415	Computer systems design and related services	8,553	311	505	1,704	6,033	107,348	141,388
5416	Management and technical consulting services	7,087	2,693		4,394		10,798	89,918
5417	Scientific research and development services	4,194	220		3,973		30,671	63,130
5418	Advertising and related services	2,867	1,216		1,651		4,051	175,305
5419	Other professional and technical services	577	196		381		15,947	61,078
5500	Management of companies and enterprises						22,417	315,497
5613	Employment services	3,425	751		2,674		5,480	88,653
5615	Travel arrangement and reservation services	125	6		119		8,144	25,097
561A	All other administrative and support services	7,878	3,110		4,768		28,684	189,890
5620	Waste management and remediation services	2,684	1,086		1,598		12,133	39,479
6100	Educational services	-34,854	-37,410		2,556		94,660	103,484
6210	Ambulatory health care services	-15,461			-15,461		374,255	380,333
6220	Hospital care	-70,983	-18		-70,965		267,078	267,078
6230	Nursing and residential care	804			804		93,584	93,584
6240	Social assistance	1,692			1,692		66,267	66,275
71A0	Performing arts, spectator sports, and museums	-246	113		-359		23,248	52,194
7130	Amusements, gambling, and recreation	-2,720	364		-3,083		76,942	81,014
7210	Accommodations	-1,062	-4,276		3,213		53,649	77,402
7220	Food and beverage services to customer order	-3,277	-7,686		4,409		288,659	346,117
8111	Automotive repair and maintenance	2,307	1,142		1,165		107,757	145,651
811A	Electronic, commercial, and household goods repair	7,671	3,308		4,362		23,850	94,947
8120	Personal and laundry services	2,003	473		1,530		86,100	96,520
813A	Religious, grantmaking, and social advocacy	539			539		54,376	54,376
813B	Civic, social, professional and similar organizations	388	312		76		25,585	44,727
8140	Private household services						12,035	12,035
S001	Federal Government enterprise services	4,450	396		4,054		12,770	60,927
S002	State and local government enterprise services	1,098	343		755		30,582	43,059
S003	Noncomparable imports						-64,686	
S004	Scrap, used and secondhand goods	-767	-321	358	-2,059	1,255	-11,495	5,490
S005	General government services	644,806	334,075		310,731		937,812	937,812
S006	Rest of the world adjustment to final uses							
S007	Inventory valuation adjustment						9,211	9,211
	Total	945,333	368,386	48,717	395,956	132,275	8,345,646	14,862,876

* Less than \$500,000.